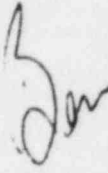




UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

June 19, 1984

MEMORANDUM FOR: William J. Dircks, Executive Director  
for Operations

FROM:  Ben B. Hayes, Director  
Office of Investigations

SUBJECT: NUREG-1020LD, VOL. 1 AND VOL. 2--DENTON MEMORANDUM TO HAYES  
DATED NOVEMBER 7, 1983

Bill, I have had a request from Mr. Bill Russell, NRR, to make available to the public NUREG-1020LD, Vol. 1 and Vol. 2, GPU v. B&W Lawsuit Review and Its Effect on TMI-1; and Harold Denton's memorandum to Ben Hayes dated November 7, 1983, OI Investigations Into Matters Discussed in NUREG-1020.

I have reviewed the material and offer no objections to making this material public. It is my understanding that the staff wishes to incorporate some of this material in the pending TMI-1 restart SSER.

As you know, we are attempting to release to the public as quickly as possible all investigative information that might bear upon the restart decision.

cc: H. Denton, NRR

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# *GPU v. B&W* Lawsuit Review and Its Effect on TMI-1

*General Public Utilities Corporation, et al. v.  
The Babcock & Wilcox Company, et al.*  
Three Mile Island Nuclear Station Unit 1  
Docket 50-289

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## U.S. Nuclear Regulatory Commission

Office of Nuclear Reactor Regulation



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Manuscript Completed: September 1983  
Date Published: September 1983

Office of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555



## ABSTRACT

This report documents a review by the Nuclear Regulatory Commission (NRC) staff of the General Public Utilities Corporation, et al. v. the Babcock & Wilcox Company, et al. (GPU v. B&W) lawsuit record to assess whether any of the staff's previous conclusions or their principal bases presented at the Three Mile Island Unit 1 (TMI-1) restart hearing, supporting restart of TMI-1, should be amended in light of the information contained in the lawsuit record. Details of the lawsuit record are provided in the appendices contained in Volume II of this report.

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## ACRONYMS AND INITIALISMS

ACRS	Advisory Committee on Reactor Safeguards
AFW	auxiliary feedwater (same as emergency feedwater)
AIF	Atomic Industrial Forum
ANS	American Nuclear Society
ASLAB	Atomic Safety and Licensing Appeal Board
ASLB	Atomic Safety and Licensing Board
ATOG	Abnormal Transient Operating Guidelines
CLI	Commission Legal Issuance
CRT	cathode-ray tube
Dep.	deposition
DNB	departure from nucleate boiling
EDO	Executive Director of Operations
EFW	emergency feedwater (same as auxiliary feedwater)
ESFAS	engineered safety features actuation system
EQ	equipment qualification
FMEA	failure mode effects analysis
FSAR	Final Safety Analysis Report
GORB	General Office Review Board
GPU	General Public Utilities Corporation
GPUN	General Public Utilities Nuclear Corporation
HPI	high-pressure injection
ICC	inadequate core cooling
ICS	integrated control system
IE	Office of Inspection and Enforcement, NRC
LER	licensee event report
LOCA	loss-of-coolant accident
Met-Ed	Metropolitan-Edison Company
MSLB	main steam line break
NRC	Nuclear Regulatory Commission
NRR	Office of Nuclear Reactor Regulation
OARP	Operator Accelerated Requalification Program
OI	Office of Investigations
PID	Partial Initial Decision
PORC	Plant Operating Review Committee
PORV	pilot-operated relief valve
PORV	power-operated relief valve



ACRONYMS AND INITIALISMS (CONTINUED)

QA	quality assurance
QC	quality control
RCP	reactor coolant pump
RCS	reactor coolant system
RO	reactor operator
SBLOCA	small-break loss-of-coolant accident
SER	Safety Evaluation Report
SPDS	safety parameter display systems
STA	shift technical advisor
SRO	senior reactor operator
TMIA	Three Mile Island Alert (a restart intervenor)
TMI-1	Three Mile Island Unit 1
TMI-2	Three Mile Island Unit 2
Trial Test.	trial testimony
TSC	technical support center

## INTRODUCTION

When the Three Mile Island Unit 2 (TMI-2) accident occurred on March 28, 1979, the other nuclear power plant at the site, Three Mile Island Unit 1 (TMI-1), was in a power ascension mode after completion of a refueling outage. The plant was immediately shut down by the licensee, Metropolitan Edison Company. TMI-1 has not been restarted.

The Nuclear Regulatory Commission issued several orders after the accident that required the licensee to complete a number of actions before the restart of TMI-1 would be permitted. The Commission also decided that a public hearing should be held on the restart of TMI-1. An Atomic Safety and Licensing Board (ASLB) was appointed to rule on petitions to intervene and to conduct the hearing. After a lengthy adjudicatory proceeding, the ASLB issued a series of partial initial decisions approving the restart of TMI-1. These decisions are currently undergoing appellate review.

In 1981, while the TMI-1 Restart proceeding was being conducted, the General Public Utilities Corporation (the parent company of the TMI licensee) instituted a civil suit against the Babcock & Wilcox Company for monetary damages resulting from the TMI-2 accident. This civil suit will be referred to throughout this report as the GPU v. B&W lawsuit. After pretrial discovery and preliminary proceedings, the GPU v. B&W trial began on November 21, 1982, in the United States District Court. Twelve weeks later, on January 24, 1983, the lawsuit was settled out of court by the parties.

Recognizing that the matters litigated by the parties to the GPU v. B&W lawsuit might affect matters pending before it, the Commission on December 28, 1982, directed the Executive Director for Operations to examine the trial testimony and exhibits and to advise the Commission whether the NRC staff's understanding of the TMI-2 accident is significantly affected. Subsequently, the Commission further directed that this review consider whether information from the trial could affect the Commission's decision on whether to allow TMI-1 to resume operation.

On March 28, 1983, the staff reported to the Commission the results of its review of the trial testimony and exhibits. The report concluded that the trial testimony and exhibits did "not contain information that significantly affects the agency's understanding of the [TMI-2] accident" or "that would affect the Commission's decision regarding restart" of TMI-1 except as to one item related to the adequacy of small-break loss-of-coolant and natural circulation procedures. This item had previously been identified by a board notification.

After considering the staff's March 28, 1983 report, the Commission subsequently requested that the staff expand its review to include numerous additional documents from the GPU v. B&W lawsuit. These consisted of the depositions and deposition exhibits that were assembled during pretrial proceedings. The Commission also requested that the staff include in its expanded review an assessment of information related to the licensee's management competence/integrity. With

the Commission's approval, the Office of Nuclear Reactor Regulation undertook this expanded review. The material reviewed consisted of approximately 70,000 pages of trial testimony and exhibits and deposition testimony and exhibits.

This report (NUREG-1020) documents the results of the staff's expanded review of the GPU v. B&W lawsuit record. A summary of the conclusions of the staff's review is presented in the following section. A detailed statement of the background of this review project, including a description of the objective of the review and the method used by the staff in conducting the review, is then provided. The chapter giving the background of this report also explains the figures, tables, and appendices that are included in the report. Finally, the results of the staff's review are reported. The discussion of results is divided into subject matter categories as approved by the Commission.

## SUMMARY OF CONCLUSIONS

The staff has reviewed approximately 2,430 documents from the lawsuit between General Public Utilities Corporation and Babcock & Wilcox Company to determine whether the information contained in the lawsuit record requires the amendment of any of the staff's previous conclusions or their principal bases as presented in the TMI-1 Restart proceeding.

Commission requirements for the restart of TMI-1, consisting of certification items and long-term actions, were grouped into categories by subject matter. The documents from the lawsuit record, comprised of trial testimony, depositions, and exhibits, were screened and grouped into the same categories. These categories consisted of the following: (1) Operator Training, (2) Procedures, (3) Operating Experience, (4) Licensee Qualification, (5) Quality Assurance and Maintenance, (6) Equipment and System Design and Function, (7) Accident Analysis, (8) Radiation Protection, (9) Emergency Planning, and (10) Management Competence/Integrity.

With respect to the first nine categories, the staff's review found that most of the documents evaluated were relevant in that they were related to the respective Commission requirements. In only two cases, however, were lawsuit documents found to be material in the sense that they had the potential to change the staff's previous conclusions or their principal bases. These related documents were identified for the Commission, the licensing boards, and the parties to the TMI-1 Restart proceeding in Board Notification 83-137. These documents provide evaluations of several potential means for pressurizer power-operated relief valve position indication previously unreviewed by the staff. The staff (including the original reviewer for this item for TMI-1 Restart Safety Evaluation Report (SER), NUREG-0680) evaluated these two documents and established that the conclusions and bases of NUREG-0680 are not altered by this information.

With respect to the tenth category, "Management Competence/Integrity," the staff's review leads it to conclude that potential integrity issues are raised by the GPU v. B&W lawsuit documents in the following seven areas:

- Hartman allegations concerning leak rate tests and other matters
- conduct of licensee's internal investigation of the TMI-2 accident
- training program irregularities during the period before the accident
- licensee's preaccident knowledge of defective plant conditions
- cheating and requalification certification irregularities
- licensee's knowledge concerning the TMI-2 accident sequence
- financial/technical interface

With the exception of the area of cheating and requalification certification irregularities (which has already been the subject of investigation, enforcement action, and ASLB consideration), the Office of Investigations is conducting investigations in these areas. When these investigations as well as investigations into two other matters (possible irregularities in TMI-2 cleanup activities and possible failures to make prompt notifications concerning relevant and

material information) have been completed, the staff will evaluate the results and integrate them into an overall position on management integrity in a supplement to the TMI-1 Restart SER (NUREG-0680).

In summary, on the basis of its review of the GPU v. B&W lawsuit documents, the staff draws the following conclusions:

- (1) The lawsuit record contains information in seven areas relating to management competence/integrity requiring further investigation before the staff can make a decision regarding the revalidation of its position on management integrity.
- (2) Except in the category of management integrity, none of the information contained in the GPU v. B&W lawsuit record causes the staff to alter the staff's previous conclusions or their principal bases as presented in the TMI-1 Restart proceeding.



## BACKGROUND

The objective of the lawsuit record review is to document whether any of the staff's conclusions or their principal bases presented at the TMI-1 Restart hearing need to be amended in light of the information contained in the lawsuit record. The background of the staff's review and this report has four elements which are discussed in the sections that follow: (1) the GPU v. B&W lawsuit and its resolution, (2) the TMI-1 Restart proceeding, (3) the review method utilized by the staff in performing the staff's review of the lawsuit and in evaluating the impact on the restart proceeding and (4) licensee's organizational structure.

### (1) GPU v. B&W Lawsuit and Resolution

The GPU v. B&W trial began on November 1, 1982, in the United States District Court, Southern District of New York. The focus of the trial was on a narrow question: whether legal liability for the TMI-2 accident should be imposed on the manufacturer of the principal systems of TMI-2, B&W, or on the owner and operator of the facility, GPU. During 12 weeks of trial before the parties settled the lawsuit, Judge Richard Owen heard or received in evidence 7,424 transcript pages of testimony and 478 documentary exhibits. This represented only a small percentage of the record that had been compiled during pretrial discovery proceedings - 81 depositions and 1,378 deposition exhibits. In addition, there are several hundred other exhibits which were identified for possible use in the trial. Together, these documents comprise the "Lawsuit Record" and total more than 70,000 pages.

The attorneys for plaintiff GPU made the following arguments during the trial:

- (a) A sequence of events, similar to the events at TMI-2, occurred in September 1977, more than a year before the TMI-2 accident, at the Davis-Besse Nuclear Power Plant. GPU argued that B&W knew of this sequence and that one of B&W's top engineering analysts proposed changes to operating procedures to augment the response to certain loss-of-coolant accidents (LOCAs). These proposed changes to operating procedures recommended that the high-pressure injection (HPI) pumps be left on once they were initiated until it can be determined that the reactor coolant system hot-leg temperature is more than 50F° below saturation temperature.

B&W never issued these proposed changes to operating owners of its reactors. The NRC fined B&W \$100,000 for not providing this information under 10 CFR 21. According to GPU, the accident at TMI-2 would have been avoided if these procedures had been available.

- (b) GPU contended that the operators were trained on the B&W simulator to maintain the pressurizer water level at a certain level and to avoid the condition at all costs of "going solid" - permitting the pressurizer to fill completely with water - thus hampering the ability to regulate system pressure through the control of the pressurizer steam bubble. This was the reason why the HPI pumps were not on for 28 minutes at the Davis-Besse plant and the reason why the operators at TMI-2 turned off the HPI pumps.



The TMI-2 operators saw the water level rising in the pressurizer and did not want the system to go solid.

- (c) GPU asserted that the B&W simulator did not contain a program that could simulate the incident that occurred at Davis-Besse. That is, the simulator was not programmed to show a rise in pressurizer level when a break at the top of the pressurizer occurs. The simulator showed the opposite kind of behavior.

According to GPU, operation personnel at Davis-Besse asked B&W to put the incident at their plant on the B&W simulator. B&W said it was too difficult to change the programs. Ten days after the accident at TMI-2 B&W reprogrammed the simulator. GPU asserted that there was no excuse or explanation why B&W did not pass on the information that it had so that instructions developed after the Davis-Besse incident could be implemented in the course of training on the simulator.

The attorneys for defendant B&W prefaced their argument by noting that the case was being tried under Pennsylvania law, which provides that, in order for the plaintiff to recover on a theory of negligence, it is necessary for the plaintiff to prove that negligence on its part was not a greater cause of the accident than any negligence on the part of the defendant. B&W contended that there was no negligence on its part, and that even if it were found by the court that there was negligence by B&W, that B&W's negligence was far less than that of GPU.

The attorneys for B&W made the following arguments in support of B&W's defense.

(a) Preaccident Conditions

• Unidentified Leak Rates

B&W argued that Metropolitan Edison (licensee) operators had falsified leak rates in 1978 and 1979 by adding unrecorded water or hydrogen to the reactor coolant makeup tank and had improperly applied a density factor to their calculations. These practices, allegedly known to management, resulted in an unidentified leak rate that was within Technical Specifications. If GPU had not falsified leak rates, B&W alleged, TMI-2 would have been shut down on the day of the accident because the unidentified leakage would have been beyond Technical Specification limits. The cause of the higher-than-normal unidentified leak rate would then have to have been determined before startup would be permitted.\*

B&W also contended that the excessive leak rates may have been caused by a faulty power-operated relief valve (PORV), the valve that stuck open during the accident and significantly contributed to the accident results. Two months before the accident, high temperature readings were measured in the PORV tailpipe (190°F versus required 130°F) and the temperature and pressure in the drain tank (the tank that the PORV

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\*These allegations by H. W. Hartman, Jr. ("Hartman allegations"), are the subject of ongoing investigations by the Office of Investigations (NRC) and by the Department of Justice.

discharges into) were also high. GPU had adopted B&W procedures that required closing the block valve (a valve upstream of the PORV) when the above conditions existed, but GPU did not follow these procedures. GPU was fined \$155,000 by the NRC, in part for not following these procedures. B&W contended that if the block valve had been closed, the accident as it transpired would not have occurred because the PORV would not have provided an opening from the pressurizer throughout the initial stages of the accident.

• Modification to Feedwater Control

B&W argued that the initiating cause of the accident, loss of feedwater, would have been prevented if modifications to the feedwater controls had been made. These modifications were recommended in an internal GPU memorandum of 1978, which GPU allegedly ignored.

• Emergency Feedwater Valves Closed

B&W contended that the emergency feedwater valves had been closed improperly for 3 days before the accident. This condition was not recognized in the control room until 8 minutes into the accident. GPU was fined \$5,000 by the NRC for allowing this condition to exist.

• Inadequate Maintenance Staff

B&W asserted that the maintenance staff was about half of what it should have been. As a result there were about 800 to 1,000 maintenance items that had not been worked on. The maintenance supervisor never knew that there was any leakage at any time from the PORV or any of the safety valves even though the temperature had been around 190°F (instead of 130°F) for 6 weeks before the accident.

• Inadequate Training

B&W argued that the training provided by the licensee had declined, according to an in-house audit before the accident. B&W attributed this decline to the licensee's management for the following reasons:

- The head of the training department did not have an operator's license. After his appointment he spent half his time and later full time studying for his license. In November 1978, he took the examination and failed it.
- Attendance in training classes had declined to 30%.
- The head of operations at TMI-2 did not go to training class. He had someone else take half of the requalification examination (the take home examination) for his license renewal. The licensee's management sent the scores of this examination to the NRC and the NRC renewed the license of the head of operations.\*

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\*See 16 NRC 281 (1982) at paragraphs 2287-2320. After further investigation was conducted into this matter, the Commission approved the issuance of Notice of Violation and proposed a fine in the amount of \$140,000 (CLI-83-20).

(b) Accident Conditions

• Stuck-Open PORV

B&W alleged that the operators should have known that the PORV was stuck open for the following reasons:

- The temperature reading in the pipe line (tailpipe) from the PORV to the drain tank was 285°F. (GPU contended that operators were expecting higher temperatures than this to indicate a stuck-open PORV.)
- The temperature and pressure in the drain tank went off the top of the scale.
- The drain tank relief valve opened at 150 psig.
- The drain tank rupture disc blew at 190 psig.

According to B&W, all these symptoms indicated a stuck-open PORV that the licensee's operators should have recognized early in the accident instead of 2 hours into the accident.

Further, B&W alleged that the incident at Davis-Besse was described in detail at a meeting sponsored by B&W that was attended by two people from Metropolitan Edison. The meeting participants were told that the PORV had opened and stuck open and that the rupture disc on the drain tank burst. The Davis-Besse people recognized, in part from these symptoms, that the PORV had stuck open.

• PORV Light

B&W asserted that the licensee had a light installed in the control room that was supposed to give the status of the PORV valve; i.e., light on - PORV open, light off - PORV closed. However, this light did not monitor the actual position of the PORV, but only whether power was being supplied to the PORV actuating solenoid. During the accident, after the pressure dropped, the actuating solenoid and the light were de-energized but the PORV failed to close mechanically, which led the operators to believe that the PORV was closed. The licensee designed and installed the light and associated circuitry and did not tell the operators that it was not an absolute indication of the PORV position. (GPU contended that this light was put in with B&W's recommendation and concurrence.)

• High Pressure Injection Termination

B&W contended that the licensee's operators turned off high-pressure injection based (HPI) on high pressurizer water level instead of following B&W procedures not to terminate HPI unless both pressurizer level and pressure are above their normal set points. According to B&W, if HPI had come on and stayed on any time up to 1-3/4 hours into the accident, there would not have been core damage.

### Inability To Recognize Saturation

B&W argued that the operators at TMI-2 did not realize early in the accident that they had reached saturated conditions. When they realized it at about 5:40 a.m. (1 hour and 40 minutes into the accident), they turned on the HPI pumps. Within 5 minutes after the pumps were turned on, someone turned the pumps off. The reason given by B&W that the operators did not recognize saturation conditions early in the accident is that the licensee's training department did not teach the operators the fundamentals of an overcooling transient even though such incidents had occurred earlier at TMI-2. Had the operators been properly taught, B&W reasoned, they would have realized that this was not an overcooling transient but a LOCA and would have kept the HPI pumps on. If this had been done any time up to 1-3/4 hours into the accident, core damage would not have occurred.

B&W further contended that the procedure recommended by the B&W top engineering analyst, which was never sent out by B&W, was a detailed procedure expanding on LOCA procedures already in existence at TMI. The licensee's operators never followed the LOCA procedures, which told them to terminate HPI only when pressure and pressurizer level were both at their normal limits, instead of ignoring the pressure. The operators also ignored all the heatup/cool-down curves, which told them that pressure/temperature has to be maintained at a certain relationship above saturation. The NRC fined GPU for not following the existing procedures.

The lawsuit was settled out of court on January 24, 1983, 12 weeks after the trial began. GPU had originally sued B&W for \$4 billion; \$1.5 billion was for cleanup and repair bills and the other \$2.5 billion was for consequential damages to compensate what it has, and will, cost GPU to replace the lost power at TMI. The actual settlement gave GPU the right to take \$37 million in rebates on future purchases from B&W.

### (2) TMI-1 Restart Proceeding

The Nuclear Regulatory Commission issued several orders (see Figure 1) after the TMI-2 accident that required the licensee to complete short- and long-term actions before restart of TMI-1. The short-term actions, which currently number 154, have been designated as "certification items" because the staff has to certify to the Commission that all certification item actions are completed with all outstanding issues resolved before restart. For long-term actions, which number 19, the staff has to verify that satisfactory progress toward completion has taken place before restart.

The progress on the short- and long-term action items has been documented in NUREG-0680, "TMI-1 Restart," and its Supplements 1, 2 and 3, in NUREG-0752, "Control Room Design Review Report for TMI-1," and its Supplement 1, and in NUREG-0746, "Emergency Preparedness for TMI-1," and its Supplement 1.

The Commission also issued an order (CLI-79-8) appointing an Atomic Safety and Licensing Board (ASLB) to rule on petitions to intervene and to conduct the public hearing on the restart of TMI-1.



The status of the licensee's compliance with the certification items and long-term actions (hereafter referred to collectively as hearing items or restart issues) has been presented by the NRC staff at the hearings. The ASLB reviewed the hearing items and introduced some additional certification items in partial initial decisions (PIDs) (see Figure 1). Other certification items later were added by the Atomic Safety and Licensing Appeal Board (ASLAB).

The broad issues that were considered at the hearing were:

- (a) Whether the short-term actions (recommended by the Director of NRR and set forth in Section II of CLI-79-8) are necessary and sufficient to provide reasonable assurance that TMI-1 can be operated without endangering the health and safety of the public and whether these actions should be required before resumption of operation should be permitted.
- (b) Whether the long-term actions (recommended by the Director of NRR and set forth in Section II of CLI-79-8) are necessary and sufficient to provide reasonable assurance that the facility can be operated for the long term without endangering the health and safety of the public and whether these actions should be required of the licensee as soon as practicable.

The hearing was separated into three topic areas: (a) procedural background and management issues, (b) plant design and procedures and separation issues, and (c) emergency planning issues. The ASLB issued PIDs on topic area (a) on August 27, 1981, and on topic areas (b) and (c) on December 14, 1981. As part of those decisions, the ASLB added some additional certification items to be completed before the restart of TMI-1.

Immediately before issuing the management PID of August 27, 1981, the ASLB received several notifications from the NRC staff providing the results of an investigation by the NRC Office of Inspection and Enforcement (IE) into allegations of cheating by two TMI-1 shift supervisors on an April 1981 NRC Senior Reactor Operator Examination. The ASLB retained jurisdiction over this issue and its effect on management integrity. On October 2, 1981, the ASLB reopened the hearing to inquire into the matter; a third PID was issued on July 27, 1982.

Review of the PIDs by the ASLAB resulted in the addition of other certification items in ALAB-697 and ALAB-698, October 22, 1982 (Emergency Planning) and ALAB-729, May 26, 1983 (Design Issues). However, the certification item developed in ALAB-698 was vacated by Commission Order CLI-83-7; therefore, there are no certification items remaining from ALAB-698.

Both the ASLB and ASLAB resolved the restart issues before them in favor of restarting TMI-1, subject to approval by the Commission of the certification items and satisfactory progress on the long-term actions.

By Memorandum and Order (ALAB-738) dated August 31, 1983, the ASLAB reopened the hearing in response to intervenor motions. The scope of the reopened hearing is limited to the so-called Hartman allegations of falsification of reactor coolant system leak-rate data.

The NRC staff has periodically informed the Commission on the status of the hearing items. The latest report is in SECY 83-340, dated August 16, 1983.

Table 1 of Appendix A of the present report lists the 154 certification items that have to be completed before restart of TMI-1; Table 2 of Appendix A lists the 19 long-term actions identified as a result of Commission Order CLI-79-8. (Appendix A is located in Volume II of this report.)

(3) Review Method Utilized by the Staff

(a) Selection of Categories

The intent of the GPU v. B&W lawsuit record review process was to have the staff members who were most knowledgeable about positions taken during the hearing be responsible for comparing the applicable lawsuit record documents with the hearing items. This was accomplished by partitioning the hearing items into categories, which were derived, in part, by deciding what line organization at the NRC division level had done the original review of the item for NUREG-0680. Within divisional areas of review there were hearing items that could be grouped further into general categories. The hearing items were finally divided into one or more of the following 10 categories, and the NRC division responsible for the review is shown as well.

<u>Category</u>	<u>Lead Division</u>
1 - Operator Training	Division of Human Factors Safety
2 - Procedures	Division of Human Factors Safety
3 - Operating Experience	Division of Licensing
4 - Licensee Qualification	Division of Human Factors Safety
5 - Quality Assurance and Maintenance	Division of Quality Assurance, Safeguards and Inspection Programs
6 - Equipment and System Design and Function	Division of Systems Integration
7 - Accident Analysis	Division of Systems Integration
8 - Radiation Protection	Division of Systems Integration
9 - Emergency Planning	Division of Emergency Preparedness and Engineering Response
10 - Management Competence/Integrity	Division of Licensing

Details of the lawsuit record are provided in the appendices contained in Volume II of this report. Sections A1 through A9 of Appendix A in Volume II list the hearing items according to category.

There were no certification items or long-term actions in Category 10, "Management Competency/Integrity," because no items dealing with management integrity specifically were identified in any of the Commission



orders. Managerial capability or competence, however, was specifically addressed both in CLI-79-8 (as short-term item number 6) and in CLI-80-5 (in issue numbers 2, 3, 4, 5, 7, 10 and 11). The hearing issues dealing with management competence resulting from these Commission orders and others resulting from the hearing process have been addressed primarily in Category 4 and, to a lesser extent, in Categories 1 through 3 and 5 through 9.

During the Restart hearing and during the early review of the GPU v. B&W lawsuit, issues dealing with management integrity arose. The scope of review of the GPU v. B&W lawsuit was expanded by the Commission to include these management integrity issues. Additional background on this category is given in Category 10.

(b) Initial Screening

The lawsuit record (*i.e.*, trial testimony, depositions, and exhibits) was screened by a team of 15 project managers in the Division of Licensing. These project managers had not been involved to any significant degree in any of the staff's earlier reviews of TMI-1 or TMI-2. The goal of the screening process was to determine, based on an initial reading of each document, which documents should receive further technical review. On the basis of this initial screening, almost all of the trial testimony and pretrial depositions and approximately 60% of the exhibits were determined to warrant technical review. The screening team specified which documents or portions of documents were applicable to each of 10 categories. Many of the more complex and detailed documents were placed in more than one category.

A computer listing of all trial testimony, depositions, and exhibits identified for technical review by the screening process is presented as Appendix B in Volume II of this report. Ten separate printouts listing all the trial testimony, depositions, and exhibits by technical review category appear in this appendix. For example, the first computer printout in Section B1 lists all the trial testimony, depositions, and exhibits in Category 1, "Operator Training." The remaining nine printouts are given in Sections B2 through B10 and contain a listing of lawsuit documents which were screened into the other nine categories. The introduction to Volume II presents a more detailed description of the computer listing organization in Appendix B.

Appendix C in Volume II of this report is a matrix that identifies the category in which a witness's testimony, a deponent's deposition, or an exhibit can be found. For example, W. Zewe's trial testimony of November 17, 1982, appears in Categories 1, 2, and 4. The computer listing for this document appears in Sections B1, B2, and B4.

Certain lawsuit documents were not placed into any of the 10 categories. The screening project managers judged these 720 documents to be not relevant to the categories of the review effort and, therefore, no technical review was required. Appendix D in Volume II of this report is a list of the lawsuit documents that were not put into categories as a result of the screening process. A total of 76 other exhibits,

either used or earmarked for use in the trial, were not obtained or screened by the NRC because they were either visual aids, models, or tape recordings (53) or because the documents were already a matter of public record or were previously docketed material (23).

(c) Technical Review

Technical review of the documents screened into each category was then conducted. Where possible, the lawsuit record and hearing items for each category have been reviewed by the same staff organization as the one responsible for the preparation of the positions taken by the staff on these items. A flow chart of this process is shown in Figure 2. The decisions that the staff made regarding a particular GPU v. B&W lawsuit document are as follows:

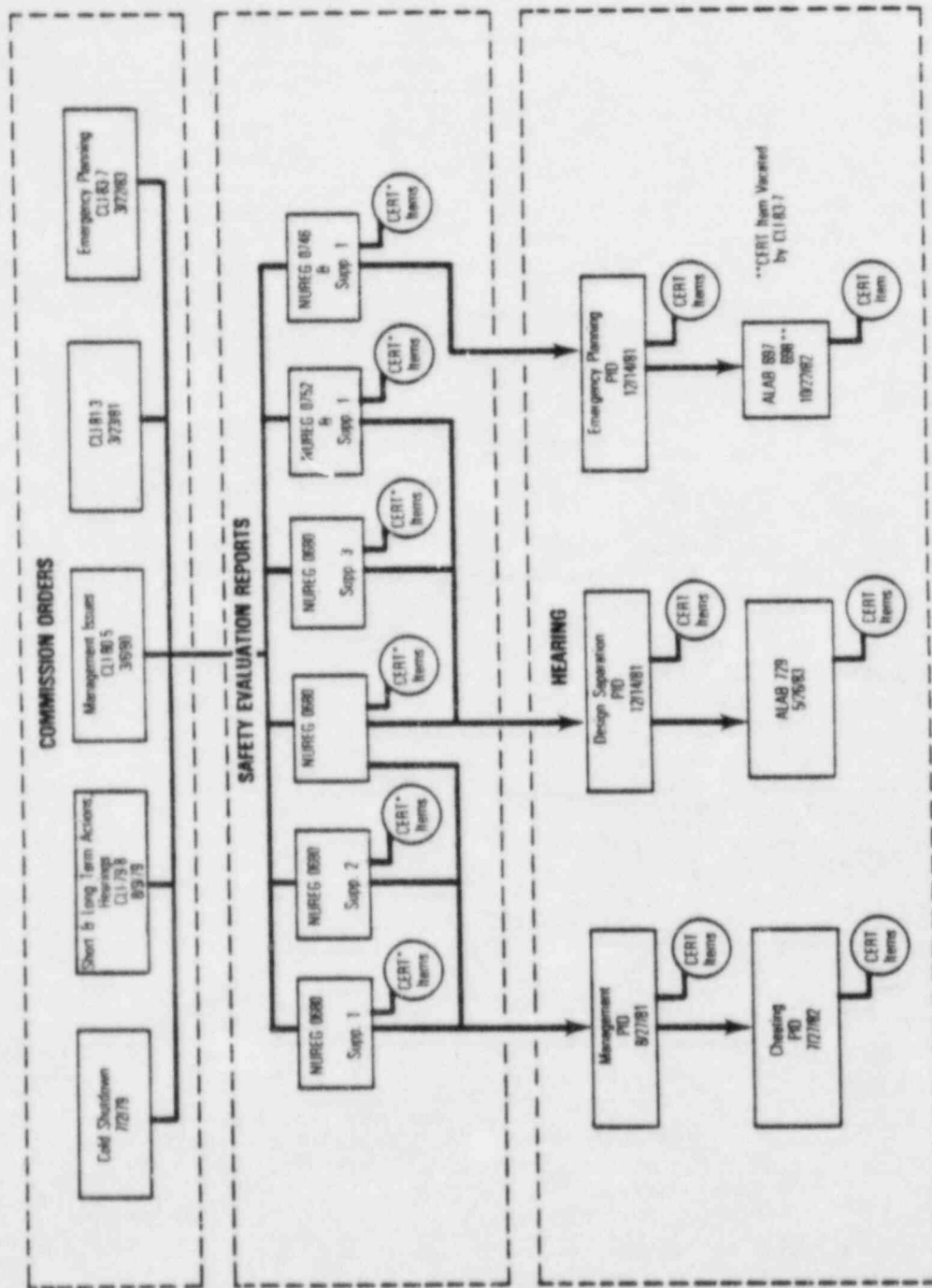
- Has a particular lawsuit document been screened into the proper category? If it was not, the proper category was determined and the lawsuit document was transferred to that category.
- Is a particular lawsuit document relevant to any of the hearing items in a category? If it is not, that document in the applicable computer printout in Sections B1 through B10 is marked irrelevant in the right-hand margin. If the document is relevant, then the section reference within that chapter of this report that addresses the relevancy and materiality of the document appears to the right of the lawsuit document in the applicable portion (B1-B10) of Appendix B.
- Is the lawsuit document relevant and material? Relevant and material in this context means that the document contains information which bears directly on a staff conclusion or its basis and at least has a potential for altering the conclusion or basis. If the document is not material, the basis for not finding it material is included in the applicable chapter. If the document is material, the ASLB is notified and the reasons why the document is material appear in the applicable chapter.
- Do the issues raised in the material document affect the current staff position on the hearing issue? If they do not, the reasons why are given in the applicable chapter. If they were found to alter the position, then the required staff position and basis would be presented in the applicable chapter and would be included in a supplement to the TMI-1 Restart SER (NUREG-0680).

The staff notes that the technical review of the lawsuit documents for three categories (Operator Training, Procedures, and License Qualification) was a partial audit review. The audit review required, as a minimum, that the following documents be reviewed: (1) trial testimony and depositions of personnel still with the GPU organization, (2) lawsuit documents cited by intervenors as being significant in their review of the lawsuit record, and (3) a minimum of 25% of the total number of documents screened into the category. For Categories 3 and 5-10, all documents in the category were reviewed.

A list of the NRC staff that contributed to the overall lawsuit record review is provided in Table 1.

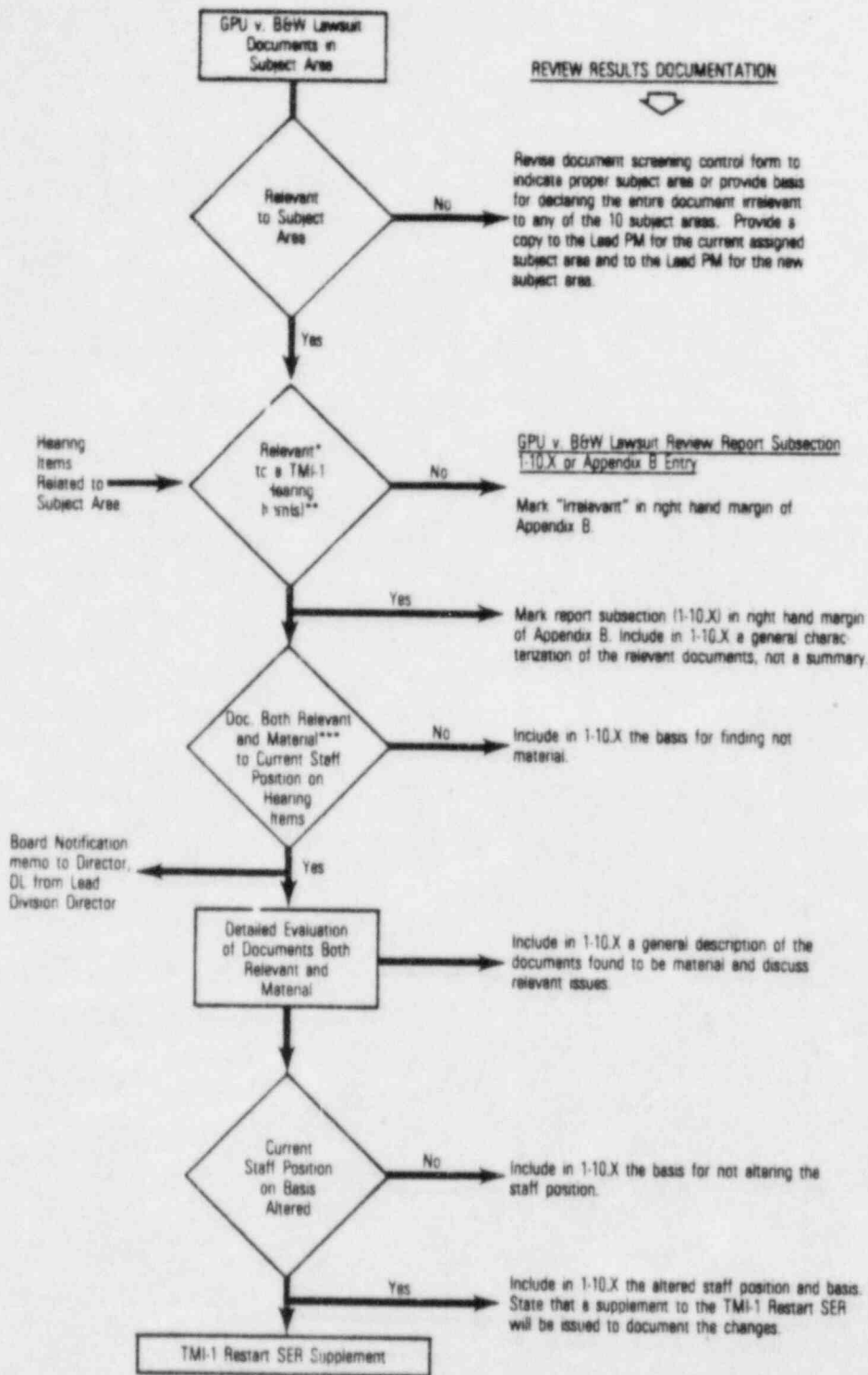
(4) Licensee's Organizational Structure

In many places throughout this report, the organizational structure and key managers and staff associated with Three Mile Island Unit 1 are discussed. At the time of the accident at TMI-2, TMI-1 was owned by the General Public Utilities Corporation (GPU) with Metropolitan Edison Company (Met-Ed) being licensed to operate the facility. Simplified organization charts for GPU and Met-Ed as they existed in March 1979 are shown in Figures 3 and 4, respectively. On January 26, 1981, Met-Ed filed an application for an amendment to its operating license with the NRC staff that would transfer from Met-Ed to GPU Nuclear Corporation (GPUN) the authority to possess, use, and operate the TMI-1 facility. This request was approved by the issuance of Amendment No. 77 to the Operating License for TMI-1 (DPR-50). Simplified organization charts for GPUN and the TMI-1 staff organization, as they exist today, are shown in Figures 5 and 6, respectively. Table 2 provides a summary listing of key managers and staff of GPUN as they relate to TMI-1. The table provides the position title, the name of the individual filling that position today, and that person's position within the GPU organization at the time of the accident at TMI-2. Table 3 provides a listing of the witnesses and deponents for the lawsuit and their titles at the time of the TMI-2 accident as reflected in the lawsuit record.



\*These certification requirements originate from Commission Order requirements

Figure 1 Source documents for hearing items



- \* "Relevant to" means the same general subject area.
- \*\* Hearing items mean certification and long-term action items
- \*\*\* "Relevant and material" in this context means that the document contains information which bears directly on a staff conclusion or its basis and at least has a potential for altering the conclusion or basis.

Figure 2 GPU v. B&W Lawsuit review flow chart

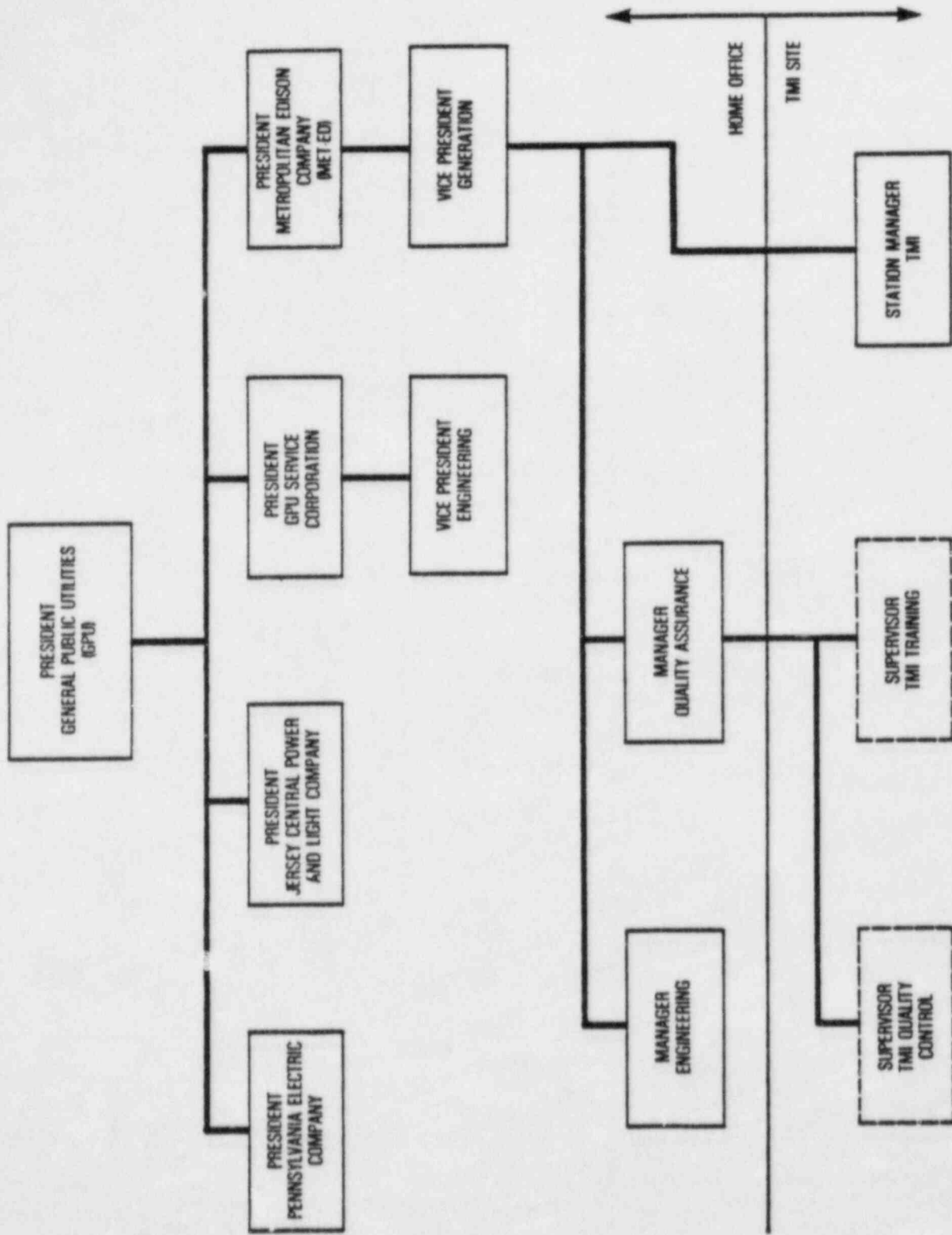


Figure 3 General Public Utilities organization for TMI (March 1979)



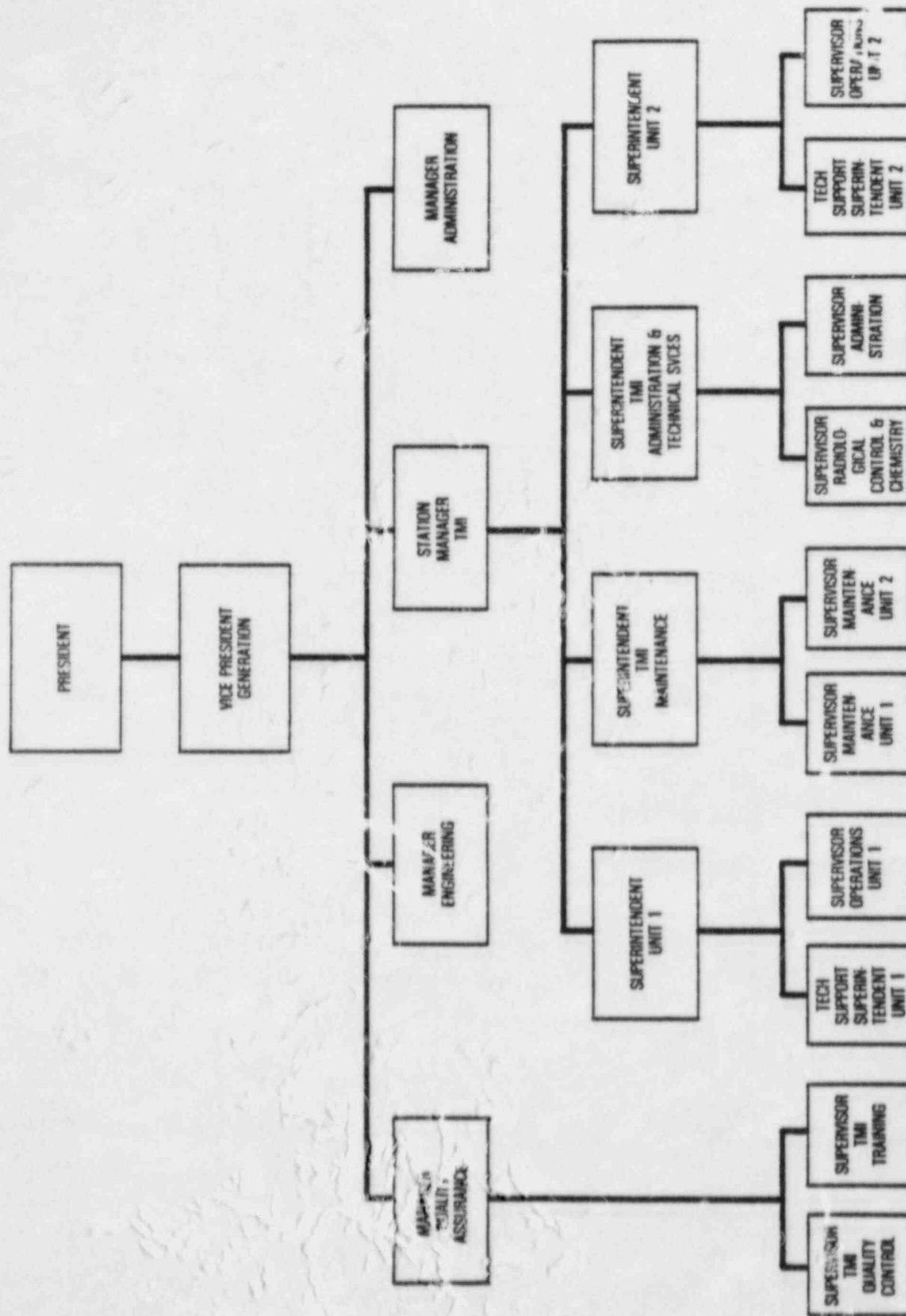


Figure 4 Metropolitan Edison Company organization for TMI (March 1979)

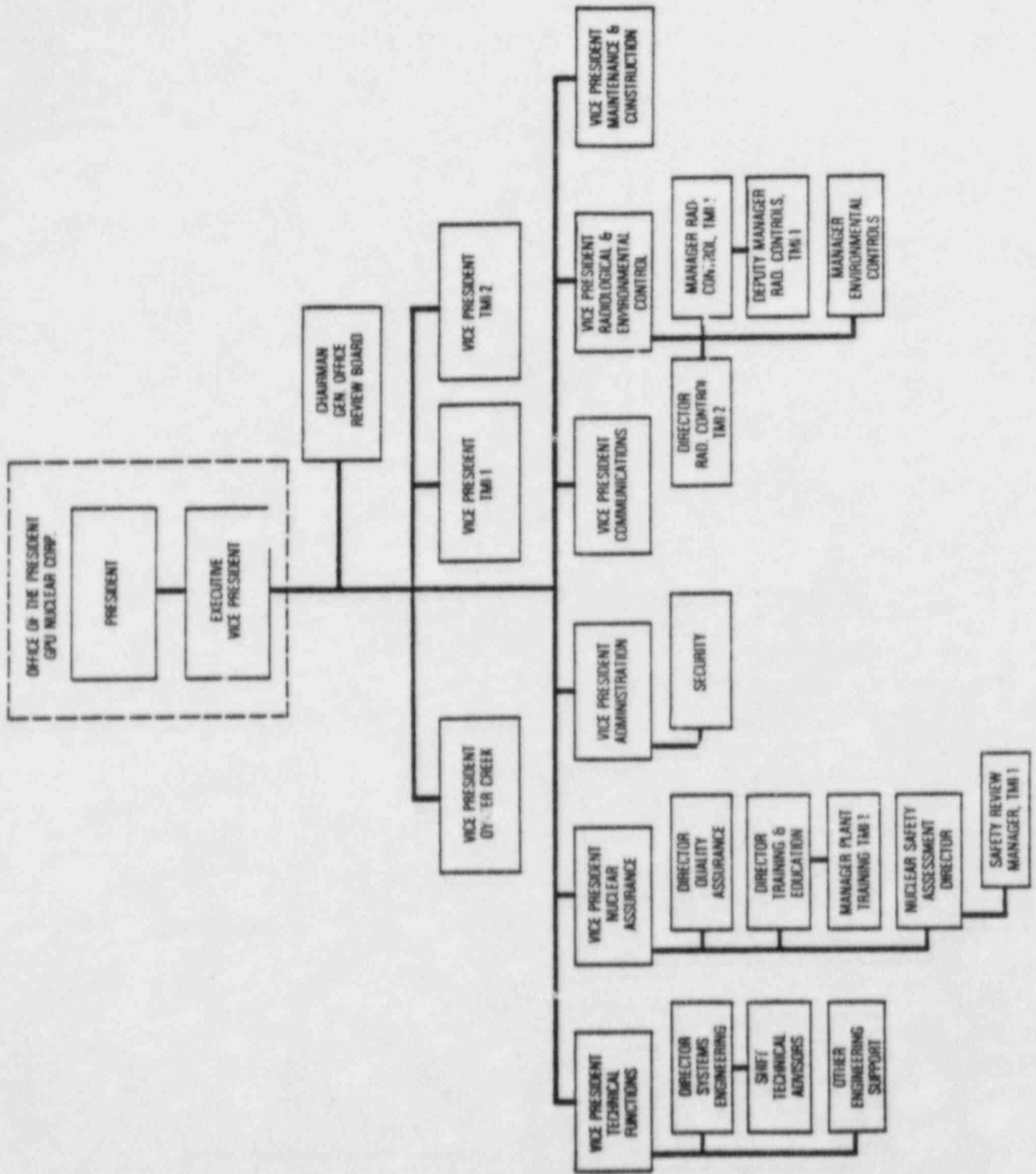


Figure 5 General Public Utilities Nuclear Corporation organization (September 1983)

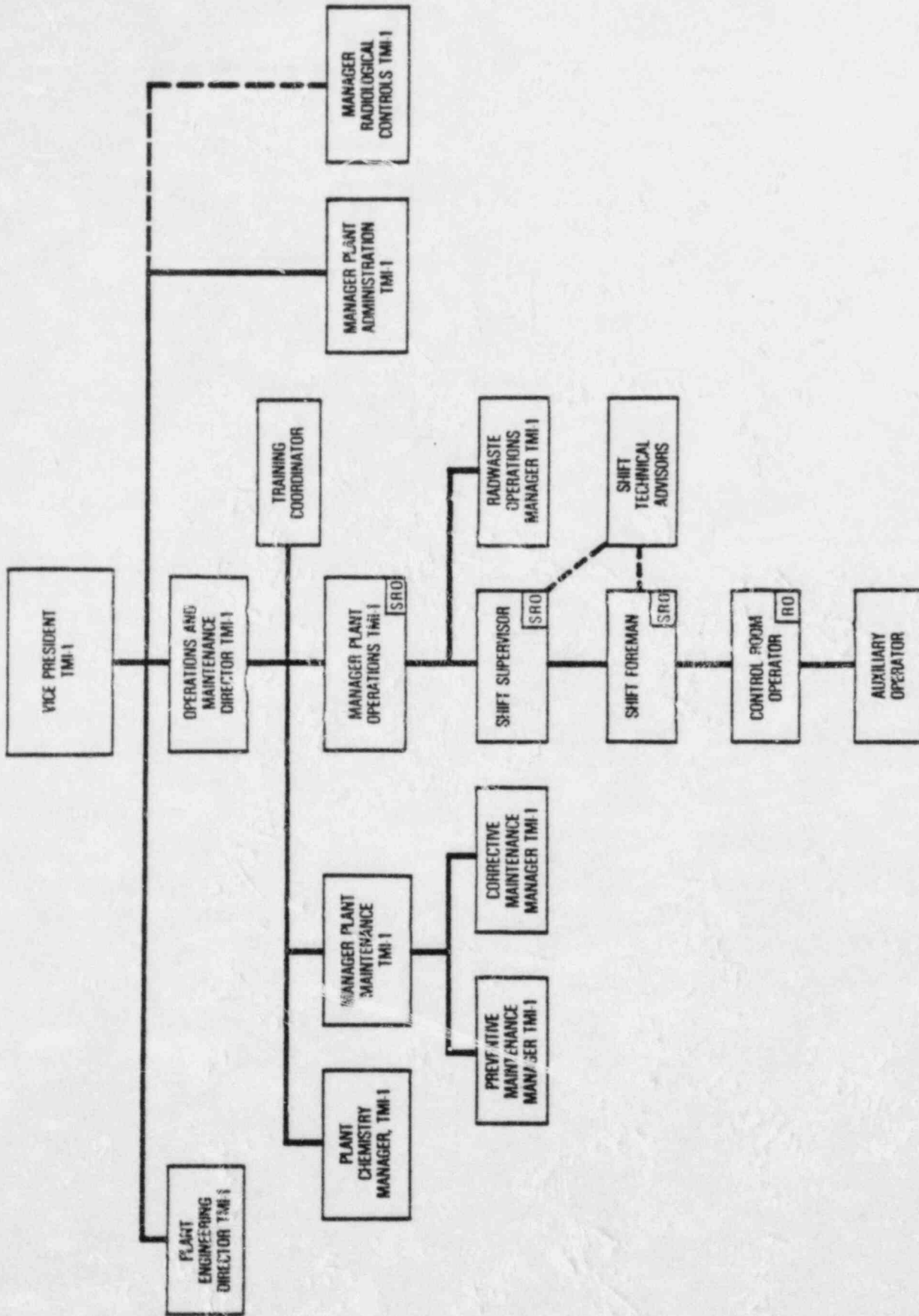


Figure 6 Three Mile Island Unit 1 staff organization (September 1983)

Table 1 NRC staff contributors to lawsuit review

NRC Staff	Title	Branch
W. Russell	Project Director <u>GPU V. B&amp;W Lawsuit Review</u>	Deputy Director, Division of Human Factors Safety
R. Barrett	Nuclear Engineer	Reactor Systems
W. Baunack	Project Engineer	Projects 3 (Region I)
C. Block	Senior Health Physicist	Radiological Assessment
W. Brooks	Reactor Physicist	Core Performance
E. Butcher	Chief, Technical Assistance Program Management Group	Division of Licensing
J. Buzy	Senior Reactor Engineer	Licensee Qualifications
R. Capra	Technical Assistant	Division of Systems Integration
T. Chan	Mechanical Engineer	Auxiliary Systems
R. Conte	Senior Resident Inspector TMI-1	Projects 3 (Region I)
A. DeAgazio	Project Manager	Operating Reactors 4
V. DeLiso	Reactor Engineer	Procedures and Systems Review
F. Eltawila	Senior Containment Systems Engineer	Containment Systems
M. Fairtile	Project Manager	Operating Reactors
D. Gable	Technical Editor	Policy and Publications Management
J. Gilray	Senior Quality Assurance Engineer	Quality Assurance
A. Gonzalez*	Office Coordinator	Intersyst, LTD.
M. Greenberg	Human Factors Engineer	Human Factors Engineering
M. Grotenhuis	Senior Project Manager	Operating Reactors 1
J. Guttmann	Nuclear Engineer	Reactor Systems
W. Haass	Deputy Chief	Quality Assurance
G. Hammer	Mechanical Engineer	Mechanical Engineering
M. Haughey	Project Manager	Licensing 2
D. Haverkamp	Reactor Licensing Engineer	Division of Projects and Resident Programs
P. Hearn	Containment Systems Engineer	Containment Systems
R. Hegner	Office Coordinator	Division of Licensing
R. Hernan	Project Manager	Operating Reactors 4
T. Haung	Nuclear Engineer	Core Performance
J. Jankovich	Engineering Psychologist	Licensee Qualifications
W. Jensen	Senior Nuclear Engineer	Reactor Systems
N. Kadambi	Project Manager	Operating Reactors 4
F. Kantor	Senior Emergency Preparedness Analyst	Emergency Preparedness
M. Keane	Nuclear Engineer	Reactor Systems
S. Keefer	Emergency Preparedness Analyst	Emergency Preparedness
T. Kenyon	Nuclear Engineer	Licensing 4
L. Kintner	Senior Project Manager	Licensing 1
G. Lapinsky	Engineering Psychologist	Human Factors Engineering
N. Laubin	Section Leader	Reactor Systems
C. Li	Containment Systems Engineer	Containment Systems
R. Licciardo	Nuclear Engineer	Reactor Systems

Table 1 (Continued)

NRC Staff	Title	Branch
F. Liederbach	Principal Operational Safety Engineer	Procedures and Systems Review
O. Lynch	Section Leader	Radiological Assessment
B. Mann	Nuclear Engineer	Reactor Systems
E. Marinos	Nuclear Engineer	Reactor Systems
M. Martin	Training and Assessment Specialist	Licensee Qualifications
A. Masciantonio	Equipment Qualification Engineer	Equipment Qualification
M. Mejac	Technical Editor	Policy and Publications Management
R. Meyer	Section Leader	Core Performance
T. Michaels	Senior Project Manager (IA)	Systematic Evaluation Program
S. Miner	Senior Project Manager	Operating Reactors 4
D. Morisseau	Training and Assessment Specialist	Licensee Qualifications
C. Nichols	Senior Nuclear Engineer	Meteorology and Effluent Treatment
J. Norris	Senior Project Manager	Operating Reactors 1
R. Palla	Containment Systems Engineer	Containment Systems
D. Pickett	Senior Systems Engineer	Operating Reactors Assessment
J. Pulsipher	Containment System Engineer	Containment Systems
R. Rawson	Senior Litigation Attorney	Office of the Executive Legal Director
J. Read	Senior Physical Scientist	Accident Evaluation
S. Rhow	Electrical Engineer	Power Systems
R. Schemel	Senior Human Factors Engineer/Scientist	Human Factors Engineering
A. Singh	Mechanical Engineer	Auxiliary Systems
V. Singh*	Office Coordinator	Intersyst, LTD.
B. Sheron	Chief	Reactor Systems
R. Stevens	Reactor Engineer (Instrumentation)	Instrumentation and Control Systems
J. Suermann	Project Manager	Operating Reactors 4
E. Sylvester	Mechanical Engineer	Auxiliary Systems
M. Thadani	Project Manager	Licensing 4
O. Thompson	Geotechnical Engineer	Structural and Geotechnical Engineering
E. Throm	Nuclear Engineer	Reactor Systems
R. Urban	Operational Safety Engineer	Procedures and Systems Review
G. Vissing	Project Manager	Operating Reactors 4
M. Wigdor	Reactor Engineer (Instrumentation)	Instrumentation and Control Systems
J. Wilson	Project Manager	Licensing 3

\*Under contract to the NRC.



Table 2 Principal managers of General Public Utilities Nuclear Corporation/TMI-1 (September 1983)

Current position	Individual	March 1979 position
President, General Public Utilities Nuclear	R. C. Arnold	Vice-President Generation, GPU Service Corporation
Executive Vice President	P. R. Clark	New
Chairman, General Office Review Board	I. R. Finrock	Jersey Central Power and Light
Vice-President, Maintenance and Construction	F. F. Manganaro	New
Vice-President, Technical Functions	R. F. Wilson	Director Technical Functions, GPU Service Corporation
Director, Engineering Projects	R. W. Keaten	Manager, Systems Engineering, GPU Service Corporation
Director, Systems Engineering	T. G. Broughton	Control and Safety Analysis Manager, GPU Service Corporation
Vice-President, Nuclear Assurance	R. L. Long	Manager, Generation Productivity, GPU Service Corporation
Director, Quality Assurance	N. C. Kazanas	Manager, Quality Assurance, GPU Service Corporation
Director, Training and Education	R. Coe	New
Manager, Plant Training, TMI-1	S. Newton	New
Vice-President, Administration	P. R. Clark (Acting)	New
Vice-President, Communications	W. L. Gifford	New
Vice-President, Radiation and Environmental Control	R. W. Heward	Manager, Projects, GPU Service Corporation
Vice-President, TMI-1	H. D. Hukill	New
Plant Engineering Director, TMI-1	J. J. Colitz	Director, Generation Projects Engineering, Met-Ed
Manager Plant Administration, TMI-1	P. G. Christman	Manager, Generation Administration, Met-Ed
Manager Radiation Controls TMI-1	G. A. Kuehn	New
Operations and Maintenance Director, TMI-1	R. J. Toole	Unit Superintendent Homer City (fossil)
Manager, Plant Operations, TMI-1	M. J. Ross	Supervisor of Operations, TMI-1
Radwaste Operations Manager, TMI-1	W. H. Zewe	Shift Supervisor, TMI-2

Table 2 (Continued)

Current position	Individual	March 1979 position
Plant Chemistry Manager, TMI-1	E. C. Fuhrer	Engineering Radiation Protection and Chemistry, TMI-1
Manager, Plant Maintenance, TMI-1	D. M. Shovlin	Superintendent Station Maintenance, TMI
Preventive Maintenance Manager, TMI-1	M. G. Snyder	Plant Maintenance Staff, TMI-1
Corrective Maintenance Manager, TMI-1	R. Harper	Plant Maintenance Staff, TMI-1
Training Coordinator, TMI-1	R. Harbin	Administrative Assistant, TMI-1

Table 3 Witnesses/Deponents - GPU v. B&W Lawsuit

Name	Position, Organization in March 1979 as reflected in the lawsuit record
Agar, James	Manager Contract Unit, Licensing Section, B&W
Albert, James	Midland Site Representative, B&W
Arnold, Robert	Vice President, Generation, GPU Service Corporation
Bailey, Henry	Licensing Engineer, Engineering Department, B&W
Beers, Marshall	Shift Supervisor, Met-Ed
Billingsley, Quincy	Senior Engineer, Productivity Department, GPU Service Corporation
Broughton, T. Gary	Control and Safety Analysis Manager, GPU Service Corporation
Brown, Nelson	Administrator, Nuclear Technical Training, Met-Ed
Brummer, John	Plant Instrumentation Engineer, Met-Ed
Carlton, James	Manager, Power Systems and Controls Unit, B&W
Cartin, Lucius	Senior Engineer, Plant Integration Unit, B&W
Charnoff, Gerald	Legal Counsel for the Atomic Industrial Forum
Chwastyk, Joseph	Shift Supervisor, Met-Ed
Davis, Ronald	Manager, Control and Performance Analysis Unit, B&W
Dominguez, Andre	Power Production Engineer, Pennsylvania Power & Light Co.
Derivan, Michael	Senior Reactor Operator, Davis-Besse, Toledo Edison Co.
Dunn, Bert	Manager, Emergency Core Cooling Systems Analysis Unit, B&W
Elliott, Norman	Manager, Training Services, B&W
Fahland, Frank	R&D Manager, Research and Development Section, B&W
Faist, Fred	Resident Engineer, TMI-1, B&W
Faust, Craig	Control Room Operator, Met-Ed
Favret, Louis	Vice President, Power Generation Group, B&W
Fels, William	Nuclear Engineer, Met-Ed/GPU Service Corporation
Floyd, James	Supervisor of Operations, TMI-2, Met-Ed
Frederick, Edward	Shift Foreman, Met-Ed
Garrison, Jack	Shift Foreman, Met-Ed
Glickman, Frederick	Vice President and Director of Materials Management, GPU Service Corporation
Goslow, Calvin	Service Engineer, Plant Performance Services Section, B&W
Haimowitz, Milton	Manager of Contracts, Construction, GPU Service Corporation
Hallman, Donald	Manager, Plant Performance Services Section, B&W
Harbin, Ronald	Technical Analyst, Met-Ed
Hartman, Harold	Control Room Operator, Met-Ed
Herbein, John	Vice President, Generation, Met-Ed
Hickey, James	Training Coordinator, Toledo Edison Co.
Holderness, James	Manager, Analysis Section, EDS Nuclear
Illjes, Theodore	Control Room Operator, Met-Ed
Jones, Robert	Supervisory Engineer, Emergency Core Cooling Unit, B&W
Kane, Edward	Manager, Operating Plant Licensing, B&W
Karrasch, Bruce	Manager of Plant Integration Unit, B&W
Keaten, Robert	Manager, Systems Engineering, GPU Service Corporation
Kelly, Joseph Jr.	Engineer, Plant Design Section, B&W
Kennedy, Robert	Senior Engineer, B&W

Table 3 (Continued)

Name	Position, Organization in March 1979 as reflected in the lawsuit record
Kosiba, Richard Kunder, George LaBelle, Daniel Lahey, Richard Lanese, Louis	Manager, Customer Services Department, B&W Superintendent Technical Support TMI-2, Met-Ed Manager, Safety Analysis Unit, B&W Chairman, Department of Nuclear Engineering, RPI Control & Safety Analysis Engineer, GPU Service Corporation
Lind, John Long, Robert MacMillan, John Marzec, Richard	Lead Instructor, B&W Training Center Manager, Generation Productivity, GPU Service Corporation Vice President, Nuclear Power Generation Division, B&W Manager, Technical Training, Steam Production Department, Duke Power Company
Mazella, John McBride, Arthur	Contracts Manager, Met-Ed Supervisory Engineer, C&I/Fluid Systems Integration Group, B&W
McDaniel, George	Contract Specialist, Nuclear Power Generation Division, B&W
Mehler, Brian Mestres, Richard Jr. Michelson, Carlyle	Shift Supervisor, Met-Ed Attorney, Sullivan & Cromwell, Counsel for B&W Principal Nuclear Engineer, Tennessee Valley Authority (Consultant, Advisory Committee on Reactor Safeguards, NRC)
Miller, Adam Miller, Gary Murray, Terry Noll, Richard O'Hanlon, James	Shift Foreman, Met-Ed Station Manager, TMI, Met-Ed Station Superintendent, Davis-Besse, Toledo Edison Co. Engineer, Generation Engineering Department, Met-Ed General Manager, Arkansas Nuclear One, Arkansas Power & Light Co.
Perrone, Paul Phinney, James Pittman, Roger	Technical Consultant to Manager of Engineering, B&W Manager, Operating Plant Services, B&W Manager, Mechanical Equipment and Fluid Systems Section, B&W
Potts, William Rodriquez, Ronald	Superintendent, Technical Support TMI-1, Met-Ed Manager, Nuclear Operations, Rancho Seco, Sacramento Municipal Utility District
Rogers, Leland Ross, Michael Roy, Donald Scheimann, Frederick Scott, Thomas Jr. Seelinger, James Shetler, James Shovlin, Daniel Sieglitz, Richard Swanson, Eric	Site Operations Manager TMI-2, B&W Supervisor of Operations TMI-1, Met-Ed Manager, Plant Design Section, B&W Shift Foreman, Met-Ed Resident Engineer, Arkansas Nuclear One, B&W Superintendent TMI-1, Met-Ed Site Manager, Crystal River Unit 3, B&W Superintendent, Station Maintenance TMI, Met-Ed Supervisor of Maintenance TMI-2 Met-Ed Senior Supervisory Engineer, Plant Integration Section, B&W
Taylor, James Toole, Ronald	Manager of Licensing, B&W Superintendent, Homer City Station, Pennsylvania Electric

Table 3 (Continued)

Name	Position, Organization in March 1979 as reflected in the lawsuit record
Wallace, Edward	Licensing Manager, GPU Service Corporation
Wallis, Graham	Professor of Engineering, Dartmouth
Walters, James	Supervisory Engineer, Plant Performance Service Section, B&W
Wandling, George	Test Planning and Plant Startup Task Engineer, B&W
Ward, Edwin	Senior Project Manager TMI-2, B&W
Weaver, Douglas	Lead Foreman, Instrumentation & Control, TMI-2, Met-Ed
Williams, Ronald	Senior Consultant, GPU Service Corporation
Wilson, John	Assistant Staff Counsel, Met-Ed
Womack, Edgar Jr.	Manager, Plant Design Section, B&W
Zechman, Richard	Supervisor of Training, Met-Ed
Zewe, William	Shift Supervisor, Met-Ed



## CATEGORY 1 - OPERATOR TRAINING

### 1.0 Introduction

Category 1 compares the operator training aspects of the TMI-1 restart process with the GPU v. B&W lawsuit documents. The hearing items or restart issues associated with Category 1 consist of 29 certification items and two long-term actions. A complete listing of the restart issues for Category 1 may be found in Appendix A1. The lawsuit documents that were screened into Category 1 for technical review and evaluation consist of the following: trial testimony - 35 documents, depositions - 115 documents, and exhibits - 363 documents. A complete listing of the documents screened into Category 1 may be found in Appendix B1. Where several certification items and/or long-term actions are related and deal with the same safety issue, the items and actions were collectively grouped and discussed under one heading. Sixteen section headings were selected to address the 29 certification items and 2 long-term actions. These are identified as Sections 1.1 through 1.16 of this chapter. Because of the volume of material screened into this category, it was necessary to perform an audit type of review (as compared to a 100% review) of the documents screened into this category. The audit review was designed to ensure that a representative sample of documents would be reviewed and still allow the project completion date to be met. The audit review required, as a minimum, that the following documents be reviewed: (1) trial testimony and depositions of personnel still within the GPU organization, (2) lawsuit documents cited by the intervenors as being significant in their review of the lawsuit record, and (3) a minimum of 25% of the total number of documents screened into the category.

Of the 513 documents screened into Category 1, 191 were reviewed (37%). Of these, 32 documents were determined to be irrelevant and 159 documents were found to be relevant but immaterial to the restart issues. In summary, none of the reviewed documents were found to be material to any of the restart issues.

### 1.1 Alignment and Operation of Emergency Feedwater

#### Related Restart Items

Certification items 6, 7, and 16 relate to ensuring the availability of emergency feedwater (EFW) by providing operator training in EFW alignment, special actions when in the surveillance mode, verification of proper EFW operation following demand events, and ensuring EFW operation independent of the integrated control system (ICS).

#### Review of Relevant Lawsuit Documents

Of the lawsuit documents reviewed, nine were found to be relevant to this subject area because they contained information regarding operator actions involving EFW and/or the ICS, EFW alignment verification, and training materials related to EFW/ICS operation or loss of feedwater. One document addressed the

findings of the sub-task force investigating the events that lead up to the unavailability of the EFW system during the TMI-2 accident. These nine documents are identified by section reference 1.1 in the right-hand margin of Appendix B1. None of the documents were judged to be material to certification items 6, 7, or 16 because (1) the information contained in these documents was known to the staff before review of the lawsuit documents, (2) they did not address any issue or deficiency in the training program at TMI-1, or (3) because the deficiencies that were identified have since been corrected. For example, although the testimony fails to establish how or why both trains of EFW became unavailable on or before March 28, 1979, the licensee has implemented procedures and training to address this problem. In addition, operators have been trained in the manual operation of EFW, i.e., independent of the integrated control system (ICS) (NUREG-0680). Therefore, none of these documents contain new information that would affect the staff's conclusions or bases for these certification items.

## 1.2 Operator Retraining

### Related Restart Items

Certification items 18, 53, and 99 and long-term action I.C.1 of NUREG-0737 relate to the requirement for the retraining of operating personnel, primarily reactor operators and senior reactor operators. This requirement for retraining specifically included the areas of natural circulation, small-break loss-of-coolant accident (SBLOCA), revised operating procedures, the TMI-2 accident itself, and revised training at the B&W simulator. Examinations of all licensed operators, to be administered by the licensee and the NRC, also were required.

### Review of Relevant Lawsuit Documents

One hundred eight documents were found to be relevant to operator retraining, either because they described training received by individuals or because they discussed specific content of training programs or training programs in general. These 107 documents are identified by section reference 1.2 in the right-hand margin of Appendix B1. The documents reviewed addressed a large number of specific areas, mostly relating to the deficiencies which existed in training of operators before the accident. These areas include: failure of operators to recognize the symptoms of an SBLOCA and the symptoms of inadequate core cooling; lack of understanding of natural circulation in a B&W-designed plant; inadequacies in simulator training; training improvements proposed by GPU after the accident; ensuring that all licensed operators understand the details of the TMI-2 accident (including operator errors and transient response of the plant); overemphasis on obtaining operator licenses at the expense of understanding the fundamentals of plant operations; too little emphasis on multiple failures; and too much emphasis on the need to avoid solid plant conditions.

Of the documents found to be relevant, none were found to be material. A number of investigations were conducted following the accident that disclosed significant deficiencies in the TMI-2 operator training and requalification training program. While the staff, in its subsequent evaluations of operator training, was not aware of all the specific information contained in the lawsuit documents, the information presented in those documents is either examples of programmatic training program problems or examples of implementation problems at or before the time of the accident similar to those known by the staff at

the time of its postaccident evaluation. One programmatic problem discussed in a number of documents, for example, was the lack of required instruction in the fundamental principles of thermodynamics, behavior of saturated fluid systems, and heat transfer. Also, the TMI-2 Training Program failed to provide for feedback of abnormal events experienced by the nuclear industry. Implementation problems discussed in the documents included (1) the apparent GPU management unresponsiveness to internal requests for additional staffing in the station training department and (2) the fact that low classroom operator requalification training attendance required preparation of "take-home" independent study packages, placing even more burden on an already understaffed training staff. A number of Commission orders and IE Bulletins which directed, among other things, improvements in operator training were issued to the licensee following the accident. In response to these orders and bulletins, the licensee established an Operator Accelerated Retraining Program (OARP) to augment the retraining of all TMI-1 reactor operators (ROs) and senior reactor operators (SROs) (NUREG-0680). The licensee has substantially augmented the Training Department and headed it with a professional educator who has a background in nuclear engineering. This OARP effort has addressed all major concerns identified by the staff and those concerns presented in the trial documents. The ASLB concluded, on the basis of reviews by the staff and by independent consultants, that the licensee's training is adequate and complies with the Commission's August 9, 1979 and March 6, 1980 Orders (Partial Initial Decision (PID) dated August 27, 1981, at 159).

The subject areas addressed by the trial documents that pertained to these certification items were wide and diverse. However, the information contained in these documents is not material and does not change the conclusions or bases, regarding the effectiveness of the licensee's current operator training program, for these certification items. Sections 10.3 and 10.5 of this report address the management integrity implications of several instances of possible failures to adequately implement the TMI-2 training program and failure to notify the NRC in cases of non-compliance.

### 1.3 Natural Circulation

#### Related Restart Item

Certification item 30 relates to the requirement that operators better understand the phenomenon of natural circulation and that they are trained in the procedures developed after the TMI-2 accident for establishing and maintaining natural circulation.

#### Review of Relevant Lawsuit Documents

Ten lawsuit documents were found to be relevant to natural circulation because they addressed the operators' lack of understanding of how to establish and maintain natural circulation both before and during the accident. These documents are identified by section reference 1.3 in the right-hand margin of Appendix B1. The trial documents dealt with the general subject areas of natural circulation, reactor coolant system saturation, subcooling margin, and the thermodynamic behavior of the primary system.

Of the 10 documents found relevant to this certification item, none were found to be material. The information contained in the documents was known to the staff and was considered in the evaluation and review of this subject area. The ASLB PID of August 1981 (at 110) states that the licensee will augment the retraining of all ROs and SROs assigned to the control room, including training in the areas of natural circulation. On page 107 of the same document, the ASLB notes that GPU has added specific technical material to its RO training and requalification programs. Candidate ROs and licensed operators now receive specific training in heat transfer, fluid flow, and thermodynamics and topical training in reactor and overall plant transients. On page C2-10 of the TMI-1 restart evaluation (NUREG-0680), the staff states that one of the main objectives of the OARP is to provide operators with an indepth understanding of the methods required to establish and maintain natural circulation flow through classroom training lectures, simulator training sessions, and review of natural circulation procedures.

The information contained in these lawsuit documents does not change the conclusions or bases, regarding the effectiveness of the licensee's proposed operator training program, for this certification item.

#### 1.4 Operator Actions

##### Related Restart Items

Certification items 28, 33, and 37 relate to the training of operators regarding specific errors during the accident, including simultaneous blocking of both EFW trains, and actions to be taken under certain conditions, including manual reactor trips on high pressure transients and tripping of reactor coolant pumps following initiation of high pressure injection (HPI).

##### Review of Relevant Lawsuit Documents

Forty-three of the lawsuit documents reviewed were judged to be relevant because they contained discussions and descriptions of operator actions taken before and during the accident at TMI-2 or because they pertained to training materials and simulator programs in use before the accident. The subjects addressed in these documents included: the appropriate conditions for termination or reduction of HPI flow, procedures for termination of HPI, premature termination of HPI at Davis-Besse, operation of the EFW system, actions and decision processes involved in tripping the reactor coolant pumps (RCPs) during the accident at TMI-2, management attitude toward training at TMI, the timing and circumstances surrounding the TMI-2 operators' discovery that auxiliary feedwater had been blocked during the accident, information and instructions given to operators by GPU or B&W concerning incidents such as the transient at Davis-Besse, and a misinterpretation of procedures because they were not written clearly. These 43 documents are identified by section reference 1.4 in the right-hand margin of Appendix B1. Most of the training deficiencies described in these documents pertain only to the time period before the accident and do not discuss post-accident training to correct the specific errors made during the accident. However, this training has been conducted. For example, as a result of certification item 28, the licensee has trained operating and maintenance personnel at TMI-1 in the seriousness of simultaneously blocking both trains of auxiliary



feedwater. In addition, B&W issued revised operating instructions for HPI to avoid the problem of premature termination of HPI (GPU 85). Training required by IE Bulletin 79-05B concerning manual reactor trips and IE Bulletin 79-05C concerning RCP trips is complete. The licensee has implemented a program for feedback of operational experiences that should alleviate problems such as the TMI operators' lack of knowledge about the Davis-Besse incident (NUREG-0680, p. C6-5, June 1980). The issue of misinterpretation of procedures was known to the staff and has been addressed by both short-term and long-term revisions to procedures.

None of these documents were found to be material because either they did not contain any new information or they describe problems that have been corrected. Therefore, the staff's conclusions and the bases for these certification items remain unaltered.

### 1.5 Guidelines for Distinguishing LOCA from non-LOCA Transients

#### Related Restart Items

Certification items 39 and 40 relate to the topic area of distinguishing LOCA from non-LOCA transients. These certification items require the development of guidelines, emergency procedures, and training regarding operator actions for LOCA and non-LOCA transients.

#### Review of Relevant Lawsuit Documents

Twenty-one of the documents reviewed were judged to be relevant to this topic area of distinguishing LOCA from non-LOCA transients. The subjects addressed in these documents included the diagnostic decision-making process during the accident at TMI-2, the relevance of certain symptoms to the TMI-2 scenario (especially pressurizer level, radiation monitoring alerts and alarms, sump level, exceeding saturation margins, and reactor building pressure), the distinguishing characteristics of LOCA versus steam line break, criteria for shutting off reactor coolant pumps and for throttling high pressure injection, and the use of key plant parameters for monitoring plant behavior. Several documents contained discussions about postaccident B&W efforts for developing SBLOCA procedures and training, development of the program for Abnormal Transient Operator Guidelines (ATOG), and actual guidelines developed for response to SBLOCAs. These documents are identified by section reference 1.5 in the right-hand column of Appendix B1.

The reviewed documents were judged to be immaterial because they generally identified deficiencies that existed at TMI-2 before or at the time of the accident. The licensee has revised procedures and training to specify correct operator actions for proper diagnosis and/or mitigating action for these events. In the longer term, GPU in conjunction with the B&W Owners' Group developed the Anticipated Transient Operating Guidelines (ATOG) Program. This program is designed to provide symptom-oriented procedures rather than accident/transient-specific procedures. This program, when implemented at the plant, should provide additional assurance that operator actions for these events will be correct. Since the documents reviewed provided no new information, they were judged not to be material. The staff's conclusion and bases in NUREG-0680 are unaltered for these issues.



## 1.6 Inadequate Core Cooling

### Related Restart Items

Certification items 41 and 76 address analysis, procedures, and training to be done to ensure prompt recognition of, and proper response to, low reactor coolant inventory and inadequate core cooling using existing reactor instrumentation or short-term modifications to existing instrumentation.

### Review of Relevant Lawsuit Documents

Thirty-five of the lawsuit documents reviewed were found to be relevant because they contain information regarding operator experience and training in recognizing the symptoms of low coolant inventory and saturation conditions, general discussions of the concepts of thermodynamics, core subcooling and decay heat removal, plant behavior under depressurized or saturation conditions, and operator decision processes during the TMI-2 accident. These documents also contain specific discussions of various symptoms manifested during the accident, especially rising pressurizer level with concurrent low pressure and criteria for terminating high pressure injection (HPI). These documents are identified by section reference 1.6 in the right-hand margin of Appendix B1. The information contained in the documents was known by the staff and was considered in the various reviews pertaining to this subject area. For instance, several documents discuss the fact that the operators failed to recognize the significance of rising pressurizer level concurrent with low reactor coolant system pressure. This information was previously known by the staff. In NUREG-0680 (at C6-6) the staff stated that one of the major objectives of OARP is assurance that the operator can recognize and respond to conditions of inadequate core cooling. In addition, the ASLB PID dated August 27, 1981 (at 111), states that the objectives of OARP were (1) to improve operator performance during SBLOCA, (2) to ensure capability of operators to recognize and respond to situations involving inadequate core cooling, (3) to ensure that operators understand the manometer effects of water levels in the reactor coolant system under different pressure and temperature conditions, (4) to ensure operators are knowledgeable of both short- and long-term plant system modifications, and (5) to provide specialized training on operations and procedural requirements. The staff and ASLB concluded that OARP was properly executed. Since the trial documents contain information already known to the staff and considered in the restart hearing, the documents were judged not to be material. Therefore, the staff's conclusions and bases for these certification items remain unaltered.

## 1.7 Supervisory and Technical Capability

### Related Restart Items

Certification items 66 and 88 and long-term action I.A.1.1 of NUREG-0737 relate to the postaccident requirements for assessing management and technical capability of the training staff and the procedural requirements dealing with responsibilities and authority of the Shift Supervisor. Included in certification item 66 was assessment of the Training Manual. Long-term action I.A.1.1 is the requirement to have a Shift Technical Advisor (STA) on shift at all times.

## Review of Relevant Lawsuit Documents

Thirty-five of the lawsuit documents reviewed were found to be relevant to the issue of supervisory and technical capability, because they described either the training or procedures dealing with duties and actions of the Shift Supervisor or the technical knowledge of management people. These documents are identified by section reference 1.7 in the right-hand margin of Appendix B1. The documents dealt with the general subject areas of technical capability of shift supervisors (e.g., knowledge of the thermodynamic behavior of the primary system), actions of the Shift Supervisor during the accident, and management practices and attitudes towards training. The documents also addressed requalification training in general and the requalification of certain individuals, including some supervisory staff. Among the issues raised concerning requalification training were the low classroom attendance, regulatory requirements for requalification, the issue of a certain supervisor studying for requalification at the expense of his duties as Training Supervisor, certification for requalification of a certain person in light of alleged cheating, and possible inadequacies in meeting on-the-job training requirements. Two documents contained outdated (1977, 1979) requalification program descriptions.

Of the 35 documents found relevant to certification items 66 and 88 and long-term action I.A.1.1, none were found to be material. The information contained in the documents was generally known to the staff and considered in the evaluation and review of this topic area. For example, the staff was aware, before production of the trial documents, that the TMI-2 Training Supervisor was pursuing SRO qualifications on a near-full-time basis, concurrent with his normal supervisory duties, at the time of the accident. Page 10 of NUREG-0680, Supplement 1, describes the reorganized training organization and the ASLB (PID of August 27, 1981 at 159) concluded that the licensee has substantially augmented the Training Department and headed it with professional educators who have backgrounds in nuclear engineering. The licensee has revised the requalification training program, and this revised program has been approved by the NRC (letter from P. Collins to H. D. Hukill, dated July 7, 1981). The issues of low classroom attendance and training conflicts with regular duties should be adequately resolved by the licensee's use of a six-shift rotation that allows one shift a week to be dedicated to training (see discussions in ASLB PID of August 27, 1981, at 189 and NUREG-0680, Supplement 1, Section III.B.3.b, November 1980). The trial documents do not affect the staff conclusions that the licensee will comply with the requirement for an STA (long-term action I.A.1.1) as discussed on page C8-54 of the TMI-1 restart SER (NUREG-0680). Therefore, for the reasons stated above, the documents were judged not to be material. The information in these documents does not change the conclusions or bases for these restart issues.

Integrity issues raised by training program implementation irregularities and the cheating incident are more fully discussed in Sections 10.3 and 10.5 of this report, respectively.

### 1.8 Mitigation of Core Damage

#### Related Restart Items

Certification items 69 and 70 relate to operator training in the mitigation of core damage.

## Review of Lawsuit Documents

Fifteen lawsuit documents reviewed were judged to be relevant to the mitigation of core damage because they contained discussions of training regarding the avoidance and mitigation of conditions that may lead to core damage. Documents relevant to the mitigation of core damage are identified by section reference 1.8 in the right-hand margin of Appendix B1. The documents dealt with the general subject areas of significance of safety limits, HPI operation, the concept of departure from nucleate boiling (DNB), natural circulation, detection of core uncovering, lack of training in multiple failures, and recognizing boiling in the primary system.

The information contained in the documents was generally known to the staff and considered in the evaluation and review of this topic area. On page C8-49 of NUREG-0680, the staff stated that (1) it had reviewed the operator training material on inadequate core cooling presented as part of the OARP, (2) training on the causes of, recognition of, and response to inadequate core cooling has been conducted, and (3) it finds that the operator training requirements of this item have been satisfied. In addition, the ASLB in its PID of August 27, 1981 (at 107), found that the licensee has added specific technical material to the training programs in the areas of heat transfer, fluid flow, thermodynamics, and the use of installed plant systems to control or mitigate an accident in which the core is severely damaged. Because there was no new information contained in these documents they were judged not to be material. Therefore, the staff conclusions and the bases for these certification items remain unaltered.

### 1.9 Operator Aids

#### Related Restart Items

Certification items 101 and 112 relate to the requirement that the licensee demonstrate that a cathode-ray tube (CRT) part-task simulator, which displays reactor coolant system temperature and pressure, is available and that the operators do not rely solely on information from the plant computer for making operational decisions.

#### Review of Relevant Lawsuit Documents

Five of the lawsuit documents reviewed were judged to be relevant to the issues of operator aids because they addressed the reliability of and ease of obtaining pertinent information in diagnosing transients. One document contained descriptions of how and when operators gathered data from the plant computer during the accident at TMI-2 and the previous training that operators had regarding computerized data access. These five documents are identified by section reference 1.9 in the right-hand column of Appendix B1. The trial documents dealt with the following general subject areas: simulator training, use of process computer information, saturation as a symptom of a LOCA, and training in the fundamentals of thermodynamics.

Of the five documents found relevant to these certification items, none were found to be material. The information contained in these documents was previously known and considered in the staff's review of the licensee's compliance with the CRT simulator requirement. The ASLB PID of August 27, 1981 (at 107), states that the licensee has developed a transient analysis method that plots

primary and secondary system pressures and temperatures and compares the multiple routes for various normal and abnormal conditions in the reactor. These computer plots aid the operators in identifying significant transient events by observing the values and trends of key parameters. The document further states that the licensee has under development a computer-assisted instructional program using the transient analysis method, which will become part of the overall simulator training program. The trial documents contain no new information that would affect the staff's conclusions or bases for these certification items.

### 1.10 Emergency Capability

#### Related Restart Items

Certification items 104, 133, and 137 relate to a number of very limited requirements in the overall subject area of emergency preparedness training.

#### Review of Relevant Lawsuit Documents

Three of the lawsuit documents reviewed were found to be relevant to emergency capability because the information contained dealt with training of health physics, offsite emergency, and senior management personnel. The trial documents dealt with the following general subject areas: offsite emergency planning and training, timeliness of emergency declaration, emergency plan adequacy, identification of offsite doses, and information flow. These three documents are identified by section reference 1.10 in the right-hand margin of Appendix B1. These documents were found to be immaterial and contain no new information pertinent to this subject area. Since the accident (1) the licensee has completely revised the emergency plan to comply with NUREG-0654, Revision 1, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants," (2) the staff has evaluated the revised plan (documented in NUREG-0746, "Emergency Preparedness Evaluation for TMI-1," and Supplement 1), and (3) the ASLB addressed the revised plan in the PID of December 14, 1981. Therefore, the information in the trial documents does not change the conclusions or bases for these certification items.

### 1.11 B&W Simulator

#### Related Restart Items

Certification item 100 relates to the topic area of the B&W simulator. This certification item requires that all TMI-1 operators, who have not previously held NRC licenses, take an NRC-administered examination at the B&W simulator before restart of TMI-1.

#### Review of Relevant Lawsuit Documents

Twenty-eight of the lawsuit documents reviewed were judged to be relevant to the topic of the B&W simulator. These documents are identified by section reference 1.11 in the right-hand margin of Appendix B1. The documents address various issues such as lack of capability to portray solid pressurizer operations at the B&W simulator before the accident at TMI, limitations of the simulator which prevented simulation of the Davis-Besse transient (i.e., inability



to simulate two-phase flow, saturation conditions in the core, and rising pressurizer level as a result of "flashing" in the primary system), adequacy of simulator procedures for training, and consistency of simulator procedures with TMI-2 procedures. Some of these documents were directed at very specific information such as the exact wording of specific simulator procedures, the number and kinds of evolutions performed by certain personnel, and the specific recollections of operators regarding what they were told by B&W instructors concerning solid pressurizer operations, criteria for the throttling or termination of high pressure injection, and the reliability and validity of pressurizer level as an indicator of reactor coolant system inventory. Three documents addressed the feasibility of cutting back the amount of simulator training in 1976.

These documents were deemed not to be material to certification item 100 because they generally address deficiencies that existed in the past, but which now have been corrected. For example, the most salient issue concerning the examination of operators on the B&W simulator is the issue of the simulator's capabilities to correctly portray transients. GPU exhibit 53 (N.S. Elliott paper presented on March 9, 1980, pp. 1-5) describes B&W changes in their training program and simulator, including an emphasis on basic fundamentals of operations and reprogramming of the simulator to allow portrayal of multiple failures and SBLOCA behavior. These changes in both the B&W training program and in the simulator capabilities resolve past deficiencies. The deficiencies identified in these documents, therefore, do not affect the efficacy of this certification item and do not change staff conclusions regarding restart. The three documents containing discussions on cutbacks in simulator training are moot because cutbacks were never made, nor are any apparently planned. For these reasons, the staff found these 28 documents not to be material.

### 1.12 Low-Power Testing

#### Related Restart Items

Certification item 126 addresses training related to low-power testing.

#### Review of Relevant Lawsuit Documents

Three of the lawsuit documents reviewed were judged to be relevant to training during low-power testing. These documents contained discussions on training during startup and low-power testing before the accident at TMI-2. Specific topics included the incorporation of low-power test data into the training program and the use of low-power test mode for on-the-job training. These three documents are identified by section reference 1.12 in the right-hand margin of Appendix B1. The three documents did not contain new information that would affect staff conclusions or the bases for this certification item; therefore, they were judged to be immaterial.

### 1.13 Briefing of Major Employers

#### Related Restart Items

Certification item 142 deals with the requirement for briefings of major employers.



### Review of Relevant Lawsuit Documents

Of the lawsuit documents reviewed, none were found to be relevant to these briefings.

#### 1.14 Operator Certification

##### Related Restart Item

Certification item 146 relates to staff's concern that candidates for an operator license or renewal have completed the necessary training requirement and are qualified for certification as verified by plant training personnel.

### Review of Relevant Lawsuit Documents

Sixteen of the lawsuit documents reviewed were judged to be relevant because they addressed the procedures that were used to recommend candidates for certification. These documents dealt with the following subject areas: poor classroom attendance; late makeup material; cheating; need for a six-shift rotation; cutback in simulator training; lack of training in natural circulation, solid system operation, multiple failures, and basic principles of system behavior; the issues of cross-licensing, on-the-job training (OJT) program, and the use of "Horse" or answer key books; and requalification training (in general). These documents are identified by section reference 1.14 in the right-hand margin of Appendix B1. Although these documents did demonstrate the lack of any supervision of attendance or training curriculum, the situation that is portrayed represents preaccident and not present conditions. Operator certification, by means of a signed statement from training personnel, is required on NRC Form 398 for all new and renewal license applications. No new information is presented which would require alteration of this certification item or change the staff's previous conclusions concerning restart of TMI-1. Therefore, the documents reviewed are judged to be immaterial to these certification items.

Although documents that raise management integrity issues were identified during the review, the discussion of that aspect of those documents is contained in Sections 10.3 and 10.5 of this report.

#### 1.15 Qualifications for Instructors

##### Related Restart Item

Certification item 147 relates to the establishment of criteria by the licensee, which should be used for determining the qualifications necessary to be an instructor in the TMI-1 training program.

### Review of Relevant Lawsuit Documents

Seven of the lawsuit documents reviewed were judged to be relevant because they addressed the failure of the licensee to be discriminate in the qualifications of his instructors. These documents are identified by section reference number 1.15 in the right-hand margin of Appendix B1. The trial documents dealt with

the following general subject areas: the number and quality of Metropolitan-Edison instructors, management's position that the training supervisor need not have knowledge of basic skills and understanding of plant operation, attendance at training sessions, six-shift versus five-shift rotation, and five ways to improve the B&W training program.

The information contained in these documents was considered not to be material. Although the staff was not aware of all of the specific information contained in the lawsuit documents at the time of the review and evaluation of this issue, the information presented points out the issue of instructors' qualifications before the TMI-2 accident. The ASLB (see PID of July 27, 1982, at 147) requires the licensee to establish criteria for the qualifications of instructors. The staff has reviewed the licensee's proposed criteria and concluded that these criteria are acceptable (J. Stolz, NRC letter to H. Hukill, GPU, dated July 28, 1983). Therefore, the information in these documents does not change the conclusions or bases for these certification items.

#### 1.16 Startup Test Program

##### Related Restart Item

Certification item 151 relates to the provision of additional operator training as part of the startup test program.

##### Review of Relevant Lawsuit Documents

Two of the lawsuit documents reviewed were judged to be relevant to additional training during startup testing. These documents contained discussions relating to the incorporation of startup test data into the training program. These documents are identified by section reference 1.16 in the right-hand margin of Appendix B1. The staff has required, in NUREG-0694, Item I.G.I, that the licensee commit to a special testing and training program to be conducted at power levels not to exceed 5%. This item will be implemented by license condition. These documents were judged not to be material to certification item 151. There is no information presented that would require alteration of this certification item or change the staff's previous conclusions concerning restart.

## CATEGORY 2 - PROCEDURES

### 2.0 Introduction

Category 2 compares the procedure issues of the TMI-1 restart process with the GPU v. B&W lawsuit documents. The restart issues associated with Category 2 consist of 36 certification items and 3 long-term actions. A complete listing of the restart issues for Category 2 may be found in Appendix A2. The lawsuit documents that were screened into Category 2 for technical review and evaluation consist of the following: trial testimony - 41 documents, depositions - 109 documents, and exhibits - 313 documents. A complete listing of the documents screened into Category 2 may be found in Appendix B2. Where several certification items and/or long-term actions are related and deal with the same safety issue, the items and actions were collectively grouped and discussed under one heading. Ten section headings were selected to address the 36 certification items and 3 long-term actions and these are identified as Sections 2.1 through 2.10 in this chapter. Because of the volume of material screened into Category 2, it was necessary to perform an audit type of review (as compared with a 100% review) of the documents screened into this category. The audit review was designed to ensure that a representative sample of documents would be reviewed and that the project completion date would be met. The audit review required, as a minimum, that the following documents be reviewed: (1) trial testimony and depositions of personnel still within the GPU organization, (2) lawsuit documents cited by the intervenors as being significant in their review of the lawsuit record, and (3) a minimum of 25% of the total number of documents screened into the category.

Of the 463 documents screened into Category 2, 163 documents were reviewed (35%). Of the 163 reviewed documents, 19 documents were found to be irrelevant, and 144 documents were found to be relevant but immaterial to the restart issues. In summary, none of the reviewed documents were found to be material to the restart issues.

### 2.1 Emergency Feedwater System Procedures

#### Related Restart Items

Certification items 6, 7, 11, 16, 24, 25, and 27 relate to the requirement to provide procedures for the emergency feedwater (EFW) system.

#### Review of Relevant Lawsuit Documents

Five of the lawsuit documents reviewed were found to be relevant because they describe EFW system procedures, including procedures covering EFW availability, alignment, initiation, control, or operability. These five documents are identified by section reference 2.1 in the right-hand margin of Appendix B2. None of these documents were found to be material because they contained information that was previously reviewed by the staff as part of the TMI restart evaluation.

For example, R. W. Zechman's deposition of March 24, 1982, describes procedures associated with loss of reactor coolant and reactor coolant system pressure and emergency feedwater procedures. These were the procedures that were in effect before the TMI-2 accident. As stated in NUREG-0680, emergency operating procedures have been upgraded on the basis of emergency guidelines. These documents, therefore, do not change the conclusions or bases of these certification items.

## 2.2 Reactor Coolant Pump Trip Procedures

### Related Restart Items

Certification items 37 and 39 relate to the requirement to provide procedures and guidelines for tripping the reactor coolant pumps (RCPs).

### Review of Relevant Lawsuit Documents

Eleven of the lawsuit documents reviewed were found to be relevant because they discuss operator action and procedures concerning RCP trips or because they made recommendations as to when the RCPs should be tripped. These 11 documents are identified by section reference 2.2 in the right-hand margin of Appendix B2. These documents were found not to be material because they contain information previously reviewed by the staff. For example, GPU 436 describes the B&W recommendations for tripping RCPs, and GPU 437 discusses considerations associated with automatic RCP trips. As described in Supplement 2 of NUREG-0680, the staff has reviewed 42 TMI-1 procedures, including loss of reactor coolant pump flow/reactor coolant pump trip, and concluded on the basis of the review that the upgraded procedures dealing with RCP trips are acceptable. The information contained in the above-cited exhibits or in the other eight documents that describe RCP trip procedures does not change the conclusions or bases of these certification items.

## 2.3 Reactor Trip Procedures

### Related Restart Items

Certification items 33 and 40 relate to the requirement to provide procedures and guidelines for manual reactor trip for transients resulting in pressure increases.

### Review of Relevant Lawsuit Documents

Three of the lawsuit documents reviewed were found to be relevant because they describe procedures and operator actions in regard to manual reactor trips. These three documents are identified by section reference 2.3 in the right-hand margin of Appendix B2. These documents were found not to be material because they contained information previously reviewed by the staff as part of the TMI-1 restart evaluation (NUREG-0680) and IE Bulletins 79-05B and 79-05C. For example, F. J. Scheimann's deposition of April 1, 1982, describes procedures associated with turbine trip and reactor trip. These were the procedures that were in effect before the TMI-2 accident. The three documents contained information that was previously reviewed by the staff as part of the TMI-1 restart evaluation. As stated in NUREG-0680, Supplement 2, the staff found that the



licensee is making acceptable provisions for procedure review and revision and operator notification of procedure revision. Therefore, these three documents do not change the conclusions or bases of these certification items.

## 2.4 Inadequate Core Cooling Procedures

### Related Restart Items

Certification items 41 and 76 and long-term action II.F.2 of NUREG-0737 relate to the requirement to provide guidelines, procedures, and instrumentation for inadequate core cooling.

### Review of Relevant Lawsuit Documents

Eleven of the lawsuit documents reviewed were found to be relevant because they discuss procedures, training, or instrumentation used by the operators to detect inadequate core cooling. These 11 documents are identified by section reference 2.4 in the right-hand margin of Appendix B2. These documents were found not to be material because they contained information that was previously reviewed by the staff as part of the TMI-1 restart evaluation, NUREG-0752 ("Control Room Design Review Report For TMI-1"), NUREG-0694, and IE Bulletin 79-05C. For example, W. H. Zewe's depositions of May 26, 1982, and May 27, 1982, describe how the procedures that existed at the time of the TMI-2 accident, in his opinion, led to inadequate core cooling. The content of these procedures had already been reviewed by the staff, and, as described in NUREG-0680 and its supplements, have been upgraded and are currently considered adequate by the staff. Therefore, these 11 documents do not change the conclusions or bases of these restart items.

## 2.5 Procedures For Transients and Accidents

### Related Restart Items

Certification items 17, 21, 22, 108, and 124 and long-term action I.C.1 of NUREG-0737 relate to the requirement to provide procedures for handling transients and accidents.

### Review of Relevant Lawsuit Documents

One hundred thirty-eight of the lawsuit documents reviewed were found to be relevant because they discuss analyses for small-break loss-of-coolant accidents, Abnormal Transient Operating Guidelines (ATOG), vendor review of emergency operating procedures, and emergency operating procedures in general. These 138 documents are identified by section reference 2.5 in the right-hand margin of Appendix B2. These documents were found not to be material because the staff had been aware of the issues raised in these documents before the review of the lawsuit documents was started. Some examples include the January 14, 1982, deposition of J. D. Phinney, which describes the procedures associated with saturated conditions outside the pressurizer. The F. J. Scheimann deposition of February 25, 1982, describes the reactor trip procedure and the normal shutdown, cooldown, and hot standby procedures. This deposition further describes how the procedures were reviewed according to procedure acceptance criteria. J. L. Seelinger's deposition of October 20, 1981, further describes how the procedures that were in effect before the TMI-2 accident, were written,



reviewed, and verified. As described in NUREG-0680, the GPU organization has upgraded the procedures associated with transients and accidents in the operation of TMI-1. The staff has reviewed the upgraded procedures and concluded that they are acceptable. The review of the lawsuit documents has not changed the conclusions or bases of these restart items.

## 2.6 Natural Circulation Procedures

### Related Restart Items

Certification item 30 relates to the requirement to provide procedures for establishing and maintaining natural circulation.

### Review of Relevant Lawsuit Documents

One of the lawsuit documents reviewed (GPU 2405) was found to be relevant because it recommended that information concerning  $\Delta T$ 's across the core and the use of in-core thermocouples should be developed and added to the procedures to enable the operator to determine the presence of natural circulation more readily. This document is identified by section reference 2.6 in the right-hand margin of Appendix B2. This document was found not to be material because it contained information that was previously reviewed by the staff as part of the TMI-1 restart evaluation and IE Bulletin 79-05B. This document, therefore, does not change the conclusions or bases of this certification item.

## 2.7 Facility Procedures

### Related Restart Items

Certification item 54 relates to the requirement to revise facility procedures.

### Review of Relevant Lawsuit Documents

Nine of the lawsuit documents reviewed were found to be relevant because they described data entries into log books and the review and administrative duties of the Plant Operations Review Committee (PORC). These nine documents are identified by section reference 2.7 in the right-hand margin of Appendix B2. These documents were found not to be material because they contained information that was previously reviewed by the staff as part of the TMI-1 restart evaluation, CLI 80-5, IE Bulletins 79-05A through 79-05C, and NUREG-0578. For example, the depositions of C. C. Faust of September 21, 1981, J. G. Herbien of June 2, 1982, and A. J. Dominquez of August 17, 1982, deal with the lack of instructions and training in filling out control room logs and shift test engineering logs. As described in Supplement 1 to NUREG-0680, the staff has reviewed 42 TMI-1 procedures, including document control, and concluded that the upgraded procedures are adequate. The nine documents, therefore, do not change the conclusions or bases of this certification item.

## 2.8 Computer Reliance by Operators

### Related Restart Items

Certification item 112 relates to the requirement to verify that operators do not rely solely on computer information for making operational decisions.

## Review of Relevant Lawsuit Documents

Two of the lawsuit documents reviewed were found to be relevant because they described operator reliance on the computer to determine a subcooling margin and valve position indications. These two documents are identified by section reference 2.8 in the right-hand margin of Appendix B2. These documents were found not to be material because this information was previously considered by the staff. For example, the deposition of J. Kelly, Jr. on May 7, 1981, describes the necessity for the operators to use the process computer for positive position indication of the pressurizer PORV and code safety valves. As indicated in NUREG-0680 and its supplements, postaccident hardware changes have been made to provide the required position indication. Positive position indication is not now determined solely by the process computer. The information described in these two documents had been previously reviewed by the staff and, therefore, does not change the conclusion or bases of this certification item.

### 2.9 Emergency Action Levels

#### Related Restart Items

Certification item 134 relates to the need for emergency action levels to be consistent with NUREG-0654.

## Review of Relevant Lawsuit Documents

Three of the lawsuit documents reviewed were found to be relevant because they described emergency response plans, alerting of State Officials by the plant, and emergency safeguards and communication. These three documents are identified by section reference 2.9 in the right-hand margin of Appendix B2. For example, B&W 854 describes how the plant management concentrated on plant cool-down and on emergency response and communication rather than on assessing total core damage. These documents were found not to be material because they contained information that was previously reviewed by the staff as part of the TMI-1 restart evaluation. These documents, therefore, do not change the conclusions or bases of this certification item.

### 2.10 Miscellaneous Procedures

#### Related Restart Items

Certification items 26, 29, 31, 35, 48, 67, 88, 90, 110, 117, 127, 132, 135, and 150, and long-term action I.A.1.1 of NUREG-0737 could not be grouped into any of the nine sections above; however, they deal with various procedures that provide written instructions that plant personnel are to follow in accomplishing a particular function, such as transferring potentially contaminated liquids (e.g., certification item 26).

These 14 certification items and 1 long-term action are collectively grouped in this section because the reviewed documents were found to be irrelevant to any of the procedural topics addressed by these items. Consequently, there was no information developed as a result of the reviewed lawsuit documents affecting or changing the conclusions or bases of these 14 certification items and 1 long-term action.

## CATEGORY 3 - OPERATING EXPERIENCE

### 3.0 Introduction

Category 3 compares the operating experience issues of the TMI-1 restart process with the GPU v. B&W lawsuit documents. The restart issues associated with Category 3 consist of three certification items. A listing of the restart issues for Category 3 may be found in Appendix A3. The lawsuit documents that were screened into Category 3 for technical review and evaluation consist of the following documents: trial testimony - 42 documents, depositions - 102 documents, and exhibits - 401 documents. A complete listing of the documents screened into Category 3 may be found in Appendix B3. The individual certification issues are addressed in Sections 3.1 through 3.3 of this chapter. Of the 545 documents screened into Category 3, 200 were determined to be irrelevant, and 345 were determined to be relevant. Because the three certification items associated with Category 3 are very precise and narrowly defined issues, none of the documents were found to be material to the restart issues themselves. However, Sections 3.1 and 3.2 refer the reader to Chapter 10 for a more detailed look at some of these documents outside the context of the certification issues.

### 3.1 Accident Understanding

#### Related Restart Items

Certification item 19 relates to item 1 of IE Bulletin 79-05A, "Nuclear Incident at Three Mile Island - Supplement." The bulletin contained a preliminary chronology of the TMI-2 accident. Item 1 of the bulletin required the licensees of B&W reactor facilities to review the chronology of the accident with the intent that an understanding of the sequence of events would prevent a similar occurrence.

#### Review of Relevant Lawsuit Documents

One hundred thirty-five of the lawsuit documents reviewed were found to be relevant either because they described (1) the accident sequence; (2) the operator actions taken during the day of the accident; (3) the flow of information on the date of the accident between the plant, the licensee, B&W, the NRC, and other cognizant organizations; (4) the strip charts, plant log sheets, and other raw plant data taken from the day of the accident; or (5) the documentation of the investigations of various organizations into the accident. These 135 documents are identified by section reference 3.1 in the right-hand margin of Appendix B3. These documents were found to be immaterial because they either contained information that was previously reviewed by the staff or they did not demonstrate that the accident chronology, as provided in IE Bulletin 79-05A, was incorrect.

A number of documents discussed the possibility of a manual full-flow high-pressure-injection (HPI) actuation at 0541 (1 hour and 41 minutes into the accident). The time is significant because it coincides with the securing of

the last operating reactor coolant pumps and the beginning of the core heatup and uncover. These documents also are significant because they appear to identify a change in the operators' testimony. Interviews taken with the plant operators during the first days and months following the accident appear to provide unequivocal statements that HPI was manually actuated at full-flow conditions simultaneously with the securing of the last operating reactor coolant pumps. However, when the trial began in November 1982, shift supervisor W. Zewe and control room operator C. Faust provided testimony that began to question the actual occurrence of the 0541 HPI actuation and control room operator E. Frederick flatly denied that it could have taken place.

During the first days and months following the accident the principal TMI-2 operators, W. Zewe, C. Faust, and E. Frederick, were repeatedly interviewed by both NRC and GPU investigators in order to develop an understanding of the accident and a documented sequence of events. Appearing before the Plant Operating Review Committee (PORC) in mid-May of 1979, the operators stated that full-flow HPI was manually initiated when the reactor coolant pumps were secured at 0541 on the day of the accident. See Zewe at Tr. 2760. Zewe's testimony of November 29, 1982, indicated that all three operators were in agreement on this fact. See Zewe at Tr. 2761. Later, in a reconstruction of the 0541 event sequence, Zewe discussed the countdown that was performed as Frederick secured the reactor coolant pumps and Faust initiated HPI actuation (B&W 5000CC). In addition, during separate interviews before NRC investigators both Faust and Zewe stated that HPI was manually actuated when the reactor coolant pumps were secured. See B&W 5006AA and B&W 271 at 30, respectively. R. Keaten of GPU, in a June 6, 1979, appearance before an Advisory Committee on Reactor Safeguards (ACRS) subcommittee, further upheld the operators' statements that HPI was initiated just before the reactor coolant pumps were secured. See B&W 4012 at 16f.

During preparation of the GPU chronology of events, the three operators were said to have insisted upon including the manual HPI full-flow actuation at 0541. See Frederick at Tr. 3889 and Long at Tr. 275. Thus, the GPU sequence of events lists an HPI manual full-flow actuation of unknown duration at 0541 (GPU 2079). However, none of the other official chronologies list an HPI actuation on or about 0541. This includes IE Bulletin 79-05A; the IE Investigative Report, NUREG-0600 (GPU 2080); the Electric Power Research Institute's "Analysis of TMI Unit 2 Accident" (GPU 2081); the Rogovin report, "TMI Report to the Commissioners and to the Public" (GPU 2082); B&W's "Annotated Sequence of Events" (B&W 404); and B&W's "Final Report of the TMI-2 Occurrence; Technical Review Committee" (GPU 6).

In the opening statements at the trial, B&W's attorney discussed statements made by the plant operators that when the reactor coolant pumps were secured at 0541, a manual full-flow HPI actuation was initiated. He hypothesized that a "mystery man" must have terminated HPI within 5 minutes. See Fiske opening statement at Tr. 158. However, the operators' assertions regarding the manual HPI at 0541 had begun to change. As early as August 21, 1981, Faust's recollection of the 0541 HPI actuation can be summarized by the following quotation:

I seem to remember in time that sometime before we took the pumps off, we were initiating high-pressure injection. That isn't something I physically did. It is something I remember hearing as being done or going to be done. I don't know if it was or wasn't, actually. See Faust at Tr. 526.



Zewe's recollection of the 0541 HPI actuation had also begun to change. During Zewe's testimony of November 29, 1982 (at Tr. 2792), it was pointed out that, during September of 1979, he had made corrections to the official GPU chronology of events by entering manual HPI actuations at both 0541 and 0720 on the day of the accident. However, during testimony on November 22, 1982, Zewe could only recall a single manual HPI actuation (at Tr. 2153). He stated that this actuation occurred sometime between securing of the last reactor coolant pumps at 0541 and the automatic HPI actuation at 0800. When presented with a computer alarm printout from the day of the accident, Zewe acknowledged that a manual HPI actuation occurred at 0720. He could not recall any other manual full-flow HPI actuation during the day of the accident. See Zewe at Tr. 2156.

During testimony on December 7, 1982, Frederick stated that makeup tank level information proved that HPI actuation could not have occurred at 0541 (at Tr. 3497). Frederick stated that the TMI-2 valving configuration is such that it only allows HPI to be drawn from the borated water storage tank while makeup water is only drawn from the makeup tank. Therefore, the steadily decreasing makeup tank level at 0541 was cited by Frederick to support his conclusion that HPI could not have been actuated. However, during cross-examination it was pointed out that the reactimeter data showed a constantly decreasing makeup tank level during the manual HPI actuation at 0720. When questioned whether this new information would change his testimony regarding a manual HPI actuation at 0541, Frederick stated that he could not accept this new information as fact. See Frederick at Tr. 3903. Further questioning addressed the growing discrepancy between the present testimony and the operators' statements during the May 1979 PORC meeting regarding the 0541 HPI actuation. Frederick explained the apparent discrepancy with the PORC meeting of May 1979 by stating that he had been silent on the 0541 actuation. He believed his silence was misconstrued as approval. See Frederick at Tr. 3879 and Tr. 3514.

Further study on the alleged HPI actuation at 0541 was performed by EDS Nuclear, Inc. (GPU 2223). On January 3, 1983, Dr. J. Holderness (at Tr. 5638) stated that depending on plant conditions, HPI actuation could draw water from either (1) the borated water storage tank (BWST), (2) the makeup tank, or (3) a combination of the two. Thus, two of the three possible modes for HPI result in a declining makeup tank level. This is in conflict with Frederick's testimony. The EDS study concluded that, based on a hydraulic analysis of makeup tank level, HPI actuation did not occur on or about 0541. In a letter from B&W to NRC (J. H. Taylor to H. R. Denton dated July 28, 1983), B&W stated it had performed an abbreviated review of the EDS study and concluded that the EDS conclusions appeared to be correct. Cross-examination of Holderness pointed out some of the difficulties of this analysis. Not all plant parameters appeared to be factored into the analysis (e.g., periodic feeding of the makeup tank from the BWST) because the EDS computer model did not match the actual makeup tank level under all conditions. See Holderness at Tr. 5647. Following the lawsuit settlement, GPU contracted with B&W to perform an independent analysis of this issue. B&W has recently completed the analysis and has sent the report to GPU. The staff requested that GPU provide a copy to the NRC. This report entitled "Response to GPUN Questions Concerning HPI Actuation at TMI-2 About 5:41 A.M. on March 28, 1979," was received from counsel for the licensee on September 15, 1983. A complete staff review and evaluation of the B&W and EDS reports will be conducted. If these reports prove inconclusive, an independent staff analysis will be performed.



In a letter dated August 23, 1983, from the counsel for the licensee (Shaw, Pittman, Potts, and Trowbridge) to the NRC, the licensee asserted that, with regard to the HPI actuation question, the EDS study is correct. The licensee concludes that the manual HPI actuation that the operators previously claimed took place at 0541 had actually occurred at 0720.

The conflicting evidence in the lawsuit record makes it impossible, at the present time, for the staff to arrive at a conclusion as to whether or not HPI was actuated at 0541. However, the staff does not believe that a momentary actuation of HPI at 0541 (if it did occur) is significant to the resolution of certification item 19. The alleged action had no effect on mitigation of the subsequent core damage. In a broader sense, the purpose of IE Bulletin 79-05A, item 1 (i.e., certification item 19), was to inform the licensees that when all the reactor coolant pumps and HPI pumps were secured under LOCA conditions, core damage was the inevitable result. This result will hold true regardless of how many times HPI is turned on and turned off as long as there follows an extended period of time when all pumps are tripped and no form of circulation is maintained. Therefore, the staff concludes that the documents concerned with the alleged HPI at 0541 are not material to certification item 19. However, the relationship between the 0541 HPI actuation question and the staff's position on management competence and integrity is addressed in Section 10.7.

### 3.2 Plant Transient Review

#### Related Restart Items

Certification item 20 relates to item 2 of IE Bulletin 79-05A. Item 2 of the bulletin required the licensees of B&W reactor facilities to review and evaluate any transients similar to the Davis-Besse precursor event of September 24, 1977, or any other events that occurred at their facility(ies) that may contain elements similar to those of the TMI-2 accident chronology. If any significant deviations from expected performance were identified during the review, licensees were required to provide details and an analysis of the safety significance and a description of any corrective actions taken.

#### Review of Relevant Lawsuit Documents

Two hundred thirty-one of the lawsuit documents reviewed were found to be relevant because they described (1) precursor events that occurred at TMI, (2) precursor events that occurred at other operating facilities, or (3) operating data that could be fed back into operator training (e.g., normal and abnormal power-operated relief valve (PORV) tailpipe temperatures). These 231 documents are identified by section reference 3.2 in the right-hand margin of Appendix B3.

The licensee's response to this item and, consequently, the evaluation in NUREG-0680 limited the discussion of this item to potential precursor events that had occurred at TMI-1. Events that occurred on August 30, 1974, and March 30, 1975, where the system response differed from a normal response to the initiating event were discussed in NUREG-0680 (at C-2-2 and C-2-3).

B&W 445 provided a preliminary list of reactor trips at TMI-1, which included actuation of the PORV. The two events discussed in NUREG-0680 are included in

this list. B&W 156 provided analyses of plant behavior during the loss-of-load and reactor-trip transients at TMI-1. Although the latter exhibit deals with analyses as opposed to actual events, the staff believes it to be particularly relevant because it addresses operator actions assuming reactor trip and the coincident single failure of a main steam safety valve to reseal. The scenario involving failure of a main steam safety valve to reseal is identical to the TMI-2 precursor event of April 23, 1978.

The documents that describe these events at TMI-1 are consistent with previously known and reported information and, therefore, are immaterial to certification item 20. Thus, the conclusions and bases for this issue remain unaltered. The remainder of the relevant documents that discuss precursor events at TMI-2 and other B&W operating facilities also are immaterial to certification item 20; however, the relationship between GPU's knowledge of prior transients and precursors and the staff's position on management competence and integrity is addressed in Section 10.6.

### 3.3 Comparison of TMI-1 Licensee Event Reports With Industry-Wide Statistics

#### Related Restart Items

Certification item 63 relates to item 9 of the Commission Order of March 6, 1980. This item required a comparison of licensee event reports (LERs) and operating experience between TMI and the rest of industry. The objective of this comparison was to determine what conclusion could be drawn regarding the licensee's ability to operate Unit 1 safely.

#### Review of Relevant Lawsuit Documents

None of the lawsuit documents reviewed were found to be relevant and material because none of the documents contained either (1) additional LERs that had not been previously included in the comparison or (2) new or additional information that had not been previously reported for existing LERs. The information reviewed in Category 3 does not change the conclusions or bases for this certification item.

## CATEGORY 4 - LICENSEE QUALIFICATION

### 4.0 Introduction

Category 4 compares the licensee qualification aspects of the TMI-1 restart process with the GPU v. B&W lawsuit documents. To the extent that these documents also raise issues concerning management integrity, they are discussed in Chapter 10. The restart issues associated with Category 4 consist of 34 certification items. A complete listing of the restart issues associated with Category 4 may be found in Appendix A4. The lawsuit documents that were screened into Category 4 for technical review and evaluation consist of the following: trial testimony - 20 documents, depositions - 61 documents, and exhibits - 211 documents. A complete listing of the documents screened into Category 4 may be found in Appendix B4. Because several of the 34 certification items are closely related and deal with the same basic issues, some of the issues are grouped together and are discussed under one heading. Six section headings were selected to address the 34 certification items. These are identified as Sections 4.1 through 4.6 in this chapter. Because of the volume of material screened into Category 4, it was necessary to perform an audit-type review (as compared with a 100% review) of the documents screened into this category. The audit review was designed to ensure that a representative sample of documents would be reviewed and that the project completion date would be met. The audit review required, as a minimum, that the following documents be reviewed: (1) trial testimony and depositions of personnel still within the GPU organization, (2) lawsuit documents cited by the intervenors as being significant in their review of the lawsuit record, and (3) a minimum of 25% of the total number of documents screened into the category.

Of the 292 documents screened into Category 4, all documents were given a second screening by the technical review group. Of these, 166 were selected for detailed technical review (57%). Included in the detailed review were all trial testimony and depositions, exhibits providing internal management audits of Met-Ed or GPU, and other selected exhibits. All of the 166 documents reviewed were found to be relevant but none of these documents were found to be material to the restart issues.

### 4.1 Management of Training

#### Related Restart Items

Certification items 18, 53, 61, 98, 104, 146, 147, and 151 are related to the management's involvement in the qualification and training of plant personnel. Most of these certification items are involved with the training of the operations staff, including initial training, retraining, Category T (basic sciences) examinations, operator certification, and training during the startup test program. The remaining certification items include the qualifications of instructors and safety review groups and the training of Emergency Directors and Emergency Support Directors.

## Review of Relevant Lawsuit Documents

Seventy-two of the lawsuit documents reviewed were found to be relevant to the management of training because they (1) discussed problems with the administration of programs and the implementation of programs or (2) made recommendations for improving the management and structure of the training department and training programs. Of the 72 relevant documents, 39 are either the trial testimony or depositions of 15 named individuals, 12 relate to TMI-2 task forces or recovery effort, 7 deal with the evaluation of previous operating experience, 5 relate to audit interviews, 5 discuss the Operating Training Department, and 4 cover the requalification program. These documents are identified by section reference 4.1 in the right-hand margin of Appendix B4.

The information contained in these documents was considered not to be material for the following reasons. While the staff was not aware of all the specific information contained in the lawsuit documents at the time of its review and evaluation of these issues, the information presented points out a number of examples of the licensee's management of training or problems associated with the implementation of the training program as it existed before the accident at TMI-2. To illustrate the evaluation process in the area of management of training, the staff considered B&W 356, which is the report of the in-house investigative task force of GPU on the TMI-2 accident. This document identified insufficient training as one of the major causes of the accident. In delineating the insufficiency, the task force found a number of specific shortcomings such as training to respond to single failures only, limited simulation capability, no training to take a broader view of events beyond those addressed in the procedures, and the management of training. The GPU "Keaten task force" concluded that plant management before the accident was more concerned with training operators to pass the NRC's licensing examination than it was with training personnel to operate the plant. This view was reflected in shrinking instructor staff, instructors burdened with inhouse paperwork and inadequate time left for preparing for lectures, and below 50% attendance at operator requalification training classes, requiring that makeup classes be established. The question of possible training program irregularities as they relate to management integrity, identified during this review, is addressed in Section 10.3.

The changes in the organization and management of the training department for the TMI-1 restart are discussed in NUREG-0680 and its supplements. Currently the training content, the staffing level of instructors, and the training structure reflect changes based not only on the findings of internal GPU assessments, such as B&W 356, but on NRC requirements and guidelines found in NUREG-0660, NUREG-0737, Regulatory Guide (RG) 1.8 and RG 1.149. In-house training is supplemented by outside organizations, and an independent consultant is used to audit the training operations. Consequently, the shortcomings described in the above exhibit were addressed by the staff in NUREG-0680 and the supplements to NUREG-0680 provide even further updates and status reports on the evolvement of training for the TMI-1 restart. Each of the other examples presented in the lawsuit documents reviewed is consistent with the general type of problems known to have existed under the preaccident management of training. Therefore, these lawsuit documents were judged not to be material and do not alter the conclusions or bases of these certification items, regarding the revised management of training at TMI-1.



## 4.2 Management Qualifications

### Related Restart Items

Certification items 58, 59, and 66 relate to TMI-1 operations and technical staff qualifications, radwaste operator qualifications, and management and technical capability.

### Review of Relevant Lawsuit Documents

Eighty-three lawsuit documents were found to be relevant to management qualifications because they addressed the education, training, and experience of the licensee's management, technical, and operations staffs before and up to the time of the accident at TMI-2. Of the 83 relevant documents, 8 are trial testimony of 5 individuals, 35 are pretrial depositions of 23 individuals, 38 are B&W exhibits related to licensee or GPU management qualifications, and 1 document is the resumé of a former B&W employee. These documents are identified by section reference 4.2 in the right-hand margin of Appendix B4.

These documents were found not to be material either because they contain information previously known from earlier reviews performed by the staff or they support the staff's position regarding the qualifications (i.e., technical qualifications and experience) of pertinent licensee staff. For example, B&W 831 is the resumé of R. C. Arnold that had been previously reviewed by the staff. In the course of this review another document became available. On November 15, 1982, Arnold testified and described his background and qualifications. This testimony has been evaluated by the staff and further supports the staff conclusions (discussed in NUREG-0680 and its supplements) that the individuals with both preaccident and present management responsibilities at Three Mile Island have the requisite qualifications. Subsequent to the accident, the management has undergone extensive reorganization, and the qualifications of individuals in the new organization have been reviewed and approved by the staff. Therefore, these documents were judged to be immaterial and do not alter the conclusions or bases of NUREG-0680.

## 4.3 Management Structure

### Related Restart Items

Certification items 55, 56, 57, 60, 64, 71, 96, 106, and 123 relate to the issue of management structure at TMI-1, particularly as that structure relates to (1) the adequacy of the Operational Quality Assurance Program; (2) the adequacy of the support organization for plant maintenance; (3) the appropriateness of its organization to ensure safe operation; (4) the relationship between the Finance and the Technical Departments; (5) the actions of the management during the TMI-2 accident; (6) the quality of the plant and corporate management, staffing, organization, and resources; (7) the overtime policy; (8) the operating information; and (9) the improvements to the organization.

### Review of Relevant Lawsuit Documents

One hundred lawsuit documents were found to be relevant to organizational structure because they addressed the organizational structure of either the utility



or of the vendor before and up to the time of the accident at TMI-2. Of the 100 relevant documents, 13 are the trial testimony of 6 named individuals, 42 are depositions of 18 named individuals, and 45 are B&W exhibits. In the context of management structure, particular attention was focused on the following subjects in the review: elements of the organizations, responsibilities of the organizational units, interrelationships and formal channels of interaction between the units, organizational communications, assignment of responsibilities to managers, and methods of supervision. These documents are identified by section reference 4.3 in the right-hand margin of Appendix B4.

These documents were found not to be material because they contain information previously known from earlier reviews performed by the staff. The content of the documents does not reveal previously unknown information; rather it describes operations, details of daily events, or methods of business conduct. B&W 843 is used as an example to illustrate the method of analyses. This exhibit describes many of the management structure deficiencies that existed before the TMI-2 accident. The exhibit, which is the result of a management audit, (1) indicates several deficiencies of preaccident management structure, including individuals bypassing the chain of command, duplication of effort, lack of supervisory authority, and poor communications, and (2) notes a general lack of improvement in these areas before the accident. As described in NUREG-0680, the utility has implemented significant organizational improvements since the TMI-2 accident to provide strengthened management and technical support. These organizational changes include a separation of TMI-1 and TMI-2 activities. The changes are expected to provide improved management capability and control. Feedback of operational data is presently provided by a new, five-member Safety Review Group (four engineers and one senior reactor operator). The facts of preaccident management structure as revealed in the reviewed documents are not new and had been considered by the staff. Therefore, these documents were judged to be immaterial and do not alter the conclusions or bases of these certification items, regarding the present GPU management structure.

#### 4.4 Management/Administrative Procedures

##### Related Restart Items

Certification items 54, 67, 88, and 91 relate to control room access procedures, shift supervisor-related management and administrative procedures, reviews and audits of changes to plant design and procedures (safety review), and facility procedure generation and review.

##### Review of Relevant Lawsuit Documents

Seventy-four of the lawsuit documents were found to be relevant to management and administrative procedures because they discuss plant administration and management lines of responsibility and authority, the methods and channels of interaction within utility management, and methods of management to handle issues concerning plant design, operations, and procedures. Of the 74 documents in this category, 14 are trial testimony of 7 named individuals, 24 are depositions of 16 named individuals, and 36 are B&W exhibits. These documents are identified by section reference 4.4 in the right-hand margin of Appendix B4.

These documents were found not to be material because they contained information previously known from earlier reviews performed by the staff. The documents do not discuss specific improvements in the area of management/administrative procedures but rather the implicit shortcomings in these areas before and at the time of the accident at TMI-2. The review process in the area of the management/administrative procedures is illustrated by B&W 763 and 764, which document how the Superintendent at Unit 2 expressed his concerns to Met-Ed management in Reading, Pennsylvania, regarding the slow rate of procedure preparations in the time period between September 1974 and January 1976. The concerns concentrate (1) on the few procedures that had been completed with respect to the total to be done, (2) on the shortness of time left to accomplish the task, and (3) on the use and allocation of manpower to accomplish the task for TMI-2. For the TMI-1 restart, the organizational and managerial issues associated with handling procedures have been directly addressed in NUREG-0680. NUREG-0680 discusses how the procedures are being developed and lists a series of specific procedures that have been reviewed by the staff. In addition to these issues, NUREG-0680 addresses the administrative functions and the audit methods for handling procedures. For example, Supplement 2 to NUREG-0680 describes how the NRC review comments on emergency procedures have been incorporated into the TMI-1 procedures. The incorporation of the NRC comments as well as the managerial and organizational changes outlined in NUREG-0680 and its supplements should preclude or minimize the type of problems indicated by B&W 763 and 764 from recurring. Therefore, the information in these documents does not change the conclusions or bases of these certification items.

#### 4.5 Management of Staffing Issues

##### Related Restart Items

Certification items 65, 68, 89, 92, 93, 97, 105, and 148 relate to the ability of the licensee's management to establish and maintain adequate staffing levels. Six of these certification items relate to increases in staff levels, which are based on lessons learned from the TMI-2 accident. These include items that address maintaining an individual with engineering expertise on shift, maintaining an increased number of individuals on each shift, maintaining adequate staffing of the new technical and operational support centers, maintaining adequate personnel to perform an offsite review function, and maintaining proper supervision of the Startup and Test Director. The two remaining certification items in this category are staffing issues raised because of the large amount of manpower required for TMI-2 cleanup operations. These items include the required increase in overall technical capabilities to maintain both units and the staffing of sufficient individuals with the requisite health physics qualifications.

##### Review of Relevant Lawsuit Documents

Thirty-five of the lawsuit documents were found to be relevant to the management of staffing because they address technical capability of the licensee, the organization and staffing of various departments and committees, and other staffing issues relative to the organization of the corporate and plant staff for normal as well as emergency operations. Of the 35 documents, 5 are trial testimony of individuals, 14 are pretrial depositions of individuals, and 16 are B&W exhibits. These documents are identified by section reference 4.5 in the right-hand margin of Appendix B4.

These documents were found not to be material either because they contained information previously known from earlier reviews performed by the staff or they support the conclusions made by the staff. The documents discuss staffing problems before and at the time of the accident at TMI-2, both specifically and implicitly, but do not address specific improvements regarding these areas or the specifics of how these issues have been resolved and implemented for the TMI-1 restart. For example, B&W 566 is a September 13, 1979, memorandum from two training instructors to the training supervisor. The memorandum describes justification for both reorganization and increased staffing of the then existent training department. The staff is and has been aware of the issues raised in the memorandum. NRC upgraded requirements, many of which are based on lessons learned from the TMI-2 accident, point out the need for all utilities to properly manage, organize, and staff their training departments. As described in Supplement 1 to NUREG-0680, the staff has evaluated the present organization and staffing of the TMI-1 Training Department and has concluded that present practices are adequate. Therefore, these documents do not alter the conclusions or bases of these certification items.

#### 4.6 Statistical Comparison

##### Related Restart Items

Certification items 62 and 63 relate to statistical comparisons of TMI-1 with other plants.

##### Review of Relevant Lawsuit Documents

Four of the lawsuit documents were found not to be relevant to statistical comparisons of TMI-1 with other plants because they discuss various aspects of operational data, methods of feedback for these data, and relative comparison of industry-wide data bases to that at TMI-1. These documents are identified by section reference 4.6 in the right-hand margin of Appendix B4.

These documents were found not to be material because three do not contain sufficient specific data comparing the TMI-1 or TMI-2 units to other plants. B&W 783, one of the four documents, is such a comparison. This document, dated January 18, 1979, contains a management review of the overall performance of the two TMI units during the year of 1978; it presents extensive factual, numerical data; and it also compares the number of licensee event reports (LERs) for TMI-1 and TMI-2 to those for other plants in the same year. However, the information content of these LERs was known to the staff in the preparation of NUREG-0680 and its supplements in the sections addressing management controls of documents and records. Therefore, the previous staff conclusions and bases of these certification items are not modified by the review of the above documents.



## CATEGORY 5 - QUALITY ASSURANCE AND MAINTENANCE

### 5.0 Introduction

Category 5 compares the quality assurance and maintenance aspects of the TMI-1 restart process with the GPU v. B&W lawsuit documents. The restart issues associated with Category 5 consist of 13 certification items and one long-term action. A complete listing of the restart issues for Category 5 may be found in Appendix A5. The lawsuit documents that were screened into Category 5 for technical review and evaluation consist of the following: trial testimony - 5 documents, depositions - 19 documents, and exhibits - 135 documents. A complete listing of documents screened into Category 5 may be found in Appendix B5. Because several of the restart items are closely related to and deal with the same safety issues, some of the restart items are grouped together and discussed under one heading. Thus, the staff review of Category 5 is discussed under sections 5.1 through 5.5 of this chapter. Overall, of the 159 documents screened into Category 5, 43 documents were determined to be irrelevant. Of the 116 relevant documents, none were found to be material to any of the restart issues.

### 5.1 Operational Quality Assurance

#### Related Restart Item

Certification item 55 is related to the adequacy of the operational quality assurance (QA) program at TMI-1.

#### Review of Relevant Lawsuit Documents

Twenty-four of the lawsuit documents reviewed were found to address various aspects of the operational quality assurance program and, therefore, were determined to be relevant. These documents are identified by the section reference 5.1 in the right-hand margin of Appendix B5. They addressed subjects including Technical Specification surveillance requirements; procedures, work requests; checklists of maintenance items; responsibilities of quality control (QC) supervisors; the need for a QC plan; inspections and related acceptance criteria; calibration; auditing of training activities; auditing of QC activities; proper documentation; close-out of corrective actions; document control; use of qualified personnel; and inspection of the secondary side of the plant.

None of the information contained in these documents was considered material. While the staff was not specifically aware of all of the information contained in the lawsuit documents at the time of its review and evaluation of this issue, the information presented identifies several areas, as noted above, of either programmatic QA problems or problems associated with the implementation of the program as it existed before the TMI-2 accident. The QA program for TMI-1 has subsequently undergone extensive revision, and has been reviewed and approved by the staff as documented in NUREG-0680 and its 3 supplements. These revisions address these problem areas and should preclude or minimize recurrence of the same types of problems. Examples of revisions made to the QA program

for TMI-1 to correct past QA problems include (1) a requirement to verify performance of Technical Specification surveillance actions; (2) an improved definition of the responsibilities and authority of QA and QC organizations to include involvement in the review and approval of quality-related aspects of procedures, and in the performance of inservice inspections, nondestructive examinations, and other inspection activities; (3) a strengthened requirement to develop QC plans and procedures in advance of plant activities to ensure the performance of proper QC functions in support of these activities; (4) strengthened requirements for the closeout of corrective actions; and (5) an expansion of the scope of applicability of the QA program to include all plant items important to safety. Therefore, the staff's conclusions regarding the adequacy of the revised QA program for the TMI-1 restart are not affected.

## 5.2 Plant Maintenance

### Related Restart Item

Certification item 56 relates to the staff's evaluation of plant maintenance and to the staff's additional testimony regarding the adequacy of the licensee's maintenance program with respect to auditability of maintenance records and proper and timely corrective action, i.e., proper prioritization and avoidance of unnecessary backlog of work.

### Review of Relevant Lawsuit Documents

One hundred six of the lawsuit documents reviewed were found relevant to the subject certification item because they described past or current licensee maintenance organizations and staffing, management controls (procedures and records), and management decisions (budget cuts, work prioritization), or because they described specific equipment problems and associated maintenance activities. These documents are identified by section reference 5.2 in the right-hand margin of Appendix B5. Of these 106 documents, 82 were found to be immaterial to any of the restart items because they identified information already known to the staff and/or were specifically addressed during the TMI-1 Restart Hearings. The information contained in these documents included the following subjects:

<u>Subject area</u>	<u>No. of documents</u>
administrative controls for maintenance	7
vendor maintenance recommendations	6
TMI-2 preaccident maintenance inadequacies/poor practices	4
maintenance staffing/backlog	2
EFW valve maintenance	1
maintenance personnel/crew duties	2
TMI-2 PORV/safety valve leakage	17
PORV field change/repairs	7
TMI-1 PORV problems	2
condensate, polisher, instrument air system problems	8
TMI-2 makeup pump damage	1
nuisance alarms/instrument malfunctions	1
inoperable radiation monitors	3



<u>Subject area</u>	<u>No. of documents</u>
RCS leakage	3
B&W review of TMI-2 accident	2
Davis-Besse event of September 1977	1
November, 7, 1978, ESFAS actuation event	1
TMI-1 restart hearing exhibit/transcript	3
various combinations of the above subjects as discussed in individual deposition/testimony or in GPU task force reports	11

The information contained in the above described documents identified problems associated with maintenance deficiencies that were known by the staff to exist under the preaccident maintenance program even though certain of the individual documents may not have been available to the staff at that time. If the documents had been available, the final conclusions relative to TMI-1 restart as they pertain to maintenance would not have changed. Many of these deficiencies were litigated during the TMI-1 restart proceedings as part of Contention 5 by the Three Mile Island Alert (TMIA) intervenors. The revised maintenance program, currently in place and approved by the staff and documented in NUREG-0680, Supplement 1, and in Inspection Reports IR-80-19 and IR-80-20, adequately addresses solutions to these problems and should preclude or minimize the recurrence of such problems.

Examples of actions taken to correct past maintenance problems include reorganization of the maintenance department, significant increase in the maintenance staff including maintenance personnel on each of the backshifts, improved training of maintenance personnel by scheduling frequent training sessions for all maintenance personnel, a computerized work request system, a revamped work request priority system, establishment of a preventive maintenance procedure for the PORV, and procedure changes to ensure that vendor-provided information is properly considered in the maintenance and modification of safety-related equipment and increased training of maintenance personnel.

The remaining 24 documents were found to be immaterial because they contained no adverse information regarding the adequacy of the TMI-1 maintenance program or the staff's bases or conclusions on the issue. The information contained in these documents included the following subjects:

<u>Subject area</u>	<u>No. of documents</u>
maintenance supervisor's actions	1
licensee audits of maintenance	1
TMI-2 outage work list	2
TMI-2 daily plant status before the accident	1
TMI-1 outage performance	1
TMI-2 Test Working Group meetings	1
B&W plant availability	1
planned corrective actions regarding emergency procedures	1
PORV testing at TMI-2	2
PORV design change and vendor support	6
PORV corrosion	3

<u>Subject area</u>	<u>No. of documents</u>
PORV contact switch repairs	1
TMI-2 unusual occurrence during preoperational testing	1
Davis-Besse event of September 1977	2

The 24 documents noted above all described some aspect of maintenance associated with TMI-2; however, the information presented in the documents is factual in nature and does not impact favorably or unfavorably on the staff's conclusions regarding the licensee's present maintenance program.

### 5.3 Material Deficiencies

#### Related Restart Items

Certification items 10, 15, 23, 44, 45, 46, 79, 111, and 116 and long-term action II.F.3 of NUREG-0737 all relate to the adequacy of design, maintenance, and testing of various systems and/or components.

#### Review of Relevant Lawsuit Documents

No lawsuit documents reviewed were found to be relevant to the restart issues concerning material deficiencies.

### 5.4 Operations and Technical Staff Qualifications' Review

#### Related Restart Item

Certification item 58 relates to maintenance personnel qualifications.

#### Review of Relevant Lawsuit Documents

No lawsuit documents reviewed were found to be relevant to certification item 58.

### 5.5 Accuracy of Maintenance Records

#### Related Restart Item

Certification item 95 relates to the adequacy of documenting maintenance activities.

#### Review of Relevant Lawsuit Documents

One of the lawsuit documents reviewed (Keaten Dep. of 01/19/82) was found to address the subject of timeliness and documentation of maintenance activities. This document is identified by the section reference 5.5 in the right-hand margin of Appendix B5. The information contained in this deposition was found to be immaterial because differences in treatment of secondary and primary plant maintenance (recordkeeping, timeliness) were already known to the staff and considered during the TMI-1 restart hearing.

## CATEGORY 6 - EQUIPMENT AND SYSTEM DESIGN AND FUNCTION

### 6.0 Introduction

Category 6 compares the equipment and system design and function aspects of the TMI-1 restart process with the GPU v. B&W lawsuit documents. The restart issues associated with Category 6 consist of 57 certification items and 12 long-term actions. A complete listing of the restart issues for Category 6 may be found in Appendix A6. The lawsuit documents that were screened into Category 6 for technical review and evaluation consist of the following documents: trial testimony - 23 documents, depositions - 88 documents, and exhibits - 421 documents. A complete listing of the documents screened into Category 6 may be found in Appendix B6. Because several of the 56 certification items and 12 long-term actions are closely related and deal with the same safety issue, some of the issues are grouped together and discussed under one heading. Thus, the staff review of Category 6 is discussed in Sections 6.1 through 6.25 of this chapter. Overall, of the 532 documents screened into Category 6, 439 documents were determined to be irrelevant, 91 documents were found to be relevant but not material to any of the restart issues, and 2 documents, as discussed in Section 6.12, were determined to be relevant and material to the restart issues. (A board notification discussing these two documents was issued September 7, 1983.)

#### 6.1 Automatic Initiation of Emergency Feedwater

##### Related Restart Items

Certification items 1, 81, and 121 and long-term action II.E.1.2 of NUREG-0737 are related to the requirement for automatic initiation of emergency feedwater (EFW).

##### Review of Relevant Lawsuit Documents

Twelve of the lawsuit documents reviewed were found to be relevant either because they described the EFW system, including automatic initiation and the initiation signals and set points, or because they made recommendations that the system be upgraded. These documents are identified by section reference 6.1 in the right-hand margin of Appendix B6. These documents were found to be immaterial because they contained information previously reviewed by the staff. In addition, they did not discuss specific methods of design for the implementation of EFW automatic initiation. The information in these documents does not alter the conclusions or bases of NUREG-0680.

#### 6.2 Emergency Feedwater System

##### Related Restart Items

Certification items 2, 9, 10, 12, 13, 14, and 122 are related to the adequacy and availability of the EFW system.

### Review of Relevant Lawsuit Documents

One document (B&W 604) was found to be relevant to the TMI-1 restart issue that requires a system that automatically isolates a depressurized steam generator from EFW flow and automatically supplies the intact steam generator (certification item 12). This document was found to be immaterial because, even though it discusses feeding the intact steam generator, it presents information already known to the staff and does not alter the conclusions or bases of NUREG-0680.

This document was also found to be relevant to the issue of a failure in the rupture detection system causing EFW isolation (certification item 122) because it discussed the system in relation to feeding an intact steam generator. This document was found to be immaterial because the information is consistent with previously reviewed material and does not alter the conclusions or bases of NUREG-0680.

No lawsuit documents were found to be relevant to certification items 2, 9, 10, 13, or 14.

### 6.3 Automatic Loading of Emergency Feedwater Pumps on the Diesel

#### Related Restart Items

Certification item 3 is related to automatic loading of the EFW pumps on the diesel.

#### Review of Relevant Lawsuit Documents

One document (B&W 912) was found to be relevant to this restart item. The document describes the conditions necessary for loading and, therefore, starting the motor-driven EFW pumps. The logic has since been modified so that the motor-driven pumps are automatically loaded onto the diesel and all EFW pumps are automatically started. The relevant document was found to be immaterial to any of the TMI-1 restart issues because the information provided in the document is consistent with previously reviewed information relative to the loading of the EFW pumps onto the diesel. Therefore, the staff's conclusion stated in NUREG-0680, remains unaltered.

### 6.4 Emergency Feedwater Flow Indication

#### Related Restart Items

Certification items 5 and 82 and long-term action II.E.1.2 of NUREG-0737 are related to the restart issue pertaining to indication in the control room of EFW flow to each steam generator.

#### Review of Relevant Lawsuit Documents

No lawsuit documents were found to be related to these issues.



## 6.5 Emergency Feedwater System Automatic Start Annunciation

### Related Restart Items

Certification item 8 relates to annunciation of all EFW system automatic starts.

### Review of Relevant Lawsuit Documents

No lawsuit documents were found to be relevant to this restart item.

## 6.6 Human Factors Equipment and Systems

### Related Restart Items

Certification items 23, 94, 113, 116, 118, and 125 relate to the human factors aspects of equipment design and function.

### Review Of Relevant Lawsuit Documents

Seven documents were found to be relevant to the general topic of control room design because they discuss operator distraction by low priority alarms during the TMI-2 accident. These documents are identified by section reference 6.6 in the right-hand margin of Appendix B6. This information was judged immaterial because this problem has been recognized and a possible solution for all nuclear power plants is under study. This problem is not unique to TMI-1, and resolution of the problem is not a TMI-1 restart item.

NUREG-0737, Supplement 1, requires all plants to eventually install safety parameter display systems (SPDS), to assist the operator in responding to emergency situations. As an interim solution to the multiple alarm problem, alarms have been prioritized by color coding on the overhead annunciators, to assist operator response.

One document (GPU 213) was judged relevant because it mentions the inadequacy of the control room design at TMI-2, but was judged immaterial because it contained no specific information.

## 6.7 Meteorological Data and Effluent Treatment, Monitoring and Sampling System

### Related Restart Items

Certification items 26, 43, 47, 49, 50, 51, 83, 84, 85, 114, 115, and 132 and long-term action II.F.1.3 of NUREG-0737 are included in this category.

### Review of Relevant Lawsuit Documents

None of the documents reviewed were found to be relevant to the above restart items.



## 6.8 Power-Operated Relief Valve Set Point

### Related Restart Items

Certification items 32 and 36 (Technical Specifications 2.2 and 3.1.12) are related to establishing a power-operated relief valve (PORV) set point that would reduce the likelihood of PORV actuations during anticipated transients.

### Review of Relevant Lawsuit Documents

Eleven documents were identified as relevant to this certification item. These documents are identified by the section reference 6.8 in the right-hand margin of Appendix B6. These documents were judged to be immaterial because they provide recommendations and background analyses for the modifications that have been made at TMI-1. The staff previously reviewed the information contained in these documents as part of the TMI-1 restart evaluation.

## 6.9 Anticipatory Reactor Trip

### Related Restart Items

Certification items 34 and 36 (Technical Specification 3.5.1) are related to the anticipatory reactor trip on loss of main feedwater and/or turbine trip.

### Review of Relevant Lawsuit Documents

Two lawsuit documents (GPU 6 and 215) were found to be relevant to tripping of the reactor on loss of main feedwater and/or turbine trip because they recommended incorporation of such a modification. These documents were judged to be immaterial because the information contained in the documents is consistent with the staff's position and they do not discuss specific design methods for implementation of the anticipatory reactor trip. Therefore, the information contained in these documents does not alter the staff's conclusions and bases stated in NUREG-0680.

## 6.10 Emergency Power Supply To The Pressurizer

### Related Restart Items

Certification items 36 (Technical Specifications 3.1.3c and 5.6.3), 72, 73, 111, and 120 are all related to the evaluation of the emergency power supply to the pressurizer.

### Review of Relevant Lawsuit Documents

No lawsuit documents were found to be relevant to these restart items.

## 6.11 Relief Valve Testing Program

### Related Restart Items

Certification item 74 and long-term action II.D.1 of NUREG-0737 relate to the relief and safety valve testing program.

### Review of Relevant Lawsuit Documents

Six documents were found to be relevant because they contained the following types of information: (1) a failure mode involving poor soldering in relief valves, (2) speculation concerning possible actuation of the safety valves during the TMI-2 accident and multiple actuations of the PORV before the accident, (3) a report that the block valve on TMI-1 stuck closed twice, and (4) a suggestion that safety valves and PORV are only tested for saturated steam. These documents are identified by the reference to Section 6.11 in the right-hand margin of Appendix B6.

All six of these documents have been judged to be immaterial. The safety and relief valve testing program is intended to qualify valves for the full range of fluid conditions and capacities for all design-basis accidents. None of the documents present evidence that the valves lack this capability. It should be noted that the testing performed on saturated steam confirmed that the capacity of safety valves built to the requirements of the Boiler and Pressure Vessel Code of the American Society of Mechanical Engineers (ASME) is as stamped on the valves and the capacity of the PORVs meets the manufacturer's design standards. However, the testing performed in other fluids such as transition flow and saturated and subcooled water flow was only intended to provide confirmation of sufficient valve capacity and operability for fluid conditions associated with design-basis accidents and transients. These tests were not intended to confirm conformance with any specific ASME capacity certification requirements for these types of fluids. Furthermore the testing requirements of the long-term action II.D.1 of NUREG-0737 are considered by the staff as being adequate for determining block valve ability to open and close under design-basis accidents and transients. The program is not intended to verify that PORVs are capable of repeated actuations (although a valve representative of the TMI-1 PORV has been cycled 42 times and sustained no apparent damage). Finally, the test program is not intended to identify failures arising from poor manufacturing quality assurance, such as PORV soldering.

### 6.12 Valve Position Indication

#### Related Restart Items

Certification item 75 relates to the requirement for PORV and safety valve position indication.

#### Review of Relevant Lawsuit Documents

Forty-eight lawsuit documents were found to be relevant to pressurizer power-operated and safety relief valve position indication. Forty-six of the forty-eight documents were found to be immaterial to this restart item because the information provided by these documents is limited to either (1) technical information previously known to the staff concerning the adequacy of valve position indication derived from PORV tailpipe temperatures or the control signal to the PORV, and/or (2) general information concerning management or plant personnel awareness of the limitations of the position indication system as it existed at the time of the accident. The implementation of the two diverse means of positive PORV position (as stated in NUREG-0680) resolves

all of the technical issues raised by these documents. The question of pre-accident PORV position indication inadequacies as it relates to possible management competence and integrity is discussed in Section 10.4.2.

Two documents (GPU 2097 and 399) were judged to be relevant and material. These two documents provide evaluations of several potential means for PORV position indication previously unreviewed by the staff and recommended further testing before implementation. The staff (including the original NUREG-0680 reviewer for this item) evaluated these two documents and established that the conclusions and bases of NUREG-0680 are not altered by this new information. The methods implemented by TMI-1, accelerometer-type acoustical monitors and flow sensors across elbow taps, were two of five methods evaluated by B&W as having a "high probability of success." These methods will provide a fast and reliable means to determine the position of the PORV and will not result in false indication resulting from operation of the code safety valves. In addition, the signals are diverse and plant personnel have operating experience with the equipment. An added feature of the acoustical monitors is that they also may be able to determine PORV leakage during normal operation. The two methods utilized at TMI-1 have been adequately tested as discussed in NUREG-0680, Supplement 3.

A Board Notification (BN-83-137) discussing these two documents was issued on September 7, 1983.

### 6.13 Inadequate Core Cooling

#### Related Restart Items

Certification items 41 and 76 and long-term action II.F.2 of NUREG-0737 are all related to instrumentation for detection of inadequate core cooling.

#### Review of Relevant Lawsuit Documents

Six lawsuit documents were found to be relevant to instrumentation for detection of inadequate core cooling (ICC) because they described either the cause of ICC or the use of the ICC instrumentation including the incore thermocouples, saturation margin monitor, and reactor vessel water level measurement. These documents are identified by section reference 6.13 in the right-hand margin of Appendix B6. The subject documents were found to be immaterial to these restart items because the information is consistent with the current staff position on this issue. The information in these documents does not alter the conclusions or bases of NUREG-0680.

### 6.14 Containment Penetrations

#### Related Restart Items

Certification items 77 and 78 and long-term action II.E.4.1 of NUREG-0737 are related to the staff's evaluation of containment isolation dependability and dedicated hydrogen penetrations.

#### Review of Relevant Lawsuit Documents

No lawsuit documents were found to be relevant to these restart items.

## 6.15 Monitoring of Accidental Releases

### Related Restart Items

Certification items 80, 83, 84, 85, 86, and 107 and long-term action II.F.1.3 of NUREG-0737 are related to monitoring of accidental releases.

### Review of Relevant Lawsuit Documents

No lawsuit documents were found to be relevant to these restart items.

## 6.16 Training Systems

### Related Restart Items

Certification items 102 and 103 relate to the acquisition of simulator systems for personnel training.

### Review of Relevant Documents

Two documents (B&W 350 and 352) were found relevant because they stated that the simulator used by GPU operators before the TMI-2 accident was incapable of simulating a PORV loss-of-coolant accident (LOCA). These documents are judged immaterial to the TMI-1 restart because the simulator currently in use, and the replica simulator currently on order, are both capable of simulating a PORV LOCA using a precalculated event. In addition, the Abnormal Transient Operating Guidelines (ATOG) Program provides substantive background material for the operators on plant behavior for a spectrum of transient and accident conditions including the PORV LOCA.

## 6.17 Pressurizer Heaters

### Related Restart Items

Certification item 109 refers to the requirement to demonstrate reactor coolant system pressure control without the pressurizer heaters.

### Review of Relevant Lawsuit Documents

No documents were identified as relevant to this certification item.

## 6.18 Additional Loss-of-Coolant Accident Analysis

### Related Restart Items

Certification item 119 refers to the requirement for cavitating venturis in the high-pressure injection (HPI) system.

### Review of Relevant Lawsuit Documents

Two documents (B&W 366 and GPU 2435) were identified as relevant to this certification item, because they recommended installing cavitating venturis in the HPI system. The documents were not judged to be material because the recommendation has already been implemented at TMI-1.



## 6.19 Equipment Qualification

### Related Restart Items

Certification items 128, 129, and 131 are all related to the staff's evaluation of equipment and system design and function in the area of equipment qualification (EQ).

### Review of Relevant Lawsuit Documents

Four lawsuit documents (B&W 313, GPU 232 and 2103, and Phinney Trial Test. on 12/14/82) were reviewed and found to be relevant to these certification items. The lawsuit documents reviewed included: (1) inspection reports on TMI-1 by the NRC's Office of Inspection and Enforcement (I&E), (2) records of meetings by B&W personnel on recommendations following the TMI-2 accident, (3) a temperature recording chart, and (4) a weekly progress report for TMI-1. The documents contained general statements about equipment qualification and presented some containment temperature data. The temperatures are not severe and are well within customary EQ limits for steam line breaks and LOCAs, and were not the likely cause of any equipment failures at TMI-2. The remaining information is not of sufficient detail to be useful in a review. Therefore, the documents were judged to be immaterial.

## 6.20 Main Steam Rupture Detection System Long-Term Solution

### Related Restart Items

Certification item 153 pertains to the long-term solution for a main steam line break (MSLB) detection system.

### Review of Relevant Lawsuit Documents

No documents were identified as relevant to the MSLB rupture detection system.

## 6.21 Subcooling Margin Instrumentation Error

### Related Restart Items

Certification item 154 pertains to subcooling margin instrumentation error.

### Review of Relevant Lawsuit Documents

No lawsuit documents were found to be relevant to the issue of ensuring that the subcooling margin instrument error does not exceed 20F°.

## 6.22 Integrated Control System Failure Mode Effects Analysis

### Related Restart Items

Long-term action II.K.2.9 of NUREG-0737 refers to the requirement that GPU perform a failure mode effects analysis (FMEA) for the integrated control system (ICS).

### Review of Relevant Lawsuit Documents

Four lawsuit documents (B&W 526, 527, and 535 and GPU 265) were found to be relevant to the ICS FMEA. These documents were considered relevant because they described the ICS, its interfaces with various systems (i.e., turbine control, steam generator control, and reactor control), and certain failure modes. These documents were considered to be immaterial because they support the staff's position that it was prudent to perform an FMEA because the ICS interfaces with various control systems and its failure could cause transients that may challenge the safety systems. In addition, B&W Exhibit 527, training material for the ICS, had been taken into consideration when reaching the conclusions of NUREG-0680. As such, these documents do not alter the conclusion or bases of NUREG-0680.

### 6.23 Postaccident Sampling

#### Related Restart Items

Certification item 83 and long-term action II.B.3 of NUREG-0737 relate to post-accident sampling.

#### Review of Relevant Lawsuit Documents

No lawsuit documents were found to be relevant to these restart items.

### 6.24 Containment Monitors

#### Related Restart Items

Long-term actions II.F.1.4, II.F.1.5, and II.F.1.6 of NUREG-0737 are related to the staff's evaluation of containment pressure, water level, and hydrogen monitors.

#### Review of Relevant Lawsuit Documents

No lawsuit documents were found to be relevant to these restart items.

### 6.25 Reactor Coolant System Vents

#### Related Restart Items

Long-term action II.B.1 of NUREG-0737 covers the installation of vents in the reactor coolant system (RCS).

#### Review of Relevant Lawsuit Documents

Six documents were identified as relevant to this TMI action plan item. These documents are identified by the section reference 6.25 in the right-hand margin of Appendix B6. These documents were not judged to be material because they provide recommendations for modifications that are being made at TMI-1 and, therefore, do not alter the staff's bases or conclusions regarding this issue.

## CATEGORY 7 - ACCIDENT ANALYSIS

### 7.0 Introduction

Category 7 compares the accident analysis aspects of the TMI-1 restart process with the GPU v. B&W lawsuit documents. The restart issues associated with Category 7 consist of 19 certification items and 5 long-term actions. A complete listing of the restart issues for Category 7 may be found in Appendix A7. The lawsuit documents that were screened into Category 7 for technical review and evaluation consist of the following documents: trial testimony - 31 documents, depositions - 70 documents, and exhibits - 383 documents. A complete listing of the documents screened into Category 7 may be found in Appendix B7. Because several of the 19 certification items and 5 long-term actions are closely related and deal with the same safety issue, some of the issues are grouped together and discussed under one heading. Thus, the staff review of Category 7 is discussed in Sections 7.1 through 7.16 of this chapter. Overall, of the 484 documents screened into Category 7, 384 documents were determined to be irrelevant, 100 documents were found to be relevant but not material to any of the restart issues. None were found to be material to any of the restart issues.

### 7.1 Emergency Feedwater System

#### Related Restart Items

Certification items 4 and 36 (Technical Specifications 3.4 and 4.9) are related to the staff's evaluation of the availability of the emergency feedwater (EFW) system as set by Technical Specification requirements.

#### Review of Relevant Lawsuit Documents

Six documents were found to be relevant to the issue of having two independent operable steam generator auxiliary feedwater flow paths, each with 100% flow capacity. These documents are identified by section reference 7.1 in the right-hand margin of Appendix B7. These documents described the EFW system. The documents were found to be immaterial to this restart issue because the information is consistent with the staff's position and does not alter the conclusions or bases of NUREG-0680.

### 7.2 Small-Break Loss-of-Coolant Accidents

#### Related Restart Items

Certification items 17, 37, and 38 relate to the analysis of small-break loss-of-coolant accidents (SBLOCA).

#### Review of Relevant Lawsuit Documents

Sixty-five documents were identified as relevant to this subject; however, all were judged to be immaterial for the reasons discussed below. These documents are identified by section reference 7.2 in the right-hand margin of Appendix B7.

Many of the documents involve the concerns raised by C. Michelson before the TMI-2 accident regarding possible loss of steam generator heat removal during an SBLOCA. Other documents describe the SBLOCA analyses, which were required by the NRC staff shortly after the TMI-2 accident for the purpose of developing SBLOCA operator guidelines. These analyses and the concerns of C. Michelson were reviewed by the staff and evaluated in NUREG-0565, "Generic Evaluation of Small-Break Loss-of-Coolant Accident Behavior in Babcock & Wilcox Designed 177-FA Operating Plants," January 1980. In addition, operator actions that are recommended by the various analyses to mitigate the consequences of SBLOCA have been implemented at TMI-1.

Testimony by R. Lahey, G. Wallis, and B. Dunn at the trial discussed limited wetting in the upper sections of the steam generators by the auxiliary feedwater. This effect was the subject of Board Notification BN-83-21 issued February 1983. The staff evaluation of limited auxiliary feedwater wetting for TMI-1 was contained in a "Followup Evaluation to Board Notification BN-83-21 for TMI-1" dated March 1983. Another issue raised by Dr. Lahey at the trial was recovery from a small break that had been isolated. This issue was first raised by C. Michelson before the TMI-2 accident. The staff evaluated C. Michelson's concern in NUREG-0565 and those of Dr. Lahey in the followup evaluation to BN-83-21.

### 7.3. Accident Understanding

#### Related Restart Items

Certification item 19 requires that the licensee review the circumstances and chronology of the TMI-2 accident.

#### Review of Relevant Lawsuit Documents

Four documents (Herbein Dep. of 01/18/82, Arnold Trial Test. of 11/15/82 and 11/16/82, and B&W 186) were found to be relevant to this subject, insofar as they indicate that, before the March 28, 1979 event, the licensee did not understand the dynamics of a SBLOCA caused by a stuck-open PORV. The documents are judged immaterial because they relate to the licensee's state of knowledge of this type of event before the accident. It is well documented that the licensee did lack this knowledge before the accident. No new material is presented in these documents that casts doubt from an accident analysis perspective on the licensee's current knowledge of such events. The staff's bases and conclusions in NUREG-0680 remain unchanged. This certification item is discussed in more detail in Section 3.1.

### 7.4. Natural Circulation

#### Related Restart Item

Certification item 30 requires development of procedures and training for establishing natural circulation.

#### Review of Relevant Lawsuit Items

No lawsuit documents were found to be relevant to developing procedures and training for establishing natural circulation.



## 7.5 Vessel Integrity

### Related Restart Items

Certification item 31 relates to vessel integrity.

### Review of Relevant Lawsuit Documents

No lawsuit documents were found to be relevant to the issue of vessel integrity.

## 7.6 PORV Setpoint

### Related Restart Items

Certification item 32 relates to establishing a PORV set point that will reduce the likelihood of PORV actuations.

### Review of Relevant Lawsuit Documents

Fifteen documents were identified as relevant to this issue because they contain analyses to support the new PORV set point. These documents are identified by section reference 7.6 in the right-hand margin of Appendix B7.

These documents were judged to be immaterial because the analyses discussed in the documents had already been reviewed by the NRC staff. The staff review is described in NUREG-0565.

## 7.7 Anticipatory Reactor Trip

### Related Restart Items

Certification item 34 relates to the tripping of the reactor on loss of main feed and/or turbine trip.

### Review of Relevant Lawsuit Documents

One lawsuit document (GPU 6) was found to be relevant to the issue pertaining to tripping of the reactor on loss of main feedwater and/or turbine trip, because it recommended such a modification. This document is considered immaterial since the information is consistent with the staff's position and does not describe any specific design methods for implementation of the anticipatory reactor trip. Therefore, the staff's conclusions and bases stated in NUREG-0680 are not altered as a result of the information in these documents.

## 7.8 Inadequate Core Cooling

### Related Restart Items

Certification items 41 and 76 and long-term action II.F.2 of NUREG-0737 are all related to instrumentation for detection of inadequate core cooling.

### Review of Relevant Lawsuit Documents

Six lawsuit documents were found to be relevant to instrumentation for detection of inadequate core cooling (ICC) because they described either the cause of ICC

or the use of the ICC instruments, including the incore thermocouples, saturation margin monitor, and reactor vessel water level measurement. These documents are identified by section reference 7.8 of Appendix B7. The subject documents were found to be immaterial to this restart item because the information is consistent with the Commission Order of August 9, 1979 and to NUREG-0737. The information in these documents does not alter the conclusions or bases of NUREG-0680.

#### 7.9 Emergency Feedwater System Automatic Initiation

##### Related Restart Items

Certification item 81 and long-term action II.E.1.2 of NUREG-0737 relate to automatic initiation of the EFW.

##### Review of Relevant Lawsuit Documents

Nine lawsuit documents were found to be relevant to automatic initiation of EFW because they either described the system, including automatic initiation, or made recommendations that the system be upgraded. These documents are identified by section reference 7.9 in the right-hand margin of Appendix B7. The subject documents were found to be immaterial to these restart items because the information is consistent with the requirement for automatic initiation of emergency feedwater and the information does not present or describe specific methods of design for the implementation of EFW automatic initiation. The information in these documents does not alter the conclusions or bases of NUREG-0680.

#### 7.10 Added Shielding and Dose Projections

##### Related Restart Items

Certification items 107 and 136 require the installation of new shield walls and the verification and documentation of a revision to the procedures for offsite dose projection, respectively.

##### Review of Relevant Lawsuit Documents

No documents were found to be relevant to these restart items.

#### 7.11 Abnormal Transient Operating Guidelines

##### Related Restart Items

Certification item 108 relates to the Abnormal Transient Operating Guidelines (ATOG) Program.

##### Review of Relevant Lawsuit Documents

Sixteen documents were identified as relevant to this issue. These documents are identified by section reference 7.11 in the right-hand margin of Appendix B7. These documents were judged to be immaterial to certification item 108 because the documents merely discuss the need for such a program to be developed. The subsequent development of the program and the participation of GPU in the program is evaluated in the staff SER for TMI-1 restart, NUREG-0680. Moreover, ATOG has

been submitted by the B&W Owners' Group and has been reviewed and found acceptable by the NRC staff. The staff SER on ATOG is expected to be issued shortly.

#### 7.12 Additional LOCA Analysis

##### Related Restart Items

Certification item 119 requires installation of cavitating venturis in high-pressure injection (HPI) lines.

##### Review of Relevant Lawsuit Documents

No documents were found to be relevant in the accident analysis category to the installation of cavitating venturis in the HPI system. However, two documents relevant to this certification item are identified in Section 6.18.

#### 7.13 Containment Flood Level Calculations

##### Related Restart Items

Certification item 130 relates to calculation of flood levels in the containment.

##### Review of Relevant Lawsuit Documents

No lawsuit documents were found to be relevant to the calculation of flood levels in the containment.

#### 7.14 Subcooling Margin Instrumentation Error

##### Related Restart Items

Certification item 154 requires that the subcooling margin instrument error does not exceed 20F°.

##### Review of Relevant Lawsuit Documents

No lawsuit documents were found to be relevant to this issue, which is to ensure that the subcooling margin instrument error does not exceed 20F°.

#### 7.15 Integrated Control System (ICS) FMEA

##### Related Restart Items

Long-term action II.K.2.9 of NUREG-0737 relates to performing a failure mode and effects analysis (FMEA) of the integrated control system.

##### Review of Relevant Lawsuit Documents

Three lawsuit documents (B&W 666 and 667 and GPU 308) were found to be relevant to the ICS FMEA issue. These documents were considered relevant because they described the ICS, its interfaces with various systems (i.e., turbine control, steam generator control and reactor control) and certain failure modes. These documents were considered to be immaterial because they support the staff's

position that it was prudent to perform a FMEA because the ICS interfaces with various control systems and its failure could cause transients that may challenge the safety systems. As such, these documents do not alter the conclusion or bases of NUREG-0580. This subject also is discussed in Section 6.22.

#### 7.16 SBLOCA Methods and Plant-Specific Analysis

##### Related Restart Items

This category includes long-term actions II.K.3.30 and II.K.3.31 of NUREG-0737.

##### Review of Relevant Lawsuit Documents

Three documents (GPU 232, 382, and 2215) were identified as relevant because they contained recommendations for improvements in SBLOCA methodology. These documents were judged immaterial because SBLOCA evaluation model improvements are required to be submitted by the licensee and evaluated by the staff under long-term action II.K.3.30. Plant-specific SBLOCA reanalysis, based on the revised model (if required), will be submitted and reviewed under long-term action II.K.3.31.



## CATEGORY 8 - RADIATION PROTECTION

### 8.0 Introduction

Category 8 compares the radiation protection aspects of the TMI-1 restart process with the GPU v. B&W lawsuit documents. The restart issues associated with Category 8 consist of 22 certification items and 2 long-term actions. A complete listing of the restart issues for Category 8 may be found in Appendix A8. The lawsuit documents that were screened into Category 8 for technical review and evaluation consist of the following documents: trial testimony - 4 documents, depositions - 17 documents, and exhibits - 64 documents. A complete listing of documents screened into Category 8 may be found in Appendix B8. The staff review of Category 8 is discussed in Sections 8.1 and 8.2 of this chapter. Overall, of the 85 documents screened into Category 8, 84 documents were determined to be irrelevant. The one relevant document was determined to be immaterial to any of the restart issues.

### 8.1 Health Physics Qualification Review

#### Related Restart Items

Certification item 68 requires a determination that the health physics program is appropriately organized and staffed with qualified individuals to ensure safe operation of the facility.

#### Review of Relevant Lawsuit Documents

One lawsuit document (Potts Dep. on 01/07/82) was found to be relevant to certification item 68. The document discussed one portion of the health physics organization in existence at TMI-1 in January 1982. The document was considered immaterial, however, because the information was obsolete and the level of detail, indicating names of individuals in the organization, is not required in the FSAR or Technical Specifications. Thus, the document has no impact on the restart evaluation, and the staff's previous conclusions and bases on this issue have not been altered.

### 8.2 Remaining Radiation Protection Restart Issues

#### Related Restart Items

Certification items 26, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 79, 80, 83, 84, 85, 86, 87, 114, 115, and 133 and long-term actions II.B.2 and II.B.3 of NUREG-0737 relate to the staff's evaluation of the radiation protection aspects of TMI-1 restart.

#### Review of Relevant Lawsuit Documents

No lawsuit documents were found to be relevant to any of the 21 certification items or 2 long-term actions identified above.

## CATEGORY 9 - EMERGENCY PLANNING

### 9.0 Introduction

Category 9 compares the emergency planning aspects of the TMI-1 restart process with the GPU v. B&W lawsuit documents. The restart issues associated with Category 9 consist of 18 certification items and 2 long-term actions. A complete listing of the restart issues for Category 9 may be found in Appendix A9. The lawsuit documents that were screened into Category 9 for technical review and evaluation consist of the following documents: trial testimony - 1 document, depositions - 7 documents, and exhibits - 71 documents. A complete listing of the documents screened into Category 9 may be found in Appendix B9. Because all of the restart issues in this category are closely related and deal with two basic safety issues, onsite and offsite emergency preparedness, the restart issues are grouped under these two headings. Thus, Category 9 is discussed in Sections 9.1 and 9.2 of this chapter. Overall, of the 79 documents screened into Category 9, 22 documents were determined to be irrelevant. Of the 57 relevant documents, none were found to be material to any of the restart issues.

### 9.1 Onsite Emergency Preparedness

#### Related Restart Items

Certification items 42 (part), 92, 93, 133-138, and 144 (part); long-term action III.A.1.2 of NUREG-0737; and part of long-term action LI-4, "Improvement to Emergency Preparedness," relate to the upgrading of onsite emergency preparedness. These items require improvements in the licensee's emergency plans, emergency response facilities, and emergency organization so that the licensee will be better able to detect and classify an emergency, develop plant corrective measures, and make prompt protective action recommendations to off-site authorities.

#### Review of Relevant Lawsuit Documents

Of the lawsuit documents reviewed, 57 were found to be relevant to the general restart issue of onsite emergency preparedness. These documents, which are identified by the section reference 9.1 in the right-hand margin of Appendix B9, can be categorized as follows:

- (1) A total of 20 documents beginning with a draft memorandum dated June 27, 1979 (B&W 694), and extending through a document dated December 15, 1980 (B&W 356), which dealt with the formation of a GPU accident review task force "to develop a full, complete assessment of the pertinent facts leading to and during the (March 28) incident." Most of the documents were interim draft versions of the final report. Although the GPU task force concentrated primarily on the operational aspects of the accident, one of the subject review areas was concerned with the implementation of the station emergency plan. The information developed by the GPU task force

and the conclusions drawn regarding inadequacies in emergency planning, in effect, support the NRC requirements that were developed as a result of the TMI accident and that required emergency preparedness to be upgraded at TMI as well as all other reactors. All of the information contained in these documents was considered in the development of the revised rule and guidance criteria for emergency planning, which formed the bases for the staff's conclusions regarding the certification item. Therefore, none of the information contained in these lawsuit documents was considered to be material.

- (2) Nine lawsuit documents consist of interviews with control room operation and station management personnel involved in the initial response to the accident. These interviews were conducted by GPU personnel shortly after the accident and were utilized in the development of the accident report by the GPU task force. While these interviews focused on plant operations, there was some reference to the emergency planning aspects of the event. This information tended to support the NRC upgraded requirements for emergency planning which formed the basis for the staff conclusions regarding this certification issue. Therefore, none of the information in these lawsuit documents was considered to be material to the restart item.
- (3) Twelve of the lawsuit documents consisted of testimony of the control room operators and station management personnel before various investigative bodies, including the NRC Office of Inspection and Enforcement, Congressional oversight hearings, the President's Commission, the Advisory Committee on Reactor Safeguards (ACRS), the NRC Special Inquiry Group, and the GPU v. B&W lawsuit trial testimony (Zewe Trial Test. of 11/19/82). With the exception of the trial testimony document, all of the other information was available to the staff during the development of the upgraded emergency planning requirements. A review of the trial testimony indicated that it did not include any previously unknown information on emergency planning. The information contained in these lawsuit documents is not considered material to this certification issue as it does not present any information that the staff was not aware of or had not previously considered in developing the staff conclusions regarding the certification item.
- (4) Three lawsuit documents (Floyd Dep. of 04/28/82, Frederick Dep. of 05/13/82, and Scheimann Dep. of 04/28/82) consisted of depositions taken of two control room operators and a member of the licensee's management. The depositions, while not specifically reviewed by the staff or available at the time of the review and evaluation of this certification issue, contained information similar to that presented in other lawsuit documents noted above and did not contain new information that would lead to the change of any staff conclusion. Thus, these lawsuit documents are considered immaterial.
- (5) Six lawsuit documents were various drafts of a paper being prepared by GPU personnel for publication by the American Nuclear Society (ANS). The subject of the paper concerned the development of technical support with regard to the TMI-2 accident. The primary thrust of the paper was technical mitigation of the accident. However, some information was presented that could be construed as applicable to onsite emergency preparedness; in particular, the development and staffing of a technical support center.

A review of the information in these documents indicated that there was nothing material in that similar information had been fully considered in the development of staff criteria on the subject, which formed the basis for the staff's conclusion regarding the certification issue.

- (6) Of the remaining lawsuit documents, there were seven which could be considered to contain some information relevant to the onsite emergency preparedness certification issues. The documents included two letters concerning a Notice of Violation for TMI-2, Chapter 13 of the TMI-2 Final Safety Analysis Report (FSAR), the final report of a B&W technical review committee, comments of a consultant on NRC documents pertaining to the TMI-2 accident, a list of specific task items based on a GPU review of an NRC investigation report, and a cover letter for a draft of a recommended emergency response plan by an Atomic Industrial Forum (AIF) subcommittee. A review of the information in these documents indicated that either the material has been previously considered by the staff or they contained information that was similar to information available to the staff from other sources. Thus, none of the lawsuit documents was considered to contain information material to the onsite emergency preparedness restart issue.

## 9.2 Offsite Emergency Preparedness

### Related Restart Items

Certification items 42 (part), 139-145 (144 in part), 149, 152, and part of long-term action LT-4 relate to the improvement of offsite emergency preparedness. These items concern offsite communications, alerting and notifying the public, public education, and improvements in certain offsite plans.

### Review of Relevant Lawsuit Documents

A review of the 79 lawsuit documents in Category 9 indicated that the emphasis of the lawsuit was primarily on plant operations and what references to emergency planning there were invariably were oriented to the onsite aspects of emergency planning. Although actions taken onsite had, of course, an effect on actions taken offsite, none of the lawsuit documents brought any relevant information to bear on the general certification issue of offsite preparedness. That is, none of the information presented in the lawsuit documents provided any information which was directly applicable to the offsite emergency preparedness certification issue. Hence, none of the lawsuit documents contained any material information affecting the staff's conclusion regarding this restart issue.



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## CATEGORY 10 - MANAGEMENT COMPETENCE/INTEGRITY

### 10.0 Introduction

By memorandum dated June 28, 1983, from the Secretary of the Commission to the Executive Director for Operations, the staff was instructed to include the subject of "management competence/integrity" within its review of the GPU v. B&W lawsuit documents. The Commission directed the Office of the Executive Legal Director to assist the technical staff in this aspect of the GPU v. B&W lawsuit document review.

Management integrity, in contrast to management competence, was not explicitly identified by the Commission in its original Order and Notice of Hearing in the TMI-1 Restart proceeding. See CLI-79-8, 10 NRC 141 (1979). Managerial capability or competence was specifically addressed in CLI-79-8 (as short-term item 6) and in CLI-80-5 (in issues 2, 3, 4, 5, 7, 10, and 11). The latter order also authorized litigation of "such other specific issues as the Board deems relevant to the resolution of the issues set forth in this order." When the Atomic Safety and Licensing Board (ASLB) issued its partial initial decision (PID) on management issues, it considered the question of integrity in a number of areas and noted that management integrity was one of the "important issues considered" by the ASLB. See 14 NRC 381, 403 (1981). The question of the relationship between certain incidents of cheating on NRC operator examinations and management integrity was later explored in the reopened proceeding on cheating before the Special Master and before the ASLB. See 15 NRC 918 (1982); 16 NRC 281 (1982).

On April 18, 1983, the staff informed the Commission that the staff was initiating actions to revalidate the staff's position on the management integrity issue because of the pendency of several matters that might bear upon the competence and integrity of TMI management. The GPU v. B&W lawsuit record review is one aspect of this revalidation process. See Memoranda, dated May 19, 1983 (May 19 Memorandum) and July 15, 1983 (July 15 Memorandum), from the Executive Director for Operations, W. J. Dircks, to the Commission. As discussed in the July 15 Memorandum, the purpose of this chapter of the present report is to identify those matters from the GPU v. B&W lawsuit record that the staff believes may raise issues concerning the management competence and integrity of GPU. Licensee's management competence (i.e., technical capability) is considered within the substantive areas covered in Categories 1 through 9. This chapter addresses the issue of competence only insofar as information reflecting on management competence also raises questions concerning, for example, possible failures to comply with regulatory requirements or failures to report known deficiencies or noncompliances. The staff's evaluation of the effect of this GPU v. B&W lawsuit review and other issues identified in the July 15 Memorandum on management competence and integrity will be discussed in a supplement to the staff's Safety Evaluation Report (NUREG-0680) after appropriate investigations have been conducted to resolve the issues raised here.

The GPU v. B&W lawsuit documents relate primarily to the causes of and responsibility for the March 28, 1979, accident at TMI-2. Since the TMI-1 Restart proceeding provides the context for the staff's review of the GPU v. B&W lawsuit

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documents, the focus of the staff's evaluation of licensee's management competence/integrity is on the management personnel who are or may be associated in any way with the operation of TMI-1. Where possible, these personnel are identified in the sections that follow.

Before proceeding to a discussion of the results of the staff's review of the GPU v. B&W lawsuit documents in the management competence/integrity area, it may be useful to understand the process by which lawsuit documents relevant to this area were identified and reviewed. As discussed in the introductory section of this report, the initial screening review was conducted to identify those documents that might raise competence/integrity issues. The reviewers looked for information relating to

- (1) the falsification or manipulation of data and records
- (2) failures to make disclosures to the NRC
- (3) failures to comply with regulatory requirements or the terms of an NRC license
- (4) possible inadequacies in management attitude toward matters such as safety, regulatory compliance, and license requirements
- (5) the integrity of individuals as shown by their conduct and truthfulness

A number of documents were identified as raising potential management competence/integrity issues. During the technical review of documents in the other nine categories, additional documents were referred to the management competence/integrity category. Finally, additional input for the management competence/integrity category was obtained through the staff's review of comments on the lawsuit documents filed by intervenors in the TMI-1 Restart proceeding and through meetings with congressional staff. The staff also held a meeting with the attorneys who had represented B&W in the lawsuit. Through these efforts, approximately 200 documents were identified as potentially raising questions of management competence/integrity.

The results of the staff's evaluation of the relevant lawsuit documents are addressed in Sections 10.1 through 10.9. Where the staff has concluded that a particular document is not relevant to management competence/integrity, that judgment is indicated by appropriate notation in the right-hand margin of Appendix B10. Documents that are considered by the staff to be relevant to management competence/integrity are discussed below and are identified in the right-hand margin of Appendix B10 by the number of the section in which they are discussed. The discussion of relevant documents which follows is organized by subject matter.

The staff notes again that the purpose of this chapter of the present report is to identify issues and to refer those issues for investigation. Where issues relating to management competence/integrity have been identified, no conclusion can or will be drawn until the results of these investigations are available.

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## 10.1 Hartman Allegations Concerning Leak Rate Tests and Other Matters

### Background

In May 1979, H. W. Hartman, Jr., a former control room operator at TMI-2, made allegations to the NRC that unidentified reactor coolant system leak rates at TMI-2 had exceeded applicable technical specification limits and that the test data concerning such leak rates had been falsified. Hartman also made other allegations concerning improper licensee activities at TMI-2, including a statement that an estimated critical position calculation was improperly generated during the course of a plant startup. These allegations are the subject of ongoing investigations by the NRC Office of Investigations (OI) and by the Department of Justice. Pursuant to an Atomic Safety and Licensing Appeal Board (ASLAB) order (ALAB-738), dated August 31, 1983, the Hartman allegations concerning falsification of leak rate test data are to be the subject of a reopened evidentiary proceeding before the ASLB.

### Issues Related to Management Integrity

The question of management knowledge of, or complicity in, the matters alleged by Hartman may be material to a determination that management currently associated with TMI-1 either possesses or does not possess the requisite character demanded of a licensee under the Atomic Energy Act and the Commission's regulations. The Hartman allegations raise potential questions concerning, among other things, willful violations of technical specifications and failure to report violations of technical specifications.

### Relevant Lawsuit Documents

Twenty-six documents reviewed by the staff are relevant to the matters raised by the Hartman allegations. These documents are identified by section reference 10.1 in the right hand-margin of Appendix B10. These documents include general information on leak rate calculation procedures (B&W 252, 255, 4025, 4026, 4027), examples of leak rate tests at TMI-2 (B&W 4066), control room logs indicating the addition of water or hydrogen to makeup tanks (B&W 903, 4023), and statements by Hartman and other control room operators concerning leak rate testing practices (B&W 1021, 5008AA; Dep. of H. Hartman, T. Illjes, B. Mehler, J. Seelinger; Trial Test. of E. Frederick). These documents have been forwarded to the OI for use in its ongoing investigation into these matters.

### Evaluation

The staff is unable to draw a conclusion regarding the significance to management integrity of the matters raised by the Hartman allegations until the OI has completed its investigation of these matters. The results of this investigation will be factored into the staff's overall position on management competence and integrity and will be addressed in a supplement to the SER.

## 10.2 Conduct of the Licensee's Internal Investigation of the TMI-2 Accident

### Background

On July 2, 1979, R. C. Arnold, who was Vice-President of Generation for GPU Service Corporation at the time, established a task force headed by R. W. Keaten



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to conduct an investigation of the March 28, 1979, accident at TMI-2. Over the next several months, the Keaten task force held meetings, conducted interviews, analyzed technical data, and prepared a report on the results of its investigation. The report went through several drafts between September 1979 and approval of the final report in December 1980. The final "Keaten report" was not provided to the NRC until November 1981. The efforts of the task force were mentioned briefly before the ASLB in the TMI-1 Restart proceeding in testimony by R. W. Keaten on issue 10 of CLI-80-5, management response to the TMI-2 accident. See Keaten and Long Test., ff. Tr. 13,242 (February 18, 1981).

#### Issues Related to Management Integrity

Management response to the TMI-2 accident was an issue raised by the Commission in the TMI-1 Restart proceeding by CLI-80-5. Among the factors examined by the ASLB in that proceeding were management attitude and the ability of management to learn from the accident and to implement appropriate corrective actions. The integrity of the licensee's internal investigation of the TMI-2 accident is considered by the staff to be material to CLI-80-5 issue 10 and to the evidence presented on that issue by the licensee.

#### Relevant Lawsuit Documents

Thirty-nine documents relevant to the Keaten Investigation were reviewed by the staff. These documents are identified by section reference 10.2 in the right-hand margin of Appendix B10. In addition to the various drafts of the Keaten task force report (B&W 347, 349, 350, 351, 352, 355, 356), these documents include memoranda establishing the task force and defining its tasks (B&W 338, 340, 345), notes of task force members (B&W 695), and technical input for the task force (B&W 374, 377, 397). In addition, the staff has obtained from GPU recordings of several interviews conducted by the task force and GPU-generated transcriptions of these interviews. Because of the relatively poor quality of these GPU transcriptions, the staff has prepared its own transcriptions of the Keaten task force interviews. (While not actually lawsuit documents, these staff-generated transcriptions have been denominated B&W 347A through 347O for the purpose of this review effort.)

A comparison of the consecutive drafts of the Keaten task force report shows that significant changes were made in the report from draft to draft. While the fact that changes occur between drafts is not surprising in itself, it is noteworthy that the report continued to undergo substantial revision even after the five members of the Keaten task force had unanimously approved the October 1979 draft and forwarded it for management review. Various documents in the lawsuit record (see, e.g., B&W 350, 351, 357; Dep. of R. W. Keaten) indicate that present upper management of GPU was involved in the process of review of and comment on the draft Keaten reports. For example, K. Arnold is indicated as a recipient of several drafts of the Keaten report. In his deposition, R. Keaten discusses a meeting he held with H. Dieckamp to discuss the revision of a Keaten report draft. Another document, B&W 357, contains a handwritten list which may connote that copies of a Keaten report draft were forwarded or were to be forwarded to, among others, W. Kuhns, H. Dieckamp, R. Arnold, P. Clark, I. Finfrock, H. Hukill, and R. Wilson.

One example of a significant change was cited by an intervenor (TMIA) in the TMI-1 Restart proceeding. In B&W 351, the task force draws a conclusion that



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"the general operational condition [of TMI-2] appears to indicate a lack of management awareness of problems, an insufficiently stringent standard by which to evaluate operations, and/or a management philosophy which accepted this situation, at least in the short run." This conclusion is generally consistent with information provided to the Keaten task force during interviews with senior plant management. See, e.g., B&W 347H, I, M, and N. The task force states its intention to further pursue the reason for these problems. In subsequent drafts, however, this conclusion undergoes substantial revision, and the final report contains no mention of any plans to further pursue this matter. Compare B&W 351 and B&W 354, 355, 356.

Another significant change in the Keaten report drafts relates to the statement in B&W 351 that the pressurizer system failure procedure requirement concerning PORV block valve closure was violated by "a conscious decision by the plant management." No draft after B&W 355 contains this statement. Similarly, the task force concluded in B&W 351 that a surveillance procedure approved by the cognizant Met-Ed review groups "clearly violates" a technical specification. No draft after B&W 352 contains this statement. All drafts before B&W 355 state that the pressurizer relief valve was known to be leaking; in and after B&W 355, the reference is changed to pressurizer safety valve. (The technical significance of this change is addressed in Section 10.4.1.)

Another document relevant to the Keaten Investigation, B&W 344, is a handwritten memorandum from one K. Lucien of Energy, Inc. to "Bob." This document appears to be a transmittal memorandum forwarding to GPUN certain technical input on the subject of the condensate polisher and its role in initiating the transient on March 28, 1979. The following statement appears in B&W 344: "Per our understanding with R. W. Keaten, please launder this to bring it into line with your perception of the forthcoming master task force report."

As indicated in Board Notification 83-117, a number of these documents relating to the Keaten Investigation have been referred to the Office of Investigations for an investigation of the facts pertinent to the conduct of the Keaten Investigation and any improper conduct in relation to the investigation and the development of the report of the investigation.

### Evaluation

The staff is unable to draw a conclusion as to the significance to management integrity of the issues raised in connection with the Keaten Investigation and reports until the OI has completed its investigation of these matters. The staff has identified for the OI the information suggesting that present upper management of GPU may be involved in the matters to be investigated. The results of that investigation will be factored into the staff's overall position on management competence and integrity in a supplement to the SER.

### 10.3 Training Program Irregularities

#### Background

The Commission's regulations contain specific requirements concerning a licensee's obligation to establish a training program for reactor operators and to maintain accurate records of the implementation of such a program. See

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e.g., 10 CFR 55. The ASLB in the TMI-1 Restart proceeding heard evidence on the subject of training and concluded that the licensee "has in place at TMI-1 a comprehensive and acceptable training program." See 14 NRC 381, 478. Several documents from the GPU v. B&W lawsuit record raise questions concerning irregularities in the licensee's conduct of the training program before the accident and in the training records it maintained during that period.

#### Issues Related to Management Integrity

The issues presented by the GPU v. B&W lawsuit records in question are (1) whether any violations of commitments made in response to regulatory requirements have occurred and (2) if so, who had knowledge of or responsibility for such violations. In the staff's view, despite the adequacy of the licensee's present training program, if there were violations of commitments made in response to regulatory requirements and failures to have reported any such violations, such information would be material to an assessment of licensee's management integrity.

#### Relevant Lawsuit Documents

The staff's review of the GPU v. B&W lawsuit record has identified nine documents discussing three incidents that raise questions concerning irregularities in the licensee's conduct of its training program before the TMI-2 accident and in the training records it maintained during that period. These documents are identified by section reference 10.3 in the right-hand margin of Appendix B10.

The first instance of a possible irregularity in the licensee training program is that addressed in Board Notifications 83-71 and 83-71A. A memorandum from T. Book to J. O'Hanlen raised the possibility that the licensee was recording more hours in its training logs than were actually spent in training (B&W 564). OI conducted interviews of T. Book and J. O'Hanlen and, on the basis of information then available, concluded that no further investigation was warranted.

Information regarding a second instance of a possible irregularity in the licensee training program was provided directly to OI by the licensee in June 1983. These documents raised the possibility that reactor operator training records had been falsified in that training in plant procedures was not performed when training records recorded that it had been performed. The investigation into this matter by OI is pending.

An April 27, 1976, memorandum from A. Tsaggaris to J. Herbein, J. Colitz, and G. Miller (B&W 886), provides a third instance in which an irregularity may have existed in the licensee's training program. The following statement appears in that document: "We are required by federal law to meet certain requirements for licensed individuals and in several cases we do not meet them." The memorandum addresses failures to comply with training requirements by off-shift licensed individuals. Information presented to the Keaten investigators and the presence of the author of B&W 886 (A. Tsaggaris) as a member of the Keaten task force further raise the possibility that management was aware of these training irregularities. J. Colitz, a recipient of B&W 886, is currently the Director of Plant Engineering at TMI-1.

Because of the apparent relationship between these training program irregularities and the Keaten Investigation and because of the earlier action by OI

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concerning the Book memorandum which was the subject of BN-83-71A, the staff has requested that OI conduct a further investigation into training program irregularities as part of the Keaten Investigation inquiry. See Board Notification 83-146.

### Evaluation

The staff is unable to draw a conclusion as to the significance to management integrity of these instances of possible training program irregularities until OI has completed its investigation of these matters. The results of this investigation will be factored into the staff's overall position on management competence and integrity and will be addressed in a supplement to the SER.

### 10.4 GPU Preaccident Knowledge of Defective Plant Conditions

The lawsuit documents contain information on certain preaccident defective plant conditions related to the design and operation of TMI-2 that may have contributed to either the onset of the accident or its severity. In some cases, the documents indicate that the licensee may have been aware of these conditions before the accident. The specific circumstances that have raised concern are discussed separately in the following sections as they relate to issues of management competence and integrity.

#### 10.4.1 Elevated Tailpipe Temperature and Leaking PORV or Safety Relief Valves

### Background

One of the defective conditions that existed at TMI-2 before the accident was leakage from the pressurizer to the drain tank either through the power-operated relief valve (PORV) or the code safety relief valves. The question of whether the licensee believed the leakage was a result of a defective PORV or a defective safety valve was argued during the trial as it related to the appropriateness of the licensee's response to the leakage. After the accident, the licensee paid a civil penalty of \$155,000, based in part on not having followed procedures that call for closing the PORV block valve when the PORV tailpipe temperature exceeded 130°F. The lawsuit documents provide evidence that different views on the source of the leakage and reasons for not closing the PORV block valve were stated by various individuals and groups within the licensee's organization at different times both before and after the accident. These changing and differing positions within the licensee's organization and the possible motives for the inconsistencies were evaluated as a part of the staff's review of the specific management competence/integrity issues discussed below.

### Issues Related to Management Integrity

The staff's review of these documents is concerned with the following issues:

- (1) whether the licensee perceived that there were serious consequences in terms of its ability to continue operation of the plant if (a) the PORV block valve was to be closed and could not be reopened or (b) if the pressurizer leakage was determined to be through the code safety valves rather than through the PORV, and if so, whether such a perception could



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have provided an improper motivation for violating Emergency Procedure 2202-1.5, "Pressurizer System Failure," by not closing the block valve

- (2) whether any false information was provided in the licensee's December 5, 1979, response to the NRC notice of violation, dated October 25, 1979, concerning its failure to follow procedures in light of the fact that the Keaten Investigation (see Section 10.2 above) draft reports being circulated internally to upper management at that time contained information in conflict with the licensee's response to the notice of violation

#### Relevant Lawsuit Documents

Forty-eight lawsuit documents were found to be relevant to the above issues. These documents are identified by section reference 10.4.1 in the right-hand margin of Appendix B10. The documents are primarily statements by various individuals concerning: (1) their understanding of the Technical Specification requirements related to identified and unidentified leakage rates; and (2) the requirements of Emergency Procedure 2202-1.5 and the effect of closing the PORV block valve on continued operation of the plant. The documents also include formal reports or submittals to the NRC concerning the source of the leakage from the pressurizer and the role played by the elevated tailpipe temperatures in the diagnosis of the source of leakage.

#### Evaluation

The first issue revolves around the question of motive. Specifically, could the licensee's understanding of the plant Technical Specifications or other operating considerations have led to willful violation of plant emergency procedures in order to continue operation of the plant?

Several of the lawsuit documents provided specific information about the licensee's understanding of the Technical Specifications and required actions in response to leakage from the PORV or safety valves. In his deposition, Shift Supervisor W. Zewe stated that his understanding was that operational restrictions (*i.e.*, Technical Specifications) were the same for leakage from either the PORV or the safety valves. See Zewe at Dep. Tr. 201-216. W. Zewe's understanding is consistent with that of other licensee personnel as revealed in the lawsuit documents and is in fact correct. The TMI-2 Technical Specifications did not make any distinction between leakage limits for the PORV or safety valves. The limit was the same, 10 gpm for identified leakage, regardless of the source, and leakage from the pressurizer to the drain tank through either the PORV or a safety valve was considered identified leakage. Therefore, on the question of the licensee's understanding of Technical Specification requirements, the staff concludes that the lawsuit documents do not support an inference that the licensee was improperly motivated to violate Emergency Procedure 2202-1.5 by a desire to avoid a plant shutdown, which might have been required by the Technical Specifications.

On the question of concern that, once closed, the PORV block valve might not reopen with a consequent adverse effect on continued plant operation, the lawsuit documents present a somewhat different picture. W. Zewe stated in his deposition (W. Zewe at Dep. Tr. 225) that if the block valve stuck shut and could not be opened manually, plant shutdown would occur. The significance of this statement is ambiguous because he did not say shutdown would be required,



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only that it would occur. Other licensee personnel were also concerned about the possibility of the block valve sticking shut. Statements by K. Bryan and H. Bailey to that effect during an interview with the Keaten task force (B&W 3470 at 20) are typical of statements found throughout the lawsuit documents. When asked how he came to understand that he did not have to close the block valve on the basis of high tailpipe temperature alone, W. Zewe replied that the Supervisor of Operations gave him that impression and he further said he assumed others in management shared a similar view or at least had knowledge of his understanding and agreed. See Zewe at Dep. Tr. 235. W. Zewe later stated in trial testimony (Zewe at trial Tr. 3160-3161) that "all of upper management" was involved in daily decisions regarding whether or not to close the PORV block valve and was considering the effect of leakage on continued operation of the plant.

Management knowledge that the block valve was not being closed as called for by the procedures was confirmed by statements to that effect by the Station Superintendent, G. Miller, at a meeting on May 25, 1979, with I. Porter, J. Seelinger, M. Ross, and W. Zewe. See B&W 761 at 10.

Although none of these statements provide conclusive evidence that management concern over the possibility that the block valve might stick shut provided the motive for not closing the block valve, they do raise questions about management's attitude toward willful violation of duly established procedures. These questions can only be answered by further inquiry into the matter.

The staff also finds the need for further inquiry with regard to the second issue--whether any false information was provided in the licensee's December 5, 1979, response to the NRC notice of violation. The licensee stated in its response that there is "no indication that this procedure or the history of PORV discharge line temperatures delayed recognition that the PORV had stuck open during the course of the accident." The lawsuit documents call into question the validity of this statement.

W. Zewe during the trial stated that "we" were not alarmed by temperatures of 185, 190, 193, or 194°F, "because it had run at that temperature for that period of time and we were concerned with the amount of leakage." See Zewe at Trial Tr. 3170. Significantly, both before and after the licensee filed its December 5, 1979, response, the Keaten Investigation was providing evidence that the "operators may have in fact become 'desensitized' to abnormal conditions, due to previous experiences . . . . Leaking pressurizer relief valves produced high discharge pipe temperatures before the event." See B&W 350 at 13. The final report of the Keaten Investigation (B&W 356 at 17) contains the statement that "the net result was that the temperature readings were interpreted as being caused by the earlier leakage followed by the momentary opening of the PORV," even though a statement about operator "desensitization" that had appeared in earlier drafts had been removed. There is indication in the lawsuit record that upper management was aware of much of this information when the response to the notice of violation was filed bearing the signature of R. Arnold. See Keaten at Dep. Tr. 657-666.

Another question that has been raised with regard to the response to the notice of violation is that it, at least, implies that the reason the block valve was not closed was that the plant staff believed the leakage was through a safety valve rather than through the PORV. This is in conflict with a conversation

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between G. Miller, W. Zewe, I. Porter, J. Seelinger, and M. Ross, all members of the plant staff, during which they said that they were operating the plant with the PORV leaking and the block valve still open. See B&W 761 at 10. The Keaten Investigation referred to above also provided several indications that at least some members of the plant staff believed that the PORV was leaking.

In summary, on the basis of its review of the relevant lawsuit documents, the staff has concluded that they do raise questions about the licensee's motive for not closing the PORV block valve and the accuracy of the licensee's December 5, 1979, response to the NRC notice of violation regarding PORV leakage. These questions require further inquiry before any definitive conclusions can be drawn. The questions and the issues they relate to have been referred to OI for inclusion in its overall inquiry into the Keaten Investigation discussed in Section 10.2 of this report and will be addressed in the staff's SER supplement on management competence and integrity.

#### 10.4.2 PORV Position Indication

##### Background

One of the major contributors to the severity of the TMI-2 accident was the operators' failure to recognize that the PORV had not reclosed after opening as a result of the loss of main feedwater. It was the stuck-open PORV that caused the reactor depressurization and the formation of voids in the system which, together with termination of the HPI, ultimately resulted in fuel damage. B&W claimed that one reason the operators failed to recognize that the PORV was stuck open was that the valve position indication system was poorly designed in that it did not provide a direct indication of valve position but instead relied on monitoring the control signal as an indirect indication of valve position. B&W presented evidence to show that the limitations of the system, as designed, were known by the licensee's operating and engineering staff and argued that the licensee was negligent in not modifying the system to provide a more direct form of position indication.

##### Issues Related to Management Integrity

The question of interest in evaluating licensee's management integrity is whether the licensee's decision to rely on an indirect valve position indication system reflects an improper attitude on the part of management toward safety.

##### Relevant Lawsuit Documents

Fifteen documents were found to be relevant to the above issue. These documents are identified by section reference 10.4.3 in the right-hand margin of Appendix B10. The documents are primarily statements by individuals concerning details of the design of the PORV position indication system and whether they were aware that the system did not provide a positive indication of valve position. A small number of the documents were technical drawings and specifications.

##### Evaluation

The lawsuit documents show that there was general agreement within the licensee's operating and engineering staff that some form of position indication was needed for the PORV and that plant management supported the idea. See Arnold at Dep.

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Tr. 13. The need for the position indication was identified as part of the licensee's followup analysis and review of two preaccident transients involving problems with the operation of the PORV. Up until that time there had not been a position indication light in the TMI-2 control room for the PORV.

The record shows that various individuals, including plant level and corporate engineering level management, had discussed or proposed various types of position indication designs, some of which provided more direct indication than others. See Noll at Dep. Tr. 91-96; B&W 189; Floyd at Dep. Tr. 337-341; Sieglitz at Trial Tr. 5801. Overall, the documents reviewed by the staff present a picture of decisionmaking on the part of the licensee which reflected the state-of-the-art in electromatic relief valve position indication and common practice in the industry at that time. In hindsight, however, there is general recognition by the licensee that a more positive system of position indication is needed, and such a system has been installed at Unit 1.

With regard to the role of management in the design of the system that was installed at Unit 2, no indication of an improper attitude was found. Upper management at the corporate level was generally aware of the proposal to install a position indicator in the control room, but appears not to have been aware of the alternatives being discussed at the plant management and corporate engineering levels. See Herbein at Dep. Tr. 236-254; Arnold at Dep. Tr. 131-142. It does not appear that upper management played an active role in the decision process.

In summary, the staff concludes that the lawsuit documents reviewed do not show any improper management attitude in the design of the PORV position indication installed in the plant at the time of the accident.

## 10.5 Cheating and Requalification Certification Irregularities

### Background

As a part of the TMI-1 Restart proceeding, the Special Master and the ASLB received evidence on the subject of operator cheating on an April 1981 NRC licensing examination, of certain incidents of cheating on company-administered operator examinations, and of an incident in which an individual (designated VV) was certified by the licensee as having satisfied the requirements for requalification when those requirements had not been satisfied. The ASLB concluded that the licensee: (1) had acted negligently with respect to the administration of operator examinations; and (2) had made material false statements or omissions to the NRC in connection with the improper certification of eligibility for recertification of VV. On July 22, 1983, the Commission approved the issuance of a notice of violation in connection with this incident of improper certification and proposed a fine of \$140,000.

### Issues Related to Management Integrity

The question of a licensee's candor and truthfulness in communications with the NRC is considered by the staff to be material to an evaluation of management integrity.



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### Relevant Lawsuit Documents

Eleven lawsuit documents were found to be relevant to the subject of cheating and requalification certification irregularities. These documents are identified by section reference 10.5 in the right-hand margin of Appendix B10.

Only a limited amount of information on cheating and the VV requalification certification incident was received as evidence in the GPU v. B&W lawsuit. The relevance of such information to the lawsuit was limited to: (1) attempting to impeach the credibility of GPU witnesses R. Arnold and J. Herbein (see, e.g., discussion of court and counsel at Tr. 1732, 1738, and 7127-28); and (2) attempting to demonstrate that GPU's training program was of poor quality (see, e.g., discussion of court and counsel at Tr. 1733 and 7136).

The lawsuit documents relevant to cheating and requalification certification irregularities include the GPU letter improperly certifying VV for requalification (B&W 796), a memorandum reflecting earlier training difficulties of VV (GPU 2278), a draft of the memorandum stating GPU's action in disciplining VV (B&W 845) and the Special Master's Report on cheating (GPU 2334). In addition, the depositions of R. Arnold, J. Herbein, J. Floyd, M. Beers, and R. Zechman and the trial testimony of R. Arnold and J. Herbein address cheating and the VV requalification certification episode. The information in these documents relates to discovery of the VV incident, the disciplinary action taken by GPU, GPU's disclosure of this matter to the NRC and the assessment by various GPU officials that the incident reflected "poor judgment" by VV rather than "cheating."

### Evaluation

The lawsuit documents reviewed do not provide any significant information which was not considered by the Special Master and the ASLB. For this reason, the staff does not find it necessary to request that any further inquiry be conducted. The staff's overall position on management competence and integrity will take into account the evidence that exists on cheating and the VV requalification certification incident.

## 10.6 GPU Knowledge of Prior Transients and Precursors

### Background

Before the TMI-2 accident the licensee had developed and implemented a program pursuant to its commitment in the Final Safety Analysis Report (FSAR), to monitor operating experience at Three Mile Island and other operating reactor facilities (B&W 778). The purpose of the program was to identify potential safety concerns and incorporate appropriate changes to operating procedures and operator training programs.

The cause of the TMI-2 accident was related, in part, to the operator training program which expressly forbade operations with the pressurizer solid. The control room operators were inexperienced in addressing the plant conditions that included a rising pressurizer level coincident with the decreasing reactor coolant system pressure.



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B&W argued that the licensee was or should have been aware of the above described pressurizer level phenomena and failed to convey this information to the plant operators. Precursor events that had occurred at Three Mile Island and other B&W facilities included (1) overcooling of the primary system, (2) stuck open PORV, (3) flashing of the primary coolant system in the hot legs and the upper vessel head, (4) loss of pressurizer level, and (5) increasing pressurizer level coincident with a decreasing reactor coolant system pressure.

#### Issues Related to Management Integrity

The following questions are raised by the lawsuit documents as they relate to GPU knowledge of prior transients and precursors:

- (1) whether GPU was in violation of its FSAR commitment to monitor operating experience; and
- (2) whether GPU's analyses of prior events at TMI provided evidence of noncompliances that were not reported to the NRC.

#### Relevant Lawsuit Documents

Section 3.2 of this report, entitled, "Plant Transient Analysis," identified over 200 documents that were relevant to precursor events at both TMI and other B&W operating facilities. Certification item 20, which was addressed in Section 3.2, was limited in its scope to precursor items related to TMI-1. However, the majority of the documents, particularly the precursor events of significance, occurred at facilities other than TMI-1.

This section deals with the licensee's handling and knowledge of precursors and operating experience at both TMI and other B&W operating facilities. The questions of (1) the licensee's overall approach to operating experience, (2) the licensee's knowledge of prior precursor events at TMI-2 and Davis-Besse, and (3) the licensee's follow-through to recommendations and findings made by its own staff in review of operating experience are addressed below.

#### (1) Overall Approach to Operating Experience

The licensee had an obligation to evaluate operating experience at its own and other operating reactor facilities (B&W 778). A commitment in the Final Safety Analysis Report to review Nuclear Power Experience, an NRC publication of recent, significant operating events, and other sources of information was made by the licensee. In addition the licensee developed and implemented means of gathering operating experience and conveying it to the plant operators. Licensee Event Reports generated at the TMI facility would be exchanged between the two units and additional copies would be forwarded to higher levels of management (O'Hanlen Testimony at Tr. 1106). The TMI-2 training program was modified in April of 1977 to include experience from both Unit 1 and other similar B&W operating facilities (B&W 72, 73).

Other means that were available to the licensee to gather information about incidents at other nuclear facilities included (1) Current Events, Power Reactors (from NRC); (2) Federal Digest; (3) Clearing House Weekly summaries of NRC dockets, (4) operating experience publications by NRC, (5) personal contact with other plants, (6) NRC Bulletins, Circulars, and Information Notices,

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and (7) participation in the TMI and Oyster Creek General Office Review Board meetings (B&W 74).

(2) Knowledge of Prior Transients at TMI-2 and Davis-Besse

Information of the September 24, 1977, Davis-Besse event was available to the licensee although it appears that the significance was never fully understood by the licensee before the accident. In B&W 247 the licensee presents the available sources of information that it had received regarding the Davis-Besse event. This document states that (1) the I&E inspection report regarding the Davis-Besse event was never forwarded to the licensee before the accident and (2) although some mention of the Davis-Besse event was included in the information available to the licensee, the lack of a prioritization or interpretation scheme contributed to the licensee's inability to recognize the significance from one or more of the documents that are presented to all licensees. Although R. C. Arnold of GPU/Met-Ed told the Kemeny Commission in the above exhibit that the significance of the Davis-Besse event was not recognized, it is clear from other documentation that GPU/Met-Ed realized this was not an insignificant event. B&W 384 discussed two telephone calls from GPU/Met-Ed to Toledo Edison in November, 1978, regarding the September 24, 1977, Davis-Besse event. In these telephone calls GPU/Met-Ed and Toledo Edison discussed the facts that (1) the PORV stuck open, (2) a rapid cooldown of the primary coolant resulted in a loss of pressurizer level indication, and (3) analyses were required by the NRC.

There were several other events related to the accident that occurred at TMI-2 before the accident that included pressurizer level instabilities and flashing of the reactor coolant system outside of the pressurizer. These precursor events all exhibited some of the same phenomena that occurred during the TMI-2 accident.

The first significant precursor event at TMI-2 was the hot functional testing event of September 1977. Testing before fuel loading was being performed with primary coolant at 460 psig and 150°F. A reactor trip occurred on September 6 as a result of a resin intrusion and subsequent loss of essential component cooling water. Because of the lack of fuel in the core and the fact that not all support systems were operable, the operators allowed the system to cool to ambient temperature. By September 8, plant operators decided to vent the pressurizer in order to reduce the system pressure and temperature. During this process saturated conditions were reached in the primary system. Pressurizer level was observed to rise when pressure decreased. Operators on the scene assumed that voiding had occurred in either one or both hot legs. Although an unusual pressurizer level response was identified in one of the operators' log books, no further evaluations were pursued (B&W 836, 837, 838).

The second event of significance was on March 29, 1978, when 120 V ac vital bus 2-IV became de-energized. This action caused the 1A and 2A reactor coolant pumps to trip, thus tripping the reactor. In addition, the electrical failure caused the PORV to fail open resulting in a depressurization which initiated an automatic actuation of high pressure injection. Within 5 minutes power was restored and the PORV closed (B&W 180, 181, 184). It is apparent that there was no evaluation or followup report of this event. The lack of any licensee response to this event was discussed by G. Broughton at Dep. Tr. 135.

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An event that received major attention from the licensee was the overcooling event of April 23, 1978. A reactor trip initiated by a noise spike in the nuclear instrumentation resulted in an excessive cooldown when main steam safety valves failed to properly reseal. The cooldown led to an automatic actuation of high pressure injection and voiding in the primary coolant system outside the pressurizer (B&W 186). Subsequent investigation by GPU Service Corporation identified that voiding in the reactor vessel head kept the pressurizer level up and that pressurizer level and reactor coolant system pressure were trending in opposite directions (Broughton at Dep. Tr. 205).

The overcooling event of April 23, 1978, resulted in the violation of the following Technical Specifications (B&W 186).

- (1) RCS cooldown limit of 100°F in any 1 hour was exceeded (actual 134°F) - T.S.3.4.9.1.
- (2) Pressurizer cooldown limit of 100°F in any 1 hour was exceeded (actual 134°F) - T.S.3.4.9.2.
- (3) Pressurizer was emptied and consequently was below the Technical Specification limits - T.S.3.4.4.
- (4) Transient chloride limit of the RCS was exceeded in that the high pressure injection system pumped sodium hydroxide into the RCS and there is inherent chloride contamination in the sodium hydroxide - T.S.3.4.7.

The licensee formally notified the staff of these violations in an April 24, 1978, telegram to Region I. LER 78-033 accompanied this telegram. The results of followup review of the cooldown rates and the reactor coolant system water chemistry concerns are found in I&E Inspection Report 78-17.

The final TMI-2 precursor event of significance was the November 7, 1978, partial loss of feedwater event. The reactor trip was accompanied by an excessive cooldown rate and an automatic actuation of high pressure injection. During this transient and reactor coolant shrink, pressurizer level decreased to a low point off the scale (B&W 193, 194). Analyses of this event by GPU Service Corporation revealed that the PORV opened twice before the reactor trip. Evaluation of the reactimeter data showed that during both openings of the PORV, pressurizer level was increasing while primary coolant system pressure was decreasing (Broughton at Dep. Tr. 221).

### (3) Licensee's Followup on Its own Recommendations and Findings

A number of recommendations and findings were made by the GPU/Met-Ed staff as a result of their evaluation of operating experience. However, it is not clear what the effects would have been had all the recommendations been pursued. For example, the following are areas that the licensee was aware of.

- (a) The GPU task force to investigate the April 23, 1978, overcooling event recognized the importance of informing control room operators when safety valves open and reseal. Their recommendation #3 (B&W 186 at 4) was:  
"Install a means of monitoring when safety valves lift and if practical, when they reseal."

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- (b) Once the accident sequence began, the control room operators were besieged with alarms. Most of the alarms were insignificant. Since there was no prioritization of the alarms, the operators found them to be of little assistance. Control room operator E. Frederick forwarded this recommendation to the task force evaluating the April 23, 1978, event: "The alarm system in the control room is so poorly designed that it contributes little in analysis of a casualty. The other operators and myself have several suggestions on how to improve our alarm system - perhaps we can discuss this sometime - preferably before the system as it is causes severe problems." See B&W 264.
- (c) The G. Broughton deposition revealed that information was available from the GPU Service Corporation study to determine that pressurizer level and reactor coolant system pressure were trending in opposite directions during both the April 23, 1978, and the November 7, 1978, event (Dep. Tr. 205 and 221, respectively). However, despite having this information on paper, it is apparent that the licensee failed to recognize its significance.
- (d) The hot functional testing of September 1977 resulted in voiding in the primary system and an unstable pressurizer level. The cause of the voiding and pressurizer response was not investigated until after the accident at TMI-2. The fact that a bubble was drawn outside the pressurizer was not reported to the NRC because it was considered an operational rather than a design problem. See B&W 837 at 10.
- (e) During the J. O'Hanlen testimony it was revealed that B&W had proposed a program in July 1977 that would involve sending copies of all field change requests from other facilities to Met-Ed for its information and use. In September of 1978, M. R. Dendler of Met-Ed informed B&W that they were not interested in such a program (B&W 4002).
- (f) B&W 74 is a June 15, 1978, letter from the General Office Review Board (GORB) that discusses how improvements can be made in the acquisition and use of operating experience from other plants. One of the possible solutions discussed is the creation of a group whose specific function would be to filter through the reports of operating experience and forward the significant information to the appropriate people. The GORB letter subsequently dismisses this idea by concluding:

A formally organized program to pre-review and filter the incoming information and subsequently forward it to the appropriate parties would consume more manpower than would be cost effective.

### Evaluation

Several precursor events occurred before the TMI-2 accident that contained elements similar to those found in the TMI-2 sequence of events. Information from these events, some of which occurred at TMI-2, was available to the licensee before the accident. However, it is apparent that the licensee failed to recognize the significance of these events.

The staff does not believe that licensee's failure to recognize the significance of these prior transients and precursors would support a conclusion that GPU was in violation of its FSAR commitment to monitor operating experience.



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GPU had a system for monitoring operating experience, although it is apparent in retrospect that deficiencies existed in the implementation of that system. As to the second issue stated above in relation to management integrity, the lawsuit documents reviewed in this area do not provide evidence that GPU was aware of noncompliances which it then failed to report to the NRC. Licensee's methods of handling operating experience and precursor events in the future has been reviewed and approved by the staff in NUREG-0680. This is discussed as certification item 150 in Category 3.

#### 10.7 GPU Knowledge Concerning the TMI-2 Accident Sequence

##### Background

One of the issues on which evidence was presented during the GPU v. B&W trial was whether a manual full-flow high-pressure injection (HPI) actuation occurred at 0541 on March 28, 1979. GPU's official chronology of the accident sequence contains a manual HPI actuation at 0541. However, chronologies compiled by the NRC and other investigations do not include this item. At the GPU v. B&W trial, GPU reversed its position and argued that no manual HPI actuation had occurred at 0541.

The significance of the 0541 HPI actuation in the GPU v. B&W trial was twofold. If the court found that the control room operators had manually turned on the HPI at 0541 (as GPU had originally stated), then B&W was in a position to argue that, contrary to GPU's assertions, there had been early recognition by the operators that HPI actuation was the correct response to the events taking place. Subsequent termination of HPI, B&W could then argue, was the proximate cause of the damage that followed and the responsibility for that damage was entirely GPU's. On the other hand, if the court found that the control room operators had not turned on the HPI at 0541, despite their earlier insistence that they had, then the credibility of these individuals would be called into question. As a result, B&W would be able to argue that the testimony of these individuals on other matters such as the adequacy of operator training and accident response should be accorded less weight.

##### Issues Related to Management Integrity

The reversal of position by GPU on the HPI actuation issue raises the following questions which relate to the integrity of the licensee's management or other personnel:

- (1) whether the control room operators who had made previous statements concerning the 0541 HPI actuation had misrepresented the facts either when they originally said that such an actuation occurred or when they later said that such an actuation had not occurred
- (2) if the latter, whether any improper influence was brought to bear on the control room operators in connection with their testimony at trial
- (3) whether licensee's reversal of position concerning an actuation of HPI at 0541 was improperly motivated by financial considerations arising from the GPU v. B&W lawsuit
- (4) whether the licensee had an obligation to report and failed to report to the NRC the modification in its chronology of the accident sequence

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### Review of Relevant Lawsuit Documents

Sixteen documents relating to the 0541 HPI actuation question were identified as relevant to management competence and integrity. These documents are identified by section reference 10.7 in the right-hand margin of Appendix B10.

A detailed discussion of the evidence available in the GPU v. B&W lawsuit record on the 0541 HPI actuation issue is presented in Section 3.1 of this report. The staff concludes in that section that the issue of whether or not HPI was actuated at 0541 cannot be answered definitively on the basis of the information available and that resolution of the issue is not significant to resolution of certification item 19. An answer to this issue would be significant, however, to a resolution of the four questions posed above in relation to management integrity. The staff is in the process of conducting a technical analysis of the information available on the subject of a 0541 HPI actuation on March 28, 1979. In addition, at the direction of the Commission, the Office of Investigations is conducting an inquiry into the existence and identity of the so-called "mystery man" responsible for terminating the HPI injection which may have occurred at or around 0541. These efforts may provide information material to the resolution of the four questions posed regarding integrity.

### Evaluation

The staff will await the completion of its technical analysis and of the investigation into this matter by the Office of Investigations before attempting to evaluate the significance to management integrity of the questions raised by the information concerning the licensee's knowledge of the TMI-2 accident sequence. The results of these efforts will be factored into the staff's overall position on management competence and integrity and will be addressed in a supplemental report.

## 10.8 Violations of Technical Specifications or Other Requirements

### Background

Investigations following the TMI-2 accident resulted in the assessment of fines against the licensee for several items of noncompliance with regulatory requirements. Notices of violation were issued by the NRC on October 25, 1979, July 11, 1980, and July 22, 1983.

The October 25, 1979, Notice of Violation contained nine categories of non-compliances. After consideration of the licensee's response to the Notice of Violation, three items were determined not to be noncompliances. A fine in the amount of \$155,000 was paid by the licensee for the remaining violations. The July 11, 1980, Notice of Violation was based on the staff's investigation into the adequacy of information flow on the day of the accident (NUREG-0.50). No fine was levied in connection with these violations. The July 22, 1983, Notice of Violation was based on the licensee's actions in connection with the certification of VV for operator qualification.

A number of these violations were addressed in the GPU v. B&W lawsuit. B&W used the violations as evidence of improper conduct by GPU which related directly to the cause and consequences of the accident. The attorneys for

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both parties agreed that the NRC notices of violation were admissible for that purpose.

### Issues Related to Management Integrity

Violations of regulatory requirements, including requirements that appropriate reports of violations be made to the NRC, are material to an assessment of a licensee's competence and integrity. The issue presented by the staff's review of the lawsuit documents is whether these documents contain new information concerning violations of regulatory requirements by the licensee.

### Relevant Lawsuit Documents

Twelve documents were identified as relevant to possible violations of Technical Specifications or other requirements. These documents are identified by section reference 10.8 in the right-hand margin of Appendix B10. As discussed below, most of these documents relate to violations for which the licensee had already been cited. Others contain information not related to NRC enforcement action.

### Evaluation

Several documents in the lawsuit record relate to the October 25, 1979, Notice of Violation. These include the Notice of Violation itself or excerpts from it (B&W 707, 4015, and 4027; GPU 2317), the NRC letter that answers GPU's response to the Notice of Violation (B&W 833), and a Keaten task force interview discussing one of the violations for which GPU was cited (B&W 425 at 1693 and 1417; B&W 347L at 59 and 347M at 1). These documents contain no new information concerning the violations for which the licensee has already been cited.

B&W 186 is a technical data report analyzing the April 23, 1978, transient at TMI-2. This report lists four technical specifications that were violated during this event. See G. Broughton at Dep. Tr. 130-52; R. Arnold at Dep. Tr. 180-205. As discussed in Section 10.6, these violations were reported to the NRC by the licensee in the LER submitted on this event or in other correspondence with the NRC. This information is not new and does not raise an issue of failure to report violations.

Two other documents were identified as potentially related to Technical Specification violations. B&W 833 is a response by GPU to an NRC request for information concerning GPU's program for compliance with license obligations concerning the acquisition of information on operating experience. There is no indication in this document of a violation of license requirements. B&W 347E, a Keaten task force interview with operator C. Faust, discusses leakage of 5 gallons per minute from one or more of three pressurizer valves. As discussed in Section 10.4.1, this would be considered identified leakage under TMI-2's Technical Specifications and is within the 10 gallon per minute limit for identified leakage. This does not constitute new information of a violation of regulatory requirements.

In sum, the documents identified by the staff's review as relating to potential violations of Technical Specification or other regulatory requirements contain no significant new information concerning such violations. As discussed in Section 10.4.1, certain questions that remain concerning the circumstances of the

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licensee's violation of Emergency Procedure 2202-1.5, "Pressurizer System Failure," are being pursued as part of the ongoing investigation of the Keaten task force investigation. The circumstances surrounding the licensee's violation of Technical Specification 3/4.4.6, "Reactor Coolant System Leakage," are closely related to the Hartman allegations discussed in Section 10.1 concerning leak rate calculations. The investigation of those allegations may shed additional light on the Technical Specification violation. To the extent the results of these investigations provide additional information relevant to violation of Technical Specifications or other regulatory requirements, those results will be discussed in the staff's supplemental SER on management competence and integrity.

## 10.9 Financial/Technical Interface

### Background

One of the restart issues posed by the Commission, CLI-80-5 issue (6), was "whether the relationship between Metropolitan Edison's corporate finance and technical departments is such as to prevent financial considerations from having an improper impact upon technical decisions." The ASLB concluded after hearing evidence on this issue that "the licensee's organizational framework and its practice of committing substantial resources to its nuclear business provides reasonable assurance that the relationship between its corporate finance and technical departments is such as to prevent financial considerations from having an improper impact upon technical decisions." See 14 NRC 381, 518 (1981). This conclusion was consistent with staff testimony that there was no indication of undue influence of financial considerations on TMI operation before the accident. See NUREG-0680, Supp. 1, at 26. The ASLB also heard evidence on the relationship between proposed budget cuts in the maintenance area at TMI-1 and management attitude toward safety, ultimately finding in the licensee's favor on this issue. See 14 NRC 381, 493-94 (1981).

### Issues Related to Management Integrity

The relationship between financial and technical decisions may be material to management's attitude toward safety. The relevant question, as the ASLB recognized, is whether a licensee prevents "financial considerations from having an improper impact upon technical decisions." See 14 NRC 381, 518 (1981).

### Relevant Lawsuit Documents

Nineteen lawsuit documents were found to be relevant to the subject of financial/technical interface. These documents are identified by section reference 10.9 in the right-hand margin of Appendix B10.

Several of the relevant documents are transcripts of interviews conducted by the Keaten task force in connection with its investigation into the TMI-2 accident. In the course of these interviews, statements were made by several individuals involved in plant management concerning the impact of budget decisions on plant operation. For example, J. Logan stated in B&W 347H (at 61-64) that budget reductions were having an impact on preventive maintenance at TMI-2 and that maintenance was "seriously understaffed." The same point was made very strongly by Station Superintendent G. Miller in B&W 347M (at 9, 19-20). G. Kunder and J. Logan told the Keaten task force that the pace of TMI-2's startup was "too



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fast for the resources that we had available" (B&W 347M at 14) and that "we were trying to finish construction" (B&W 347I at 3) even during startup. G. Kunder, discussing "the pressures to start the plant up," asserted, "I wouldn't operate the plant, knowing what I know now." See B&W 347M at 25-26. GPU Service Corporation and its Vice-President of Generation, R. Arnold, had the responsibility for TMI-2 plant construction and startup, turning the plant over to Met-Ed when commercial operation began. See generally Arnold at Dep. Tr. 176-80.

A specific example of this situation, a technical decision being influenced by nontechnical considerations, appears to be provided by the licensee's actions with respect to the condensate polisher. Before the accident there was a history of problems associated with the condensate polisher system at TMI-2. These problems had resulted in loss-of-main-feedwater transients similar to the event that initiated the TMI-2 accident. B&W presented evidence at the trial which showed that members of the plant staff were aware of the problems and, as a result, had recommended, among other things, that an automatic bypass be installed around the polishers. B&W sought to show that the licensee's management was aware of this recommendation and was negligent in not following up on it. B&W maintained that had the bypass been installed, the transient that initiated the accident never would have occurred. In its review of the lawsuit record, the staff sought to determine whether financial considerations could have unduly influenced the decision not to install the bypass.

The lawsuit documents leave no doubt that plant operating personnel were concerned about problems with the condensate polisher system and that they had discussed the problems with management at the site before the accident. Discussing the occurrence of reactor trips and loss of main feedwater as a result of the lack of an automatic bypass in the condensate polisher at TMI-2, Shift Supervisor W. Zewe stated in a May 15, 1978, note to J. Seelinger, at that time Superintendent Technical Support, "It's time to really do something on this problem before a very serious accident occurs" (B&W 166). He further stated, in an interview with the Keaten Investigation team (see B&W 347A at 11), that the recommendation to install an automatic bypass around the polishers had been documented at least in writing up to the "superintendent" level. Operator H. Hartman also said that he and others mentioned the need for a condensate polisher bypass to shift supervisor B. Smith. See Hartman at Trial Tr. 7016. Finally, a memorandum from a group titled the "Accident Assessment Group TMI-2" (B&W 368) stated that the recommendation for an automatic bypass around the polisher was "general knowledge" among the operators.

The record is not as clear on the question of whether offsite management, that is, upper management, was aware of the problems. During an interview with the Keaten Investigation team, W. Zewe said that the question of whether a bypass should be installed was raised "at least to the superintendent level on written documentation." See B&W 347A at 11. G. Miller, the station superintendent, stated during a later interview with the same investigation team while the polisher system problems were being discussed, "I went to Jack." See B&W 347A at 31. It is reasonable to assume that G. Miller was referring to "Jack" Herbein, Metropolitan Edison Vice-President of Generation, because in his deposition Herbein stated that he seemed to be aware that someone had recommended that a condensate polisher bypass be installed. See Herbein at Dep. Tr. 265. He did not, however, recall how or when before the accident he became aware of the problems, nor did he recall any concerns being expressed about the potential

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for an "accident." GPU Service Corporation Vice-President of Generation, R. Arnold, stated flatly that he was not aware of any recommendation for a bypass even though he was aware of continued efforts to address the problem of water in the instrument air system and the problems the water might be causing for the polishers. See Arnold at Trial Tr. 1646. He further stated that even if such a recommendation were presented to him, he would not have agreed with it. The Court struck this last statement from the record on legal grounds; therefore, R. Arnold was not questioned on the reasoning behind his objection to a bypass around the polishers.

All of these statements leave doubt as to the level of upper management's awareness of the recommendations to correct the condensate polisher problems and raise the question of why they were not more forcefully made aware of the problems or, if they were made aware, why they did not take action to install the recommended bypass.

Some indication of why there may not have been a more forceful effort to press the bypass recommendation is provided in the transcript of G. Miller's interview with the Keaten Investigation team cited above. G. Miller explained the ground rules concerning plant changes or improvements as follows: "What were the ground rules in Unit 2 in the last two years? We all knew what they were. If it wasn't safety-required, or didn't degrade the ability of the plant to run 100 percent power, it wasn't a necessary change. . . . That's what I was told. And if anybody in GPU says otherwise, they're kidding themselves. Those were the ground rules." It is reasonable to infer from the context of this statement that Miller is suggesting that a person or persons in management to whom he was responsible established these "ground rules." In other parts of Miller's interview this philosophy is linked to financial considerations. For example, at page 29 of the transcript he said, "The other thing is that you could never afford to do everything that somebody suggested." Arnold also hinted that financial considerations were a factor in decisions on whether to install a bypass around the condensate polishers when he spoke of the "extreme" importance of cleanliness in the feed system in reference to the condensate polisher system. See Arnold at Trial Tr. 1502. It can be assumed that Arnold was referring to the financial consequences of corrosion damage to secondary system components. This concern might explain his statement cited above where he said he would not have agreed to an automatic bypass around the polishers even if such a recommendation had been presented to him.

None of these statements provide a direct indication that financial considerations may have overridden safety concerns related to specific NRC requirements. The condensate polisher is not a safety-related system and was not the subject of any specific requirements imposed after the accident. The information discussed above, however, does provide an indication that financial considerations may have resulted in a very narrow view by the TMI licensee of what was important to safety. G. Miller said that the ground rules were that the proposed changes had to be either safety "required" or needed to maintain 100% power or they did not get done. Superintendent of Technical Support G. Kunder said that for years the operators had recognized the concern of no automatic bypass around the polishers, "Yet, the way the project was oriented . . . management accepted that unreliability." R. Arnold stated that he did not regard the condensate polisher system problems as being a safety concern but rather one of plant reliability. See Arnold at Trial Tr. 1498. The common thread that appears to run

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throughout the lawsuit documents discussed in this section seems to be that, from a management point of view, questions of plant reliability and the need to avoid major upsets to plant operation were not safety concerns and that decisions in these matters could be dictated by financial considerations rather than safety considerations. If it is true that management believed, or continues to believe, that it is not their responsibility to look beyond specific regulatory requirements to ensure the safe operation of the plant, then this attitude raises questions of management competence/integrity.

### Evaluation

The lawsuit documents discussed above appear material to CLI-80-5 issue (6) and its resolution by the ASLB. While the ASLB did hear evidence on a proposed 1979 budget cut and its impact on maintenance at TMI-1, the information contained in the above documents appears to be related to conditions which actually existed at TMI-2. Other information (for example, the relationship between the pace of plant startup and the maintenance difficulties at TMI-2 and the condensate polisher evidence) appears not to have been a part of the record on CLI-80-5 issue (6) before the ASLB. Insofar as these documents reflect on management's attitude toward safety, they are material to the staff's position on management competence and integrity.

Other documents in the GPU v. B&W lawsuit record that may reflect adversely on management's attitude toward safety have already been identified in previous sections of this chapter. For example, the possibility has been discussed that a desire to avoid a plant shutdown (*i.e.*, a financial consideration) may have been related to the decision to violate the procedure specifying block valve closure for a leaking PORV (see Section 10.4.1). A similar consideration may have been involved in the decision to adopt a leak rate calculation procedure by a temporary change notice that was later found by the NRC to be a violation (see Section 10.8).

The staff is unable to draw any conclusions on the financial/technical interface issue on the basis of the information in the lawsuit documents alone. The staff, however, has determined that the lawsuit documents raise sufficient questions to require further inquiry.

At the staff's request, OI is conducting an investigation into the conduct of licensee's "Keaten Investigation" into the TMI-2 accident. See Section 10.2. The statements by senior plant management to the Keaten investigators regarding plant startup and deficiencies in maintenance at TMI-2 do not appear to have been reflected in the Keaten team's report. Statements in the early drafts of the Keaten report, which do not appear in the final report, are critical of management philosophy in the area of ensuring a management awareness of problems and setting a sufficiently stringent standard by which to evaluate operations. For this reason, the staff has asked the OI to focus on the comments of senior plant management relating to maintenance, plant startup, and the condensate polisher at TMI-2, and to management deficiencies generally, as it conducts its investigation into the Keaten Investigation. The results of OI's investigation into these matters will be factored into the staff's overall position on management competence and integrity in a supplement to the SER.



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#### 10.10 Summary of Remaining Steps Leading to an Overall Staff Position on Management Integrity

The Executive Director for Operations described in the July 15 Memorandum the steps that are necessary in order to arrive at an overall staff position on the management competence and integrity of GPU. The completion of the GPU v. B&W lawsuit document review as it relates to management competence and integrity is one of those steps.

As discussed in detail in the foregoing sections, the staff believes that management integrity issues may be raised by the GPU v. B&W lawsuit documents in seven of the nine areas specifically considered above:

- Hartman allegations concerning leak rate tests and other matters (see Section 10.1)
- conduct of the licensee's internal investigation of the TMI-2 accident (see Section 10.2)
- training program irregularities (see Section 10.3)
- GPU preaccident knowledge of defective plant conditions (see Section 10.4)
- cheating and requalification certification irregularities (see Section 10.5).
- GPU knowledge concerning the TMI-2 accident sequence (see Section 10.7)
- financial/technical interface (see Section 10.9)

Investigations of several of these matters are being conducted by OI; lawsuit documents relevant to OI's investigations have been, or are being, furnished to OI. Other open issues relevant to management integrity are also being investigated by OI. As identified in the July 15 Memorandum, these open issues are

- (1) OI's report on the Hartman allegations and related matters
- (2) OI's report on the Parks and King allegations
- (3) the effect on management integrity of the licensee's failure to report the BETA and RHR reports and any other failures to promptly notify the Commission or its hearing boards of other relevant and material information

When the pending actions for each of these items has been completed, the staff will evaluate the results and integrate them into an overall position on management integrity. The staff's report on its overall position on management integrity will contain an evaluation of each of the issues identified as material to management integrity. In addition to considering the results of the investigations as they relate to each of these matters individually, the staff will consider whether a pattern of conduct emerges which is relevant to the staff's assessment of the licensee's management competence/integrity. The pace of OI's investigations of the several matters described above will determine when the staff's report on management competence/integrity can be issued.



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# *GPU v. B&W* Lawsuit Review and Its Effect on TMI-1

*General Public Utilities Corporation, et al. v.  
The Babcock & Wilcox Company, et al.*  
Three Mile Island Nuclear Station Unit 1  
Docket 50-289

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**U.S. Nuclear Regulatory  
Commission**

Office of Nuclear Reactor Regulation



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Manuscript Completed: September 1983  
Date Published: September 1983

Office of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555



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## Introduction

Volume II of the GPU v. B&W lawsuit review contains four appendices supporting the review of the GPU v. B&W lawsuit discussed in Volume I of this report.

As outlined in the Background section of Volume I under (3) "Review Method Utilized by the Staff," the GPU v. B&W lawsuit review was partitioned into 10 categories. These categories are as follows:

- 1 Operator Training
- 2 Procedures
- 3 Operating Experience
- 4 Licensee Qualification
- 5 Quality Assurance and Maintenance
- 6 Equipment and System Design and Function
- 7 Accident Analysis
- 8 Radiation Protection
- 9 Emergency Planning
- 10 Management Competence/Integrity

The 154 certification items and the 19 long-term actions (hearing items or restart issues) resulting from Commission Orders and the hearing process were each placed in one or more of the 10 categories. There were no certification issues for Category 10 for the reasons given in the Background section of Volume I under (3) "Review Method Utilized by the Staff." The partitioning of certification issues according to category is shown in Appendix A, which consists of nine sections, A1 through A9, and Tables 1 and 2.

Appendix B consists of 10 sections, B1 through B10. Each section contains a computer listing of lawsuit documents that were determined to require further technical review in that category during the initial screening process. Each section of Appendix B is further divided into three headings as follows: trial testimony, depositions, and exhibits. Figure 1 contains a typical listing for each of these headings and provides an explanation of how to read the computer listing entries.

The trial testimony listing is in alphabetical order according to the surname of each witness. Where witnesses testified more than 1 day, each day's testimony is listed chronologically under the name of the witness. The testimony page numbers are in succession; that is, the trial transcript starts on page 1 and continues until page 7,424. There were 37 witnesses during the trial and the total number of trial testimony documents is 83.

The pretrial deposition listing also is in alphabetical order according to the surname of the deponent. Where individuals were deposed for more than 1 day, each day's deposition is listed chronologically under the deponent's name. Each individual's deposition begins with page 1 and continues for as many pages as it took to complete the deposition. Eighty-one individuals were deposed and the total number of deposition documents is 252.



The exhibit listing contains deposition and trial exhibits. The listing is by order of the exhibit number with all B&W exhibits appearing first, followed by the GPU exhibits. The exhibit appears under "Other document identification," see Item 14 of Figure 1. The number of the exhibits is as follows:

(1) B&W deposition exhibits

1-1024 series (754 documents, some numbers not used)

(2) B&W trial exhibits or exhibits identified for use in trial but not used

4000 series (81 documents) - B&W trial documents and visual aids

5000 series (36 documents) - B&W tapes and transcripts of tapes

(3) GPU deposition exhibits

1-1021 (624 documents, some numbers not used)

(4) GPU trial exhibits or exhibits identified for use in trial but not used

2000 series (420 documents) - GPU trial documents

3000 series (101 documents) - GPU visual aids

6000 series (84 documents) - GPU tapes and transcripts tapes

The trial exhibits consist of 2,100 numbered exhibits. In the majority of cases when a pretrial deposition exhibit was identified for use in the trial it retained its pretrial exhibit number.

Appendix C identifies the review categories (1 through 10) in which lawsuit documents were initially screened for further technical review. Not all documents were screened into one of the categories; a total of 720 documents were declared to be not applicable to this review effort. On the basis of the subject matter discussed in these 720 lawsuit documents, they were judged by the project managers during the screening process as not relevant to the review effort; therefore, no technical review was required. These documents are indicated by an "NA," which appears in the comment section of Appendix C. A computer printout listing of these documents appears in Appendix D.

Fifty-three other exhibits, which were either used in the trial or earmarked for possible use in the trial, were not obtained or screened by the NRC during this review process because they were either visual aids, models, or tape recordings. These documents are identified as such in the comment section of Appendix C. An additional 23 exhibits also were not reproduced or screened by the NRC during this review effort since these documents were already a matter of public record or were previously docketed material (e.g., the TMI-2 Final Safety Analysis Report). These documents are identified by the notation "Do not duplicate list" in the comment section of Appendix C. Four exhibits (GPU 2162, 2164, 2170, and 2180) could not be located by GPU and thus were not considered in this review.

TRIAL TESTIMONY LISTING

①
②
③
④  
 8307260457 Testimony of M. Derivan on 821103 in New York, NY.pp 397-537.  
②
⑤  
 DERIVAN, M. :Toledo Edison Co.  
 DATE ISS:82/11/03, 140pp. ,48x:19023-036,ODI: ,TN:GB02  
⑥
⑦
⑧
⑨
⑩

DEPOSITION LISTING

①
②
③  
 8307120726 Continued deposition of RC Arnold on 820701 in New York, NY.  
 pp. 288-471.  
②
④
⑤  
 ARNOLD, R.C. :General Public Utilities - GPU Service Corp.  
 DATE ISS:82/07/01, 184pp. ,48x:19465-070,ODI: ,TN:GB02  
⑥
⑦
⑧
⑨
⑩

EXHIBIT LISTING

①
⑪  
 8307020053 Discusses addl analysis of plant behavior during loss of  
 load & reactor trip transients, performed in response to  
 questions raised at 830203 meeting w/NRC. Proposed draft  
 ltr to B&W encl.  
⑫
⑤  
 FINK, R.L. :MPR Associates, Inc. |  
 FRITZEN, J. :Metropolitan Edison Co. |  
 DATE: ISS:75/03/12, 14pp. ,48x:19209-169,ODI:B&W 0156 ,TN:GB02  
⑬
⑥
⑦
⑧
⑨
⑭
⑩

- (1) NRC accession number (year, month, day, and sequence number of item)
- (2) Name of witness or deponent
- (3) Date witness testified or individual was deposed
- (4) Page number for trial testimony or deposition
- (5) Corporate, Agency, or other non-individual source affiliation of witness, deponent or exhibit author or addressee
- (6) Date document was issued
- (7) Number of pages in document
- (8) Microfiche address (48x): Fiche card number followed by beginning frame number of document
- (9) Other document identification - A code in the document Informator/ Retrieval System. This code combined with the information that follows it, i.e., B&W 0156, will retrieve information on exhibit B&W 0156. Testimony or deposition information for this code is not available.
- (10) Category (for this sample listing, Category 2 appears)
- (11) Brief descriptions of exhibit
- (12) Author Name
- (13) Recipient Name
- (14) Exhibit number

Figure 1 Sample listings

APPENDIX A  
HEARING ITEMS BY CATEGORY

## Category 1 - Operator Training

---

Hearing  
Item

Title

---

### Certification Item

6	EFW Procedures
7	EFW Alignment
16	EFW Independent of ICS
18	Operator Retraining
28	Personnel Actions TMI-2
30	Natural Circulation
33	Manual Reactor Trip
37	RCP Trips
39	Operator Action - RCP Trips
40	Reactor Trip Training
41	Inadequate Core Cooling
53	Training of Operating Staff
66	Management and Technical Capability
69	Training for Mitigating Core Damage
70	Training Program Description
76	Inadequate Core Cooling
88	Shift Supervisor
99	TMI-2 Accident Training
100	Simulator Examinations
101	CRT Simulator
104	Emergency Director/Support Director Training
112	Computers - Operator Reliance
126	Training During Low Power Testing
133	Emergency Planning Health Physics Matters
137	Emergency Response Training
142	Major Employer Briefings
146	Operator Certification
147	Qualification of Instructors
151	Startup Test Program

### Long-Term Action

I.C.1 (LT-2)	Procedures for Transients and Accidents (ATOG)
I.A.1.1 (LT-3)	Shift Technical Advisor

---



Category 2 - Procedures

Hearing  
Item

Title

Certification Item

6	EFW Procedures
7	EFW Alignment
11	Transfer of EFW Supply
16	EFW Independent of ICS
17	Small Break Analysis
21	Transient Procedures
22	Operating Procedures
24	EFW Valve Procedures
25	EFW Operability
26	Transfer of Containment Liquids
27	Safety System Operability
29	Prompt Reporting
30	Natural Circulation
31	Vessel Integrity
33	Manual Reactor Trip
35	Prompt Reporting
37	RCP Trips
39	Operator Action - RCP Trips
40	Reactor Trip Training
41	Inadequate Core Cooling
48	Trash Segregation
54	Facility Procedures
67	Safety Review
76	Inadequate Core Cooling
88	Shift Supervisor
90	Shift Turnover
108	Abnormal Transient Operating Guidelines
110	Connecting Pressurizer Heaters to Diesel - Procedures
112	Computers - Operator Reliance
117	Safety-System Status Panel - Administrative Controls
124	NSSS Vendor Review of Procedures
127	Pilot Monitoring of Selected Emergency Procedures
132	Ventilation Separation Program
134	Emergency Action Levels (EALs)
135	Alert EAL
150	Feedback of Operating Experience

Long-Term Action

I.C.1 (LT-2)	Procedures for Transients and Accidents (ATOG)
II.F.2 (LT-3)	Instrumentation for Inadequate Core Cooling
I.A.1.1 (LT-3)	Shift Technical Advisor

Category 3 - Operating Experience

---

Hearing  
Item

Title

---

Certification Item

19	Accident Understanding
20	Plant Transient Review
63	Comparison of TMI-1 LERs with Industry-Wide Statistics

---

Category 4 - Licensee Qualification

Hearing Item	Title
Certification Item	
18	Operator Retraining
53	Training of Operating Staff
54	Facility Procedures
55	Operational Quality Assurance Program
56	Plant Maintenance
57	Command and Administrative Structure Review
58	Operation and Technical Staff Qualifications Review
59	Radwaste Operator Qualifications
60	Finance and Technical Department Relationship
61	Qualifications of Safety Review Groups
62	Comparison of TMI-1 Infractions with Industry-wide Statistics
63	Comparison of TMI-1 LERs with Industry-wide Statistics
64	Review of Management Actions During the TMI-2 Accident
65	Technical Capability Review
66	Management and Technical Capability
67	Safety Review
68	Health Physics Qualifications Review
71	Inspector Views
88	Shift Supervisor
89	Shift Technical Advisor
91	Control Room Access
92	Onsite Technical Support Center
93	Onsite Operational Support Center
96	Overtime Policy
97	Independent Off-site Review Group
98	Category T
104	Emergency Director/Support Director Training
105	License Conditions for Shift Manning
106	Operating Information Management System
123	Evaluate Organization and Management Improvements
146	Operator Certification
147	Qualification of Instructors
148	Supervision of Start-up and Test Director
151	Start-up Test Program

Category 5 - Quality Assurance and Maintenance

---

Hearing  
Item

Title

---

Certification Item

10	Endurance Test
15	Cross-Tie Break
23	Valve Position Review
44	Gaseous Radwaste Leak Test
45	Fuel Handling Building Isolation
46	Fuel Handling Building Ventilation Modification
55	Operational Quality Assurance Program
56	Plant Maintenance
58	Operations and Technical Staff Qualifications Review
79	Integrity of Systems Outside Containment
95	Accuracy of Maintenance Records
111	Connecting Pressurizer Heater to Diesel-Demonstration
116	Safety-System Status Panel-Valve Lineup

Long-Term Action

II.F.1.3 (LT-3) High Range Radiation Monitors

---



Category 6 - Equipment and System Design and Function

Hearing Item	Title
Certification Item	
1	Auto Initiation of EFW
2	EFW Valves Fail Open
3	Auto EFW Load on Diesels
5	EFW Flow Indication
8	EFW Auto-Start Annunciation
9	CST Level Alarm
10	Endurance Test
12	EFW to Intact OTSG
13	Auto EFW Protection on Loss of Water Source
14	EFW Initiation Independent of AC
23	Valve Positions Review
26	Transfer of Containment Liquids
32	PORV Setpoint
34	Anticipatory Reactor Trip
36	Tech Spec Changes
41	Inadequate Core Cooling
43	Liquid Radwaste
47	Hittman System
49	Monitoring System
50	Independent TMI-2 Sampling System
51	Liquid and Gaseous Radwaste Systems
72	Pressurizer Heaters
73	Pressurizer Level, Relief and Block Valves
74	Relief Valve Testing Program Description
75	Valve Position Indication
76	Inadequate Core Cooling
77	Containment Isolation
78	Dedicated Hydrogen Penetrations
80	Plant Shielding
81	EFW Auto-Initiation
82	EFW Flow Indication
83	Post-Accident Sampling H <sub>2</sub> Penetrations
84	Radiation Monitors
85	Gaseous Effluent Monitors
86	Radioiodine/Particulate Sampling
94	Human Factors Components
102	Replica Simulator
103	Contract for Basic Principles Trainer
107	Natural and Forced Circulation
109	Pressurizer Heaters
111	Connection Pressurizer Heaters to Diesel-Demonstration
113	Computers - Incore Thermocouple Backup
114	In-Plant Instrument Ranges - Effluent
115	In-Plant Instrument Range - Sampling

Category 6 - Equipment and System Design and Function  
(Continued)

Hearing Item	Title
Certification Item (Continued)	
116	Safety-System Status Panel - Valve Lineup
118	Control Room Design Review
119	Additional LOCA Analysis
120	Pressurizer Level Instrumentation
121	EFW Reliability
122	Prevent EFW Isolation by Rupture Detection System Failure
125	Control Room Design Review
128	Equipment Qualification
129	Equipment Qualification
131	Position on Cold Shutdown
132	Ventilation Separation Program
153	Main Steam Rupture Detection System Long-Term Solution
154	Subcooling Margin Instrumentation Error
Long-Term Action	
II.K.2.9 (LT-1)	ICS FMEA
II.D.1 (LT-3)	Relief and Safety Valve Testing
II.F.2 (LT-3)	Instrumentation for Inadequate Core Cooling
II.E.4.1 (LT-3)	Dedicated H <sub>2</sub> Penetrations
II.E.1.2 (LT-3)	Auto. Initiation of AFW
II.E.1.2 (LT-3)	AFW Flow Indication
II.B.3 (LT-3)	Post-Accident Sampling
II.F.1.3 (LT-3)	High Range Radiation Monitors
II.F.1.4 (LT-3)	Containment Pressure Monitor
II.F.1.5 (LT-3)	Containment Water Level Monitor
II.F.1.6 (LT-3)	Containment H <sub>2</sub> Monitor
II.B.1 (LT-3)	RCS Vents

## Category 7 - Accident Analysis

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Hearing  
Item

Title

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### Certification Item

4	EFW Tech Specs
17	Small Break Analysis
19	Accident Understanding
30	Natural Circulation
31	Vessel Integrity
32	PORV Setpoint
34	Anticipatory Reactor Trip
36	Tech Spec Changes
37	RCP Trips
38	Small LOCA Analysis
41	Inadequate Core Cooling
76	Inadequate Core Cooling
81	EFW Auto Initiation
107	Natural and Forced Circulation
108	Abnormal Transients Operating Guidelines
119	Additional LOCA Analysis
130	Flood Level Calculations
136	Dose Projection
154	Subcooling Margin Instrument Error

### Long-Term Action

II.E.1.2 (LT-3)	AFW Initiation and Flow Indication
II.F.2 (LT-3)	Instrumentation for Inadequate Core Cooling
II.K.2.9 (LT-1)	ICS FMEA
II.K.3.30 (LT-3)	SB LOCA Methods
II.K.3.31 (LT-3)	SB LOCA Plant Unique Analysis

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Category 8 - Radiation Protection

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Hearing Item	Title
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Certification Item

26	Transfer of Containment Liquids
43	Liquid Radwaste
44	Gaseous Radwaste Leak Test
45	Fuel Handling Building Isolation
46	Fuel Handling Building Ventilation Modification
47	Hittman System
48	Trash Segregation
49	Monitoring System
50	Independent TMI-2 Sampling System
51	Liquid and Gaseous Radwaste Systems
52	Solid Radwaste System
68	Health Physics Qualifications Review
79	Integrity of Systems Outside Containment
80	Plant Shielding
83	Post-Accident Sampling
84	Radiation Monitors
85	Gaseous Effluent Monitors (Noble Gas)
86	Radioiodine/Particulate Sampling
87	Iodine Instrumentation
114	In-Plant Instrument Ranges - Effluent
115	In-Plant Instrument Range - Sampling
133	Emergency Planning Health Physics Matters

Long-Term Action

II.B.2 (LT-3)	Plant Shielding
II.B.3 (LT-3)	Post-Accident Sampling

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Category 9 - Emergency Planning

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Hearing Item	Title
Certification Item	
42	Emergency Preparedness
92	On-Site Technical Support Center
93	On-Site Operational Support Center
133	Emergency Planning Health Physics Matters
134	Emergency Action Levels (EALs)
135	Alert EAL
136	Dose Projection
137	Emergency Response Training
138	EOF Staffing Requirements
139	County and PEMA EP Brochure Review
140	EP Brochure
141	EP Brochures to Local Transients
142	Major Employer Briefings
143	Siren System Test
144	Communications Drill
145	School District Plans
149	Agricultural Brochure
152	Dauphin County Plan

Long-Term Action

III.A.1.2 (LT-3) Onsite Technical Support Center

LT-4 Improvements in Emergency Preparedness

- (a) Modify emergency plans to address changing capabilities of plant instrumentation
  - (b) Extend the capability to take appropriate emergency actions for population around the site to a distance of ten miles
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TABLE 1 RESTART CERTIFICATION ITEMS

Number	Item	Definition	Completion Documentation	Review Status/Remarks	NRC Inspection Complete
<u>Commission Order of 8/9/79</u>					
<u>EFW Reliability</u>					
1	Auto Initiation of EFW	Provide automatic initiation of the motor driven EFW pumps on loss of both feedwater pumps or loss of four RCPs. (See also items 81 and 121).	NUREG-0680 Inspection Report (IR-80-26) IR-81-28 IR-82-01 IR-82-26	Complete. Test during power escalation testing (PET) to be implemented by license condition.	No (Reg. I) PET (9/83) Note 1
2	EFW Valves Fail Open	Modify the EFW control valves such that they fail open on loss of air.	NUREG-0680 IR-80-26 IR-81-22 IR-81-28 IR-82-01 IR-82-06	Complete	Yes
3	Auto EFW Load on Diesels	Provide automatic block loading of the motor driven EFW pumps on the diesel.	NUREG-0680 IR-80-26 IR-81-14 IR-81-28 IR-82-01 IR-82-26 IR-83-14	Complete	Yes
4	EFW Tech Specs	Incorporate EFW in the TMI-1 Technical Specifications per IE Bulletin 79-05A, Item 8. Staff verify that EFW capacity Technical Specification requirements are in accordance with accident analyses.	License Amendment (AMD) 78. IR-81-17 IR-81-21 IR-83-14	Complete	Yes

TABLE 1 CONTINUED

Number	Item	Definition	Completion Documentation	Review Status/Remarks	NRC Inspection Complete
5	EFW Flow Indication (Control Grade)	Provide indication in the control room of EFW flow to each steam generator. (See also item 82).	NUREG-0680 IR-82-17 IR-83-01 IR-83-02 IR-83-06	Licensee installing safety grade system per long-term requirement. Installed modification unsatisfactory, replacement modification pending (8/83). Estimate review completion 8/83 (NRR).	No (Reg. 1) 9/83
6	EFW Procedures	Provide procedures and training to assure that EFW is available and properly applied when required. Procedures will identify the need to verify proper operation when EFW is initiated.	NUREG-0680	Complete	Yes
7	EFW Alignment	To assure that EFW will be aligned in a timely manner to inject on all EFW demand events when in surveillance test mode, procedures will be implemented and training conducted to provide an operator at the necessary location in communications with the control room during the surveillance mode to carry out alignment changes necessary upon EFW demand events.	NUREG-0680 IR-81-21	Complete	Yes
8	EFW Auto-Start Annunciation	Design review and modifications, as necessary, will be conducted to provide control room annunciation for all auto start conditions of the EFW system.	NUREG-0680 IR-81-28 IR-82-01	Complete	Yes
<u>Reliability Analysis</u>					
9	CST Level Alarm	Provide redundant level indication and control room alarms for the primary EFW system water supply.	NUREG-0680 IR-82-01 IR-82-19 IR-82-26	Complete	Yes

TABLE 1 CONTINUED

Number	Item	Definition	Completion Documentation	Review Status/Remarks	NRC Inspection Complete
10	Endurance Test	Perform a 48-hour endurance test on all EFW system pumps.	IR-81-28	Complete	Yes
11	Transfer of EFW Supply	Revise emergency procedures to assure proper transfer of EFW supply to alternate sources when required.	NUREG-0680	Complete	Yes
12	EFW to Intact OTSG	Provide automatic termination of EFW flow to a depressurized steam generator and automatic supply to the intact steam generator. (See also item 122).	NUREG-0680	Complete	N/A Note 2
13	Auto EFW Protection on Loss of Water Source	Evaluate the need for automatic protection of EFW system pumps on loss of unprotected primary EFW system water source (following a seismic event or tornado).	NUREG-0680	Complete	N/A Note 2
14	EFW Initiation Independent of AC	Verify that EFW system initiation and operation is assured independent of alternating current power source for at least two hours.	NUREG-0680 IR-82-01 IR-83-19	Complete - Test during PET to be implemented by license condition.	No (Reg. 1) PET (9/83) Note 1
15	Cross-Tie Break	Perform volumetric nondestructive examination (NDE) of 10 welds in the EFW pump discharge lines.	IR-81-26 IR-82-19	Complete	Yes
16	EFW Independent of ICS	Develop and implement operating procedures for initiating and controlling EFW independent of Integrated Control System (ICS) control.	NUREG-0680 IR-81-22 IR-81-28 IR-82-03	Complete	Yes
17	Small Break Analysis	Complete analyses for potential small breaks and develop and implement operating instructions to define operator action.	NUREG-0680 IR-83-11	Complete	Yes



TABLE 1 CONTINUED

Number	Item	Definition	Completion Documentation	Review Status/Remarks	NRC Inspection Complete
18	Operator Retraining	Augment the retraining of all Reactor Operators and Senior Reactor Operators assigned to the control room, including training in the areas of natural circulation and small break loss-of-coolant accidents, including revised procedures and the TMI-2 accident. All operators will also receive training at the B&W simulator on the TMI-2 accident and the licensee will conduct a 100 percent reexamination of all operators in these areas. NRC will administer complete examinations to all licensed personnel in accordance with 10 CFR 55.20-23.	NUREG-0680 Board Notification on 92-21 of 3/5/82.	Complete	N/A Note 2
	<u>IE Bulletins</u>				
19	Accident Understanding	Review TMI-2 accident circumstances and chronology per IE Bulletin 79-05A.	NUREG-0680	Complete	Yes
20	Plant Transient Review	Review past transients and provide details of significant deviations from expected performance per IE Bulletin 79-05A.	NUREG-0680 IR-83-02	Complete	Yes
21	Transient Procedures	Review procedures for coping with transients and accidents per IE Bulletin 79-05A.	NUREG-0680	Complete	Yes
22	Operating Procedures	Review procedures to ensure operators do not override automatic P/SF initiation per IE Bulletin 79-05A.	NUREG-0680	Complete	Yes
23	Valve Position Review	Perform a complete safety-related system valve lineup prior to plant restart. (See also item 116).	NUREG-0680	Perform verification at HFT (8/83)	No (Reg. 1) 9/83 Note 3

A (Table 1)-4

TABLE 1 CONTINUED

Number	Item	Definition	Completion Documentation	Review Status/Remarks	NRC Inspection Complete
24	EFW Valve Procedures	Prepare and implement procedures to assure critical EFW valves remain in the correct position.	NUREG-0680	Complete	Yes
25	EFW Operability	Prepare and implement procedures to assure operability of two 100% capacity EFW flow paths per IE Bulletin 79-05A.	NUREG-0680	Complete	Yes
26	Transfer of Containment Liquids	Review systems and procedures to assure that undesired inadvertent pumping of radioactive liquids and gases will not occur per IE Bulletin 79-05A.	NUREG-0680	Complete	Yes
27	Safety System Operability	Review and modify procedures to verify operability of safety systems prior to removing redundant systems from service per IE Bulletin 79-05A.	NUREG-0680	Complete	Yes
28	Personnel Actions TMI-2	Advise operating and maintenance personnel of the extreme seriousness and consequences of the simultaneous blocking of both auxiliary feedwater trains at the Three Mile Island Unit 2 plant and other actions taken during the early phases of the accident.	NUREG-0680	Complete	Yes
29	Prompt Reporting	Review prompt reporting procedures for NRC notification to assure very early notification of serious events.	NUREG-0680	Complete	Yes
30	Natural Circulation	Develop procedures and train personnel on methods of establishing and maintaining natural circulation per IE Bulletin 79-05B.	NUREG-0680	Complete	Yes
31	Vessel Integrity	Modify procedures of Item 22 above to consider vessel integrity per IE Bulletin 79-05B.	NUREG-0680	Complete	Yes

TABLE 1 CONTINUED

Number	Item	Definition	Completion Documentation	Review Status/Remarks	NRC Inspection Complete
32	PORV Setpoint	Perform analyses and modifications to reduce the likelihood of PORV actuations during anticipated transients per IE Bulletin 79-05B.	NUREG-0680 AMD 78 IR-81-21 IR-82-15 IR-83-09	Complete	Yes
33	Manual Reactor Trip	Provide procedures and training for prompt manual reactor trip for transients resulting in pressure increases per IE Bulletin 79-05B.	NUREG-0680	Complete	Yes
34	Anticipatory Reactor Trip	Provide for NRC approval a design review and schedule for implementation of a safety grade automatic anticipatory reactor scram for loss of feedwater, turbine trip or significant reduction in steam generator level. (IE Bulletin 79-05B).	NUREG-0680 AMD 78 IR-80-31 IR-81-03 IR-81-11 IR-81-21 IR-81-28 IR-82-06 IR-82-14 IR-82-26	Complete - Test during PET to be implemented by license condition.	No (Reg. I) PET (12/83) Note 1
35	Prompt Reporting	Review prompt reporting procedures to assure NRC is notified within one hour of the time the reactor is not in a controlled condition per IE Bulletin 79-05B.	NUREG-0680	Complete	Yes
36	Tech Spec Changes	Propose changes as required to those Technical Specifications which must be modified as a result of implementing IE Bulletin 79-05B.	AMD 78 IR-82-19	Complete	No (Reg. I) 8/83

TABLE 1 CONTINUED

Number	Item	Definition	Completion Documentation	Review Status/Remarks	NRC Inspection Complete
37	RCP Trips	Upon reactor trip and initiation of HPI, immediately trip all RCPs. Provide two license operators to do this. (IE Bulletin 79-05C).	NUREG-0680	Complete	Yes
38	Small LOCA Analyses	Perform and submit a report of small LOCA analyses per IE Bulletin 79-05C.	NUREG-0680	Complete	N/A Note 2
39	Operator Action-RCP Trips	Based on the analyses of item 38, develop guidelines for operator action for LOCA and non-LOCA transients per IE Bulletin 79-05C.	NUREG-0680	Complete	N/A Note 2
40	Reactor Trip Training	Based on the guidelines developed for item 39, revise emergency procedures and train all operators. (IE Bulletin 79-05C).	NUREG-0680	Complete	Yes
41	Inadequate Core Cooling	Provide analyses and develop guidelines and procedures related to inadequate core cooling per IE Bulletin 79-05C.	NUREG-0680	Complete	Yes
42	Emergency Preparedness	Improve emergency preparedness per order item 3 of Commission Order dated 8/9/79.	NUREG-0746 IR-81-20	Complete	Yes
<u>Separation of TMI-1 and TMI-2</u>					
43	Liquid Radwaste	Isolate specific liquid radwaste connections between units.	NUREG-0680 IR-82-21 IR-83-01	Complete	Yes



TABLE 1 CONTINUED

Number	Item	Definition	Completion Documentation	Review Status/Remarks	NRC Inspection Complete
44	Gaseous Radwaste Leak Test	Perform a helium leak test of the gaseous waste processing system.	NUREG-0680 IR-82-21 IR-83-11	Complete	Yes
45	Fuel Handling Building Isolation	Modify the TMI-1 fuel handling building layout to isolate the fuel handling floor from the auxiliary building and control building.	NUREG-0680 IR-82-21	Complete	Yes
46	Fuel Handling Building Ventilation Modification	Modify auxiliary building and fuel handling building ventilation system by adding two leak tight dampers.	NUREG-0680 IR-82-21	Complete	Yes
47	Hittman System	Install interim (Hittman) radwaste solidification system.	NUREG-0680 IR-81-34 IR-82-03 IR-82-21	Complete	Yes
48	Trash Segregation	Segregate trash during collection to insure TMI-1 and TMI-2 wastes remain separate.	NUREG-0680 IR-82-21	Complete	Yes
49	Monitoring System	Verify complete separation of TMI-1 and TMI-2 process and effluent radiological monitoring systems.	NUREG-0680	Complete	N/A Note 2
50	Independent TMI-2 Sampling System	Construct an independent radioactive liquid sampling system for TMI-2.	NUREG-0680 IR-82-21	Complete	Yes
	<u>Waste Management</u>				
51	Liquid and Gaseous Radwaste Systems	Demonstrate that the waste management capability including storage and processing for liquid and gaseous wastes is adequate to assure safe operation of TMI-1 and that TMI-1 waste handling capability is not relied on by operations at TMI-2.	NUREG-0680	Complete	N/A Note 2

TABLE 1 CONTINUED

Number	Item	Definition	Completion Documentation	Review Status/Remarks	NRC Inspection Complete
52	Solid Radwaste System	Demonstrate that the waste management capability including storage and processing for solid wastes is adequate to assure safe operation of TMI-1 and that TMI-1 waste handling capability is not relied on by operations at TMI-2 (Expand low activity solid waste storage).	NUREG-0680 IR-82-21 IR-83-01	Complete	Yes
	<u>Managerial Capability</u>				
53	Training of Operating Staff	Perform retraining of operating staff per numerous requirements summarized in NUREG-0680 page C6-5.	NUREG-0680	Complete	N/A Note 2
54	Facility Procedures	Revise facility procedures to conform with requirements of CLI 80-5, IE Bulletins 79-05A,B,C and NUREG-0578.	NUREG-0680	Complete	Yes
55	Operational Quality Assurance Program	Demonstrate the adequacy of the Operational Quality Assurance Program.	NUREG-0680	Complete	Yes
56	Plant Maintenance	Demonstrate the adequacy of the plant maintenance support organization.	NUREG-0680 IR-80-19 IR-80-21	Complete	Yes
57	Command and Administrative Structure Review	Determine whether the licensee's command and administrative structure at both the plant and corporate levels, is appropriately organized to assure safe operation of TMI-1.	NUREG-0680 IR-80-19	Complete	Yes

A (Table 1)-9

TABLE 1 CONTINUED

Number	Item	Definition	Completion Documentation	Review Status/Remarks	NRC Inspection Complete
58	Operations and Technical Staff Qualifications Review	Determine whether the operations and technical staff of TMI-1 is qualified to operate Unit 1 safely (adequacy of the facility's maintenance program should be considered).	NUREG-0680 IR-80-21	Complete	Yes
59	Radwaste Operator Qualifications	Determine whether the TMI-1 Radiation Waste system is appropriately staffed with qualified individuals to ensure safe operation of the facility.	NUREG-0680 IR-80-21	Complete	Yes
60	Finance & Technical Department Relationship	Determine whether the relationship between licensee's corporate finance and technical departments is such as to prevent financial considerations from having an improper impact upon technical decisions.	NUREG-0680	Complete	Yes
61	Qualifications of Safety Review Groups	Determine whether the licensee has made adequate provision for groups of qualified individuals to provide safety review of and operational advice regarding TMI-1.	NUREG-0680	Complete	Yes
62	Comparison of TMI-1 Infractions with Industry-wide Statistics	Determine what, if any, conclusions regarding licensee's ability to operate TMI-1 safely can be drawn from a comparison of the number and type of past infractions of NRC regulations attributable to the Three Mile Island Units with industry-wide infraction statistics.	NUREG-0680	Complete	N/A Note 2

TABLE 1 CONTINUED

Number	Item	Definition	Completion Documentation	Review Status/Remarks	NRC Inspection Complete
63	Comparison of TMI-1 LERs with Industry-wide Statistics	Determine what, if any, conclusions regarding licensee's ability to operate TMI-1 safely can be drawn from a comparison of the number and type of past Licensee Event Reports ("LER") and the licensee's operating experience at the Three Mile Island Units with industry-wide statistics on LER's and operating experience.	NUREG-0680	Complete	N/A Note 2
64	Review of Management Actions During the TMI-2 Accident	Determine whether the actions of Licensee's corporate or plant management (or any part or individual member thereof) in connection with the accident at TMI-2 reveal deficiencies in the corporate or plant management that must be corrected before TMI-1 can be operated safely.	NUREG-0680 IR-83-10	Item to remain open pending resolution of GPU management integrity/competency issue.	Inspection TBD
65	Technical Capability Review	Determine whether licensee possesses sufficient in-house technical capability to ensure the simultaneous safe operation of TMI-1 and clean-up of TMI-2.	NUREG-0680 IR-80-19	Complete	Yes
66	Management & Technical Capability	Assess management and technical capability and the training of the operations staff (Training Manual).	NUREG-0680 IR-80-19 IR-81-33 IR-82-16	Complete	Yes
67	Safety Review	Licensee make acceptable provisions for reviews and audits of changes to plant design and procedures (EP-013 and AP-1032). (See also item 106)	IR-80-19 IR-81-33 IR-82-09 IR-82-16 IR-82-18 IR-83-02	Complete	Yes



TABLE 1 CONTINUED

Number	Item	Definition	Completion Documentation	Review Status/Remarks	NRC Inspection Complete
68	Health Physics Qualifications Review	Determine whether the TMI-1 Health Physics program is appropriately organized and staffed with qualified individual to ensure safe operation of the facility.	NUREG-0680 IR-83-04	Complete	Yes
69	Training for Mitigating Core Damage	Complete training program prior to exceeding 5% power.	NRC letter 4/22/81 IR-81-33 IR-83-06	Complete	Yes
70	Training Program Description	Prepare program description for training per item 69.	NRC letter 4/22/81	Complete	N/A Note 2
71	Inspector Views	Resolve inspector concerns regarding quality of plant management, corporate management, staffing, organization and resources.	NUREG-0600 IR-80-19 IR-80-21 IR-80-22 NUREG-0680 IR-83-15	Complete	Yes
<u>Lessons Learned-Short Term</u>					
<u>2.1.1 Emergency Power Supply</u>					
72	Pressurizer Heaters	Provide redundant emergency power for the minimum number of pressurizer heaters required to maintain natural circulation in the event of a loss of offsite power. (See also item 110).	NUREG-0680 IR-81-08 IR-81-28 IR-82-01 IR-82-19 IR-82-26	Complete	Yes

A (Table 1)-12

TABLE 1 CONTINUED

Number	Item	Definition	Completion Documentation	Review Status/Remarks	NRC Inspection Complete
73	Pressurizer Level, Relief and Block Valves	Provide emergency power to the control and motive power systems for the power-operated relief valve and associated block valve and to the pressurizer level indication instrument channels.	NUREG-0680	Complete	Yes
74	Relief Valve Testing Program Description	Commit to provide performance verification by full scale prototypical testing for all relief and safety valves.	NUREG-0680	Complete	N/A Note 2
75	Valve Position Indication	Provide in the control room either a reliable, direct position indication for the PORV and SRVs or reliable flow indication devices downstream of the valves.	NUREG-0680 IR-80-04 IR-80-05 IR-81-28 IR-81-22 IR-82-21 IR-82-26 IR-81-04 IR-81-24 IR-82-19	Complete	Yes
76	Inadequate Core Cooling	Perform analyses and implement procedures and training for prompt recognition of low reactor coolant level and inadequate core cooling using existing reactor instrumentation (flow, temperature, power, etc.) or short-term modifications of existing instruments. (See also item 113) (Note: License condition required by ALAB-729, p.176)	NUREG-0680 NUREG-0752 NRC letter 6/14/83 IR-81-10 IR-81-14 IR-81-24 IR-81-28 IR-82-01 IR-82-07 IR-82-10 IR-82-14 IR-82-17 IR-82-19 IR-82-26	Complete - Test during PET to be implemented by license condition.	No (Reg. 1) PET (9/83-12/83) Note 1

Table 1 CONTINUED

Number	Item	Definition	Completion Documentation	Review Status/Remarks	NRC Inspection Complete
77	Containment Isolation	Provide containment isolation on diverse signals, review isolation provisions for non-essential systems and revise as necessary, and modify containment isolation designs as necessary to eliminate the potential for inadvertent reopening upon reset of the isolation signal.	NUREG-0680 NRC letter 4/22/81 IR-80-05 IR-80-31 IR-81-04 IR-81-05 IR-82-01 IR-82-07 IR-82-19 IR-82-24 IR-82-26 IR-83-02 IR-83-14	Complete	No (Reg. 1) 8/83
78	Dedicated Hydrogen Penetrations	Provide dedicated penetrations and isolation systems that meet redundancy and signal failure requirements.	NUREG-0680 IR-80-17 IR-82-06 IR-82-26 IR-83-05	Complete	Yes
79	Integrity of Systems Outside Containment	Perform leakage rate tests on systems outside containment that process primary coolant and could contain high level radioactive materials. Develop and implement a periodic testing and preventative maintenance programs.	NUREG-0680 IR-83-14	Estimated review completion 8/83 (NRR). Test during HFT (8/83).	No (Reg. 1) 9/83 Note 3
80	Plant Shielding	Perform a design review of the shielding of systems processing primary coolant outside of containment. Determine any areas or equipment that are vital for post-accident occupancy or operation and assure that access and performance will not be unduly impaired due to radiation from these systems.	NUREG-0680	Complete	N/A Note 2

TABLE 1 CONTINUED

Number	Item	Definition	Completion Documentation	Review Status/Remarks	NRC Inspection Complete
81	EFW Auto-Initiation	Provide automatic initiation of all EFW systems. (See also items 1 and 121).	NUREG-0680 IR-80-26 IR-82-01 IR-81-28 IR-82-26	Complete - Test during PET to be implemented by license condition.	No (Reg. 1) PET (9/83) Note 1
82	EFW Flow Indication (Control Grade)	Provide indication in the control room of EFW flow for each steam generator. (See also item 5).	NUREG-0680 IR-02-17 IR-83-01 IR-83-02 IR-83-06	Licensee installing safety grade system per long-term requirement. Installed modification unsatisfactory, replacement modification pending (8/83). Estimated review completion 8/83 (NRR).	No (Reg. 1) 9/83
83	Post-Accident Sampling	Review and upgrade the capability to obtain samples from the reactor cooling system and containment atmosphere under high radioactivity conditions. Provide the capability for chemical and spectrum analysis of high-level samples on site.	NUREG-0680	Complete	No. (Reg. 1) 8/83
84	Radiation Monitors	Install safety-grade in containment radiation monitors.	NUREG-0680 IR-83-04	Complete	No (Reg. 1) 8/83
85	Gaseous Effluent Monitors (Noble Gas)	Install high-range gaseous effluent monitors. (See also item 114).	NUREG-0680 IR-83-04	Review complete. Licensee estimates 8/83 modification completion.	No (Reg. 1) 8/83
86	Radioiodine/Particulate Sampling	Install expanded range radioiodine/particulate sampling system. (See also item 115)	NUREG-0680 IR-82-26 IR-83-04	Complete	No (Reg. 1) 8/83



TABLE I CONTINUED

Number	Item	Definition	Completion Documentation	Review Status/Remarks	NRC Inspection Complete
87	Iodine Instrumentation	Provide instrumentation for accurately determining in-plant airborne radiiodine concentrations to minimize the need for unnecessary use of respiratory protection equipment.	NUREG-0680	Complete	No (Reg. 1) 8/83
88	Shift Supervisor	Review plant administrative and management procedures and revise as necessary to assure that reactor operations command and control responsibilities and authority are properly defined.	NUREG-0680	Complete	Yes
89	Shift Technical Advisor	Provide on shift a qualified person (the shift technical advisor) with a bachelor's degree or equivalent in a science or engineering discipline and with specific training in the plant response to off-normal events and in accident analysis of the plant.	NUREG-0680	Complete	N/A Note 2
90	Shift turnover	Review revise and evaluate effectiveness of plant procedures as necessary to assure that a shift turnover checklist is provided and required to be completed and signed by the on-coming and off-going individuals responsible for command of operations in the control room.	NUREG-0680 IR-82-18	Complete	Yes
91	Control Room Access	Assure that access to the control room under normal and accident conditions is limited to those persons necessary to the safe command and control of operations.	NUREG-0680	Complete	Yes
92	Onsite Technical Support Center	A separate technical support center shall be provided for use by plant management, technical, and engineering support personnel.	NUREG-0680 NUREG-0746 IR-83-02	Complete	Yes
93	Onsite Operational Support Center	Establish and maintain an operational support center outside the control room.	NUREG-0680 NUREG-0746	Complete	Yes

TABLE 1 CONTINUED

Number	Item	Definition	Completion Documentation	Review Status/Remarks	NRC Inspection Complete
ASLB Manager PID of 8/27/81					
94	Human Factors Components	Implement Human Factors items cited in GPU letter dated 1/21/81, (Hukill to Reid) that were to be done prior to restart and prior to 1983.	IR-82-17	Estimated review completion 8/83 (NRR).	No (NRR) 8/83
95	Accuracy of Maintenance Records	Staff perform inspections and licensee perform actions described in Section II.D of 8/27/81 PID.	IR-81-27 IR-83-02	Complete	Yes
96	Overtime Policy	Verify continued implementation of policy set forth in GPU memo of February 1980 (PID paragraph 343).	IR-81-01	Estimated review completion 8/83 (NRR).	No (NRR) 8/83
97	IOSRG	Document proper staffing of Independent Off-Site Review Group (IOSRG).		Estimated review completion 8/83 (NRR/Reg. 1).	No (NRR/Reg. 1) 8/83
98	Category T	Licensee administer Category T examinations to license candidates.	Board Notification BN-82-21 of 3/5/82	Complete	N/A Note 2
99	TMI-2 Accident Training	Licensee demonstrate that all licensee operators received three days additional training on TMI-2 accident.	IR-82-16	Complete	Yes Note 2
100	Simulator Examinations	Licensee demonstrate that all operators not previously NRC licensed have completed an NRC exam at B&W simulator.	BN-82-21 of 3/5/82	Complete	N/A Note 2
101	CRT Simulator	Licensee demonstrate that a CRT part-task simulator which displays temperature and pressure, is available at TMI-1.	IR-81-33	Complete	Yes
102	Replica Simulator	Licensee prepare for bids and distribute specifications for a TMI-1 exact replica simulator. Make reasonable effort to install by 1985.	NRC letter 12/22/82	Complete	N/A Note 2

A (Table 1)-17

TABLE 1 CONTINUED

Number	Item	Definition	Completion Documentation	Review Status/Remarks	NRC Inspection Complete
103	Contract for Basic Principles Trainer	Licensee demonstrate that a basic principles trainer for TMI-1 is contracted to be installed in 1982.	NRC letter 12/22/82	Complete	N/A Note 2
104	Emergency Director/Support Director Training	Licensee demonstrate that members of senior management (since July 1, 1979) who are designated to act as Emergency Directors or Emergency Support Director, have received a formal training course.	IR-83-02	Complete	Yes
105	License Conditions for Shift Manning	At time of restart, staff impose and enforce license conditions per PID Section II.M.9(a)-(g) for operation at TMI-1 concerning shift manning.	--	NRR issue license condition.	No (Reg. 1) 8/83
106	Operating Information Management System	Licensee provide and maintain a management system to perform functions per PID Section II.M.10(a)-(c). (See also item 67).	IR-80-19 IR-81-33 IR-82-09 IR-82-16 IR-82-18 IR-83-02	Complete	Yes
<u>ASLB Plant Design, Procedures, and Modifications PID of 12/14/81</u>					
107	Natural and Forced Circulation	Install new shield walls between the HPI piping and motor control centers.	NUREG-0680 IR-82-13	Complete	Yes
108	Abnormal Transients Operating Guidelines	Staff review revised ATOG program and report to Commission on reasonable progress.	NRC letter 10/26/82	Complete	N/A Note 2
109	Pressurizer Heaters	Demonstrate reactor coolant pressure control using HPI system.	IR-83-01	Complete	Yes

TABLE 1 CONTINUED

Number	Item	Definition	Completion Documentation	Review Status/Remarks	NRC Inspection Complete
110	Connecting Pressurizer Heaters to Diesel - Procedures	Staff verify procedures for reconnecting pressurizer heaters. (See also item 72). (Note: License condition required per ALAB-729).	NUREG-06d0	Complete	No (Reg. 1) 8/83
111	Connecting Pressurizer Heaters to Diesel - Demonstration	Licensee demonstrate connection of heaters to emergency buses; staff monitor test and evaluate results. (Note: Staff advise Commission if test disables emergency power supply. (ALAB-729)).	IR-83-01	Complete - Test during HFT (9/83).	No (Reg. 1) 9/83 Note 3
112	Computers - Operator Reliance	Staff verify that operators do not rely solely on computer information for making operational decisions	IR-82-18	Complete	Yes
113	Computers - Incore Thermocouple Backup	Install and have operational data logging or recording instrument displays of certain in-core temperature information (before 5% power -lic. condition). System must be safety-grade per ALAB-729, p. 176. (See also item 76).	NUREG-0680 NUREG-0752 IR-81-10 IR-81-28 IR-81-14 IR-81-24 IR-82-01 IR-82-07 IR-82-10 IR-82-14 IR-82-17 IR-82-19 IR-82-26	Licensee filing estimated 8/83. NRR estimates 8/83 review completion. NRR issue license conditions before 5% power. Test during PET.	No (Reg. 1) PET (9/83) Note 1
114	In-Plant Instrument Ranges - Effluent	Install extended range noble gas effluent monitors. (See also item 85).	NUREG-0680 IR-83-04	Complete - Licensee estimates 8/83 modification completion.	No (Reg. 1) 8/83
115	In-Plant Instrument Range - Sampling	Install expanded sampling system capability for monitoring radioiodine and particulates. (See also item 86).	NUREG-0680 IR-82-26 IR-83-04	Complete	No (Reg. 1) 8/83



TABLE 1 CONTINUED

Number	Item	Definition	Completion Documentation	Review Status/Remarks	NRC Inspection Complete
116	Safety-System Status Panel - Valve Lineup	Licensee perform complete review of safety system valve lineup. Staff perform independent verification. (See also item 23).	--	Perform verification at HFT (8/83)	No (Reg. I) 9/83 Note 3
117	Safety-System Status Panel - Administrative Controls	Staff review licensee compliance with NUREG-0737 requirement to upgrade administrative controls for monitoring and verifying system status prior to restart.	NRC Letter 4/22/81 IR-82-16 IR-83-02	Complete	Yes
118	Control Room Design Review	Licensee perform NUREG-0752 recommended corrections, staff review modifications against criteria of NUREG-0752 and Supplement 1. (See also item 125).	NUREG-0752 IR-81-24 IR-82-17 IR-82-19 IR-82-26 IR-83-09 IR-83-14	Complete	Yes
119	Additional LOCA Analysis	Install HPI system cavitating venturis and cross-connect.	IR-81-19 IR-82-07 IR-82-10 IR-82-26	Complete - Test during HFT. (8/83)	No (Reg. I) 9/83 Note 3
120	Pressurizer Level Instrumentation	Upgrade pressurizer level instrumentation by providing redundant vital power supplies.	IR-82-26	Complete	Yes
121	EFW Reliability	Provide auto initiation of EFW. (See also items 1 and 81). (Note: System need not be safety grade at restart so long as an operator is dispatched to EFW station.) (ALAB-729).	NUREG-0680 IR-80-26 IR-81-28 IR-82-01 IR-82-26	Complete - Test during PET to be implemented by license condition.	No (Reg. I) PET (9/83) Note 1

TABLE 1 CONTINUED

Number	Item	Definition	Completion Documentation	Review Status/Remarks	NRC Inspection Complete
122	Prevent EFW Isolation by Rupture Detection System Failure	Licensee propose means for preventing feedwater isolation due to failure in rupture detection system. (Reasonable progress). (See also item 153).	NRC letter 11/10/82 IR-83-01	Complete	Yes
123	Evaluate Organization and Management Improvements	Perform evaluation per Item I.B.1.2 of NUREG-0694.	NRC letter 4/22/81	Complete	N/A Note 2
124	NSSS Vendor Review of Procedures	Perform review per Item I.C.7 of NUREG-0694.	NRC letter 4/22/81 IR-82-16	Complete	Yes
125	Control Room Design Review	Perform review per Item I.D.1 of NUREG-0694. (See also item 118).	NUREG-0752 IR-81-24 IR-82-17 IR-82-19 IR-82-26 IR-83-09	Complete	Yes
126	Training During Low Power Testing	Perform training per Item I.G.1 of NUREG-0694.	NRC letter 4/22/81 NRC letter 12/21/82 IR-81-33	Complete - Test during PET to be implemented by license condition.	No (Reg. I) PET (9/83 -12/83) Note 1
127	Pilot Monitoring of Selected Emergency Procedures	Perform monitoring per Item I.C.8 of NUREG-0694.	NRC letter 4/22/81	Complete	N/A Note 2

TABLE 1 CONTINUED

Number	Item	Definition	Completion Documentation	Review Status/Remarks	NRC Inspection Complete
128	Equipment Qualification	Staff certify to Commission a report on licensee's compliance with CL1-80-21 with respect to radiation.	1/28/82 staff filing to Commission	Complete	N/A Note 2
129	Equipment Qualification	Comply with six equipment qualification conditions of PID paragraph 1163.	NRC letter 10/8/82 IR-83-02	Complete	Yes
130	Flood Level Calculations	Staff perform an independent review of licensee's calculations of flood level in the reactor building. Staff conduct review of operational limitations that must be imposed.	NRC letters 7/26/82, 7/19/83 IR-81-28 IR-82-03 IR-82-07 IR-82-26 IR-82-06 IR-82-19	Complete	Yes
131	Position on Cold Shutdown	Licensee environmentally qualify a single path to cold shutdown or bring the matter to the attention of the Commission.	1/28/82 staff filing to Commission	Complete	N/A Note 2
132	Ventilation Separation Program	Licensee submit to the staff a program designed to test the adequacy of its phase I ventilation separation program such that staff can certify that a satisfactory test program has been implemented.	NRC letter 3/9/83	Complete	Yes

TABLE 1 CONTINUED

Number	Item	Deficition	Completion Documentation	Review Status/Remarks	NRC Inspection Complete
<u>ASLB Emergency Planning PID of 12/14/81</u>					
133	Emergency Planning Health Physics Matters	(1) Complete 1 training cycle of the Emergency Plan training program. (2) Verify upgrade of Reactor Building alarm. (3) Include high range noble gas monitor readings and an radiiodine effluent analyses in the dose assessment scheme. (4) Implement procedures for collecting and analyzing absorbent media for radiiodine and gaseous effluents under accident conditions (Paragraphs 1404, 1479).		Review scheduled for 8/83 completion (1E).	No (1E) 8/83
134	EALs	Verify and document that the General Emergency and reactor coolant system activity Emergency Action Levels (EALs) have been revised to be consistent with NUREG-0654.	NRC letter 7/25/83	Complete	Yes
135	Alert EAL	Verify and document that the reactor coolant system EAL for an Alert precisely conforms to the 300 MCI/ml equivalent I-131 criteria in NUREG-0654.	NRC letter 7/25/83	Complete	Yes
136	Dose Projection	Verify and document revision of procedures for off-site dose projection to include a curve of estimated containment leak rate as a function of containment design pressure and actual measured pressure.	NRC letter 7/25/83	Complete	Yes



TABLE 1 CONTINUED

Number	Item	Definition	Completion Documentation	Review Status/Remarks	NRC Inspection Complete
137	Emergency Response Training	<p>(1) Verify and document completion of one full iteration of Emergency Organization Training for offsite support organizations including local fire depts, ambulance services, local police depts. State Police and Middletown police get specific training.</p> <p>(2) Verify and document Radiation Management Corp. Annual Training of Hospital and ambulance personnel.</p> <p>(3) Verify and document formal training course on plant design features for licensee senior management who joined the licensee since 6/9/79 and who will serve as Emergency Director or Emergency support Director.</p>	IR-83-13	Review scheduled for 8/83 completion (IE).	No (IE) 8/83
138	EOF Staffing Requirements	Implement EOF Support Director staffing requirements of PID 2010a and 1381 for restart.	NRC letter 7/25/83	Staff review complete. Commission reviewing ASLAB decision (CLI-83-7).	Yes
139	County and PEMA EP Brochure Review	The staff shall review any changes made in the final risk county brochures and the PEMA Pamphlet on emergency preparedness, and advise the Commission prior to restart of the impact of the revisions on the intended purpose of these documents.	NRC letter 7/25/83	Complete	Yes (FEMA)

TABLE 1 CONTINUED

Number	Item	Definition	Completion Documentation	Review Status/Remarks	NRC Inspection Complete
140	EP Brochure	Updated PEMA and 5 risk county brochures distributed (Public Information on Emergency Preparedness).	NRC letter 7/25/83	Complete	Yes (FEMA)
141	EP Brochures to Transient Locations	Updated county brochures distributed to transient transient (hotels, motels, parks, employers) locations.	NRC letter 7/25/83	Complete	Yes (FEMA)
142	Major Employer Briefings	At least be underway for licensee briefings to major employers and operators of transient locations.	NRC letter 7/25/83	Complete	Yes (FEMA)
143	Siren System Test	Siren System audibility test. Staff certify results and need for supplemental alerting.	NRC letter 7/25/83	Complete	Yes (FEMA)
144	Communications	Conduct communications drill to stress system.	NRC letter 7/25/83	Complete	Yes (FEMA)
145	School District Plans	Staff certify when plans for EP-Z school districts are completed and reviewed for adequacy.	NRC letter 7/25/83	Complete	Yes (FEMA)
<u>ASLB Reopened Proceeding on Cheating PID of 7/14/82</u>					
146	Operator Certification	Verify and document implementation of a procedure for certification of operators by signed statements from Training Personnel that operator candidates (to obtain or renew a license) have completed training requirements.	NRC letter 7/29/83	Complete	Yes

TABLE 1 CONTINUED

Number	Item	Definition	Completion Documentation	Review Status/Remarks	NRC Inspection Complete
147	Qualifications of Instructors	Licensee establish criteria for qualifications of instructors.	NRC letter 7/28/83	Complete	Yes
148	Supervision of Start-up and Test Director	Any participation by Start-up and Test Director in start-up and test at TMI-1 is to be directly supervised by a qualified GPU official.	IR-82-19	Complete	Yes
<u>ASLAB Imposed Emergency Planning Requirements</u>					
149	Agricultural Brochure	Commonwealth agriculture brochure shall be distributed to all farmers in 10 mile plume exposure (PZ).		Review scheduled for 8/83 completion (IE).	No (FEMA)
<u>ASLB Management PID of 8/27/81 (Additional Items)</u>					
150	Feedback of Operating Experience	NUREG-0737, I.C.5 "Procedure for Feedback of Operating Experience to Plant Staff" must be enforced at TMI-1 if restart is permitted.		Estimated review completion 8/83.	TBD (NRR/Reg. 1)
151	Start-up Test Program	Staff certify to Commission whether licensee has Startup Test Program which will provide additional operator training to satisfy the issue of whether to treat TMI-1 differently from other operating reactors because of the prolonged shutdown.		Estimated review completion 8/83. (NRR)	No (NRR/Reg. 1) 8/83

TABLE 1 CONTINUED

Number	Item	Definition	Completion Documentation	Review Status/Remarks	NRC Inspection Complete
<u>ASLB Emergency Planning PID of 12/14/81 ADDITIONAL ITEMS</u>					
152	Dauphin County Plan	Staff certify to Commission that Dauphin County plan has been revised so that there is no suggestion in the plan that school students will be returned to their homes by bus in the early stages of an accident.	NRC letter 7/25/83	Complete	Yes (FEMA)
<u>ALAB-729 Items</u>					
153	Main Steam Rupture Detection System Long-Term Solution	Licensee submit proposed long-term solution to Commission prior to restart. (See also item 122).	NRC letter 11/10/82 IR-83-01	Licensee submittal complete. NRR acknowledgment ltr. estimated 8/83. Commission review TBD.	N/A Note 2
154	Subcooling Margin Instrumentation Error	Ensure subcooling margin instrument error does not exceed 20 F.	IR-83-14	Licensee submittal estimated 8/83. Review completion estimated 9/83 (NRR).	No (Reg. 1) 9/83.

NOTES:

1. Power escalation test (PET) would commence immediately upon completion of hot functional testing (HFT) and extend for approximately 12 weeks.
2. N/A indicates completion of item involved only staff review of design or statistical information, licensee commitment, etc. Physical inspection of facility is not necessary.
3. Hot functional test (HFT), including steam generator testing and systems verification, will extend for approximately six-seven weeks. Plant readiness for HFT is estimated week of 8/8/83.



Table 2 Three Mile Island Restart "Long-Term (LT) Actions"

Item No.	Title (Commission Order Item*)	Licensee Action	NRC Action /Branch
1	II.K.2.9 (LT-1) Integrated Control System Failure Mode Effects Analysis	Complete	NUREG-0680, Supp. 3 Safety Evaluation Report (SER) 08/02/82
2	I.C.1 (LT-2) Procedures for Transients and Accidents (abnormal transient operating guidelines)	See GPU letter 04/14/83	NUREG-0737, Supp. 1
3	II.K.3.30, 31 (LT-3) Small-Break Loss-of-Coolant Accident Methods and Plant Unique Analysis	Complete	Reactor Systems Branch
4	II.D.1 (LT-3) Relief and Safety Valve Testing	Additional submittal pending (est. 09/83)	Mechanical Engineering Branch
5	II.F.2 (LT-3) Instrumentation for Inadequate Core Cooling	Complete	Core Performance Branch
6	II.E.4.1 (LT-3) Dedicated Hydrogen Penetrations	Complete	NUREG-0680, Supp. 3
7	II.B.2 (LT-3) Plant Shielding	Modifications due at next refueling	SER 03/28/83
8	II.E.1.2 (LT-3) Automatic Initiation of Auxiliary Feedwater (AFW)	Short-term modifications complete; long-term modifications at next refueling	Auxiliary Systems Branch
9	II.E.1.2 (LT-3) AFW Flow Indication	Complete	NUREG-0680, Supp. 3
10	II.B.3 (LT-3) Postaccident Sampling	Installation complete; submittal of additional information pending (est. 09/83)	Chemical Engineering Branch

\*Commission Order and Notice of Hearing dated August 9, 1979 (see NUREG-0680, Appendix C).

Table 2 (Continued)

Item No.	Title (Order Item*)	Licensee Action	NRC Action /Branch
11	II.F.1.3 (LT-3) High Range Radiation Monitors	Complete	NUREG-0680, Supp. 3
12	II.F.1.4 (LT-3) Containment Pressure Monitor	Installation complete; submittal of additional information pending (est. 09/83)	Containment Systems Branch
13	II.F.1.5 (LT-3) Containment Water Level Monitor	Installation complete; submittal of additional information pending (est. 09/83)	Containment Systems Branch
14	II.F.1.6 (LT-3) Containment Hydrogen Monitor	Installation complete; submittal of additional information pending (est. 09/83)	Containment Systems Branch
15	II.B.1 (LT-3) Reactor Coolant System Vents	Submittal complete; loop and pressurizer vents installed; reactor vessel hood vent at next refueling	Reactor Systems Branch
16	I.A.1.1 (LT-3) Shift Technical Advisor	Complete	NUREG-0680, Supp. 3
17	III.A.1.2 (LT-3) Onsite Technical Support Center (TSC)	Submittal complete; TSC operational 6 months after restart	Operating Reactors Branch #5
18	Modify Emergency Plans To Address Changing Capabilities of Plant Instrumentation (LT-4a)	See GPU letter 04/15/83	RG 1.97/ Operating Reactors Branch #5 NUREG-0737, Supp. 1
19	Extend the Capability To Take Appropriate Emergency Actions for Population Around the Site to a Distance of 10 Miles (LT-4b)	Complete	NUREG-0746

\*Commission Order and Notice of Hearing dated August 9, 1979 (see NUREG-0680, Appendix C).

APPENDIX B

LAWSUIT RECORD BY CATEGORY

CATEGORY 1  
TRIAL TESTIMONY

U. S. NUCLEAR REGULATORY COMMISSION  
HRC SPECIAL REPORT

R306290419 Transcript of R21101 trial between util & den in  
New York, NY, Po 1-184.

\*  
1985, District Court, Southern District of New York  
1  
DATE 1551827/11/01, 14900, 144119022=001,0011 ,T410801

IRRELEVANT

R307260457 Testimony of M Derivan on R21103 in New York, NY, Po 347-537.

DERIVAN, M., Toledo Edison Co.  
1  
DATE 1551827/11/01, 14900, 144119023=036,0011 ,T410801

NOT REVIEWED

R306290417 Testimony of M Derivan on R21104 in New York, NY, Po 538-607.

DERIVAN, M., Toledo Edison Co.  
1  
DATE 1551827/11/01, 14900, 144119023=176,0011 ,T410801

NOT REVIEWED

R307260610 Testimony of ER Frederick on R21202 in New York, NY, Po 3,161-  
3,215.

FREDERICK, F.R., General Public Utilities - GPU Service Corp.  
1  
DATE 1551827/12/02, 15000, 144119030=169,0011 ,T410801

1.2

R306290499 Testimony of ER Frederick on R21206 in New York, NY, Po 3,216-  
3,377.

FREDERICK, F.R., General Public Utilities - GPU Service Corp.  
1  
DATE 1551827/12/06, 16100, 144119030=204,0011 ,T410801

1.1, 1.2, 1.4, 1.5, 1.7,  
1.11

R306290502 Testimony of ER Frederick on R21207 in New York, NY, Po 3,378-  
3,559.

FREDERICK, F.R., General Public Utilities - GPU Service Corp.  
1  
DATE 1551827/12/07, 16100, 144119031=004,0011 ,T410801

1.1, 1.2, 1.3, 1.4, 1.5,  
1.6, 1.8



U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8306290541 Testimony of ER Frederick on 821208 in New York, NY, Po 3,560-  
3,733.

FREDERICK, E.R. (General Public Utilities - GPU Service Corp.

DATE ISS: 82/12/08, 174pp. ,4AX:19031-186,001: ,TN:GB01

1.2, 1.4, 1.6, 1.8, 1.12,  
1.16

8306290543 Testimony of ER Frederick on 821209 in New York, NY, Po 3,734-  
3,906.

FREDERICK, E.R. (General Public Utilities - GPU Service Corp.

DATE ISS: 82/12/09, 172pp. ,4AX:19031-361,001: ,TN:GB01

1.2, 1.3, 1.4, 1.5, 1.6

8306290560 Testimony of ER Frederick on 821213 in New York, NY, Po 3,990-  
4085.

FREDERICK, E.R. (General Public Utilities - GPU Service Corp.

DATE ISS: 82/12/13, 97pp. ,4AX:19032-257,001: ,TN:GB01

1.2, 1.3, 1.4, 1.5, 1.6,  
1.8, 1.11

8306290437 Testimony of DF Hallman on 821112 in New York, NY, Po 1,267-  
1,337.

HALLMAN, D.F. (Babcock & Wilcox Co.

DATE ISS: 82/11/12, 71pp. ,4AX:19025-183,001: ,TN:GB01

NOT REVIEWED

8306290440 Testimony of DF Hallman on 821115 in New York, NY, Po 1,338-  
1395.

HALLMAN, D.F. (Babcock & Wilcox Co.

DATE ISS: 82/11/15, 66pp. ,4AX:19025-254,001: ,TN:GB01

NOT REVIEWED

8307260388 Testimony of J Herbein on 830116 in New York, NY, Po 7,095-  
7,123.

HERBEIN, J. (General Public Utilities - GPU Service Corp.

DATE ISS: 83/01/18, 29pp. ,4AX:19041-118,001: ,TN:GB01

1.7, 1.15

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8306290660 Testimony of JG Harbain on 830119 in New York, NY, Po 7.124=  
7.156.

HARBAIN, J.G.      General Public Utilities - GPU Service Corp.

DATE 155183/01/19, 6200. ,4AX119041=147,001;      ,TN16801

1.7, 1.14

8307260429 Testimony of E Kane on 821214 in New York, NY, Po 4.370=  
4.388.

KANE, E.      Hancock & Wilson Co.

DATE 155182/12/19, 1900. ,4AX119033=276,001;      ,TN16801

NOT REVIEWED

8306290591 Testimony of RT Lanev on 821222 in New York, NY, Po 5.280=  
5.370.

LANEV, R.T.      Hensseler Polvrechnic Inst.

DATE 155182/12/22, 9100. ,4AX119036=105,001;      ,TN16801

NOT REVIEWED

8307260187 Testimony of J. Lind on 821216 in New York, NY, Po 4.662=  
4.746.

LIND, J.      Hancock & Wilson Co.

DATE 155182/12/16, 8500. ,4AX119034=207,001;      ,TN16801

NOT REVIEWED

8307260612 Testimony of J Lind on 821221 in New York, NY, Po 5.204=  
5.279.

LIND, J.      Hancock & Wilson Co.

DATE 155182/12/21, 7600. ,4AX119036=029,001;      ,TN16801

NOT REVIEWED

8306290630 Testimony of RJ Marzen on 830105 in New York, NY, Po 5.950=  
6.081.

MARZEC, R.J.      Duke Power Co.

DATE 155183/01/05, 13200. ,4AX119038=053,001;      ,TN16801

NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8306290634 Testimony of HJ Marzen on 830106 in New York, NY, Po 6,092=  
6,232.

MARZEC, H. J. Duke Power Co.

DATE 198103/01/06, 151pp., ,4RX119038=186,001; ,TN16801

NOT REVIEWED

8306290636 Testimony of HJ Marzen on 830107 in New York, NY, Po 6,233=  
6,359.

MARZEC, H. J. Duke Power Co.

DATE 198103/01/07, 127pp., ,4RX119038=137,001; ,TN16801

NOT REVIEWED

8306290642 Testimony of HJ Marzen on 830110 in New York, NY, Po 6,379=  
6,481.

MARZEC, H. J. Duke Power Co.

DATE 198103/01/10, 103pp., ,4RX119039=121,001; ,TN16801

NOT REVIEWED

8307260345 Testimony of G Menler on 830118 in New York, NY, Po 6,954=  
6,994.

MEHLER, G. General Public Utilities - GPU Service Corp.

DATE 198103/01/18, 41pp., ,4RX119040=339,001; ,TN16801

NOT REVIEWED

8307260077 Testimony of Seelinger on 830104 in New York, NY, Po 5,912=  
5949.

SEELINGER, J. United Technologies Corp.

DATE 198103/01/04, 14pp., ,4RX119038=025,001; ,TN16801

NOT REVIEWED

8307260216 Testimony of Seelinger on 830107 in New York, NY, Po 6,359=  
6,378.

SEELINGER, J. United Technologies Corp.

DATE 198103/01/07, 20pp., ,4RX119039=101,001; ,TN16801

NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307260447 Testimony of Sieglitz on 830103 in New York, NY, Pa 5,701-  
5,753.

SIEGLITZ, R. (General Public Utilities - GPU Service Corp.

DATE 198103/01/03, 9300, ,44X119037=166,001; ,TN16801

NOT REVIEWED

8306290637 Testimony of R Sieglitz on 830104 in New York, NY, Pa 5,754-  
5911.

SIEGLITZ, R. (General Public Utilities - GPU Service Corp.

DATE 198103/01/04, 14700, ,44X119037=219,001; ,TN16801

IRRELEVANT

8307260585 Testimony of E Swanson on 821215 in New York, NY, Pa 4,415-  
4,486.

Swanson, E. (Cobcock & Allen Co.

DATE 198107/12/15, 7000, ,44X119033=122,001; ,TN16801

NOT REVIEWED

8307260240 Testimony of MR Zewe on 821117 in New York, NY, Pa 1,792-  
1,875.

ZEW, R. H. (General Public Utilities - GPU Service Corp.

DATE 198102/11/17, 8400, ,44X119026=147,001; ,TN16801

NOT REVIEWED

8306290441 Testimony of MR Zewe on 821118 in New York, NY,  
Pa 1,876-2,039.

ZEW, R. H. (General Public Utilities - GPU Service Corp.

DATE 198102/11/18, 16300, ,44X119027=069,001; ,TN16801

NOT REVIEWED

8306290450 Testimony of MR Zewe on 821119 in New York, NY, Pa 2,040-  
2,137, Pa 2,040-2,081 withheld.

ZEW, R. H. (General Public Utilities - GPU Service Corp.

DATE 198102/11/19, 7500, ,44X119027=233,001; ,TN16801

NOT REVIEWED

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8306290452 Testimony of Mr Zewe on 821122 in New York, NY, Pg 2,138-  
2,311.

ZENE,n.n. (General Public utilities - GPU Service Corp.

DATE ISS:82/11/22, 173pp. ,4X119027=311,001: ,TN16801

NOT REVIEWED

8306290462 Testimony of Mr Zewe on 821124 in New York, NY, Pg 2,575-  
2,680.

ZENE,n.n. (General Public utilities - GPU Service Corp.

DATE ISS:82/11/24, 105pp. ,4X119028=285,001: ,TN16801

NOT REVIEWED

8306290486 Testimony of Mr Zewe on 821129 in New York, NY, Pg 2,661-  
2,830.

ZENE,n.n. (General Public utilities - GPU Service Corp.

DATE ISS:82/11/29, 149pp. ,4X119029=030,001: ,TN16801

NOT REVIEWED

8306290463 Testimony of Mr Zewe on 821201 in New York, NY,  
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ZENE,n.n. (General Public utilities - GPU Service Corp.

DATE ISS:82/12/01, 116pp. ,4X119029=273,001: ,TN16801

NOT REVIEWED

8306290472 Testimony of Mr Zewe on 821202 in New York, NY, Pg 3,041-  
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ZENE,n.n. (General Public utilities - GPU Service Corp.

DATE ISS:82/12/02, 140pp. ,4X119030=029,001: ,TN16801

NOT REVIEWED

001017 RECORDS SCANNED 35 RECORDS PRINTED ( 34 RECORDS, 1 SUPP.)  
ENDING CODE= 186 LAST KEY= Z01IACO,V.P. 7905116807



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DEPOSITIONS

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ARNOLD, R. C. : General Public Utilities - GPU Service Corp.  
DATE ISS: 82/06/29, 289pp. , 48X: 19489-024, ODI: , TN: GBO1 1.2

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ARNOLD, R. C. : General Public Utilities - GPU Service Corp.  
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BROUGHTON, T. G. : General Public Utilities - GPU Service Corp.  
DATE ISS: 82/02/09, 163pp. , 48X: 19059-293, ODI: , TN: GBO1 NOT REVIEWED

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BROWN, N. D. : Metropolitan Edison Co.  
DATE ISS: 81/06/08, 140pp. , 48X: 19062-234, ODI: , TN: GBO1 1.7, 1.14

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BROWN, N. D. : Metropolitan Edison Co.  
DATE ISS: 81/06/09, 118pp. , 48X: 19063-011, ODI: , TN: GBO1 1.2, 1.11

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DATE ISS: 81/06/10, 129pp. , 48X: 19061-347, ODI: , TN: GBO1 1.2, 1.7, 1.14, 1.15

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BROWN, N. D. : Metropolitan Edison Co.  
DATE ISS: 81/06/11, 121pp. , 48X: 19062-113, ODI: , TN: G801 IRRELEVANT

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BROWN, N. D. : Metropolitan Edison Co.  
DATE ISS: 81/06/12, 108pp. , 48X: 19061-143, ODI: , TN: G801 1.2, 1.4

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DATE ISS: 81/07/21, 111pp. , 48X: 19061-237, ODI: , TN: G801 1.2

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DOMINGUEZ, A. J. : General Public Utilities - GPU Service Corp.  
DATE ISS: 82/08/17, 122pp. , 48X: 19065-133, ODI: , TN: G801 1.2

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DUNN, B. M. : Babcock & Wilcox Co.  
DATE ISS: 81/03/11, 133pp. , 48X: 19065-256, ODI: , TN: G801 IRRELEVANT

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DUNN, B. M. : Babcock & Wilcox Co.  
DATE ISS: 81/03/12, 130pp. , 48X: 19066-028, ODI: , TN: G801 1.2

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DUNN, B. M. : Babcock & Wilcox Co.  
DATE ISS: 81/03/13, 129pp. , 48X: 19066-159, ODI: , TN: GB01 NOT REVIEWED

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DATE ISS: 81/03/19, 114pp. , 48X: 19066-289, ODI: , TN: GB01 NOT REVIEWED

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ELLIOTT, N. S. : Babcock & Wilcox Co.  
DATE ISS: 81/02/05, 146pp. , 48X: 19070-001, ODI: , TN: GB01 1.2, 1.6, 1.8, 1.9

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DATE ISS: 81/02/06, 167pp. , 48X: 19070-147, ODI: , TN: GB01 1.2, 1.6, 1.9

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ELLIOTT, N. S. : Babcock & Wilcox Co.  
DATE ISS: 81/02/11, 156pp. , 48X: 19070-315, ODI: , TN: GB01 1.2, 1.6

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ELLIOTT, N. S. : Babcock & Wilcox Co.  
DATE ISS: 81/02/12, 135pp. , 48X: 19071-111, ODI: , TN: GB01 1.2, 1.4, 1.6, 1.8, 1.11

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ELLIOTT, N. S. : Babcock & Wilcox Co.

DATE ISS: 81/02/13, 166pp. , 48X: 19071-248, ODI: , TN: GBO1 1.1, 1.3, 1.4

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Supporting documentation encl.

FAIST, F. : Babcock & Wilcox Co.

DATE ISS: 82/03/23, 148pp. , 48X: 19072-052, ODI: , TN: GBO1 IRRELEVANT

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FAUST, C. C. : Metropolitan Edison Co.

DATE ISS: 81/08/18, 127pp. , 48X: 19072-203, ODI: , TN: GBO1 1.2, 1.14

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FAUST, C. C. : Metropolitan Edison Co.

DATE ISS: 81/08/19, 283pp. , 48X: 19072-331, ODI: , TN: GBO1 1.2

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FAUST, C. C. : Metropolitan Edison Co.

DATE ISS: 81/08/20, 136pp. , 48X: 19301-291, ODI: , TN: GBO1 1.9

8306290701 Deposition of CC Faust on 810821 in New York, NY. Pp 413-566.

FAUST, C. C. : Metropolitan Edison Co.

DATE ISS: 81/08/21, 153pp. , 48X: 19073-275, ODI: , TN: GBO1 1.2, 1.4



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FAUST, C. C. : Metropolitan Edison Co.

DATE ISS: 81/09/24, 143pp. , 48X: 19074-068, ODI: , TN: GB01 1.2, 1.4, 1.6, 1.8

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FAUST, C. C. : Metropolitan Edison Co.

DATE ISS: 81/09/25, 185pp. , 48X: 19074-212, ODI: , TN: GB01 1.2, 1.4, 1.6, 1.8

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FLOYD, J. R. : Metropolitan Edison Co.

DATE ISS: 82/02/18, 159pp. , 48X: 19076-082, ODI: , TN: GB01 NOT REVIEWED

8306290727 Deposition of JR Floyd on 820219 in New York, NY. Pp 160-293.  
Supporting documentation encl.

FLOYD, J. R. : Metropolitan Edison Co.

DATE ISS: 82/02/19, 134pp. , 48X: 19076-241, ODI: , TN: GB01 1.7

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FLOYD, J. R. : Metropolitan Edison Co.

DATE ISS: 82/04/28, 128pp. , 48X: 19077-014, ODI: , TN: GB01 NOT REVIEWED

8306290736 Deposition of JR Floyd on 820429 in New York, NY. Pp 433-538.

FLOYD, J. R. : Metropolitan Edison Co.

DATE ISS: 82/04/29, 105pp. , 48X: 19077-144, ODI: , TN: GB01 NOT REVIEWED

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8306290738 Deposition of JR Floyd on 820430 in New York, NY. Pp 529-626.

FLOYD, J. R. : Metropolitan Edison Co.

DATE ISS: 82/04/30, 97pp. , 48X: 19077-250, ODI: , TN: GBO1

NOT REVIEWED

8306290714 Deposition of ER Frederick on 820504 in New York, NY. Pp  
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FREDERICK, E. R. : Metropolitan Edison Co.

DATE ISS: 82/05/04, 128pp. , 48X: 19077-348, ODI: , TN: GBO1

1.2, 1.6, 1.8

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FREDERICK, E. R. : Metropolitan Edison Co.

DATE ISS: 82/05/05, 152pp. , 48X: 19078-116, ODI: , TN: GBO1

1.2, 1.4, 1.5, 1.6

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FREDERICK, E. R. : Metropolitan Edison Co.

DATE ISS: 82/05/06, 138pp. , 48X: 19078-269, ODI: , TN: GBO1

1.2, 1.4

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FREDERICK, E. R. : Metropolitan Edison Co.

DATE ISS: 82/05/07, 142pp. , 48X: 19079-049, ODI: , TN: GBO1

1.2, 1.4, 1.6

8306290769 Deposition of ER Frederick on 820510 in New York, NY.  
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FREDERICK, E. R. : Metropolitan Edison Co.

DATE ISS: 82/05/10, 120pp. , 48X: 19079-193, ODI: , TN: GBO1

1.2, 1.4, 1.5, 1.6

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8306290780 Deposition of ER Frederick on 820512 in New York, NY.  
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FREDERICK, E. R. : Metropolitan Edison Co.

DATE ISS: 82/05/12, 108pp. , 48X: 19080-042, ODI: , TN: GB01 1.2

8306290786 Deposition of ER Frederick on 820513 in New York, NY.  
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FREDERICK, E. R. : Metropolitan Edison Co.

DATE ISS: 82/05/13, 98pp. , 48X: 19080-151, ODI: , TN: GB01 1.2, 1.3, 1.4, 1.5, 1.6

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GOSLOW, C. : Babcock & Wilcox Co.

DATE ISS: 82/01/07, 153pp. , 48X: 19082-185, ODI: , TN: GB01 NOT REVIEWED

8306290823 Deposition of C Goslow on 820108 in New York, NY. Pp 154-306.

GOSLOW, C. : Babcock & Wilcox Co.

DATE ISS: 82/01/08, 153pp. , 48X: 19082-338, ODI: , TN: GB01 NOT REVIEWED

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GOSLOW, C. E. : Babcock & Wilcox Co.

DATE ISS: 82/01/12, 124pp. , 48X: 19083-131, ODI: , TN: GB01 NOT REVIEWED

8306290833 Deposition of CE Goslow on 820617 in New York, NY. Pp 431-565.

GOSLOW, C. E. : Babcock & Wilcox Co.

DATE ISS: 82/06/17, 135pp. , 48X: 19083-254, ODI: , TN: GB01 NOT REVIEWED

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HALLMAN, D. F. : Babcock & Wilcox Co.

DATE ISS: 82/01/18, 82pp. , 48X: 19084-344, ODI: , TN: G801

IRRELEVANT

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HALLMAN, D. F. : Babcock & Wilcox Co.

DATE ISS: 82/01/19, 128pp. , 48X: 19085-064, ODI: , TN: G801

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HALLMAN, D. F. : Babcock & Wilcox Co.

DATE ISS: 82/01/20, 144pp. , 48X: 19085-192, ODI: , TN: G801

1.2, 1.4

8306290758 Deposition of DF Hallman on 820121 in New York, NY. Pp 354-458.

HALLMAN, D. F. : Babcock & Wilcox Co.

DATE ISS: 82/01/21, 105pp. , 48X: 19085-336, ODI: , TN: G801

1.11

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HALLMAN, D. F. : Babcock & Wilcox Co.

DATE ISS: 82/01/22, 89pp. , 48X: 19086-079, ODI: , TN: G801

1.2, 1.11

8306290745 Deposition of DF Hallman on 820615 in New York, NY. Pp 549-687.

HALLMAN, D. F. : Babcock & Wilcox Co.

DATE ISS: 82/06/15, 139pp. , 48X: 19086-168, ODI: , TN: G801

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HALLMAN, D. F. : Babcock & Wilcox Co.

DATE ISS: 82/06/16, 151pp. , 48X: 19086-307, QDI: , TN: Q801 1.2, 1.4, 1.6, 1.11

8306290867 Deposition of HW Hartman on 820716 in Elizabethtown, PA. Pp 1-206.

HARTMAN, H. W. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/07/16, 206pp. , 48X: 19088-299, QDI: , TN: Q801 IRRELEVANT

8306290881 Deposition of JG Herbein on 820630 in New York, N. Y. Pp 1-184.

HERBEIN, J. G. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/06/30, 187pp. , 48X: 19089-227, QDI: , TN: Q801 IRRELEVANT

8306290887 Deposition of JG Herbein on 820701 in New York, N. Y. Pp 185-294.

HERBEIN, J. G. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/07/01, 110pp. , 48X: 19090-051, QDI: , TN: Q801 1.7, 1.15

8306290892 Deposition of JG Herbein on 820702 in New York, N. Y. Pp 295-395.

HERBEIN, J. G. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/07/02, 124pp. , 48X: 19090-161, QDI: , TN: Q801 1.7, 1.11, 1.12, 1.14

8306290729 Deposition of TF Illjes on 820810 in New York, NY. Pp 1-156.

ILLJES, T. F. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/08/10, 157pp. , 48X: 19091-092, QDI: , TN: Q801 NOT REVIEWED



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KANE, E. R. : Babcock & Wilcox Co.

DATE ISS: 81/12/18, 66pp. , 48X: 19093-257, ODI: , TN: GBO1 1.2, 1.6, 1.14

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KARRASCH, B. A. : Babcock & Wilcox Co.

DATE ISS: 81/06/19, 74pp. , 48X: 19094-276, ODI: , TN: GBO1 NOT REVIEWED

8306290974 Deposition of RW Keaten on 820105 in New York, NY. Pp 92-201.

KEATEN, R. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/01/05, 116pp. , 48X: 19095-277, ODI: , TN: GBO1 1.5

8306290994 Deposition of RW Keaten on 820107 in New York, NY.  
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KEATEN, R. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/01/07, 142pp. , 48X: 19096-175, ODI: , TN: GBO1 IRRELEVANT

8306290900 Deposition of R Keaten on 820108 in New York, NY. Pp 488-626.

KEATEN, R. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/01/08, 137pp. , 48X: 19096-317, ODI: , TN: GBO1 1.4, 1.7

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KEATEN, R. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/01/19, 137pp. , 48X: 19097-093, ODI: , TN: GBO1 1.7

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KEATEN, R. : General Public Utilities - GPU Service Corp.  
DATE ISS: 82/01/20, 140pp. , 48X: 19097-230, ODI: , TN: 0801 1.2, 1.4, 1.5, 1.6, 1.7

8306290918 Deposition of R Keaten on 820121 in New York, NY. Pp 905-  
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KEATEN, R. : General Public Utilities - GPU Service Corp.  
DATE ISS: 82/01/21, 152pp. , 48X: 19098-009, ODI: , TN: 0801 1.7

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KELLY, J. J. : Babcock & Wilcox Co.  
DATE ISS: 81/05/04, 169pp. , 48X: 19098-161, ODI: , TN: 0801 1.4

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KELLY, J. J. : Babcock & Wilcox Co.  
DATE ISS: 81/05/05, 145pp. , 48X: 19098-331, ODI: , TN: 0801 1.2, 1.4

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KELLY, J. J. : Babcock & Wilcox Co.  
DATE ISS: 81/05/06, 138pp. , 48X: 19099-113, ODI: , TN: 0801 1.2, 1.4, 1.5, 1.6

8306290925 Deposition of JJ Kelly on 810507 in New York, N. Y. Pp 453-555.

KELLY, J. J. : Babcock & Wilcox Co.  
DATE ISS: 81/05/07, 103pp. , 48X: 19099-250, ODI: , TN: 0801 1.5, 1.7

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KOSIBA, R. E. : Babcock & Wilcox Co.

DATE ISS: 81/05/19, 76pp. , 48X: 19102-052, ODI:

, TN: GBO1

NOT REVIEWED

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LABELLE, D. H. : Babcock & Wilcox Co.

DATE ISS: 81/06/03, 124pp. , 48X: 19104-144, ODI:

, TN: GBO1

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LANESE, L. C. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/03/24, 128pp. , 48X: 19125-001, ODI:

, TN: GBO1

NOT REVIEWED

8306290792 Deposition of JA Lind on 820622 in Rockville, MD. Pp 1-185.

LIND, J. A. : NUS Corp.

DATE ISS: 82/06/22, 185pp. , 48X: 19126-244, ODI:

, TN: GBO1

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8306290796 Deposition of JA Lind on 820623 in Rockville, MD. Pp 186-412.

LIND, J. A. : NUS Corp.

DATE ISS: 82/06/23, 227pp. , 48X: 19127-068, ODI:

, TN: GBO1

1.2, 1.4, 1.5, 1.6, 1.8,  
1.11

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LONG, R. L. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/05/20, 104pp. , 48X: 19695-131, ODI:

, TN: GBO1

NOT REVIEWED

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LONG, R. L. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/05/21, 61pp. , 48X: 19695-240, ODI: , TN: 8B01 NOT REVIEWED

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MACMILLAN, J. R. : Babcock & Wilcox Co.

DATE ISS: 82/06/10, 190pp. , 48X: 19129-186, ODI: , TN: 8B01 1.2, 1.11

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MEHLER, B. A. : Metropolitan Edison Co.

DATE ISS: 81/07/28, 172pp. , 48X: 19131-031, ODI: , TN: 8B01 1.2

8306290806 Deposition of BA Mehler on 810730 in New York, NY. Pp 364-679.

MEHLER, B. A. : Metropolitan Edison Co.

DATE ISS: 81/07/30, 315pp. , 48X: 19132-034, ODI: , TN: 8B01 NOT REVIEWED

8306290848 Deposition of C Michelson on 820319 in Washington, DC. Pp 152-308.

MICHELSON, C. : Director's Office

DATE ISS: 82/03/19, 156pp. , 48X: 19133-232, ODI: , TN: 8B01 1.2, 1.6

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MILLER, G. P. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/06/02, 129pp. , 48X: 19134-160, ODI: , TN: 8B01 1.2

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MILLER, G. P. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/06/07, 78pp. , 48X: 19135-195, ODI: , TN: G801 1.2, 1.11, 1.12, 1.14

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MILLER, G. P. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/06/08, 127pp. , 48X: 19135-273, ODI: , TN: G801 1.2, 1.7, 1.15

8306290914 Deposition of GP Miller on 820610 in New York, NY. Pp 727-873.

MILLER, G. P. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/06/10, 147pp. , 48X: 19136-164, ODI: , TN: G801 1.1

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MURRAY, T. D. : Toledo Edison Co.

DATE ISS: 82/01/28, 167pp. , 48X: 19137-143, ODI: , TN: G801 NOT REVIEWED

8306290856 Deposition of JD Phinney on 820113 in New York, NY. Pp 1-134.

PHINNEY, J. D. : Babcock & Wilcox Co.

DATE ISS: 82/01/13, 134pp. , 48X: 19138-154, ODI: , TN: G801 NOT REVIEWED

8306290909 Deposition of WE Potts on 820107 in New York, NY. Pp 1-176.

POTTS, W. E. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/01/07, 176pp. , 48X: 19139-203, ODI: , TN: G801 IRRELEVANT



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8306290912 Deposition of MJ Ross on 811117 in Harrisburg, PA. Pp 1-201.

ROSS, M. J. : Metropolitan Edison Co.

DATE ISS: 81/11/17, 201pp. , 48X: 19141-322, ODI: , TN: 6B01

IRRELEVANT

8306290902 Deposition of F Scheimann on 820223 in New York, NY. Pp 1-156.

SCHEIMANN, F. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/02/23, 157pp. , 48X: 19143-235, ODI: , TN: 6B01

1.5

8306290942 Deposition of FJ Scheimann on 820225 in New York, NY. Pp 157-287.

SCHEIMANN, F. J. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/02/25, 131pp. , 48X: 19144-030, ODI: , TN: 6B01

1.2

8306290957 Deposition of FJ Scheimann on 820226 in New York, NY. Pp 288-399.

SCHEIMANN, F. J. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/02/26, 112pp. , 48X: 19144-161, ODI: , TN: 6B01

NOT REVIEWED

8306290965 Deposition of FJ Scheimann on 820401 in New York, NY. Pp 400-519.

SCHEIMANN, F. J. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/04/01, 120pp. , 48X: 19144-273, ODI: , TN: 6B01

1.2, 1.5

8306290870 Deposition of FJ Scheimann on 820427 in New York, NY. Pp 557-723.

SCHEIMANN, F. J. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/04/27, 167pp. , 48X: 19145-067, ODI: , TN: 6B01

NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
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8306290878 Deposition of FJ Scheimann on 820428 in New York, NY. Pp 724-881.

SCHEIMANN, F. J. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/04/28, 158pp. , 48X: 19145-235, ODI: , TN: 6B01

NOT REVIEWED

8306290884 Deposition of FJ Scheimann on 820608 in New York, NY. Pp 888-999.

SCHEIMANN, F. J. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/06/08, 112pp. , 48X: 19146-032, ODI: , TN: 6B01

NOT REVIEWED

8306290900 Deposition of FJ Scheimann on 820609 in New York, NY. Pp 1000-1068.

SCHEIMANN, F. J. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/06/09, 69pp. , 48X: 19146-145, ODI: , TN: 6B01

NOT REVIEWED

8306300009 Deposition of JL Seelinger on 811019 in Palm Beach, FL. Pp 1-101.

SEELINGER, J. L. : United Technologies Corp.

DATE ISS: 81/10/19, 101pp. , 48X: 19146-316, ODI: , TN: 6B01

IRRELEVANT

8306290948 Deposition of JL Seelinger on 811020 in Palm Beach, FL. Pp 102-248.

SEELINGER, J. L. : United Technologies Corp.

DATE ISS: 81/10/20, 147pp. , 48X: 19147-054, ODI: , TN: 6B01

1.2, 1.11

8306290941 Deposition of JL Seelinger on 811021 in Palm Beach, FL. Pp 249-413.

SEELINGER, J. L. : United Technologies Corp.

DATE ISS: 81/10/21, 165pp. , 48X: 19147-201, ODI: , TN: 6B01

1.4

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8306290937 Deposition of JL Seelinger on 811022 in Palm Beach, FL. Pp  
414-539.

SEELINGER, J. L. : United Technologies Corp.

DATE ISS: 81/10/22, 126pp. , 48X: 19148-003, ODI: , TN: GBO1 NOT REVIEWED

8306290932 Deposition of JL Seelinger on 811023 in Palm Beach, FL. Pp  
540-609.

SEELINGER, J. L. : United Technologies Corp.

DATE ISS: 81/10/23, 74pp. , 48X: 19148-129, ODI: , TN: GBO1 NOT REVIEWED

8306290820 Deposition of RJ Toole on 810622 in New York, NY.  
Pp 1-279.

TOOLE, R. J. : General Public Utilities - GPU Service Corp.

DATE ISS: 81/06/22, 279pp. , 48X: 19152-065, ODI: , TN: GBO1 1.2, 1.4

8306290824 Deposition of RJ Toole on 810623 in New York, NY. Pp 280-506.

TOOLE, R. J. : General Public Utilities - GPU Service Corp.

DATE ISS: 81/06/23, 226pp. , 48X: 19152-345, ODI: , TN: GBO1 1.1, 1.2

8306290754 Deposition of RL Williams on 820812 in New York, NY.  
Pp 1-98.

WILLIAMS, R. L. : Ebasco Services, Inc. (subs. of Enserch Corp.)

DATE ISS: 82/08/12, 100pp. , 48X: 19160-001, ODI: , TN: GBO1 NOT REVIEWED

8306290775 Deposition of RW Zechman on 820310 in New York, NY.  
Pp 1-156.

ZECHMAN, R. W. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/03/10, 156pp. , 48X: 19163-124, ODI: , TN: GBO1 1.7

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8306290781 Deposition of RW Zechman on 820311 in New York, NY.  
Pp 157-272.

ZECHMAN, R. W. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/03/11, 115pp. , 48X: 19163-280, ODI: , TN: QBO1 1.2, 1.7, 1.14

8306290788 Deposition of RW Zechman on 820312 in New York, NY.  
Pp 273-376.

ZECHMAN, R. W. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/03/12, 103pp. , 48X: 19164-033, ODI: , TN: QBO1 1.2, 1.7, 1.11, 1.14

8306290794 Deposition of RW Zechman on 820324 in New York, NY.  
Pp 377-523.

ZECHMAN, R. W. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/03/24, 146pp. , 48X: 19164-137, ODI: , TN: QBO1 1.2, 1.4, 1.7

8306290801 Deposition of RW Zechman on 820325 in New York, NY.  
Pp 524-540.

ZECHMAN, R. W. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/03/25, 116pp. , 48X: 19164-286, ODI: , TN: QBO1 1.2, 1.6

8306290749 Deposition of RW Zechman on 820326 in New York, NY. Pp  
642-728.

ZECHMAN, R. W. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/03/26, 86pp. , 48X: 19165-042, ODI: , TN: QBO1 1.2

8306290753 Deposition of RW Zechman on 820429 in New York, NY. Pp  
729-916.

ZECHMAN, R. W. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/04/29, 187pp. , 48X: 19165-129, ODI: , TN: QBO1 1.7, 1.14

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8306290761 Deposition of WH Zeve on 820520 in New York, NY. Pp 1-121.

ZEWE, W. H. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/05/20, 121pp. , 48X: 19165-318, ODI: , TN: GB01 IRRELEVANT

8306290766 Deposition of WH Zeve on 820521 in New York, NY. Pp 122-248.

ZEWE, W. H. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/05/21, 126pp. , 48X: 19166-078, ODI: , TN: GB01 1.2, 1.5

8306290770 Deposition of W Zeve on 820524 in New York, NY. Pp 249-350.

ZEWE, W. H. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/05/24, 101pp. , 48X: 19166-207, ODI: , TN: GB01 1.7

8306290746 Deposition of WH Zeve on 820525 in New York, NY. Pp 351-479.

ZEWE, W. H. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/05/25, 128pp. , 48X: 19166-310, ODI: , TN: GB01 1.7

8306290751 Deposition of WH Zeve on 820526 in New York, NY. Pp 480-645.

ZEWE, W. H. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/05/26, 165pp. , 48X: 19167-079, ODI: , TN: GB01 1.2, 1.7

8306290756 Deposition of WH Zeve on 820527 in New York, NY. Pp 646-790.

ZEWE, W. H. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/05/27, 20pp. , 48X: 19168-001, ODI: , TN: GB01 1.2, 1.7



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NRC SPECIAL REPORT

8306290760 Deposition of WH Zeue on 820528 in New York, NY. Pp 791-853.

ZEWE, W. H. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/05/28, 62pp. , 48X: 19168-028, ODI: , TN: CBO1 1.2, 1.7

000635 RECORDS SCANNED 115 RECORDS PRINTED ( 114 RECORDS, 1 SUPP. )  
ENDING CODE- 186 LAST KEY- ZEWE, W. H. 8205280807

CATEGORY 1

EXHIBITS

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307020119 Clarifies role of TMI training dept & svc provided by training administrators.

ZECHMAN, R.W. :Metropolitan Edison Co.  
:Metropolitan Edison Co.

DATE ISS:78/02/21, 2pp. ,4RX:19240-344,ODI:B&W 0055 ,TN:GB01

NOT REVIEWED

8307020122 Defines Unit 2 control room operator training program, scheduled to start on 750811.

SEELINGER, J.L. :Metropolitan Edison Co.  
HERBEIN, J.G. :Metropolitan Edison Co.

DATE ISS:75/08/06, 9pp. ,4RX:19242-196,ODI:B&W 0057 ,TN:GB01

NOT REVIEWED

8307020124 Discusses elements of Unit 2 control room operator training program for individual to receive cold operator license. Memo is training dept Administrative Memo 12, Change 1.

TSAGGARIS, A. :Metropolitan Edison Co.  
HERBEIN, J.G. :Metropolitan Edison Co.

DATE ISS:76/03/12, 3pp. ,4RX:19242-233,ODI:B&W 0058 ,TN:GB01

NOT REVIEWED

8307050027 Outlines Unit 2 control room operators training program. Memo canceled on 780715.

TSAGGARIS, A. :Metropolitan Edison Co.  
HERBEIN, J.G. :Metropolitan Edison Co.

DATE ISS:76/08/30, 2pp. ,4RX:19242-236,ODI:B&W 0059 ,TN:GB01

IRRELEVANT

8307050041 Forwards outline of Unit 2 cold licensing reactor operator & senior reactor operator training program. Briefly describes program.

GOODMAN, D.A. :Metropolitan Edison Co.  
:Metropolitan Edison Co.

DATE ISS:77/04/04, 8pp. ,4RX:19242-238,ODI:B&W 0060 ,TN:GB01

NOT REVIEWED

8307020022 Discusses incorporation of Unit 1 & other operating experience into Unit 2 training effort.

SEELINGER, J. :Metropolitan Edison Co.  
TSAGGARIS, L. :Metropolitan Edison Co.

DATE ISS:77/04/06, 1p. ,4RX:19208-296,ODI:B&W 0072 ,TN:GB01

IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307020025 Advises that min 1 h training program being prepared to cover industry experience, Unit 1 experience & ROs from similar units, per J Saalinger 770406 request.

GOODMAN, O.A. :Metropolitan Edison Co.  
TSAGGARIS, A. :Metropolitan Edison Co.  
DATE ISS:77/04/12, 1p. ,48x:19208-297, ODI:B&W 0073 ,TN:G801

NOT REVIEWED

8307020027 Discusses dissemination of generic info to licensees by IE bulletins, circulars & info notices.

\* :Metropolitan Edison Co.  
: DATE ISS:81/06/11, 3pp. ,48x:19208-298, ODI:B&W 0075 ,TN:G801

NOT REVIEWED

8307020034 Discusses results of RC audit of ANSI Std 18.1 requirements, notification of operator exam failure, receipt of info on transients at other B&W plants, industry comparison re NRC exams & NRC grading of exams.

BROWN, N.P. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:81/06/11, 3pp. ,48x:19208-306, ODI:B&W 0078 ,TN:G801

NOT REVIEWED

8307020037 "R Trip/Engineered Safeguards Incident, 780423."

\* :Babcock & Wilcox Co.  
: DATE ISS:81/06/12, 89pp. ,48x:19208-337, ODI:B&W 0079 ,TN:G801

NOT REVIEWED

8307050510 Advises that licensee did not receive Insp Rept 50-346/78-06 re transient event prior to 790530 hearing. Documents encl illustrate actual notice of info on certain operating problems encountered at other plants.

ARNOLD, R.C. :General Public Utilities - GPU Service Corp.  
KEMENT, J.G. :President's Commission on the Accident at Three Mile Island  
DATE ISS:79/08/30, 5pp. ,48x:19324-064, ODI:B&W 0208 ,TN:G801

NOT REVIEWED

8307070193 Forwards final minutes of Meeting 30 of General Ofc Review Board re TMI.

REPPERT, O.H. :General Public Utilities - GPU Service Corp.  
BARTMAN, J.S. :General Public Utilities - GPU Service Corp.  
DATE ISS:78/10/24, 11pp. ,48x:19325-060, ODI:B&W 0209 ,TN:G801

NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307070269 "Master Contract for Engineering & Technical Svcs."

ARNULD :Metropolitan Edison Co.  
:

DATE ISS:75/03/27, 13pp. ,48x:19325-170,ODI:B&W 0214 ,TN:G801

NOT REVIEWED

8307070273 Rev C to "Proposal for Long-term Contract for TMI Nuclear  
Station Units I & II Operator Training."

\* :Babcock & Wilcox Co.  
:

DATE ISS:75/03/07, 16pp. ,48x:19325-184,ODI:B&W 0215 ,TN:G801

NOT REVIEWED

8307070277 "Master Contract for Engineering & Technical Svcs."

MILLER,C.G. :Metropolitan Edison Co.  
:

DATE ISS:73/10/01, 10pp. ,48x:19325-228,ODI:B&W 0216 ,TN:G801

NOT REVIEWED

8307070310 "Proposal for Supply of Long-Term Contract for TMI Nuclear  
Station Operator Training."

\* :Babcock & Wilcox Co.  
:

DATE ISS:74/10/23, 14pp. ,48x:19325-247,ODI:B&W 0223 ,TN:G801

NOT REVIEWED

8307070313 Proposes long-term training svc contract for continued  
support of training program.Proposal A4-61 Rev A encl.

HELLER,F.C. :Babcock & Wilcox Co.  
GUERIN,J.E. :Metropolitan Edison Co.

DATE ISS:75/02/04, 17pp. ,48x:19325-289,ODI:B&W 0224 ,TN:G801

NOT REVIEWED

8307070320 Proposes long-term training svc contract for continued  
support of training program.Proposal A4-61 Rev C encl.

HELLER,F.C. :Babcock & Wilcox Co.  
GUERIN,J.E. :Metropolitan Edison Co.

DATE ISS:75/03/07, 17pp. ,48x:19325-348,ODI:B&W 0226 ,TN:G801

NOT REVIEWED



U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307070324 Recommends prompt action in approving B&W simulator training  
Contract Proposal A4-61 Rev B.

HETRICK, D.E. :General Public Utilities - GPU Service Corp.  
ARNOLD, R.C. :General Public Utilities - GPU Service Corp.  
DATE ISS:75/02/28, 2pp. ,48x:19326-003,001:B&W 0227 ,TN:GB01

NOT REVIEWED

8307020075 "Final Rept of TMI-2 Accident Assessment Documentation -  
Training Programs & Procedure Review."

\* :Babcock & Wilcox Co.  
:DATE ISS:79/05/16, 25pp. ,48x:19244-348,001:B&W 0232 ,TN:GB01

NOT REVIEWED

8307020078 "Use of B&W Simulator Before & After TMI-2 Accident on  
790328."

\* :Babcock & Wilcox Co.  
:DATE ISS:81/07/21, 8pp. ,48x:19245-011,001:B&W 0233 ,TN:GB01

NOT REVIEWED

8307020081 "Pedagogical Review of Reactor Operator Training at TMI  
Nuclear Plant," post TMI-2 accident analysis.

\*ITZIG, W.F. :Pennsylvania State Univ.  
:DATE ISS:80/07/31, 33pp. ,48x:19245-019,001:B&W 0234 ,TN:GB01

NOT REVIEWED

8307020084 Resume of SA Mehler.

\* :Babcock & Wilcox Co.  
:DATE ISS:79/07/20, 10pp. ,48x:19245-081,001:B&W 0235 ,TN:GB01

NOT REVIEWED

8307120020 Forwards final report on 780423 reactor trip/ES of 780423  
incident.

SEELINGER, J.L. :Metropolitan Edison Co.  
MILLER, G.P. :Metropolitan Edison Co.  
DATE ISS:78/05/04, 89pp. ,48x:19501-267,001:B&W 0246 ,TN:GB01

1.1, 1.9

U. S. NUCLEAR REGULATORY COMMISSION  
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8307050320 Suggests areas in which evaluation of 790423 incident could  
be more accurate & complete. Concentration suggested in areas  
of malfunctioning safeties, flow testing of mu-V-les &  
poorly-designed alarm sys.  
FREDERICK, E. : General Public Utilities - GPU Service Corp.  
Babcock & Wilcox Co.  
DATE ISS: 78/05/03, 500. , 48X: 19327-243, 001: B&W 0264 , TN: GB01 1.2

8307050526 Preliminary inquiry of TMI incident of 790328.  
  
ZEH, W. H. : General Public Utilities - GPU Service Corp.  
Babcock & Wilcox Co.  
DATE ISS: 79/04/03, 500. , 48X: 19327-262, 001: B&W 0271 , TN: GB01 1.2, 1.4, 1.6

8307060513 "Atomic Physics."  
  
\* Babcock & Wilcox Co.  
DATE ISS: 81/09/24, 90300. , 48X: 19272-237, 001: B&W 0276 , TN: GB01 1.2, 1.6

8307080024 Documentation discussing feedwater sys.  
  
\* Babcock & Wilcox Co.  
DATE ISS: 81/09/24, 34400. , 48X: 19330-019, 001: B&W 0277 , TN: GB01 1.1, 1.2

8307080027 "B&W Videotape Training Manual," Cover page only.  
  
\* Babcock & Wilcox Co.  
DATE ISS: 81/09/24, 10. , 48X: 19331-001, 001: B&W 0278 , TN: GB01 1.1, 1.4

8307120648 "B&W videotape Training Manual," re integrated control sys.  
  
\* Babcock & Wilcox Co.  
DATE ISS: 81/09/24, 13000. , 48X: 19502-077, 001: B&W 0278 , TN: GB01 NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307120658 "B&W Videotape Training Manual," re detailed description  
of transient.

\*                   : Babcock & Wilcox Co.  
                  :                   1  
DATE ISS:81/09/24,   400,   ,4RX:19502=207,00I:B&W 0278A       ,TN:G801       NOT REVIEWED

8307080123 Forwards confidential info re cross-licensing status reot.

SEELINGER, J.   : Metropolitan Edison Co.  
HERBEIN, J.    : Metropolitan Edison Co.  
DATE ISS:75/04/14, 1500,   ,4RX:19331=227,00I:B&W 0289       ,TN:G801       NOT REVIEWED

8307080130 Discusses Unit 2 control room operator training on Unit 1,  
for period 751201=760116. Lists areas to be covered.

\*                   : Metropolitan Edison Co.  
                  : Metropolitan Edison Co.  
DATE ISS:75/11/17,   10,   ,4RX:19331=242,00I:B&W 0290       ,TN:G801       NOT REVIEWED

8307080136 Discusses yearly simulator training program per request.

ZECHMAN, R.    : Metropolitan Edison Co.  
SEELINGER, J.  : Metropolitan Edison Co.  
DATE ISS:78/06/07,   10,   ,4RX:19331=243,00I:B&W 0291       ,TN:G801       NOT REVIEWED

8307080143 Discusses justification for acquiring funds to purchase  
simulator.

SEELINGER, J. L. : Metropolitan Edison Co.  
ZECHMAN, R.    : Metropolitan Edison Co.  
DATE ISS:78/06/07,   200,   ,4RX:19331=244,00I:B&W 0292       ,TN:G801       NOT REVIEWED

8307120670 Forwards list of evolutions & emergencies to be conducted  
& responded to during simulator requalification training.

SEELINGER, J. L. : Metropolitan Edison Co.  
ELLIOT, M. S.   : Babcock & Wilcox Co.  
DATE ISS:75/03/06,   400,   ,4RX:19502=214,00I:B&W 0293       ,TN:G801       1.2, 1.11

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307080150 Forwards schedule for six 1-wk requalification training programs.

STREET, B.W. :Babcock & Wilcox Co.  
SEELINGER, J. :Metropolitan Edison Co.  
DATE ISS:75/03/11, 2pp. ,4RX:19331-246,00I:B&W 0294 ,TN:G801 NOT REVIEWED

8307080161 Documentation on simulator.

\* :Babcock & Wilcox Co.  
: :  
DATE ISS:75/02/28, 42pp. ,4RX:19331-285,00I:B&W 0296 ,TN:G801 NOT REVIEWED

8307080165 Discusses specific assignments for JR Floyd & JL Seelinger re STS.

MILLER, G.P. :Metropolitan Edison Co.  
FLOYD, J.R. :Metropolitan Edison Co.  
DATE ISS:77/03/03, 2pp. ,4RX:19331-355,00I:B&W 0297 ,TN:G801 NOT REVIEWED

8307080196 Forwards memo indicating problem w/lack of attendance at requalification training. Prior to granting vacation for personnel, training schedule should be checked.

LAWYER, L.L. :Metropolitan Edison Co.  
:Metropolitan Edison Co.  
DATE ISS:78/09/19, 2pp. ,4RX:19332-021,00I:B&W 0302 ,TN:G801 1.7

8307120683 Provides documentation on third 5-wk requalification training program attendance. Figures show slight improvement.

BEETS, M.L. :Metropolitan Edison Co.  
MILLER, G.P. :Metropolitan Edison Co.  
DATE ISS:78/09/01, 1p. ,4RX:19501-362,00I:B&W 0304 ,TN:G801 1.2

8307070385 Draft transcript of investigative task force meeting w/ operating crew on duty in control room on morning of 790328.

\* :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:82/01/07, 234pp. ,4RX:19321-015,00I:B&W 0346 ,TN:G801 NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307070397 First draft "GPU Task Force Interim Summary Rept."

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/09/28, 56pp. ,48X:19321-250,ODI:B&W 0347 ,TN:GB01 1.2, 1.4, 1.5, 1.6

8308230585 Transcript of TMI Investigative Task Force Taped Interview 4  
(Keaten Tapes) on 790A24.Pp 1-45.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/08/24, 46pp. ,48X:20125-198,ODI:B&W 0347D ,TN:GB01 NOT REVIEWED

8308230597 Transcript of TMI Investigative Task Force Taped Interview 5  
(Keaten Tapes) on 790919.Pp 1-61.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/09/19, 62pp. ,48X:20125-244,ODI:B&W 0347E ,TN:GB01 NOT REVIEWED

8308230601 Transcript of TMI Investigative Task Force Taped Interview 6  
(Keaten Tapes) on 790919.Pp 1-60.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/09/19, 61pp. ,48X:20125-307,ODI:B&W 0347F ,TN:GB01 NOT REVIEWED

8308230606 Transcript of TMI Investigative Task Force Taped Interview 7  
(Keaten Tapes) on 790919.Pp 1-63.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/09/19, 64pp. ,48X:20126-007,ODI:B&W 0347G ,TN:GB01 NOT REVIEWED

8308230612 Transcript of TMI Investigative Task Force Taped Interview 9  
(Keaten Tapes) on 790919.Pp 1-30.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/09/19, 31pp. ,48X:20126-138,ODI:B&W 0347I ,TN:GB01 NOT REVIEWED



U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8308230617 Transcript of TMI Investigative Task Force Taped Interview  
10 (Keaten Tapes) on 790920. Po 1-64.

\* :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:79/09/20, 65pp. ,4Rx:20126-169,ODI:B&W 0347J ,TN:GB01

NOT REVIEWED

8308230619 Transcript of TMI Investigative Task Force Taped Interview  
11 (Keaten Tapes) on 790920. Po 1-66.

\* :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:79/09/20, 67pp. ,4Rx:20126-234,ODI:B&W 0347K ,TN:GB01

NOT REVIEWED

8308230623 Transcript of TMI Investigative Task Force Taped Interview  
12 (Keaten Tapes) on 790920. Po 1-59.

\* :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:79/09/20, 60pp. ,4Rx:20126-301,ODI:B&W 0347L ,TN:GB01

NOT REVIEWED

8308230626 Transcript of TMI Investigative Task Force Taped Interview  
13 (Keaten Tapes) on 790924. Po 1-26.

\* :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:79/09/24, 27pp. ,4Rx:20126-359,ODI:B&W 0347M ,TN:GB01

NOT REVIEWED

8307070438 Second draft "GPU Task Force Interim Summary Rept."

KEATEN,R.W. :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:79/10/06, 57pp. ,4Rx:19322-016,ODI:B&W 0349 ,TN:GB01

1.2, 1.3, 1.4, 1.6

8307080673 Forwards "GPU Task Force Interim Summary Rept," third draft  
re TMI-2 accident on 790328.

KEATEN,R.W. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:79/10/17, 1p. ,4Rx:19402-181,ODI:B&W 0350 ,TN:GB01

1.2, 1.3, 1.4, 1.6, 1.8,  
1.10, 1.14

U. S. NUCLEAR REGULATORY COMMISSION  
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8307080681 Forwards "GPU Task Force Interim Summary Rept" re findings & conclusions to date & presenting preliminary recommendations re TMI-2 accident on 790328.

KEATEN, R.W. : General Public Utilities - GPU Service Corp.  
DIECKAMP, H.M. : General Public Utilities - GPU Service Corp.  
DATE ISS: 79/10/29, 1p. , 48x: 19402-339, ODI: B&W 0351 , TN: G801

1.2, 1.3, 1.4, 1.6, 1.8,  
1.10, 1.14

8307080688 "GPU Accident Review Task Force Interim Summary Rept."

KEATEN, R.W. : General Public Utilities - GPU Service Corp.  
DATE ISS: 79/11/28, 41pp. , 48x: 19403-019, ODI: B&W 0352 , TN: G801

1.2, 1.3, 1.4, 1.6, 1.8,  
1.10, 1.14

8307080693 "GPU Accident Review Task Force Final Summary Rept."

\* : General Public Utilities - GPU Service Corp.  
DATE ISS: 80/03/24, 41pp. , 48x: 19403-068, ODI: B&W 0354 , TN: G801

1.2, 1.3, 1.4, 1.5

8307080695 "GPU Accident Review Task Force Final Summary Rept."

\* : General Public Utilities - GPU Service Corp.  
DATE ISS: 80/05/12, 50pp. , 48x: 19403-112, ODI: B&W 0355 , TN: G801

NOT REVIEWED

8307080698 "GPU Accident Review Task Force Final Summary Rept."

KEATEN, R.W. : General Public Utilities - GPU Service Corp.  
DATE ISS: 80/12/15, 49pp. , 48x: 19403-161, ODI: B&W 0356 , TN: G801

1.2, 1.4, 1.5, 1.6

8307080699 Forwards marked-up task force rept indicating significant differences from interim rept. w/o encl.

KEATEN, R.W. : General Public Utilities - GPU Service Corp.  
DIECKAMP, H.M. : General Public Utilities - GPU Service Corp.  
DATE ISS: 80/09/02, 1p. , 48x: 19404-017, ODI: B&W 0357 , TN: G801

NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
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8307120734 Transcript of 790412 interview w/G Miller. Pp 1-58.

\* :Metropolitan Edison Co.  
: DATE ISS:79/04/12, 58pp. ,4AX:19502-230,ODI:B&W 0360 ,TN:GB01 1.2

8307080708 Transcript of task force interviews.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/09/19, 110pp. ,4AX:19404-024,ODI:B&W 0361 ,TN:GB01 NOT REVIEWED

8307080709 Transcript of interview w/util crew not directly involved in 790328 accident.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:82/01/21, 288pp. ,4AX:19404-134,ODI:B&W 0362 ,TN:GB01 NOT REVIEWED

8307080717 Forwards results, conclusions & recommendations re Task 1, Subtask 4 & Task 2, Subtasks 5 & 7 concerning TMI-2 accident review.

KITTELSON, L.L. :Metropolitan Edison Co.  
TSAGGARIS, A. :Metropolitan Edison Co.  
DATE ISS:79/09/28, 21pp. ,4AX:19405-064,ODI:B&W 0365 ,TN:GB01 NOT REVIEWED

8307080720 "Task 2 Rationale for Operation/Staff Response Subtask 8 - Define why HPI was Modulated."

WALSH, P.S. :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/08/03, 3pp. ,4AX:19405-084,ODI:B&W 0366 ,TN:GB01 NOT REVIEWED

8307080055 Forwards draft TMI-111, "Analysis of TMI-2 Operator Response."

WALSH, P.S. :General Public Utilities - GPU Service Corp.  
ARNOLD, R.C. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/07/18, 1p. ,4AX:19333-251,ODI:B&W 0374 ,TN:GB01 NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
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8307080063 Excerpt from "Lessons Learned From TMI In Reactor  
Instrumentation & Diagnostics."

\* :Babcock & Wilcox Co.  
:   
DATE ISS:83/07/06, 10. ,4RX:19334-004,ODI:B&W 0376 ,TN:G801 NOT REVIEWED

8307080064 Procedure 054 "Analysis of TMI-2 Operator Response."

WALSH,P.S. :General Public Utilities - GPU Service Corp.  
:   
DATE ISS:79/10/19, 4300. ,4RX:19334-005,ODI:B&W 0377 ,TN:G801 NOT REVIEWED

8307080074 LER 79-014/01T: on 790502, reactor high pressure scram  
occurred. Caused by lack of procedural direction to operators  
w/reactor scrammed & recirculation pumps tripped. Procedures  
reviewed & changed. w/790516 ltr.

ROSS,D.A. :Jersey Central Power & Light Co.  
GRIER,B.H. :Region 1, Office of Director  
DATE ISS:79/05/16, 600. ,4RX:19334-078,ODI:B&W 0379 ,TN:G801 NOT REVIEWED

8307080125 Forwards report re 790502 transient which resulted in  
unexpected low water level in reactor vessel.

FINFROCK,I.R. :Jersey Central Power & Light Co.  
:Office of Nuclear Reactor Regulation, Director  
DATE ISS:79/05/12, 200. ,4RX:19334-132,ODI:B&W 0386 ,TN:G801 NOT REVIEWED

8307080241 Second draft of GPU Task Force "Interim Summary Report."

KEATEN,R.W. :General Public Utilities - GPU Service Corp.  
:   
DATE ISS:79/10/06, 6600. ,4RX:19335-358,ODI:B&W 0402 ,TN:G801 NOT REVIEWED

8307080244 Forwards third draft to: "Interim Summary Report."

KEATEN,R.W. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:79/10/17, 10. ,4RX:19336-118,ODI:B&W 0403 ,TN:G801 NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307080247 Third draft of "Interim Summary Rept."

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/10/17, 73pp. ,48x:19336-119,001:B&W 0403 ,TN:GB01 NOT REVIEWED

8307080642 Draft training program assessment.

\* :Babcock & Wilcox Co.  
: DATE ISS:79/05/08, 8pp. ,48x:19336-339,001:B&W 0405 ,TN:GB01 NOT REVIEWED

8307080645 Discusses TMI Unit 1 restart training & procedures.  
Procedures should include expected tempos down stream of  
stuck open primary relief valve.

BROUGHTON,G. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
: DATE ISS:79/06/22, 4pp. ,48x:19336-347,001:B&W 0406 ,TN:GB01 NOT REVIEWED

8307080649 Operational log. "Influence of Operator Action."

\* :Babcock & Wilcox Co.  
: DATE ISS:82/02/09, 7pp. ,48x:19336-351,001:B&W 0407 ,TN:GB01 NOT REVIEWED

8307110687 Resume of JR Floyd.

FLOYD,J.R. :Metropolitan Edison Co.  
: DATE ISS:82/02/18, 1p. ,48x:19442-176,001:B&W 0460 ,TN:GB01 NOT REVIEWED

8307110690 Discusses reactor operator training at B&W in Lynchburgh,VA.

\* :General Public Utilities - GPU Service Corp.  
HERBEIN :General Public Utilities - GPU Service Corp.  
: DATE ISS:76/06/24, 3pp. ,48x:19442-117,001:B&W 0461 ,TN:GB01 NOT REVIEWED



U. S. NUCLEAR REGULATORY COMMISSION  
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8307110693 Discusses status of operator training progress for wk  
ending 770227. All groups have fallen way off regional  
curves. Program in trouble.

TSAGGARIS, A. :Metropolitan Edison Co.  
HERBEIN, J. :Metropolitan Edison Co.  
DATE ISS:77/03/01, 11pp. , 4Rx:19442-180, OOI:B&W 0462 , TN:G801 1.7

8307120795 Summarizes results of 770714 oral exams for Unit 2 licensing  
candidates.

TSAGGARIS, A. :Metropolitan Edison Co.  
LAWYER, L. L. :Metropolitan Edison Co.  
DATE ISS:77/07/18, 5pp. , 4Rx:19502-327, OOI:B&W 0463 , TN:G801 NOT REVIEWED

8307110696 Progress rept sheet for C Keyser, D Boltz & R Heilman for  
May 10 through Jul 1.

SMITH, J. :General Public Utilities - GPU Service Corp.  
DATE ISS:82/02/18, 4pp. , 4Rx:19442-191, OOI:B&W 0464 , TN:G801 NOT REVIEWED

8307110699 Operational log. Summary of operational sequence of events on  
790328 accident.

\* :General Public Utilities - GPU Service Corp.  
DATE ISS:82/02/18, 241pp. , 4Rx:19442-195, OOI:B&W 0465 , TN:G801 NOT REVIEWED

8307090230 vol II, "Accident."

\* :Babcock & Wilcox Co.  
DATE ISS:79/11/02, 318pp. , 4Rx:19412-126, OOI:B&W 0466 , TN:G801 NOT REVIEWED

8307090240 Marked-up handwritten notes on NRC Inso 77-04 on 770201-03.

SEELINGER, J. L. :Metropolitan Edison Co.  
DATE ISS:77/02/03, 7pp. , 4Rx:19413-087, OOI:B&W 0468 , TN:G801 NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
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8307090249 Proposed agenda for 771012-13 GORB briefing.

SEELINGER, J. L. :Metropolitan Edison Co.  
BROUGHTON, T. G. :Metropolitan Edison Co.  
DATE ISS:77/09/12, 2pp., 48x:19413-127, ODI:8&W 0470 ,TN:G801 NOT REVIEWED

8307090267 Resume of FJ Scheimann.

SCHEIMANN, F. J. :Metropolitan Edison Co.  
DATE ISS:82/02/23, 2pp., 48x:19413-172, ODI:8&W 0514 ,TN:G801 NOT REVIEWED

8307090272 Job-related training program records for F Scheimann.

\* :Metropolitan Edison Co.  
DATE ISS:82/02/23, 3pp., 48x:19413-174, ODI:8&W 0515 ,TN:G801 NOT REVIEWED

8307090278 Attendees at 740905, 06, 1129 & 1203 training programs re selected emergency procedures, operational QA, Tech Spec review & major operational evaluations.

SEELINGER, J. :Metropolitan Edison Co.  
DATE ISS:74/09/06, 5pp., 48x:19413-177, ODI:8&W 0516 ,TN:G801 NOT REVIEWED

8307090281 Computer list of training courses, dates & instructors.

\* :Metropolitan Edison Co.  
DATE ISS:75/12/31, 3pp., 48x:19413-182, ODI:8&W 0517 ,TN:G801 NOT REVIEWED

8307090287 Notices of second progress evaluation exam for, cold licensing, Matl to be covered in exam listed.

GODDMAN, O. :Metropolitan Edison Co.  
NEUMANN, D. :Metropolitan Edison Co.  
DATE ISS:77/03/25, 4pp., 48x:19413-185, ODI:8&W 0518 ,TN:G801 NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
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8307090294 Computerized list of lesson programs dates & employees.

\* :Metropolitan Edison Co.  
: 1  
DATE ISS:78/03/28, 200. ,4RX:19413-190,ODI:B&W 0520 ,TN:G801 NOT REVIEWED

8307090304 Senior Operator License OP-3237 for FJ Scheimann at TMI-2.

COLLINS,P.F. : Assistant Director for Operating Reactors  
: 1  
DATE ISS:78/05/03, 10. ,4RX:19413-194,ODI:B&W 0522 ,TN:G801 NOT REVIEWED

8307090309 Printout for FJ Scheimann, indicating training courses completed.

SCHEIMANN,F.J. :Metropolitan Edison Co.  
: 1  
DATE ISS:79/05/24, 200. ,4RX:19413-195,ODI:B&W 0523 ,TN:G801 NOT REVIEWED

8307090313 Administrative training records for F Scheimann.

SCHEIMANN,F.J. :Metropolitan Edison Co.  
: 1  
DATE ISS:82/02/25, 1000. ,4RX:19413-225,ODI:B&W 0524 ,TN:G801 NOT REVIEWED

8307060620 Drawings of integrated control svcs subsystems, including reactor demand subsystem & feedwater subsystem.

\* :Babcock & Wilcox Co.  
: 1  
DATE ISS:82/02/25, 50000. ,4RX: - ,ODI:B&W 0525 ,TN:G801 NOT REVIEWED

8307060615 "Horse Book Update."

\* :Babcock & Wilcox Co.  
: 1  
DATE ISS:82/02/25, 113500. ,4RX:19305-302,ODI:B&W 0526 ,TN:G801 NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
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8307090317 "Integrated Control Sys," videotape training manual.

\* :Babcock & Wilcox Co.  
: DATE ISS:82/02/25, 982pp. ,4RX:19413-235,ODI:B&W 0527 ,TN:GB01 NOT REVIEWED

8307060602 "Unit 2 Reactor Protection Sys."

\* :Babcock & Wilcox Co.  
: DATE ISS:82/02/25, 306pp. ,4RX:19303-001,ODI:B&W 0528 ,TN:GB01 NOT REVIEWED

8307060605 "Reactor Theory Review:1978-79 Recual Review Course."

\* :Babcock & Wilcox Co.  
: DATE ISS:79/12/31, 715pp. ,4RX:19303-307,ODI:B&W 0529 ,TN:GB01 NOT REVIEWED

8307060515 Documentation on plant sys.

\* :Babcock & Wilcox Co.  
: DATE ISS:82/02/25, 95pp. ,4RX:19275-060,ODI:B&W 0530 ,TN:GB01 NOT REVIEWED

8307060508 Documentation of plant sys.

\* :Babcock & Wilcox Co.  
: DATE ISS:82/02/25, 86pp. ,4RX:19277-296,ODI:B&W 0531 ,TN:GB01 NOT REVIEWED

8307060562 "Sys Descriptions:Primary sys."

\* :Babcock & Wilcox Co.  
: DATE ISS:83/07/06, 66pp. ,4RX:19308-355,ODI:B&W 0532 ,TN:GB01 NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
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8307060566 "Lecture Series in Nuclear Power Plant Operations."

\* :Pennsylvania State Univ.  
: DATE ISS:69/04/30, 775pp. ,48X:19309-120,00I:B&W 0533 ,TN:G801 NOT REVIEWED

8307060609 "Reactor Theory & Nuclear Physics."

SCHEIMANN,F.J. :Babcock & Wilcox Co.  
: DATE ISS:82/12/21, 680pp. ,48X:19283-117,00I:B&W 0534 ,TN:G801 NOT REVIEWED

8307060612 Rev 0 to nuclear power plant operations manual,Vol 2.

ALBERT,J.R. :Babcock & Wilcox Co.  
: DATE ISS:75/01/16, 649pp. ,48X:19285-077,00I:B&W 0535 ,TN:G801 NOT REVIEWED

8307060517 Documentation on plant sys.

\* :Babcock & Wilcox Co.  
: DATE ISS:82/02/25, 1,115pp. ,48X:19280-082,00I:B&W 0536 ,TN:G801 NOT REVIEWED

8307080576 Continued deposition of FJ Scheimann in Harrisburg,PA,Pp  
129-241.

SCHEIMANN,F.J. :Metropolitan Edison Co.  
: DATE ISS:79/07/25, 227pp. ,48X:19416-137,00I:B&W 0537 ,TN:G801 NOT REVIEWED

8307080749 Forwards outline of util training programs for TMI  
operations,technical & maint staff.

ZECHMAN,R.W. :Metropolitan Edison Co.  
HERBEIN,J.C. :Metropolitan Edison Co.  
: DATE ISS:73/08/01, 13pp. ,48X:19418-137,00I:B&W 0556 ,TN:G801 NOT REVIEWED



U. S. NUCLEAR REGULATORY COMMISSION  
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8307080751 "Training & Certification of Met Ed TMI-2 Licensed Personnel," summary description.

\* :Metropolitan Edison Co.

DATE ISS:83/07/08, 29pp. ,48X:19418-178,ODI:8&W 0557 ,TN:GB01

NOT REVIEWED

8307110731 "Nuclear Power Preparatory Training Core Performance Course for Met Ed via Video Tape."

\* :NUS Corp.

DATE ISS:83/07/11, 228pp. ,48X:19478-060,ODI:8&W 0558 ,TN:GB01

1.2, 1.6

8307080758 Corrections to RW Zechman 790727 & 30 depositions.

ZECHMAN,R.W. :Metropolitan Edison Co.

DATE ISS:79/08/08, 3pp. ,48X:19418-252,ODI:8&W 0560 ,TN:GB01

NOT REVIEWED

8307110733 Investigation Task Force Interview re TMI.

\* :Babcock & Wilcox Co.

DATE ISS:82/03/11, 4pp. ,48X:19478-040,ODI:8&W 0561 ,TN:GB01

1.2

8307080762 Discusses E Frederick survey of TMI-2 requalification program for 791105-1214.Attendance poor.Support of senior operations personnel lacking.

ZECHMAN,R.W. :Metropolitan Edison Co.

LAYNER,L.L. :Metropolitan Edison Co.

DATE ISS:79/12/20, 2pp. ,48X:19418-284,ODI:8&W 0563 ,TN:GB01

1.7

8307080764 Forwards JL Book 770617 ltr re operator training.Training should be conducted in prof manner.Criticisms should be considered.

O'HANLON,J.P. :Metropolitan Edison Co.

MILLER,G.P. :Metropolitan Edison Co.

DATE ISS:77/06/18, 8pp. ,48X:19418-286,ODI:8&W 0564 ,TN:GB01

1.7, 1.14

U. S. NUCLEAR REGULATORY COMMISSION  
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8307080766 Submits concerns & suggestions for reorganization of  
operator training dept personnel.

ZECHMAN, R.W. :Metropolitan Edison Co.  
LAWYER, L.L. :Metropolitan Edison Co.  
DATE ISS:79/09/17, 600. ,4RX:19418-294,001:B&W 0565 ,TN:G801 1.2

8307080768 Discusses training dept organization/staffing. Logical  
assignment between functional groups should be stressed &  
operator training section staff should be increased.

MCCORMICK, F.A. :Metropolitan Edison Co.  
ZECHMAN, R.W. :Metropolitan Edison Co.  
DATE ISS:79/09/03, 800. ,4RX:19418-300,001:B&W 0566 ,TN:G801 1.2

8307080770 Requests comments on encl Penn State initial draft rept  
"Pedagogical Review of Operator Training."

LAWYERS, S. :Metropolitan Edison Co.  
THURPE, J. :Metropolitan Edison Co.  
DATE ISS:80/01/24, 10. ,4RX:19418-308,001:B&W 0567 ,TN:G801 IRRELEVANT

8307080773 Comments on Penn State review committee rept re operator  
training.

ZECHMAN, R.W. :Metropolitan Edison Co.  
SMITH, D. :Metropolitan Edison Co.  
DATE ISS:80/02/06, 300. ,4RX:19418-350,001:B&W 0568 ,TN:G801 NOT REVIEWED

8307060619 "Lecture Series in Nuclear Power Plant Operations Training."

\* :Babcock & Wilcox Co.  
:1  
DATE ISS:82/03/25, 72300. ,4RX:19287-249,001:B&W 0570 ,TN:G801 NOT REVIEWED

8307060616 "Nuclear Energy Training: Plant Performance," Instructor  
Guide.

\* :INUS Corp.  
:1  
DATE ISS:82/03/25, 24300. ,4RX:19287-006,001:B&W 0571 ,TN:G801 NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
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8307110740 "Nuclear Power Plant Operations Manual, Vol 2."

\* :Babcock & Wilcox Co.  
: DATE ISS:82/04/27, 900. ,4RX:19478=044,00I:B&W 0614 ,TN:GB01 NOT REVIEWED

8307110083 Application by ER Frederick for reactor operator license.

FREDERICK,E.R. :Metropolitan Edison Co.  
: Operator Licensing Branch  
DATE ISS:77/07/05, 400. ,4RX:19444=175,00I:B&W 0645 ,TN:GB01 IRRELEVANT

8307110088 "Evolutions & Emergencies in which Trainees Participated,"  
760405=0709.

\* :Babcock & Wilcox Co.  
: DATE ISS:76/07/09, 200. ,4RX:19444=179,00I:B&W 0646 ,TN:GB01 1.2

8307110091 Reactor operator training program summary.

\* :Metropolitan Edison Co.  
: DATE ISS:81/11/25, 3800. ,4RX:19444=181,00I:B&W 0646A ,TN:GB01 IRRELEVANT

8307110096 Provides list of personnel that have completed 1-wk  
operator training course at B&W nuclear power plant  
simulator. Simulator training summary sheets encl.

STREET,B.W. :Babcock & Wilcox Co.  
TSAGGARIS,L. :Metropolitan Edison Co.  
DATE ISS:77/06/14, 300. ,4RX:19444=246,00I:B&W 0647 ,TN:GB01 1.2

8307110104 Forwards report on oral audit exams. Summary of items encl  
to assist in preparing for NRC oral exams.

MANGIN,A.M. :General Physics Corp.  
DOUMAN,O. :Metropolitan Edison Co.  
DATE ISS:77/07/21, 800. ,4RX:19444=251,00I:B&W 0649 ,TN:GB01 1.2

U. S. NUCLEAR REGULATORY COMMISSION  
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8307110109 Summarizes oral exam results of TMI-2 licensing candidates & provides action items for TMI training dept.

TSAGGARIS, A. :Metropolitan Edison Co.  
LAWYER, L. L. :Metropolitan Edison Co.  
DATE ISS:77/07/18, 600. ,48X:19444-287, ODI:8&W 0650 ,TN:GB01 1.2

8307110112 Provides info re discussion w/six auxiliary operators re level of knowledge in very basic areas. Lists areas that individuals request training.

FREDERICK, E. R. :Metropolitan Edison Co.  
ZECHMAN, R. W. :Metropolitan Edison Co.  
DATE ISS:79/09/07, 10. ,48X:19444-292, ODI:8&W 0651 ,TN:GB01 1.2

8307110118 Documentation on reactor operator exam.

\* :Metropolitan Edison Co.  
DATE ISS:82/05/04, 6900. ,48X:19444-293, ODI:8&W 0652 ,TN:GB01 IRRELEVANT

8307090157 "TMI Mock NRC Reactor Operator License Exam."

\* :General Public Utilities - GPU Service Corp.  
DATE ISS:77/07/11, 400. ,48X:19398-061, ODI:8&W 0653 ,TN:GB01 IRRELEVANT

8307110747 Transcript of oversight hearings on 790509, 10, 11 & 13 before Task Force of Subcommittee on Energy & Environ of Committee on Interior & Insular Affairs, in Washington, DC re accident at TMI.

\* :Babcock & Wilcox Co.  
DATE ISS:82/05/11, 8800. ,48X:19477-265, ODI:8&W 0662 ,TN:GB01 NOT REVIEWED

8307110724 Requests formation of fire member task force to complete investigation of encl seven specific issues re 790328 incident.

ARNOLD, R. C. :General Public Utilities - GPU Service Corp.  
KEATEN, R. W. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/06/27, 500. ,48X:19445-337, ODI:8&W 0694 ,TN:GB01 NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
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8307110732 Submits questions re TMI-2 incident on 790328.

\* :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:79/06/13, 300. ,4RX:19445-345,ODI:B&W 0697 ,TN:GB01 NOT REVIEWED

8307110735 Submits tasks & subtasks for task teams.

\* :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:79/07/09, 1600. ,4RX:19445-348,ODI:B&W 0698 ,TN:GB01 NOT REVIEWED

8307110739 Forwards first rough draft, "GPU Task Force Interim Summary Rept."

KEATON,R.W. :General Public Utilities = GPU Service Corp.  
:General Public Utilities = GPU Service Corp.  
DATE ISS:79/09/28, 10. ,4RX:19446-002,ODI:B&W 0699 ,TN:GB01 NOT REVIEWED

8307110744 Requests copy of encl package re task force draft rept.

LONG,R.L. :Babcock & Wilcox Co.  
:General Public Utilities = GPU Service Corp.  
DATE ISS:79/10/07, 800. ,4RX:19446-116,ODI:B&W 0700 ,TN:GB01 NOT REVIEWED

8307110752 "GPU Task Force Investigative Rept."

BROUGHTON,T.G. :General Public Utilities = GPU Service Corp.  
:  
DATE ISS:79/11/27, 4600. ,4RX:19446-246,ODI:B&W 0702 ,TN:GB01 NOT REVIEWED

8307110757 "GPU Accident Review Task Force Final Summary Rept."

KEATEN,R.W. :General Public Utilities = GPU Service Corp.  
:  
DATE ISS:80/03/24, 4300. ,4RX:19446-346,ODI:B&W 0703 ,TN:GB01 NOT REVIEWED



U. S. NUCLEAR REGULATORY COMMISSION  
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8307110763 Forwards TDR TMI-11, "Analysis of TMI-2 Operator Response,"  
for review. Comments requested by 790625.

BROUGHTON, T.G. :General Public Utilities - GPU Service Corp.  
LONG, R. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/06/21, 32pp. ,48x:19447-062,ODI:B&W 0705 ,TN:GB01

NOT REVIEWED

8307110769 "Analysis of TMI-2 Operator Response."

WALSH, P.S. :General Public Utilities - GPU Service Corp.  
DATE ISS:82/05/20, 36pp. ,48x:19447-122,ODI:B&W 0706 ,TN:GB01

NOT REVIEWED

8307090353 Forwards response to 791025 notice of violation & notice of  
proposed issuance of civil penalties based on IE  
investigation of 790328 accident.

NODDLE, R.C. :Metropolitan Edison Co.  
STELLO, V. :Office of Inspection & Enforcement, Office of the Director  
DATE ISS:79/12/05, 97pp. ,48x:19492-019,ODI:B&W 0707 ,TN:GB01

IRRELEVANT

8307090022 Forwards draft "Loss of Feedwater Flow Leading to Accident  
of 790328," for master task force presentation.

LUCIEN, K. :Energy Incorporated  
DATE ISS:79/09/01, 179pp. ,48x:19448-240,ODI:B&W 0718 ,TN:GB01

1.1

8307090026 Forwards TMI staff interview of H McGovern dtd 790504 &  
DA Berry notes on 790329 re 790328 incident.

ZODIACO, V.P. :General Public Utilities - GPU Service Corp.  
BLAKE, E.L. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/05/10, 531pp. ,48x:19449-059,ODI:B&W 0719 ,TN:GB01

NOT REVIEWED

8307090042 Handwritten sequence of events re TMI-2 incident. Comments  
from 790417 meeting w/Herbein & HMD also encl.

\* :General Public Utilities - GPU Service Corp.  
DATE ISS:79/04/20, 8pp. ,48x:19450-236,ODI:B&W 0723 ,TN:GB01

NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
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8307090054 Notes on operational aspects of 790328 event.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/07/17, 17pp. ,4Rx:19450-246,ODI:B&W 0726 ,TN:GB01 NOT REVIEWED

8307090009 Draft IE investigation report of certain aspects of accident at TMI-2 on 790328.

\* :Office of Inspection & Enforcement, Office of the Director  
: DATE ISS:79/07/16, 793pp. ,4Rx:19450-291,ODI:B&W 0727 ,TN:GB01 NOT REVIEWED

8307090014 "NRC Sequence of Events:Miscellaneous Notes."

\* :Office of Inspection & Enforcement, Office of the Director  
: DATE ISS:79/06/22, 2pp. ,4Rx:19453-022,ODI:B&W 0729 ,TN:GB01 NOT REVIEWED

8307120252 Discusses items & assignment of responsibilities needed to address NRC IE investigation draft report findings. Initial response requested by 790822 & final response by 790912.

WALLACE,E.G. :General Public Utilities - GPU Service Corp.  
BEHRLE,W.H. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/08/06, 3pp. ,4Rx:19454-242,ODI:B&W 0730 ,TN:GB01 NOT REVIEWED

8307120270 Application by WH Zewe for senior reactor operator license.

ZEW E,W.H. :Metropolitan Edison Co.  
COLLINS,P.F. : Operator Licensing Branch  
DATE ISS:77/07/05, 2pp. ,4Rx:19455-005,ODI:B&W 0735 ,TN:GB01 NOT REVIEWED

8307120274 Resume of W Zewe.

ZEW E,W. :Metropolitan Edison Co.  
: DATE ISS:82/05/20, 2pp. ,4Rx:19455-007,ODI:B&W 0736 ,TN:GB01 NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
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8307120341 Transcript of interview w/w Zewe.

ZEW, W. :Metropolitan Edison Co.

DATE ISS:82/05/28, 100p. ,48x:19456-345,00I:B&W 0761 ,TN:GB01

NOT REVIEWED

8307130326 Requests approval of encl Change Mod 2-0298, to connecting  
open light for Unit 2 RCS RC-RV2 to limit switch.

SHOVLIN, D.M. :Metropolitan Edison Co.

KLINGAMAN, R.M. :Metropolitan Edison Co.

DATE ISS:79/01/30, 170p. ,48x:19501-001,00I:B&W 0767 ,TN:GB01

NOT REVIEWED

8307120373 Describes Unit 2 control room operator training program,  
scheduled to begin on 750811. Program schedule encl.

SEELINGER, J.L. :Metropolitan Edison Co.

HERBEIN, J.G. :Metropolitan Edison Co.

DATE ISS:75/08/06, 90p. ,48x:19457-014,00I:B&W 0770 ,TN:GB01

1.8

8307120375 Discusses Unit 2 control room operator training program  
requirements for cold operators license.

TSAGGARIS, A. :Metropolitan Edison Co.

HERBEIN, J.G. :Metropolitan Edison Co.

DATE ISS:76/03/12, 300p. ,48x:19457-023,00I:B&W 0771 ,TN:GB01

1.2

8307120659 Discusses requalification program makeup assignments for  
onshift personnel & nonshift personnel. Implementation of  
program will reduce administrative burden.

TSAGGARIS, A. :Metropolitan Edison Co.

COLITZ, J. :Metropolitan Edison Co.

DATE ISS:76/01/28, 1p. ,48x:19457-026,00I:B&W 0772 ,TN:GB01

1.7

8307120663 Forwards marked-up Unit 2 training FSAR. Comments on  
licensing encl.

TSAGGARIS, A. :Metropolitan Edison Co.

MILLER, G.P. :Metropolitan Edison Co.

DATE ISS:76/02/08, 600p. ,48x:19457-027,00I:B&W 0773 ,TN:GB01

NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
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8307120667 Discusses final training phase for Unit 2 operator  
licensing. License effort must be number one priority. Info  
package essential & must be completed.

MILLER, G. P. : Metropolitan Edison Co.  
LAWYER, L. L. : Metropolitan Edison Co.  
DATE ISS: 77/06/02, 2pp., 48x: 19457-061, ODI: B&W 0774 , TN: GB01 1.2, 1.16

8307120672 Advises that six shifts needed in operations & five to six  
shifts needed in maint to accomplish requalification program  
training.

LAWYER, L. L. : Metropolitan Edison Co.  
TROFFER, G. J. : Metropolitan Edison Co.  
DATE ISS: 78/09/19, 1p., 48x: 19457-063, ODI: B&W 0775 , TN: GB01 1.7

8307130329 Provides breakdown of requalification program attendance.  
During fifth 5-wk training cycle, attendance was 36% of all  
licensed personnel.

BEERS, M. L. : Metropolitan Edison Co.  
MILLER, G. P. : Metropolitan Edison Co.  
DATE ISS: 78/11/02, 1p., 48x: 19500-359, ODI: B&W 0776 , TN: GB01 1.7

8307120679 Submits info in response to memo re use of simulator for  
operator training. Requalification program needs rewrite.

TSAGGARIS, A. : Metropolitan Edison Co.  
HERBEIN, J. G. : Metropolitan Edison Co.  
DATE ISS: 76/05/07, 3pp., 48x: 19457-064, ODI: B&W 0777 , TN: GB01 1.2, 1.11

8307120684 Commitment info for Unit 2 FSAR.

\* : Metropolitan Edison Co.  
: :  
DATE ISS: 75/10/31, 2pp., 48x: 19457-067, ODI: B&W 0778 , TN: GB01 NOT REVIEWED

8307120688 Discusses GORB Unit 1.

\* : Metropolitan Edison Co.  
HARBIN : Metropolitan Edison Co.  
DATE ISS: 82/06/08, 1p., 48x: 19457-069, ODI: B&W 0779 , TN: GB01 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307120695 Assigns responsibilities in development of Tech Specs for facility.

MILLER, G.P. : Metropolitan Edison Co.  
FLUYO, J.R. : Metropolitan Edison Co.  
DATE ISS: 77/03/03, 2pp. , 4AX: 19457-070, ODI: B&W 0780 , TN: GB01 IRRELEVANT

8307090129 "Lecture Series in Nuclear Power Plant Operations Training."

\* : Pennsylvania State Univ.  
DATE ISS: 71/09/30, 2pp. , 4AX: 19453-026, ODI: B&W 0788 , TN: GB01 NOT REVIEWED

8307090132 Summary of time spent during senior reactor operator self study program.

SHERMAN, F.J. : Babcock & Wilcox Co.  
DATE ISS: 82/06/08, 2pp. , 4AX: 19453-028, ODI: B&W 0789 , TN: GB01 NOT REVIEWED

8307090135 Category H Exam Reactory Theory.

SHERMAN, F.J. : Babcock & Wilcox Co.  
DATE ISS: 78/04/05, 64pp. , 4AX: 19453-058, ODI: B&W 0790 , TN: GB01 NOT REVIEWED

8307090139 Notes discussing heat transfer.

\* : Babcock & Wilcox Co.  
DATE ISS: 82/06/09, 7pp. , 4AX: 19453-097, ODI: B&W 0792 , TN: GB01 NOT REVIEWED

8307130336 Discusses problems w/operator licensing exams of Itr= designated individuals.

\* : Babcock & Wilcox Co.  
DATE ISS: 81/12/09, 2pp. , 4AX: 19501-055, ODI: B&W 0796 , TN: GB01 IRRELEVANT



U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307130338 Summarizes events re ltr-designated Individual VV  
participation in 1977/78 requalification program.

ZECHMAN, R.W. :Metropolitan Edison Co.  
MILLER, G.P. :Metropolitan Edison Co.  
DATE ISS:79/07/10, 3pp. ,48x:19501-057,ODI:B&W 0797 ,TN:GB01 1.7

8307130373 Discusses investigation, evaluation & recommendations re  
ltr-designated Individual VV operator license exam failure  
& possible cheating.

MILLER, G.P. :Metropolitan Edison Co.  
HERBEIN, J.G. :Metropolitan Edison Co.  
DATE ISS:79/07/27, 5pp. ,48x:19501-060,ODI:B&W 0798 ,TN:GB01 IRRELEVANT

8307130374 Certifies satisfactory rating of ltr-designated  
Individual VV based upon completion of accelerated  
requalification program w/score of 99.8.

MILLER, G.P. :Metropolitan Edison Co.  
CULLINS, P.F. :Office of Nuclear Reactor Regulation, Director  
DATE ISS:81/11/17, 1p. ,48x:19501-065,ODI:B&W 0799 ,TN:GB01 1.14

8307090192 Discusses Unit 2 staffing & licensing.

HERBEIN, J.G. :Metropolitan Edison Co.  
ARNOLD, W.C. :Metropolitan Edison Co.  
DATE ISS:75/03/31, 19pp. ,48x:19454-172,ODI:B&W 0839 ,TN:GB01 NOT REVIEWED

8307090197 Discusses cross licensing status rept.

SEELINGER, J. :Metropolitan Edison Co.  
HERBEIN, J. :Metropolitan Edison Co.  
DATE ISS:75/04/14, 16pp. ,48x:19454-191,ODI:B&W 0840 ,TN:GB01 NOT REVIEWED

8307130379 Forwards "TMI Mat Audit, 780109-20." One major area of  
concern was practice of bypassing chain of command from top  
to bottom, resulting in duplication of efforts.

TROFFER, G.J. :Metropolitan Edison Co.  
HERBEIN, J.G. :Metropolitan Edison Co.  
DATE ISS:78/02/14, 6pp. ,46x:19501-104,ODI:B&W 0843 ,TN:GB01 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307090223 Discusses exit remarks of J Buzzy following GP Miller senior reactor exam. Buzzy considers plant dirty & paper appears to be "falling apart" in control room.

ARNOLD, R.C. :Metropolitan Edison Co.  
HERBEIN, J.G. :Metropolitan Edison Co.  
DATE ISS:76/04/20, 4pp. ,48x:19454-236, ODI:B&W 0844 ,TN:GB01

NOT REVIEWED

8307130385 Suspends ltr-designated Individual VV from work for period 790813-26, for failure to exercise sound judgement during 1978-79 requalification program.

MILLER, G.P. :Metropolitan Edison Co.  
VV :Metropolitan Edison Co.  
DATE ISS:79/08/08, 3pp. ,48x:19501-143, ODI:B&W 0845 ,TN:GB01

NOT REVIEWED

8307130395 Rev 2 to "TMI Nuclear Station Administrative Procedure 1006, Met Ed Operator Requalification Program."

\* :Metropolitan Edison Co.  
:Metropolitan Edison Co.  
DATE ISS:77/04/11, 17pp. ,48x:19501-154, ODI:B&W 0882 ,TN:GB01

1.7

8307130378 Summary of second TMI mat audit review meeting re operator training, job classification & overtime, responsibility & accountability, policy establishment & promulgation, productivity & leadership.

TRUFFER, G.J. :Metropolitan Edison Co.  
:Metropolitan Edison Co.  
DATE ISS:83/07/13, 6pp. ,48x:19501-171, ODI:B&W 0883 ,TN:GB01

1.2

8307120084 Summary of TMI mat audit review fourth meeting on 780424.

\* :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:78/04/24, 12pp. ,48x:19458-127, ODI:B&W 0884 ,TN:GB01

1.2, 1.7

8307120088 Discusses simulator training costs. Revamp of requalification program in order.

TSAGGARIS, A. :Metropolitan Edison Co.  
HERBEIN, J.G. :Metropolitan Edison Co.  
DATE ISS:76/05/07, 3pp. ,48x:19458-139, ODI:B&W 0885 ,TN:GB01

1.2, 1.11

U. S. NUCLEAR REGULATORY COMMISSION  
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- 8307120092 Discusses three problem areas in requalification program. Problems concern poor lesson attendance, inordinate time before matl is returned & not enough scheduled time in control room.  
TSAGGARIS, A. :Metropolitan Edison Co.  
HERBEIN, J.G. :Metropolitan Edison Co.  
DATE ISS:76/04/27, 1p. ,48X:19458-170,00I:8&W 0886 ,TN:GB01 1.7, 1.14
- 8307120095 Requests B&W simulator training contract be executed as soon as possible. Requalification training scheduled to start on 750324.  
HERBEIN, J.G. :Metropolitan Edison Co.  
ARNOLD, R.C. :Metropolitan Edison Co.  
DATE ISS:75/03/03, 1p. ,48X:19458-171,00I:8&W 0887 ,TN:GB01 NOT REVIEWED
- 8307120099 Submits simulator training schedule.  
SEELINGER, J. :Metropolitan Edison Co.  
HERBEIN, J.G. :Metropolitan Edison Co.  
DATE ISS:75/03/13, 2pp. ,48X:19458-172,00I:8&W 0888 ,TN:GB01 NOT REVIEWED
- 8307120113 "Selection, Training, Qualification & Licensing of TMI Reactor Operating Personnel."  
RYCHISON, R. :President's Commission on the Accident at Three Mile Island  
DATE ISS:79/10/31, 184pp. ,48X:19458-178,00I:8&W 0890 ,TN:GB01 NOT REVIEWED
- 8307120183 Transcript of IE TMI investigation interview w/TF Illjes on 790523 in Middletown, PA.  
ILLJES, T.F. :Metropolitan Edison Co.  
DATE ISS:79/05/23, 26pp. ,48X:19460-011,00I:8&W 0904 ,TN:GB01 NOT REVIEWED
- 8307120187 Summary of TMI-2 Accident Review Task Force 790824 meeting.  
\* :Metropolitan Edison Co.  
:Metropolitan Edison Co.  
DATE ISS:79/08/24, 5pp. ,48X:19460-064,00I:8&W 0905 ,TN:GB01 NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307090342 Forwards third draft investigative task force summary report  
re TMI accident. Report reflects revisions discussed during  
791011-12 meetings. Comments requested by 791022.

KEATEN, R.A. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:79/10/17, 77pp. ,48X:19400-353,00I:B&W 0907 ,TN:GB01 NOT REVIEWED

8307090345 Resume of AJ Dominguez.

DOMINGUEZ, A.J. :Pennsylvania Power & Light Co.  
:1  
DATE ISS:82/08/17, 1p. ,48X:19401-124,00I:B&W 0908 ,TN:GB01 NOT REVIEWED

8307090351 "Pressurizer, Lecture Outline."

HAWKINS, T. :Babcock & Wilcox Co.  
:1  
DATE ISS:82/08/17, 13pp. ,48X:19401-126,00I:B&W 0910 ,TN:GB01 NOT REVIEWED

8307090355 "DHR Sys, Lecture Outline."

POJE, S.G. :Babcock & Wilcox Co.  
:1  
DATE ISS:82/08/17, 6pp. ,48X:19401-139,00I:B&W 0911 ,TN:GB01 NOT REVIEWED

8307090359 "ESF, Shift Technical Engineer Briefing Notes."

PERRY, M.J. :Babcock & Wilcox Co.  
:1  
DATE ISS:82/08/17, 36pp. ,48X:19401-173,00I:B&W 0912 ,TN:GB01 NOT REVIEWED

8307090362 "Transient Analysis, Lecture Outline."

NELSON, M.A. :Babcock & Wilcox Co.  
:1  
DATE ISS:82/08/17, 67pp. ,48X:19401-237,00I:B&W 0913 ,TN:GB01 NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
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8307090365 Rev 0 to Emergency Procedure EP 2202-1.5: "Pressurizer  
Svs Failure."

\* Babcock & Wilcox Co.

DATE ISS:75/11/25, 12pp, ,4Rx119401=360,001:8&W 0914 ,TN:G801

NOT REVIEWED

8307090367 Forwards training schedule update for test personnel  
teaching assignments.

ULRICH, J.C. :General Public Utilities - GPU Service Corp.

TOOLE, R.J. :General Public Utilities - GPU Service Corp.

DATE ISS:76/06/11, 10pp, ,4Rx119402=010,001:8&W 0915 ,TN:G801

NOT REVIEWED

8307090369 "Index of Emergency & abnormal Procedures."

\* Babcock & Wilcox Co.

DATE ISS:82/08/17, 2pp, ,4Rx119402=020,001:8&W 0916 ,TN:G801

NOT REVIEWED

8307090381 Forwards Rev 0 to Draft Procedure DP 11202.06, "Loss of  
Reactor Coolant."

SUHRKE, K.E. :Babcock & Wilcox Co.

MURRAY, T.U. :Toledo Edison Co.

DATE ISS:73/04/27, 5pp, ,4Rx119402=176,001:8&W 1020 ,TN:G801

NOT REVIEWED

8307090384 Transcript of IE interview of H Hartman on 790522.

HARTMAN, H. :General Public Utilities - GPU Service Corp.

DATE ISS:79/05/23, 61pp, ,4Rx119486=275,001:8&W 1021 ,TN:G801

NOT REVIEWED

8307130362 Transcript of HW Hartman 791029 deposition in Lancaster, PA  
by NRC Special Inquiry Group.

HARTMAN, H.W. :General Public Utilities - GPU Service Corp.

DATE ISS:79/10/09, 59pp, ,4Rx119501=209,001:8&W 1022 ,TN:G801

NOT REVIEWED



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8307110794 Deposition of KH Zewe on 790726 in Harrisburg, PA, Po 1-187.

ZEW, K. H.            |Metropolitan Edison Co.

DATE ISS:79/07/26, 18400, ,48X119479=193,001:8&W 4006 ,TN:GB01

NOT REVIEWED

8307090279 Transcript of ACRS Subcommittee on TMI-2 790606 meeting in  
Middletown, PA, Po 1-193.

\*                    |ACRS = Advisory Committee on Reactor Safeguards

DATE ISS:79/06/06, 22800, ,48X119487=104,001:8&W 4012 ,TN:GB01

NOT REVIEWED

8307120669 Summary of simulator hold licensing training for E Frederick  
during 760405-0709.

\*                    |Hancock & Wilson Co.

DATE ISS:76/07/09, 200, ,48X119462=302,001:8&W 4016 ,TN:GB01

NOT REVIEWED

8307120673 Simulators training summary sheet for ER Frederick from  
770606=10.

\*                    |Hancock & Wilson Co.

DATE ISS:77/06/10, 10, ,48X119462=304,001:8&W 4017 ,TN:GB01

NOT REVIEWED

8307120755 Handwritten Test Log, Book 3.

\*                    |General Public Utilities = GPU Service Corp.

DATE ISS:76/03/30, 300, ,48X119495=298,001:8&W 4050 ,TN:GB01

NOT REVIEWED

8307120762 Handwritten Test Log, Book 2.

\*                    |General Public Utilities = GPU Service Corp.

DATE ISS:77/09/08, 800, ,48X119495=309,001:8&W 4052 ,TN:GB01

NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
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8307120789 Graph of drain tank pressure time after turbine trip.

\* :Babcock & Wilcox Co.  
: DATE ISS:83/07/11, 1p. ,48X:19495-321,ODI:B&W 4054 ,TN:GB01 NOT REVIEWED

8307130113 Transcript of 790424 interview w/util.

\* :Director's Office, Office of Inspection and Enforcement  
: DATE ISS:79/04/24, 3pp. ,48X:19497-007,ODI:B&W 5005AA ,TN:GB01 NOT REVIEWED

8307010268 "Interim Rept of TMI-2 Occurrence, Technical Review Committee."

\* :Babcock & Wilcox Co.  
: DATE ISS:79/05/25, 118pp. ,48X:19179-127,ODI:GPU 0004 ,TN:GB01 NOT REVIEWED

8307010270 "Interim Rept of TMI-2 Occurrence, Technical Review Committee."

\* :Babcock & Wilcox Co.  
: DATE ISS:79/06/08, 61pp. ,48X:19179-244,ODI:GPU 0005 ,TN:GB01 NOT REVIEWED

8307010274 "Final Rept of TMI-2 Occurrence, Technical Review Committee."

\* :Babcock & Wilcox Co.  
: DATE ISS:79/07/31, 234pp. ,48X:19179-316,ODI:GPU 0006 ,TN:GB01 NOT REVIEWED

8307020007 "Final Rept of TMI-2 Occurrence, Technical Review Committee."

\* :Babcock & Wilcox Co.  
: DATE ISS:83/06/30, 54pp. ,48X:19228-221,ODI:GPU 0007 ,TN:GB01 1.2

U. S. NUCLEAR REGULATORY COMMISSION  
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8307010252 Requests input re establishment of vehicle for communicating understanding of how NSS behaves when responding to various incidents.

KUSIBA, E.E. :Babcock & Wilcox Co.  
WASCHER, R.E. :Babcock & Wilcox Co.  
DATE ISS:79/04/17, 1p. ,48X:19178-142,ODI:GPU 0049 ,TN:G801 1.2

8307010255 Responds to 730406 ltr re technician water chemistry course. Attempting to have Met Ed give course. Cost control main obstacle to overcome.

ELLIOTT, N.S. :Babcock & Wilcox Co.  
PUCOCK, F.J. :Affiliation Unknown  
DATE ISS:73/04/11, 1p. ,48X:19178-143,ODI:GPU 0050 ,TN:G801 NOT REVIEWED

8307010254 Discusses actions taken to prevent TMI-2 like event. Initiating event sequence described in 790730 memo used in requalification training programs.

ELLIOTT, N.S. :Babcock & Wilcox Co.  
BARNWARTH, C.S. :Babcock & Wilcox Co.  
DATE ISS:79/08/17, 2pp. ,48X:19178-146,ODI:GPU 0052 ,TN:G801 1.2, 1.11

8307010256 Paper entitled "Post-TMI Plant Staff Training," presented at Nuclear Operating Experience Seminar in New Orleans, LA on 800309-11.

ELLIOTT, N.S. :Babcock & Wilcox Co.  
DATE ISS:80/03/09, 5pp. ,48X:19178-148,ODI:GPU 0053 ,TN:G801 1.2, 1.11

8307010253 Forwards training effectiveness upgrade program developed from staff rept for Kenvy Commission, TMI-2 Lessons Learned NRC NUREG-0585 & Rogovin rept. Program will be initiated after approval.

ELLIOTT, N.S. :Babcock & Wilcox Co.  
KUSIBA, R.E. :Babcock & Wilcox Co.  
DATE ISS:80/03/10, 10pp. ,48X:19178-154,ODI:GPU 0057 ,TN:G801 1.2

8307010249 "Operations Manual for Nuclear Power Plant Simulator."

\* :Babcock & Wilcox Co.  
DATE ISS:81/02/11, 318pp. ,48X:19178-164,ODI:GPU 0058 ,TN:G801 1.2, 1.11

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307070460 Rev 1 to Procedure OP 1103 16, "OFR Unit 1 Heat Balance Calculation."

\* :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:71/12/06, 480p. ,48X:19337-001,ODI:GPU 0059 ,TN:G801 1.2, 1.11

8307070468 Forwards Rev 2 to "OFR Unit 1 Power Operations," & Rev 1 to "OFR Unit 1 Reactor Trip," in support of proposed INPO organization. INPO functions delineated.

ELLIOTT, M.S. :Babcock & Wilcox Co.  
LIND, J.A. :Babcock & Wilcox Co.  
DATE ISS:79/11/30, 70p. ,48X:19337-058,ODI:GPU 0060 ,TN:G801 1.11, 1.15

8307070473 Rev 2 to CP 1102 04 "OFR Unit 1 Power Operations."

\* :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:71/12/15, 50p. ,48X:19337-065,ODI:GPU 0060 ,TN:G801 1.11, 1.15

8307070476 Rev 1 to OP 1202 04 "OFR Unit 1 Reactor Trip."

\* :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:72/10/09, 60p. ,48X:19337-070,ODI:GPU 0060 ,TN:G801 1.11, 1.15

8307070481 Trip report of 770927-29 visit to Toledo Edison Co re secondary svcs & scheduling of training svcs.

ELLIOTT, N.S. :Babcock & Wilcox Co.  
OLDS, G.M. :Babcock & Wilcox Co.  
DATE ISS:77/10/14, 1p. ,48X:19337-076,ODI:GPU 0061 ,TN:G801 IRRELEVANT

8307070487 Discusses training svcs conducted for B&W operating plants in TMI-2 incident in response to 790518 memo. Course consisted of review of TMI-2 incident, observation of transient on simulator & hands-on recognition or voiding.

ELLIOTT, N.S. :Babcock & Wilcox Co.  
KANE, E.R. :Babcock & Wilcox Co.  
DATE ISS:79/05/21, 1p. ,48X:19337-077,ODI:GPU 0062 ,TN:G801 1.2, 1.4, 1.6, 1.8

U. S. NUCLEAR REGULATORY COMMISSION  
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- 8307070501 Discusses requalification training program re operator ability to control plant under abnormal conditions. Lists recurring problems during operating period on simulator & parameter effects on plant operation.  
ELLIOT, N.S. :Babcock & Wilcox Co.  
OLDS, G.M. :Babcock & Wilcox Co.  
DATE ISS:79/01/08, 2pp. ,48X:19337-079, ODI:GPU 0064 ,TN:GB01 1.7, 1.11
- 8307070507 Discusses results of requalification training to customer operating personnel & loss of feedwater temp signal input to integrated control, reducing feed flow.  
ELLIOTT, M.S. :Babcock & Wilcox Co.  
OLDS, G.M. :Babcock & Wilcox Co.  
DATE ISS:79/01/16, 1p. ,48X:19337-081, ODI:GPU 0065 ,TN:GB01 1.2
- 8307070519 Forwards rev to 790404 operating instructions for operator action to override ESF actuation sys & terminate HPI. Rev allows operator alternative to 20 minute operability period to preclude pressurizer from going solid.  
BRAZIL, G.J. :Babcock & Wilcox Co.  
HAM, R.E. :Babcock & Wilcox Co.  
DATE ISS:79/04/17, 2pp. ,48X:19337-162, ODI:GPU 0067 ,TN:GB01 1.4
- 8307070522 Discusses preparation of operating guidelines for small break in RCPB.  
ROY, D.H. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:79/04/28, 3pp. ,48X:19337-164, ODI:GPU 0068 ,TN:GB01 1.5
- 8307070538 "Operating Procedure Guidelines for Small Breaks."  
TAYLOR, J.H. :Babcock & Wilcox Co.  
:  
DATE ISS:79/05/05, 28pp. ,48X:19337-169, ODI:GPU 0069 ,TN:GB01 1.2, 1.5
- 8307070543 Forwards proposed rev to simulator std (ANSI 3.5) to be reviewed at ANS-3 800305 & 06 meetings. Listed individuals will attend meeting at C-E on 800220 & 21.  
ELLIOTT, M.S. :Babcock & Wilcox Co.  
:American Nuclear Society  
DATE ISS:80/02/26, 22pp. ,48X:19337-197, ODI:GPU 0070 ,TN:GB01 1.2, 1.11



U. S. NUCLEAR REGULATORY COMMISSION  
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- 8307070548 Submits preliminary report of Safety Concern PSC 18-79 re plant operators panel instrumentation readout limited to 2500 oia, below Tech Spec limit. Analysis concludes condition not reportable per 10CFR50.55e or 10CFR21.  
TAYLOR, J.H. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:79/07/05, 3pp. ,48X:19337-219, ODI:GPU 0071 ,TN:GB01 IRRELEVANT
- 8307070552 Submits preliminary report of Safety Concern PSC 25-79 re sequence of events identified during simulator training which could lead to saturated conditions in reactor core. Concern not reportable per 10CFR50.55e or 10CFR21.  
ELLIOTT, N.S. :Babcock & Wilcox Co.  
TAYLOR, J.H. :Babcock & Wilcox Co.  
DATE ISS:79/09/06, 5pp. ,48X:19337-222, ODI:GPU 0072 ,TN:GB01 1.2, 1.11
- 8307120331 Recommends guidelines for customers re HPIS operation in light of recent events at Toleco site.  
KELLY, J.J. :Babcock & Wilcox Co.  
KARRASCH, B.A. :Babcock & Wilcox Co.  
DATE ISS:77/11/01, 4pp. ,48X:19512-330, ODI:GPU 0076 ,TN:GB01 1.2, 1.4
- 8307070572 Discusses concerns within ECCS analysis re potential for operator action to terminate HPI following initial stage of LOCA. Full injection flow must be maintained from start of emergency ESFF actuation sys.  
DUNN, B.M. :Babcock & Wilcox Co.  
TAYLOR, J. :Babcock & Wilcox Co.  
DATE ISS:78/02/07, 3pp. ,48X:19337-250, ODI:GPU 0078 ,TN:GB01 1.4
- 8307120340 Recommends procedure for termination HPI following LOCA. Scheme acceptable from standpoint of preventing adverse long adverse long-range problems & easier to implement.  
DUNN, B.M. :Babcock & Wilcox Co.  
TAYLOR, J. :Babcock & Wilcox Co.  
DATE ISS:78/02/16, 2pp. ,48X:19512-337, ODI:GPU 0079 ,TN:GB01 1.4
- 8307120354 Provides supplementary operating instructions for HPI sys due to 790328 incident at TMI-2.  
FAIRBURN, G.T. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:79/04/04, 2pp. ,48X:19512-356, ODI:GPU 0085 ,TN:GB01 1.2, 1.4

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307120865 Discusses what guidelines should be given to customers re proper use of high pressure injection sys.

KELLY, J.J. :Babcock & Wilcox Co.  
KARRASCH, B.A. :Babcock & Wilcox Co.  
DATE ISS:77/11/01, 1p. ,48X:19464-313, ODI:GPU 0131 ,TN:GB01

NOT REVIEWED

8307120868 Discusses operation of high pressure injection sys during 771101 transient. Actions taken by operator correct.

WALTERS, J.F. :Babcock & Wilcox Co.  
KELLY, J.J. :Babcock & Wilcox Co.  
DATE ISS:77/11/10, 3pp. ,48X:19464-314, ODI:GPU 0132 ,TN:GB01

NOT REVIEWED

8307020250 Lists 10 lessons learned from TMI-2 incident. Total product, hardware, software & svcs, not adequate to prevent long duration loss of control of plant & most severe damage to core first lesson learned.

KOSIBA, R.E. :Babcock & Wilcox Co.  
MACMILLAN, J.H. :Babcock & Wilcox Co.  
DATE ISS:79/06/11, 2pp. ,48X:19225-185, ODI:GPU 0147 ,TN:GB01

NOT REVIEWED

8307020253 Deposition of JJ Kelly on 790707 in New York, NY.

KELLY, J.J. :Babcock & Wilcox Co.  
DATE ISS:79/07/07, 71pp. ,48X:19225-237, ODI:GPU 0150 ,TN:GB01

NOT REVIEWED

8307020257 Supplemental Re NP-32-77-16: on 770924, main turbine shut down to repair leak in pressure sensing connection on steam line while serious half drip occurred in steam feedwater rupture control sys. Cause unknown.

MURRAY, T.D. :Toledo Edison Co.  
KEPPLER, J.G. : Region 3, Chicago, Office of the Director  
DATE ISS:77/11/14, 59pp. ,48X:19226-013, ODI:GPU 0153 ,TN:GB01

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8307020259 Forwards LER 77-016/0L1-0.

EVANS, J. :Toledo Edison Co.  
KEPPLER, J.G. : Region 3, Chicago, Office of the Director  
DATE ISS:77/10/07, 1p. ,48X:19226-072, ODI:GPU 0154 ,TN:GB01

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8307020266 Responds to JJ Kelly 800221 question re development of  
new simulator code in reasonable schedule to support ATOG  
training. Proposed plan for possible simulator upgrade  
submitted.  
KELLY, J. J. :Babcock & Wilcox Co.  
WOMACK, E. A. :Babcock & Wilcox Co.  
DATE ISS:80/02/27, 2pp. ,48X:19226-124, ODI:GPU 0157 ,TN:GB01 NOT REVIEWED

8307080582 Lists top ten lessons learned from TMI-2.  
  
KOSIBA, R. E. :Babcock & Wilcox Co.  
MACMILLAN, J. H. :Babcock & Wilcox Co.  
DATE ISS:79/06/11, 2pp. ,48X:19489-314, ODI:GPU 0213 ,TN:GB01 NOT REVIEWED

8307080606 Submits customer svd dept monthly activities report for Jul  
1979.  
  
KOSIBA, R. E. :Babcock & Wilcox Co.  
MACMILLAN, J. H. :Babcock & Wilcox Co.  
DATE ISS:79/08/09, 11pp. ,48X:19489-335, ODI:GPU 0220 ,TN:GB01 NOT REVIEWED

8307090019 Revised "Proposal for Long-Term Contract for TMI Nuclear  
Station Units I & II Operator Training."  
  
\* :Babcock & Wilcox Co.  
: :  
DATE ISS:75/03/07, 17pp. ,48X:19490-151, ODI:GPU 0275 ,TN:GB01 NOT REVIEWED

8307090059 "Potential Lessons to be Learned From TMI-2."  
  
LABF, L. E. :Babcock & Wilcox Co.  
: :  
DATE ISS:79/05/25, 2pp. ,48X:19490-225, ODI:GPU 0287 ,TN:GB01 1.2

8307090104 Requests review of proposed operating instruction re  
pressurizer relief valve. Procedure should be implemented for  
all operating reactors if approved.  
  
SWANSON, E. W. :Babcock & Wilcox Co.  
KANE, E. R. :Babcock & Wilcox Co.  
DATE ISS:79/04/05, 1p. ,48X:19490-334, ODI:GPU 0296 ,TN:GB01 NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307090107 Forwards operating instructions for isolation of stuck open  
PORV for review. Instruction should be forwarded to operating  
plant customers as changes to operating/emergency procedure.

NEWTON, D.G. :Babcock & Wilcox Co.  
FAIRBURN, G.T. :Babcock & Wilcox Co.  
DATE ISS:79/04/08, 4pp. ,48X:19490=335,ODI:GPU 0297 ,TN:GB01 NOT REVIEWED

8307090138 Recommends that operating plant customers be informed of  
780320 cooldown incident at Rancho Seco given suggestions  
on how to minimize plant thermal transient for loss of  
non-nuclear instrumentation.

KARRASCH, B.A. :Babcock & Wilcox Co.  
OLDS, G.M. :Babcock & Wilcox Co.  
DATE ISS:78/03/29, 2pp. ,48X:19491=013,ODI:GPU 0306 ,TN:GB01 NOT REVIEWED

8307090141 Understands that small group of key designers organized to  
review SMUD rapid cooldown transient & develop what could  
have been or could be done to reduce likelihood or limit  
consequences of recurrence.

WOMACK, E.A. :Babcock & Wilcox Co.  
KARRASCH, B.A. :Babcock & Wilcox Co.  
DATE ISS:78/08/21, 10pp. ,48X:19491=016,ODI:GPU 0308 ,TN:GB01 1.2

8307060492 Outlines implications of incident including summarization of  
incident, B&W assessment of primary message from site &  
required short term actions. Detailed summary of site  
message encl.

\* :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:81/09/30, 6pp. ,48X:19302=161,ODI:GPU 0384 ,TN:GB01 NOT REVIEWED

8307120692 "Loss of Reactor Coolant/RCS Pressure."

\* :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:83/07/12, 8pp. ,48X:19461=001,ODI:GPU 0396 ,TN:GB01 IRRELEVANT

8307060641 Requests to be included on distribution list of repts issued  
re proposed work for I&C Human Engineering of 790718 TMI-2  
concerns list.

HALLMAN, D.F. :Babcock & Wilcox Co.  
CRAIG, R.W. :Babcock & Wilcox Co.  
DATE ISS:79/07/27, 1p. ,48X:19340=014,ODI:GPU 0428 ,TN:GB01 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

- 8307060643 Lists activities, including site program reports, weekly status reports, RADCAS, emergency operations, owners group meetings, operating experience seminar, plant data output, summary test report, restart test report & training contacts.  
\* :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:82/01/22, 1p. ,48X:19340-015,ODI:GPU 0429 ,TN:GB01 NOT REVIEWED
- 8307120764 Handwritten report, "DHR Problem Associated w/Recovery From Very Small Break LOCA for C-E Sys 80 PWR."  
\* :Combustion Engineering, Inc.  
:  
DATE ISS:77/05/15, 50pp. ,48X:19461-058,ODI:GPU 0470 ,TN:GB01 NOT REVIEWED
- 8307060558 Operating instruction for stuck-open PORV, per IE Bulletin 79-05.  
NEWTON, D.G. :Babcock & Wilcox Co.  
:  
DATE ISS:79/04/08, 4pp. ,48X:19340-293,ODI:GPU 0496 ,TN:GB01 NOT REVIEWED
- 8307060633 Audit on 780217-0405 of training & qualification of station (& support) staff (nuclear).  
HEYSEK, W.G. :Metropolitan Edison Co.  
:  
DATE ISS:78/06/09, 3pp. ,48X:19341-039,ODI:GPU 0509 ,TN:GB01 NOT REVIEWED
- 8307070382 Discusses near-term design improvements identified in 790416 meeting w/ACRS. Mods will provide operators w/more positive indication of PORV position & saturated temp condition indicator for RCS.  
MACMILLAN, J.H. :Babcock & Wilcox Co.  
DENTON, H.R. :Office of Nuclear Reactor Regulation, Director  
DATE ISS:79/04/26, 1p. ,48X:19341-109,ODI:GPU 0534 ,TN:GB01 NOT REVIEWED
- 8307070423 Transcript of 790605 press conference re TMI before, during & after 790328 accident. Pp 1-108A.  
\* :Babcock & Wilcox Co.  
:  
DATE ISS:79/07/05, 112pp. ,48X:19341-127,ODI:GPU 0539 ,TN:GB01 NOT REVIEWED



U. S. NUCLEAR REGULATORY COMMISSION  
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8307070444 Requests input, providing instructions to operators re actions to be taken to maintain plant safety, per 791206 meeting. Instructions should be integrated into operator training program.

HALLMAN, D.F. :Babcock & Wilcox Co.

PEARSON, R.G. :Affiliation Unknown

DATE ISS:79/12/10, 2pp. ,48X:19341-255,ODI:GPU 0542 ,TN:GB01 1.2

8307070447 Forwards surveillance instructions sent to customers re previous PORV failures.

HALLMAN, D.F. :Babcock & Wilcox Co.

MULLIN, J.G. :Babcock & Wilcox Co.

DATE ISS:79/09/10, 9pp. ,48X:19341-257,ODI:GPU 0544 ,TN:GB01 IRRELEVANT

8307070453 Rev 2 to Policies & Procedures NPG-0504-13, "Preparation of Site Support Documents."

\* :Babcock & Wilcox Co.

DATE ISS:77/06/01, 18pp. ,48X:19341-268,ODI:GPU 0546 ,TN:GB01 IRRELEVANT

8307070518 Plant operations exam. Simulator training evaluation encl.

\* :Babcock & Wilcox Co.

DATE ISS:74/11/03, 11pp. ,48X:19342-001,ODI:GPU 0563 ,TN:GB01 1.11

8307070526 Simulator training documentation for Met Ed, 790115-19. Classroom schedule encl.

\* :General Public Utilities - GPU Service Corp.

DATE ISS:79/01/19, 8pp. ,48X:19342-050,ODI:GPU 0568 ,TN:GB01 1.11

8307070529 Lists personnel who completed 3 days of 1 wk operator training course on B&W nuclear power plant simulator. Simulator training sheet & classroom schedule encl.

LIND, J.A. :Babcock & Wilcox Co.

ZECHMAN, U. :Metropolitan Edison Co.

DATE ISS:79/04/03, 3pp. ,48X:19342-058,ODI:GPU 0569 ,TN:GB01 1.11

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

- 8307120798 Subpl RU (P-32-77-16) on 770924, series of events occurred, resulting in depressurization of primary sys from normal pressure. Caused by steam feedwater rupture control sys spurious half trip.  
MURRAY, T.O. : Toledo Edison Co.  
KEPPLER, J.G. : Region 3, Office of Director  
DATE ISS: 77/11/14, 58pp. , 48x: 19494-103, OOI: GPU 2006 , TN: GB01 NOT REVIEWED
- 8307120796 Rev 1 to Operating Procedure 1202.04, "Reactor Trip."  
\* : General Public Utilities - GPU Service Corp.  
DATE ISS: 72/10/09, 5pp. , 48x: 19502-343, OOI: GPU 2022 , TN: GB01 NOT REVIEWED
- 8307120804 Lists items discussed at B&W Uses Group Nov 1977 meeting.  
MILLER, G.P. : Metropolitan Edison Co.  
ROGERS, L.C. : Metropolitan Edison Co.  
DATE ISS: 77/11/16, 2pp. , 48x: 19502-352, OOI: GPU 2024 , TN: GB01 NOT REVIEWED
- 8307070292 Speech entitled "B&W Capabilities & Experience Supporting Plant Startup, Operations & Maint," presented at 780306-07 nuclear operating experience seminar in Hershey, PA.  
BAKER, R.J. : Babcock & Wilcox Co.  
DATE ISS: 78/03/06, 37pp. , 48x: 19338-118, OOI: GPU 2027 , TN: GB01 NOT REVIEWED
- 8307080013 "Selection and Training of Nuclear Power Plant Personnel."  
\* : American Nuclear Society  
DATE ISS: 71/03/06, 15pp. , 48x: 19338-179, OOI: GPU 2055 , TN: GB01 NOT REVIEWED
- 8307120952 Operator License UP-3614 for WH Zewe at DPR-50.  
COLLINS, P.F. : Atomic Energy Commission, Directorate of Licensing  
DATE ISS: 74/08/06, 2pp. , 48x: 19503-188, OOI: GPU 2060 , TN: GB01 NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307120942 "Shift Supervisor Training Program."

\* :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:77/03/22, 7pp. ,48x:19503-194,ODI:GPU 2061 ,TN:GB01 NOT REVIEWED

8307080016 Forwards revised, "Shift Foreman Development Program,"  
incorporating requested changes.

ROSS, M.J. :Metropolitan Edison Co.  
LAWYER, L.L. :Metropolitan Edison Co.  
DATE ISS:78/01/27, 15pp. ,48x:19338-194,ODI:GPU 2062 ,TN:GB01 NOT REVIEWED

8307120945 Forwards training evaluation & training summary for listed  
individuals for simulator training (short course).

STOLL, G. :Dabcock & Wilcox Co.  
KLINGMAN, R.M. :Metropolitan Edison Co.  
DATE ISS:74/01/15, 21pp. ,48x:19503-201,ODI:GPU 2063 ,TN:GB01 NOT REVIEWED

8307080017 Transcript of President's Commission on Accident at TMI  
third meeting on 790530 in Washington, DC. Pp 1-210, w/o  
Pp 5-112.

\* :President's Commission on the Accident at Three Mile Island  
: :  
DATE ISS:79/05/30, 102pp. ,48x:19338-209,ODI:GPU 2069 ,TN:GB01 NOT REVIEWED

8307110335 Requests ack, by initialing enclosure off sheet, of review &  
understanding of small break LOCA procedure changes.

FLOYD, J.R. :Metropolitan Edison Co.  
:Metropolitan Edison Co.  
DATE ISS:78/05/10, 3pp. ,48x:19483-317,ODI:GPU 2074 ,TN:GB01 NOT REVIEWED

8307110337 Forwards results summary of 1978-79 requal written exam, for  
info. Post-oral packages forwarded to individuals having two  
or more categories less than 80%.

BEERS, M.L. :Metropolitan Edison Co.  
MILLER, G.P. :Metropolitan Edison Co.  
DATE ISS:79/05/01, 6pp. ,48x:19483-320,ODI:GPU 2075 ,TN:GB01 NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307110342 Application by WH Zewe for hot reactor operator license. Prof  
qualifications encl.

ZEW, W.H. : Metropolitan Edison Co.  
COLLINS, P.F. : Atomic Energy Commission, Directorate of Licensing  
DATE ISS: 74/05/20, 6pp. , 48X: 19483-326, ODI: GPU 2076 , TN: GB01

NOT REVIEWED

8307110344 Application by WH Zewe for senior reactor operator license.

ZEW, W.H. : Metropolitan Edison Co.  
COLLINS, P.F. : Atomic Energy Commission, Directorate of Licensing  
DATE ISS: 75/07/10, 4pp. , 48X: 19483-332, ODI: GPU 2077 , TN: GB01

NOT REVIEWED

8307110345 Application by WH Zewe for senior reactor operator license.

ZEW, W.H. : Metropolitan Edison Co.  
COLLINS, P.F. : Operator Licensing Branch  
DATE ISS: 77/07/05, 4pp. , 48X: 19483-336, ODI: GPU 2078 , TN: GB01

NOT REVIEWED

8307120684 Forwards work completed in May 1979, investigating methods  
of detecting operation of PORV.

ROBERTS, R.C. : Babcock & Wilcox Co.  
: Babcock & Wilcox Co.  
DATE ISS: 79/06/11, 23pp. , 48X: 19499-319, ODI: GPU 2097 , TN: GB01

NOT REVIEWED

8307080071 Forwards IE Insp Rpts 50-289/78-23 & 50-320/78-36 on  
781204-08 & 12-14 & notice of violation.

BRUNNER, E.J. : Region 1, Philadelphia, Reactor Operations Nuclear Support  
HERBEIN, J.G. : Metropolitan Edison Co.  
DATE ISS: 79/01/09, 2pp. , 48X: 19358-066, ODI: GPU 2103 , TN: GB01

NOT REVIEWED

8307080372 "Investigation of TMI-2 Pressurizer PORV Discharge Pipe  
Tens."

SHELL, J.P. : General Public Utilities - GPU Service Corp.  
: :  
DATE ISS: 80/02/28, 52pp. , 48X: 19339-154, ODI: GPU 2109 , TN: GB01

IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307120913 "Integrated Control Sys Response Characteristics Training  
Manual Book 50."

FREDERICK, E.R. :General Public Utilities - GPU Service Corp.

DATE ISS:83/07/12, 164pp. ,48x:19499-355,ODI:GPU 2151 ,TN:G801

NOT REVIEWED

8307080388 Forwards simulator training summary sheet for operators  
completing 1-wk training course on 770610, including  
ML Beers, ER Frederick, JR Conzdom, AW Miller, CO Adams & JL  
Seelinger.

STREET, B.W. :Babcock & Wilcox Co.

TSAGGARIS, L. :Metropolitan Edison Co.

DATE ISS:77/06/14, 400. ,48x:19339-211,ODI:GPU 2153 ,TN:G801

NOT REVIEWED

8307080459 Operator attendance data listings & training program forms.

\* :Metropolitan Edison Co.

DATE ISS:78/12/31, 178pp. ,48x:19356-001,ODI:GPU 2154 ,TN:G801

NOT REVIEWED

8307120921 vol 9 to FSAR for TMI Unit 2.

\* :Metropolitan Edison Co.

DATE ISS:83/07/12, 500. ,48x:19500-172,ODI:GPU 2155 ,TN:G801

NOT REVIEWED

8307050403 Revised Chapter 13 to FSAR, "Conduct of Operations."

\* :General Public Utilities - GPU Service Corp.

DATE ISS:78/04/07, 67pp. ,48x:19230-001,ODI:GPU 2156 ,TN:G801

NOT REVIEWED

8307050420 Requalification program, "Category Review."

\* :General Public Utilities - GPU Service Corp.

DATE ISS:79/12/31, 59pp. ,48x:19230-167,ODI:GPU 2158 ,TN:G801

NOT REVIEWED



U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307050424 "Svs Training."

\* :Babcock & Wilcox Co.  
: DATE ISS:74/09/24, 16pp. ,48X:19230-226,00I:GPU 2163 ,TN:GB01 NOT REVIEWED

8307050429 Listing of Generation Div resume for request period 810101-0601.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:81/06/23, 3pp. ,48X:19231-027,00I:GPU 2166 ,TN:GB01 NOT REVIEWED

8307050434 Comments on 780816 meeting w/J Holman of NRC re operator licensing exam. Operator Licensing Branch will only be able to come to plant twice each yr due to shortage of manpower. More visits by request if required.

O'HANLON, J.P. :Metropolitan Edison Co.  
:Metropolitan Edison Co.  
DATE ISS:78/08/18, 1p. ,48X:19231-030,00I:GPU 2167 ,TN:GB01 NOT REVIEWED

8307050437 Listing of Generator Div resume for request period 770301 - 780321.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:78/03/23, 4pp. ,48X:19231-031,00I:GPU 2168 ,TN:GB01 NOT REVIEWED

8307050442 Administrative form listing attendees of training course in Unit 1 requalification.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:78/02/28, 2pp. ,48X:19231-035,00I:GPU 2169 ,TN:GB01 NOT REVIEWED

8307050447 Forwards schedule for requalification program for period 780508-0611.

GOODMAN, D.A. :Metropolitan Edison Co.  
FLOYD, J.R. :Metropolitan Edison Co.  
DATE ISS:78/04/11, 3pp. ,48X:19231-037,00I:GPU 2171 ,TN:GB01 NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307050454 Requests that each shift foreman review EP12 02 - 2&2A,  
"Station blackout" & "Station blackout w/Loss of Diesel  
Generators," w/shift. Encl ltr re Indian Point Unit 3 770713  
trip forwarded for review & info.  
O'HANLON, J.P. : Metropolitan Edison Co.  
FLOYD, J.R. : Metropolitan Edison Co.  
DATE ISS: 77/07/22, 5pp. , 48x:19231-040, OOI:GPU 2172 , TN:GB01 NOT REVIEWED

8307050461 Administrative forms listing attendees of training course in  
cold license training.  
\* : Babcock & Wilcox Co.  
:   
DATE ISS: 76/03/29, 13pp. , 48x:19231-045, OOI:GPU 2173 , TN:GB01 NOT REVIEWED

8307050494 Exam retest for operator license issued for ER Frederick  
written exam dtd 770617, Operating test administered 770914.  
\* : Operator Licensing Branch  
:   
DATE ISS: 77/10/17, 1p. , 48x:19231-208, OOI:GPU 2181 , TN:GB01 NOT REVIEWED

8307050499 Authorizes release of all info in NRC files re NRC reactor  
operator license written & oral exam results for FOIA  
request.  
FREDERICK, E.R. : Metropolitan Edison Co.  
: Division of Rules and Records  
DATE ISS: 79/11/30, 89pp. , 48x:19231-209, OOI:GPU 2182 , TN:GB01 NOT REVIEWED

8307070173 "Auxiliary Operators - Nuclear Training Program, 730409-  
1010."  
\* : Metropolitan Edison Co.  
:   
DATE ISS: 73/10/10, 12pp. , 48x:19372-206, OOI:GPU 2242 , TN:GB01 NOT REVIEWED

8307070251 Provides list of recommended changes to shift supervisor  
development program, in light of NRC exams.  
MITZ, G.H. : Metropolitan Edison Co.  
MILLER, G.P. : Metropolitan Edison Co.  
DATE ISS: 77/08/16, 13pp. , 48x:19372-270, OOI:GPU 2249 , TN:GB01 NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307130051 "Nuclear Power Preparatory Training, Core Performance 4,  
Heat Transfer & Heat Generation."  
\* :NUS Corp.  
: DATE ISS:69/12/31, 40p. ,48X:19497-236,ODI:GPU 2250 ,TN:G801 NOT REVIEWED

8307050272 Rev 2 to Administrative Procedure 1006 "Operator  
Requalification Program."  
\* :Metropolitan Edison Co.  
: DATE ISS:77/04/11, 17pp. ,48X:19222-079,ODI:GPU 2251 ,TN:G801 NOT REVIEWED

8307050273 "Operator Requalification Program."  
\* :Metropolitan Edison Co.  
: DATE ISS:78/04/07, 8pp. ,48X:19222-096,ODI:GPU 2252 ,TN:G801 NOT REVIEWED

8307050276 Speech entitled "NRC Review of Licensed Operator  
Requalification Programs for Nuclear Power Plants,"  
presented at 8th Biennial Topical Conference on Reactor  
Operating Experience 770807-10 meeting in Chattanooga, TN.  
COOLEY, R.A. : Operator Licensing Branch  
: DATE ISS:77/08/07, 16pp. ,48X:19222-104,ODI:GPU 2253 ,TN:G801 NOT REVIEWED

8307060591 Chart describing personnel positions from 1975-1979.  
\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/12/31, 1p. ,48X:19372-166,ODI:GPU 2260 ,TN:G801 NOT REVIEWED

8307060596 Chart describing auxiliary operator mode of progression.  
\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/05, 1p. ,48X:19372-167,ODI:GPU 2261 ,TN:G801 NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
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8307060600 Training program for 1977.

\* :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:77/12/31, 8pp. ,48x:19372-168,ODI:GPU 2262 ,TN:GB01 NOT REVIEWED

8307070018 Forwards schedule for lesson plan completion on Unit 2 sys.

TSAGGARIS,A. :Metropolitan Edison Co.  
FLOYD,J. :Metropolitan Edison Co.  
DATE ISS:76/08/02, 9pp. ,48x:19372-181,ODI:GPU 2265 ,TN:GB01 NOT REVIEWED

8307070027 Provides list of procedures scheduled to be simulated on each shift.

KUNDER,G.A. :Metropolitan Edison Co.  
TSAGGARIS,L. :Metropolitan Edison Co.  
DATE ISS:76/07/29, 3pp. ,48x:19372-189,ODI:GPU 2266 ,TN:GB01 NOT REVIEWED

8307070042 Discusses status of present auxiliary operator program & training proposals.

TSAGGARIS,A. :Metropolitan Edison Co.  
HEMBEIN,J.G. :Metropolitan Edison Co.  
DATE ISS:76/05/17, 5pp. ,48x:19372-194,ODI:GPU 2268 ,TN:GB01 NOT REVIEWED

8307070049 Generation Div-TMI Station Resumes.Pp 643-644.

\* :Metropolitan Edison Co.  
: :  
DATE ISS:81/06/23, 2pp. ,48x:19372-199,ODI:GPU 2269 ,TN:GB01 NOT REVIEWED

8307070055 Generation Div-TMI Station Resumes.Pp 509-510.

\* :Metropolitan Edison Co.  
: :  
DATE ISS:81/06/23, 2pp. ,48x:19372-201,ODI:GPU 2270 ,TN:GB01 NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
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8307070169 Generation Div-TMI Station Resumes.Pp 342-344.

\* :Metropolitan Edison Co.  
: DATE ISS:81/06/23, 3pp. ,48X:19372-203,00I:GPU 2271 ,TN:GB01 NOT REVIEWED

8307070217 Auxiliary operator nuclear training program for Group 4.

\* :Metropolitan Edison Co.  
: DATE ISS:74/08/31, 17pp. ,48X:19372-218,00I:GPU 2273 ,TN:GB01 NOT REVIEWED

8307070221 Special instructions for training program.

ZEW, W. :Metropolitan Edison Co.  
: DATE ISS:72/12/31, 6pp. ,48X:19372-235,00I:GPU 2274 ,TN:GB01 NOT REVIEWED

8307070243 Notifies that as part of Unit 2 control room operator partial training, Unit 2 control room operators have been assigned to work in Unit 1 control room from 751201-760115.

KUNDER, G.A. :Metropolitan Edison Co.  
SEELINGER, J. :Metropolitan Edison Co.  
DATE ISS:75/11/17, 2pp. ,48X:19372-264,00I:GPU 2277 ,TN:GB01 NOT REVIEWED

8307070247 Forwards results of Unit 2 770413-14 progress exam & comparisons w/results of first exam.

GOODMAN, D.A. :Metropolitan Edison Co.  
MILLER, G.P. :Metropolitan Edison Co.  
DATE ISS:77/05/02, 4pp. ,48X:19372-266,00I:GPU 2278 ,TN:GB01 NOT REVIEWED

8307070262 Forwards schedule to be followed for implementation of co-shift STS program for Unit 2 operations personnel.

BOLTZ, D.J. :Metropolitan Edison Co.  
MILLER, J.P. :Metropolitan Edison Co.  
DATE ISS:77/03/31, 3pp. ,48X:19372-283,00I:GPU 2280 ,TN:GB01 NOT REVIEWED



U. S. NUCLEAR REGULATORY COMMISSION  
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8307070266 Requests approval to formally ask G Hitz to participate in  
shift supervisor training program to prepare for license.

MILLER, G.P. :Metropolitan Edison Co.  
HERBEIN, J.G. :Metropolitan Edison Co.  
DATE ISS: 77/03/22, 6pp. ,48x:19372-286, ODI:GPU 2281 ,TN:GB01

NOT REVIEWED

8307070271 Plant operations training, classroom & control room  
schedules.

\* :Babcock & Wilcox Co.  
:;  
DATE ISS: 76/01/08, 15pp. ,48x:19372-292, ODI:GPU 2282 ,TN:GB01

NOT REVIEWED

8307070276 Forwards grade sheets for various exams given in second  
part of Unit 2 control room operator program.

ZECHMAN, R.W. :Metropolitan Edison Co.  
PERKS, W.E. :Metropolitan Edison Co.  
DATE ISS: 75/12/07, 16pp. ,48x:19372-307, ODI:GPU 2283 ,TN:GB01

NOT REVIEWED

8307070283 "Category IV Containment Reactor Operator Study Assignment  
Sheets."

\* :Metropolitan Edison Co.  
:;  
DATE ISS: 79/06/08, 55pp. ,48x:19372-325, ODI:GPU 2284 ,TN:GB01

NOT REVIEWED

8307070289 Generation Div - TMI Station Resumes, Pp 168-169.

\* :Metropolitan Edison Co.  
:;  
DATE ISS: 81/06/23, 2pp. ,48x:19373-016, ODI:GPU 2285 ,TN:GB01

NOT REVIEWED

8307070307 "TMI Training Programs, 1977."

\* :Metropolitan Edison Co.  
:;  
DATE ISS: 77/12/31, 17pp. ,48x:19373-088, ODI:GPU 2289 ,TN:GB01

NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307070311 Discusses training dept orientation program &  
requalification exams.

ZECHMAN, R.W. :Metropolitan Edison Co.  
:Metropolitan Edison Co.

DATE ISS:79/03/08, 6pp. ,48X:19373-105,ODI:GPU 2290 ,TN:GB01

NOT REVIEWED

8307070319 Forwards schedule for unit 2 prelicense training course.

GOODMAN, D.A. :Metropolitan Edison Co.  
BENSEL, R.W. :Metropolitan Edison Co.

DATE ISS:77/07/08, 8pp. ,48X:19373-111,ODI:GPU 2291 ,TN:GB01

NOT REVIEWED

8307070325 Submits results of first weekly exam at simulator.

\*  
FLOYD, J. :Metropolitan Edison Co.  
:Metropolitan Edison Co.

DATE ISS:77/01/18, 2pp. ,48X:19373-119,ODI:GPU 2292 ,TN:GB01

NOT REVIEWED

8307070332 Provides list of matl to be covered during written  
comprehensive exam for cold license.

ZECHMAN, R.W. :Metropolitan Edison Co.  
NEUMANN, D. :Metropolitan Edison Co.

DATE ISS:77/01/27, 2pp. ,48X:19373-121,ODI:GPU 2293 ,TN:GB01

NOT REVIEWED

8307070336 Provides list of sys already covered in containment reactor  
operator & cross-license program.

TSAGGARIS, A. :Metropolitan Edison Co.  
FLOYD, J. :Metropolitan Edison Co.

DATE ISS:76/10/29, 1p. ,48X:19373-123,ODI:GPU 2294 ,TN:GB01

NOT REVIEWED

8307070341 Forwards outline of 2-wk course to begin 760517 to prepare  
operators for final written exam.

TSAGGARIS, A. :Metropolitan Edison Co.  
MILLER, G.P. :Metropolitan Edison Co.

DATE ISS:76/05/05, 3pp. ,48X:19373-124,ODI:GPU 2295 ,TN:GB01

NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307070376 Discusses requalification training program.

ELLIOTT, N.S. :Babcock & Wilcox Co.  
OLDS, G.M. :Babcock & Wilcox Co.  
DATE ISS:79/01/08, 2pp. ,48X:19373-162, ODI:GPU 2302 ,TN:GB01 NOT REVIEWED

8307070402 Power plant exam results summary sheets.

\* :NRC - No Detailed Affiliation Given  
:;  
DATE ISS:78/11/17, 7pp. ,48X:19373-168, ODI:GPU 2305 ,TN:GB01 NOT REVIEWED

8307130076 "Spec for Nuclear Power Plant Training Simulator."

\* :Babcock & Wilcox Co.  
:;  
DATE ISS:69/01/15, 263pp. ,48X:19497-249, ODI:GPU 2310 ,TN:GB01 NOT REVIEWED

8307110736 Discusses B&W requalification training program.

ELLIOTT, M.S. :Babcock & Wilcox Co.  
OLDS, G.M. :Babcock & Wilcox Co.  
DATE ISS:79/01/06, 2pp. ,48X:19482-181, ODI:GPU 2321 ,TN:GB01 NOT REVIEWED

8307110738 Resume of RJ Marzec.

MARZEC, R.J. :Affiliation Unknown  
:;  
DATE ISS:83/07/09, 3pp. ,48X:19482-183, ODI:GPU 2322 ,TN:GB01 NOT REVIEWED

8307080028 "Training & Certification of Licensed Personnel."

\* :Metropolitan Edison Co.  
:;  
DATE ISS:79/07/18, 104pp. ,48X:19359-347, ODI:GPU 2323 ,TN:GB01 NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307110749 B&W Simulator Model.

\* :Metropolitan Edison Co.  
: DATE ISS:83/07/09, 2pp. ,48x:19482-187,ODI:GPU 2329 ,TN:GB01 NOT REVIEWED

8307080106 Transcript of 820428 reat of Special Master re reopened  
restart proceedings.Pp 1-196.

\* :Atomic Safety and Licensing Board Panel  
: DATE ISS:82/04/28, 201pp. ,48x:19360-144,ODI:GPU 2334 ,TN:GB01 NOT REVIEWED

8307080115 Power plant exam results summary sheets.

\* :Metropolitan Edison Co.  
: DATE ISS:83/07/07, 59pp. ,48x:19360-345,ODI:GPU 2335 ,TN:GB01 NOT REVIEWED

8307080133 Discusses Category IV control room operator training  
program.

TSAGGARIS,A. :Metropolitan Edison Co.  
HERBEIN,J.G. :Metropolitan Edison Co.  
DATE ISS:76/02/20, 19pp. ,48x:19361-073,ODI:GPU 2337 ,TN:GB01 NOT REVIEWED

8307120019 Offer of proof for record on various points re R Marzec  
proposed testimony but excluded by court concerning TMI  
operator actions concerning HPI.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/11, 6pp. ,48x:19495-146,ODI:GPU 2349 ,TN:GB01 NOT REVIEWED

830708(2b) Forwards schedule & simulator training summary sheet for  
d Kemper.

ELLIOTT,W.S. :dabcock & wilcox Co.  
KANE,E.R. :dabcock & wilcox Co.  
DATE ISS:80/02/29, 1p. ,48x:19361-163,ODI:GPU 2419 ,TN:GB01 NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307080265 Provides list of personnel who have completed 2-wk operator training course on B&W nuclear power plant simulator. Simulator training summary sheet for each individual encl.

LIND, J.A. :Babcock & Wilcox Co.  
GRIFFITH, P. :Florida Power & Light Co.  
DATE ISS:80/01/08, 4pp. ,48x:19361-164, ODI:GPU 2420 ,TN:GB01

NOT REVIEWED

8307080276 "Nuclear Operator Requalification, Simulator & Classroom Approach."

ELLIOTT, N.S. :Babcock & Wilcox Co.  
DATE ISS:83/07/06, 8pp. ,48x:19361-180, ODI:GPU 2422 ,TN:GB01

NOT REVIEWED

8307080295 Discusses top 10 lessons learned from Unit 2 accident.

KOSIBA, R.E. :Babcock & Wilcox Co.  
MACMILLAN, J.H. :Babcock & Wilcox Co.  
DATE ISS:79/06/11, 4pp. ,48x:19361-217, ODI:GPU 2426 ,TN:GB01

NOT REVIEWED

8307080483 "Emergency & Abnormal Procedures Quiz - Senior Reactor Operator."

KUNDER, S.A. :General Public Utilities - GPU Service Corp.  
DATE ISS:76/10/20, 3pp. ,48x:19361-313, ODI:GPU 2456 ,TN:GB01

NOT REVIEWED

8307080487 "Emergency & Abnormal Procedures Quiz - Senior Reactor Operator."

KUNDER, G. :General Public Utilities - GPU Service Corp.  
DATE ISS:77/01/09, 8pp. ,48x:19361-316, ODI:GPU 2457 ,TN:GB01

NOT REVIEWED

8307080506 Lists personnel who have completed 1 wk operator training course on B&W nuclear power plant simulator. Individual summary sheets encl.

LIND, J.A. :Babcock & Wilcox Co.  
ZECHMAN, D. :Metropolitan Edison Co.  
DATE ISS:79/01/22, 4pp. ,48x:19361-343, ODI:GPU 2460 ,TN:GB01

NOT REVIEWED



U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307080515 "Simulator Training."

\* :Babcock & Wilcox Co.  
: DATE ISS:78/01/25, 7pp. ,48x:19361-347,ODI:GPU 2461 ,TN:GB01 NOT REVIEWED

8307080520 Forwards IE Insp Rept 50-289/79-06 on 790221-23 & 26-28.No noncompliance noted.

BRUNNER,E.J. : Region 1, Philadelphia, Reactor Operations Nuclear Support  
HERBEIN,J.G. : Metropolitan Edison Co.  
DATE ISS:79/03/21, 2pp. ,48x:19361-356,ODI:GPU 2462 ,TN:GB01 NOT REVIEWED

8307080732 Rev 0 to Policy NPC-0151-850, "Objectives & Responsibilities - Nuclear Svc."

MACMILLAN,J. :Babcock & Wilcox Co.  
: DATE ISS:75/12/11, 2pp. ,48x:19491-160,ODI:GPU 2514 ,TN:GB01 NOT REVIEWED

8307120647 Responses to Questions 3 & 4 re operating procedures for loss of feed, loss of reactor coolant/loss of reactor coolant pressure & reactor trip.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/11, 7pp. ,48x:19495-180,ODI:GPU 2619 ,TN:GB01 NOT REVIEWED

8307090007 Summary of 790416 meeting re operational limits which should govern operator actions to secure or terminate MPI.

CARTIN,L.R. :Babcock & Wilcox Co.  
BRAZILL,G.J. :Babcock & Wilcox Co.  
DATE ISS:79/04/18, 4pp. ,48x:19491-348,ODI:GPU 2707 ,TN:GB01 NOT REVIEWED

8307120642 "Hours of Lecture or Lecture Equivalent Required in FSAR, Cycle 5:Mar 1978 - Mar 1979."

\* :Metropolitan Edison Co.  
: DATE ISS:83/07/12, 2pp. ,48x:19504-349,ODI:GPU 3030 ,TN:GB01 NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307120645 "Thirty Hours Classroom Attendance Required in FSAR, Cycle  
5: Mar 1978 - Mar 1979," chart.

\* :Metropolitan Edison Co.  
:

DATE ISS:83/07/12, 2pp. ,48x:19504-351,ODI:GPU 3031 ,TN:GB01

NOT REVIEWED

8307050411 Transcript of BM Dunn 790630 deposition, Pa 30-34,43-45,47,  
52-55,65-66,69-75,78, 11-82 & 98-99.

DUNN, B.M. :General Public Utilities - GPU Service Corp.  
:

DATE ISS:79/06/30, 29pp. ,48x:19232-185,ODI:GPU 6021 ,TN:GB01

NOT REVIEWED

8307050419 Transcript of BM Dunn 790702 deposition, Pa 104-105,157,  
164-167,169,171-172,175-176,179-182,199,203-206,208-212 &  
219-220.

DUNN, B.M. :General Public Utilities - GPU Service Corp.  
:

DATE ISS:79/07/02, 30pp. ,48x:19232-214,ODI:GPU 6022 ,TN:GB01

NOT REVIEWED

8307050426 Transcript of NS Elliott 790705 deposition, Pa 78-82,146-147,  
156-157 & 159-167.

\* :General Public Utilities - GPU Service Corp.  
:

DATE ISS:79/07/05, 19pp. ,48x:19232-251,ODI:GPU 6024 ,TN:GB01

NOT REVIEWED

8307050431 Transcript of NS Elliott 791017 deposition, Pa 9-10,13-15,  
17-19 & 22-28.

ELLIOTT, N.S. :General Public Utilities - GPU Service Corp.  
:

DATE ISS:79/10/17, 10pp. ,48x:19232-270,ODI:GPU 6025 ,TN:GB01

NOT REVIEWED

8307050476 Transcript of JJ Kelly 790707 deposition, Pa 6,9-11,13-15,  
21-22,25-29,34-41 & 44.

KELLY, J.J. :General Public Utilities - GPU Service Corp.  
:

DATE ISS:79/07/07, 25pp. ,48x:19233-145,ODI:GPU 6033 ,TN:GB01

NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307070185 Partial deposition of EA Womack on 790630.

WOMACK, E.A. : Babcock & Wilcox Co.

DATE ISS: 79/06/30, 30pp. , 48X: 19357-116, ODI: GPU 6054 , TN: G801

NOT REVIEWED

8307070234 Partial transcript of IE TMI investigation interview of  
C Faust on 790421.

FAUST, C. : General Public Utilities - GPU Service Corp.

DATE ISS: 79/04/21, 82pp. , 48X: 19357-289, ODI: GPU 6059A , TN: G801

NOT REVIEWED

002519 RECORDS SCANNED 362 RECORDS PRINTED ( 354 RECORDS, 8 SUPP.)  
ENDING CODE= 186 LAST KEY= GPU 6060AA 830712092004

OUT OF SEQUENCE EXHIBITS

8307050366 Transcript of Zewe 790919 testimony.

ZEWEL, : General Public Utilities - GPU Service Corp.

DATE ISS: 79/09/19, 2pp. , 48X: 19232-067, ODI: GPU 6003 AA , TN: G801

1.2

CATEGORY 2  
TRIAL TESTIMONY

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8306290419 Transcript of 821101 trial between util & B&W in  
New York, NY. Pd 1-189.

\* :U.S. District Court, Southern District of New York  
:  
DATE ISS:82/11/01, 189pp. ,4Rx:19022-001,ODI: ,TN:GB02

2.5

8307260457 Testimony of M Derivan on 821103 in New York, NY. Pd 397-537.

DERIVAN, M. :Toledo Edison Co.  
:  
DATE ISS:82/11/03, 140pp. ,4Rx:19023-036,ODI: ,TN:GB02

NOT REVIEWED

8306290407 Testimony of MJ Derivan on 821104 in New York, NY. Pd 538-687.

DERIVAN, M. J. :Toledo Edison Co.  
:  
DATE ISS:82/11/04, 150pp. ,4Rx:19023-176,ODI: ,TN:GB02

NOT REVIEWED

8306290671 Testimony of BM Dunn on 830120 in New York, NY. Pd 7,289-  
7,424.

DUNN, B. M. :Babcock & Wilcox Co.  
:  
DATE ISS:83/01/20, 136pp. ,4Rx:19041-313,ODI: ,TN:GB02

NOT REVIEWED

8307260610 Testimony of ER Frederick on 821202 in New York, NY. Pd 3,181-  
3,215.

FREDERICK, E. R. :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:82/12/02, 35pp. ,4Rx:19030-169,ODI: ,TN:GB02

NOT REVIEWED

8306290499 Testimony of ER Frederick on 821206 in New York, NY. Pd 3,216-  
3,377.

FREDERICK, E. R. :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:82/12/06, 161pp. ,4Rx:19030-204,ODI: ,TN:GB02

NOT REVIEWED



U. S. NUCLEAR REGULATORY COMMISSION  
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8306290502 Testimony of ER Frederick on 821207, in New York, NY, Pd 3,378-3,559.

FREDERICK, E.R. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/12/07, 181pp., 4Rx: 19031-004, ODI: , TN: GB02

NOT REVIEWED

8306290541 Testimony of ER Frederick on 821208 in New York, NY, Pd 3,560-3,733.

FREDERICK, E.R. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/12/08, 174pp., 4Rx: 19031-106, ODI: , TN: GB02

NOT REVIEWED

8306290543 Testimony of ER Frederick on 821209 in New York, NY, Pd 3,734-3,906.

FREDERICK, E.R. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/12/09, 172pp., 4Rx: 19031-361, ODI: , TN: GB02

NOT REVIEWED

8306290557 Testimony of ER Frederick on 821210 in New York, NY, Pd 3,907-3,989.

FREDERICK, E.R. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/12/10, 83pp., 4Rx: 19032-173, ODI: , TN: GB02

NOT REVIEWED

8306290560 Testimony of ER Frederick on 821213 in New York, NY, Pd 3,990-4085.

FREDERICK, E.R. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/12/13, 97pp., 4Rx: 19032-257, ODI: , TN: GB02

NOT REVIEWED

8306290437 Testimony of DF Hallman on 821112 in New York, NY, Pd 1,267-1,337.

HALLMAN, D.F. : Babcock & Wilcox Co.

DATE ISS: 82/11/12, 71pp., 4Rx: 19025-183, ODI: , TN: GB02

NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8306290440 Testimony of DF Hallman on 821115 in New York, NY. Pd 1,338-1395.

HALLMAN, D.F. :Hobcock & Wilson Co.

DATE ISS:82/11/15, 6800. ,4RX:19025-254,001: ,TN:GB02

NOT REVIEWED

8307260388 Testimony of J Herbein on 830118 in New York, NY. Pd 7,095-7,123.

HERBEIN, J. :General Public utilities - GPU Service Corp.

DATE ISS:83/01/18, 2900. ,4RX:19041-118,001: ,TN:GB02

NOT REVIEWED

8307260429 Testimony of E Kane on 821214 in New York, NY. Pd 4,370-4,388.

KANE, E. :Hobcock & Wilson Co.

DATE ISS:82/12/14, 1900. ,4RX:19033-276,001: ,TN:GB02

NOT REVIEWED

8306290617 Testimony of E Kane on 821215 in New York, NY. Pd 4,389-4,414.

KANE, E. :Hobcock & Wilson Co.

DATE ISS:82/12/15, 2700. ,4RX:19695-078,001: ,TN:GB02

NOT REVIEWED

8307260277 Testimony of BA Karrasch on 821115 in New York, NY. Pd 1,396-1,454.

KARRASCH, B.A. :Hobcock & Wilson Co.

DATE ISS:82/11/15, 6900. ,4RX:19025-312,001: ,TN:GB02

NOT REVIEWED

8306290589 Testimony of RT Lahey on 821221 in New York, NY. Pd 5,103-5,203.

LAHEY, R.T. :Kensselaer Polytechnic Inst.

DATE ISS:82/12/21, 10100. ,4RX:19035-290,001: ,TN:GB02

NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
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8306290591 Testimony of RT Laney on 821222 in New York, NY, Pd 5,280-  
5,370.

LAHEY, R.T. : Rensselaer Polytechnic Inst.

DATE ISS: 82/12/22, 91pp. , 4RX: 19036-105, 001: , TN: G802

NOT REVIEWED

8306290630 Testimony of RJ Marzer on 830105 in New York, NY, Pd 5,950-  
6,081.

MARZEC, R.J. : Duke Power Co.

DATE ISS: 83/01/05, 132pp. , 4RX: 19038-053, 001: , TN: G802

NOT REVIEWED

8306290634 Testimony of RJ Marzer on 830106 in New York, NY, Pd 6,082-  
6,232.

MARZEC, R.J. : Duke Power Co.

DATE ISS: 83/01/06, 151pp. , 4RX: 19038-186, 001: , TN: G802

NOT REVIEWED

8306290638 Testimony of RJ Marzer on 830107 in New York, NY, Pd 6,233-  
6,359.

MARZEC, R.J. : Duke Power Co.

DATE ISS: 83/01/07, 127pp. , 4RX: 19038-337, 001: , TN: G802

NOT REVIEWED

8306290642 Testimony of RJ Marzer on 830110 in New York, NY, Pd 6,379-  
6,481.

MARZEC, R.J. : Duke Power Co.

DATE ISS: 83/01/10, 103pp. , 4RX: 19039-121, 001: , TN: G802

NOT REVIEWED

8307260613 Testimony of C Michelson on 821223 in New York, NY, Pd 5,481-  
5,588.

MICHELSON, C. : Director's Office

DATE ISS: 82/12/23, 108pp. , 4RX: 19036-308, 001: , TN: G802

NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
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8307260071 Testimony of C Michelson on 830104 in New York, NY. Pd 5,912-5921.

MICHELSON, C. : Director's Office

DATE ISS:83/01/04, 10pp. ,4Rx:19036-015,001: ,TN:GB02

NOT REVIEWED

8307260427 Testimony of J Phinney on 821214 in New York, NY. Pd 4,263-4,283.

PHINNEY, J. : Babcock & Wilcox Co.

DATE ISS:82/12/14, 21pp. ,4Rx:19033-169,001: ,TN:GB02

NOT REVIEWED

8307210407 Testimony of L Rogers on 821212. Pd 5371-5446.

ROGERS, L. : Babcock & Wilcox Co.

DATE ISS:82/12/12, 76pp. ,4Rx:19695-001,001: ,TN:GB02

NOT REVIEWED

8306290624 Testimony of L Rogers on 821223 in New York, NY. Pd 5,447-5,481.

ROGERS, L. : Babcock & Wilcox Co.

DATE ISS:82/12/23, 36pp. ,4Rx:19036-273,001: ,TN:GB02

NOT REVIEWED

8306290575 Testimony of TF Scott on 821214 in New York, NY. Pd 4,179-4,217.

SCOTT, T.F. : Babcock & Wilcox Co.

DATE ISS:82/12/14, 40pp. ,4Rx:19696-246,001: ,TN:GB02

2.5

8307260447 Testimony of Sieglitz on 830103 in New York, NY. Pd 5,701-5,753.

SIEGLITZ, R. : General Public Utilities - GPU Service Corp.

DATE ISS:83/01/03, 53pp. ,4Rx:19037-166,001: ,TN:GB02

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8306290637 Testimony of R Sieglitz on 830104 in New York, NY, Pd 5,754-5911.

SIEGLITZ, R. :General Public Utilities - GPU Service Corp.

DATE ISS:83/01/04, 147pp. ,48x:19037-219,001: ,TN:GB02

IRRELEVANT

8307260585 Testimony of E Swanson on 821215 in New York, NY, Pd 4,415-4,486.

SWANSON, E. :Babcock & Wilcox Co.

DATE ISS:82/12/15, 70pp. ,48x:19033-322,001: ,TN:GB02

IRRELEVANT

8307260575 Testimony of J Taylor on 821109 in New York, NY, Pd 964-1,030.

TAYLOR, J. :Babcock & Wilcox Co.

DATE ISS:82/11/09, 67pp. ,48x:19024-241,001: ,TN:GB02

2.5

8307260176 Testimony of EA Womack on 821216 in New York, NY, Pd 4,612-4,662.

WOMACK, E.A. :Babcock & Wilcox Co.

DATE ISS:82/12/16, 51pp. ,48x:19034-157,001: ,TN:GB02

2.5

8307260240 Testimony of WH Zewe on 821117 in New York, NY, Pd 1,792-1,875.

ZEW, W.H. :General Public Utilities - GPU Service Corp.

DATE ISS:82/11/17, 84pp. ,48x:19026-347,001: ,TN:GB02

2.5

8306290441 Testimony of WH Zewe on 821118 in New York, NY, Pd 1,876-2,039.

ZEW, W.H. :General Public Utilities - GPU Service Corp.

DATE ISS:82/11/18, 163pp. ,48x:19027-069,001: ,TN:GB02

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8306290450 Testimony of WM Zewe on 821119 in New York, NY. Pd 2,040-  
2,137. Pd 2,040-2,061 withheld.

ZEW, W.H. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/11/19, 7500. , 48X: 19027-233, 00I: , TN: GB02 2.5

8306290452 Testimony of WM Zewe on 821122 in New York, NY. Pd 2,138-  
2,311.

ZEW, W.H. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/11/22, 17300. , 48X: 19027-311, 00I: , TN: GB02 2.5

8306290453 Testimony of WM Zewe on 821123 in New York, NY. Pd 2,312-  
2,574.

ZEW, W.H. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/11/23, 16200. , 48X: 19028-123, 00I: , TN: GB02 2.5

8306290463 Testimony of WM Zewe on 821201 in New York, NY.  
Pd 2,924-3,040.

ZEW, W.H. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/12/01, 11600. , 48X: 19029-273, 00I: , TN: GB02 2.1, 2.2, 2.3, 2.4, 2.5,  
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8306290472 Testimony of WM Zewe on 821202 in New York, NY. Pd 3,041-  
3,180.

ZEW, W.H. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/12/02, 14000. , 48X: 19030-029, 00I: , TN: GB02 2.5

003037 RECORDS SCANNED 41 RECORDS PRINTED ( 15 RECORDS, 26 SUPP.)  
ENDING CODE= 186 LAST KEY= ZODIACO, V.P. 790511GB07

CATEGORY 2  
DEPOSITIONS

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8307150007 Deposition of J Albert on 820421 in New York, NY. Pp 1-162.

ALBERT, J. : Babcock & Wilcox Co.

DATE ISS: 82/04/21, 162pp. , 48X: 19529-001, ODI: , TN: GB02 NOT REVIEWED

8307110145 Deposition of RC Arnold on 820629 in New York, NY. Pp 1-297.

ARNOLD, R. C. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/06/29, 289pp. , 48X: 19489-024, ODI: , TN: GB02 2.5

8307120735 Deposition of RC Arnold on 820630 in New York, NY. Pp  
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ARNOLD, R. C. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/06/30, 6pp. , 48X: 19495-291, ODI: B&W 4044 , TN: GB02 2.5

8307120726 Continued deposition of RC Arnold on 820701 in New York, NY.  
Pp 288-471.

ARNOLD, R. C. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/07/01, 184pp. , 48X: 19465-070, ODI: , TN: GB02 2.5

8306290855 Deposition of G Billingsley on 820218 in New York, N. Y.  
Pp 1-157.

BILLINGSLEY, G. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/02/18, 159pp. , 48X: 19058-087, ODI: , TN: GB02 2.4, 2.7

8306290859 Deposition of G Billingsley on 820219 in New York, N. Y.  
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BILLINGSLEY, G. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/02/19, 173pp. , 48X: 19058-246, ODI: , TN: GB02 NOT REVIEWED

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8306290862 Deposition of G Billingsley on 820225 in New York, N. Y.  
Pp 332-413.

BILLINGSLEY, G. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/02/25, 81pp. , 48X: 19059-058, ODI: , TN: GB02 NOT REVIEWED

8306290826 Deposition of ND Brown on 810721 in New York, N. Y. Pp 601-710.

BROWN, N. D. : Metropolitan Edison Co.

DATE ISS: 81/07/21, 113pp. , 48X: 19061-237, ODI: , TN: GB02 2.5

8306290962 Deposition of LR Cartin on 820413 in New York, NY. Pp 1-113.

CARTIN, L. R. : Babcock & Wilcox Co.

DATE ISS: 82/04/13, 113pp. , 48X: 19064-025, ODI: , TN: GB02 2.2, 2.5

8306290966 Deposition of LR Cartin on 820414 in New York, NY. Pp 114-214.

CARTIN, L. R. : Babcock & Wilcox Co.

DATE ISS: 82/04/14, 100pp. , 48X: 19064-140, ODI: , TN: GB02 2.5

8306290934 Deposition of AJ Dominguez on 820817 in New York. Pp 1-120.

DOMINGUEZ, A. J. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/08/17, 122pp. , 48X: 19065-133, ODI: , TN: GB02 2.7

8306290938 Deposition of BM Dunn on 810311 in New York, NY. Pp 1-133.

DUNN, B. M. : Babcock & Wilcox Co.

DATE ISS: 81/03/11, 133pp. , 48X: 19065-256, ODI: , TN: GB02 2.5

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8306290943 Deposition of BM Dunn on B10312 in New York, NY. Pp 134-261.

DUNN, B. M. : Babcock & Wilcox Co.  
DATE ISS: 81/03/12, 130pp. , 48X: 19066-028, ODI: , TN: CB02 2.5

8306290949 Deposition of BM Dunn on B10313 in New York, NY. Pp 262-389.

DUNN, B. M. : Babcock & Wilcox Co.  
DATE ISS: 81/03/13, 129pp. , 48X: 19066-159, ODI: , TN: CB02 2.5

8306290704 Deposition of F Faist on B20323 in New York, NY. Pp 1-137.  
Supporting documentation encl.

FAIST, F. : Babcock & Wilcox Co.  
DATE ISS: 82/03/23, 148pp. , 48X: 19072-052, ODI: , TN: CB02 2.5

8306290713 Deposition of CC Faust on B10819 in New York, NY. Pp 129-412.

FAUST, C. C. : Metropolitan Edison Co.  
DATE ISS: 81/08/19, 283pp. , 48X: 19072-331, ODI: , TN: CB02 NOT REVIEWED

8307060447 Deposition of CC Faust on B10820 in New York, NY. Pp 276-412.

FAUST, C. C. : Metropolitan Edison Co.  
DATE ISS: 81/08/20, 136pp. , 48X: 19301-291, ODI: , TN: CB02 NOT REVIEWED

8306290701 Deposition of CC Faust on B10821 in New York, NY. Pp 413-566.

FAUST, C. C. : Metropolitan Edison Co.  
DATE ISS: 81/08/21, 193pp. , 48X: 19073-275, ODI: , TN: CB02 2.5

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8306290703 Deposition of CC Faust on 810924 in New York, NY. Pp 569-712.

FAUST, C. C. : Metropolitan Edison Co.  
DATE ISS: 81/09/24, 143pp. , 48X: 19074-068, ODI: , TN: 0802 2.4, 2.5

8306290705 Deposition of CC Faust on 810925 in 810925. Pp 713-898.

FAUST, C. C. : Metropolitan Edison Co.  
DATE ISS: 81/09/25, 185pp. , 48X: 19074-212, ODI: , TN: 0802 2.5, 2.7

8306290727 Deposition of JR Floyd on 820219 in New York, NY. Pp 160-293.  
Supporting documentation encl.

FLOYD, J. R. : Metropolitan Edison Co.  
DATE ISS: 82/02/19, 134pp. , 48X: 19076-241, ODI: , TN: 0802 2.4, 2.5

8306290733 Deposition of JR Floyd on 820428 in New York, NY. Pp 294-422.

FLOYD, J. R. : Metropolitan Edison Co.  
DATE ISS: 82/04/28, 128pp. , 48X: 19077-014, ODI: , TN: 0802 NOT REVIEWED

8306290736 Deposition of JR Floyd on 820429 in New York, NY. Pp 433-538.

FLOYD, J. R. : Metropolitan Edison Co.  
DATE ISS: 82/04/29, 105pp. , 48X: 19077-144, ODI: , TN: 0802 2.5

8306290738 Deposition of JR Floyd on 820430 in New York, NY. Pp 529-626.

FLOYD, J. R. : Metropolitan Edison Co.  
DATE ISS: 82/04/30, 97pp. , 48X: 19077-250, ODI: , TN: 0802 2.5



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8306290717 Deposition of ER Frederick on 820505 in New York, NY.  
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FREDERICK, E. R. : Metropolitan Edison Co.

DATE ISS: 82/05/05, 152pp. , 48X: 19078-116, ODI: , TN: GB02 2.5

8306290719 Deposition of ER Frederick on 820506 in New York, NY. Pp  
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FREDERICK, E. R. : Metropolitan Edison Co.

DATE ISS: 82/05/06, 138pp. , 48X: 19078-269, ODI: , TN: GB02 2.5

8306290780 Deposition of ER Frederick on 820512 in New York, NY.  
Pp 775-883.

FREDERICK, E. R. : Metropolitan Edison Co.

DATE ISS: 82/05/12, 108pp. , 48X: 19080-042, ODI: , TN: GB02 NOT REVIEWED

8306290786 Deposition of ER Frederick on 820513 in New York, NY.  
Pp 884-982.

FREDERICK, E. R. : Metropolitan Edison Co.

DATE ISS: 82/05/13, 98pp. , 48X: 19080-151, ODI: , TN: GB02 NOT REVIEWED

8306290816 Deposition of C Goslow on 820107 in New York, NY. Pp 1-153.

GOSLOW, C. : Babcock & Wilcox Co.

DATE ISS: 82/01/07, 153pp. , 48X: 19082-185, ODI: , TN: GB02 NOT REVIEWED

8306290823 Deposition of C Goslow on 820108 in New York, NY. Pp 154-306.

GOSLOW, C. : Babcock & Wilcox Co.

DATE ISS: 82/01/08, 153pp. , 48X: 19082-338, ODI: , TN: GB02 NOT REVIEWED

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8306290828 Deposition of CE Goslow on 820112 in New York, NY. Pp 307-430.

GOSLOW, C. E. : Babcock & Wilcox Co.

DATE ISS: 82/01/12, 124pp. , 48X: 19083-131, ODI: , TN: GB02 NOT REVIEWED

8306290833 Deposition of CE Goslow on 820617 in New York, NY. Pp 401-565.

GOSLOW, C. E. : Babcock & Wilcox Co.

DATE ISS: 82/06/17, 133pp. , 48X: 19083-254, ODI: , TN: GB02 NOT REVIEWED

8306290712 Deposition of DF Hallman on 820118 in New York, NY. Pp 1-82.

HALLMAN, D. F. : Babcock & Wilcox Co.

DATE ISS: 82/01/18, 82pp. , 48X: 19084-344, ODI: , TN: GB02 NOT REVIEWED

8306290716 Deposition of DF Hallman on 820119 in New York, NY. Pp 83-209.

HALLMAN, D. F. : Babcock & Wilcox Co.

DATE ISS: 82/01/19, 128pp. , 48X: 19085-064, ODI: , TN: GB02 NOT REVIEWED

8306290764 Deposition of DF Hallman on 820120 in New York, NY. Pp 210-353.

HALLMAN, D. F. : Babcock & Wilcox Co.

DATE ISS: 82/01/20, 144pp. , 48X: 19085-192, ODI: , TN: GB02 NOT REVIEWED

8306290758 Deposition of DF Hallman on 820121 in New York, NY. Pp 354-458.

HALLMAN, D. F. : Babcock & Wilcox Co.

DATE ISS: 82/01/21, 105pp. , 48X: 19085-336, ODI: , TN: GB02 NOT REVIEWED

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8306290752 Deposition of DF Hallman on 820122 in New York, NY. Pp 457-547.

HALLMAN, D. F. : Babcock & Wilcox Co.

DATE ISS: 82/01/22, 89pp. , 48X: 19086-079, ODI: , TN: 8B02 NOT REVIEWED

8306290745 Deposition of DF Hallman on 820615 in New York, NY. Pp 549-607.

HALLMAN, D. F. : Babcock & Wilcox Co.

DATE ISS: 82/06/15, 139pp. , 48X: 19086-168, ODI: , TN: 8B02 NOT REVIEWED

8306290741 Deposition of DF Hallman on 820616 in New York, NY. Pp 680-838.

HALLMAN, D. F. : Babcock & Wilcox Co.

DATE ISS: 82/06/16, 151pp. , 48X: 19086-307, ODI: , TN: 8B02 NOT REVIEWED

8306290881 Deposition of JG Herbein on 820630 in New York, N. Y. Pp 1-184.

HERBEIN, J. G. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/06/30, 187pp. , 48X: 19089-227, ODI: , TN: 8B02 NOT REVIEWED

8306290887 Deposition of JG Herbein on 820701 in New York, N. Y. Pp 185-274.

HERBEIN, J. G. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/07/01, 110pp. , 48X: 19090-051, ODI: , TN: 8B02 NOT REVIEWED

8306290892 Deposition of JG Herbein on 820702 in New York, N. Y. Pp 295-395.

HERBEIN, J. G. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/07/02, 124pp. , 48X: 19090-161, ODI: , TN: 8B02 2.5, 2.7

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8307270534 Continued deposition of RC Jones on B10702 in New York, NY.  
Pp 278-358.

JONES, R. C. : Babcock & Wilcox Co.

DATE ISS: 81/07/02, 81pp. , 48X: 19788-094, ODI: , TN: 6802

NOT REVIEWED

8306290698 Deposition of ER Kane on B11217 in New York, NY. Pp 252-373.

KANE, E. R. : Babcock & Wilcox Co.

DATE ISS: 81/12/17, 122pp. , 48X: 19093-134, ODI: , TN: 6802

NOT REVIEWED

8306290700 Deposition of ER Kane on B11218 in New York, NY. Pp 374-430.

KANE, E. R. : Babcock & Wilcox Co.

DATE ISS: 81/12/18, 66pp. , 48X: 19093-257, ODI: , TN: 6802

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8306290974 Deposition of BA Karrasch on B10616 in New York, NY. Pp 1-98.

KARRASCH, B. A. : Babcock & Wilcox Co.

DATE ISS: 81/06/16, 98pp. , 48X: 19093-313, ODI: , TN: 6802

NOT REVIEWED

8306290980 Deposition of BA Karrasch on B10617 in New York, NY.  
Pp 99-219.

KARRASCH, B. A. : Babcock & Wilcox Co.

DATE ISS: 81/06/17, 120pp. , 48X: 19094-048, ODI: , TN: 6802

NOT REVIEWED

8306290987 Deposition of BA Karrasch on B10619 in New York, NY.  
Pp 325-398.

KARRASCH, B. A. : Babcock & Wilcox Co.

DATE ISS: 81/06/19, 74pp. , 48X: 19094-276, ODI: , TN: 6802

NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
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8306290990 Deposition of BA Karrasch on 810929 in New York, NY.  
Pp 399-493.

KARRASCH, B. A. : Babcock & Wilcox Co.

DATE ISS: 81/09/29, 104pp. , 48X: 19094-353, ODI: , TN: GB02 NOT REVIEWED

8306290993 Deposition of BA Karrasch on 810930 in New York, NY.  
Pp 494-594.

KARRASCH, B. A. : Babcock & Wilcox Co.

DATE ISS: 81/09/30, 101pp. , 48X: 19095-086, ODI: , TN: GB02 NOT REVIEWED

8306290900 Deposition of R Keaten on 820108 in New York, NY. Pp 488-626.

KEATEN, R. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/01/08, 137pp. , 48X: 19096-317, ODI: , TN: GB02 2.1, 2.5

8306290907 Deposition of R Keaten on 820119 in New York, NY. Pp 628-764.  
Index of exhibits encl.

KEATEN, R. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/01/19, 137pp. , 48X: 19097-093, ODI: , TN: GB02 2.5

8306290913 Deposition of R Keaten on 820120 in New York, NY. Pp 765-904.  
Index of exhibits encl.

KEATEN, R. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/01/20, 140pp. , 48X: 19097-230, ODI: , TN: GB02 2.5

8306290918 Deposition of R Keaten on 820121 in New York, NY. Pp 905-  
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KEATEN, R. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/01/21, 152pp. , 48X: 19098-009, ODI: , TN: GB02 2.5

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8306290915 Deposition of JJ Kelly on 810505 in New York, N. Y. Pp 170-314.

KELLY, J. J. : Babcock & Wilcox Co.  
DATE ISS: 81/05/05, 145pp. , 48X: 19098-331, ODI: , TN: 6B02 2.5, 2.7

8306290920 Deposition of JJ Kelly on 810506 in New York, N. Y. Pp 315-452.

KELLY, J. J. : Babcock & Wilcox Co.  
DATE ISS: 81/05/06, 138pp. , 48X: 19099-113, ODI: , TN: 6B02 2.5

8306290925 Deposition of JJ Kelly on 810507 in New York, N. Y. Pp 453-555.

KELLY, J. J. : Babcock & Wilcox Co.  
DATE ISS: 81/05/07, 103pp. , 48X: 19099-250, ODI: , TN: 6B02 2.5, 2.8

8306290802 Deposition of G Kunder on 820702 in New York, NY. Pp 43B-610.

KUNDER, G. : General Public Utilities - GPU Service Corp.  
DATE ISS: 82/07/02, 163pp. , 48X: 19103-205, ODI: , TN: 6B02 NOT REVIEWED

8306290785 Deposition of DW LaBelle on 810604 in New York, NY.  
Pp 252-340.

LABELLE, D. W. : Babcock & Wilcox Co.  
DATE ISS: 81/06/04, 89pp. , 48X: 19104-268, ODI: , TN: 6B02 NOT REVIEWED

8306290836 Deposition of LC Lanese on 820324 in New York, NY. Pp 1-128.

LANESE, L. C. : General Public Utilities - GPU Service Corp.  
DATE ISS: 82/03/24, 128pp. , 48X: 19125-001, ODI: , TN: 6B02 NOT REVIEWED



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8306290787 Deposition of RL Long on 820520 in New York, NY. Pp 313-417.

LONG, R. L. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/05/20, 104pp. , 48X: 19695-131, ODI: , TN: 0802 2.5

8306290800 Deposition of JH MacMillan on 820610 in New York, NY.  
Pp 134-324.

MACMILLAN, J. R. : Babcock & Wilcox Co.

DATE ISS: 82/06/10, 190pp. , 48X: 19129-186, ODI: , TN: 0802 2.5

8306290825 Deposition of BA Mehler on 810728 in New York, NY. Pp 1-172.

MEHLER, B. A. : Metropolitan Edison Co.

DATE ISS: 81/07/28, 172pp. , 48X: 19131-031, ODI: , TN: 0802 2.5

8307110121 Deposition of BA Mehler on 810731 in New York, NY. Pp 565-679.

MEHLER, B. A. : Metropolitan Edison Co.

DATE ISS: 81/07/31, 115pp. , 48X: 19488-271, ODI: , TN: 0802 IRRELEVANT

8306290842 Deposition of C Michelson on 820318 in Washington, DC. Pp 1-151. Supporting documentation encl.

MICHELSON, C. : Director's Office

DATE ISS: 82/03/18, 152pp. , 48X: 19133-079, ODI: , TN: 0802 NOT REVIEWED

8306290848 Deposition of C Michelson on 820319 in Washington, DC. Pp 152-308.

MICHELSON, C. : Director's Office

DATE ISS: 82/03/19, 156pp. , 48X: 19133-232, ODI: , TN: 0802 NOT REVIEWED

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8306290851 Deposition of AW Miller on B11201 in Middletown, PA. Pp 1-131.

MILLER, A. W. : General Public Utilities - GPU Service Corp.

DATE ISS: 81/12/01, 131pp. , 48X: 19134-028, ODI: , TN: 6B02

NOT REVIEWED

8306290837 Deposition of GP Miller on B20602 in New York, NY. Pp 1-128.

MILLER, G. P. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/06/02, 129pp. , 48X: 19134-160, ODI: , TN: 6B02

NOT REVIEWED

8306290841 Deposition of GP Miller on B20603 in New York, NY. Pp 129-273.

MILLER, G. P. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/06/03, 145pp. , 48X: 19134-289, ODI: , TN: 6B02

NOT REVIEWED

8306290845 Deposition of GP Miller on B20604 in New York, NY. Pp 274-395.

MILLER, G. P. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/06/04, 122pp. , 48X: 19135-072, ODI: , TN: 6B02

NOT REVIEWED

8306290847 Deposition of GP Miller on B20607 in New York, NY. Pp 396-473.

MILLER, G. P. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/06/07, 78pp. , 48X: 19135-195, ODI: , TN: 6B02

2.5

8306290897 Deposition of GP Miller on B20608 in New York, NY. Pp 474-  
600.

MILLER, G. P. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/06/08, 127pp. , 48X: 19135-273, ODI: , TN: 6B02

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8306290922 Deposition of GP Miller on 820611 in New York, NY. Pp 874-1,066.

MILLER, G. P. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/06/11, 192pp. , 48X: 19136-312, ODI: , TN: GB02 NOT REVIEWED

8306290880 Deposition of TD Murray on 820128 in Toledo, OH. Pp 1-165.

MURRAY, T. D. : Toledo Edison Co.

DATE ISS: 82/01/28, 167pp. , 48X: 19137-143, ODI: , TN: GB02 NOT REVIEWED

8306290885 Deposition of RC Noll on 820714 in New York, NY. Pp 1-138.

NOLL, R. C. : Metropolitan Edison Co.

DATE ISS: 82/07/14, 138pp. , 48X: 19137-310, ODI: , TN: GB02 2.5, 2.9

8306290856 Deposition of JD Phinney on 820113 in New York, NY. Pp 1-134.

PHINNEY, J. D. : Babcock & Wilcox Co.

DATE ISS: 82/01/13, 134pp. , 48X: 19138-154, ODI: , TN: GB02 2.5

8306290853 Deposition of JD Phinney on 820114 in New York, NY. Pp 136-270.

PHINNEY, J. D. : Babcock & Wilcox Co.

DATE ISS: 82/01/14, 135pp. , 48X: 19138-288, ODI: , TN: GB02 2.5

8306290909 Deposition of WE Potts on 820107 in New York, NY. Pp 1-176.

POTTS, W. E. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/01/07, 176pp. , 48X: 19139-203, ODI: , TN: GB02 2.4, 2.5

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8306290927 Deposition of WE Potts on 820108 in New York, NY. Pp 177-251.

POTTS, W. E. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/01/08, 77pp. , 48X: 19140-018, ODI: , TN: GB02 2.5

8306290912 Deposition of MJ Ross on 811117 in Harrisburg, PA. Pp 1-201.

ROSS, M. J. : Metropolitan Edison Co.

DATE ISS: 81/11/17, 201pp. , 48X: 19141-322, ODI: , TN: GB02 2.5

8306290902 Deposition of F Scheimann on 820223 in New York, NY. Pp 1-156.

SCHEIMANN, F. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/02/23, 157pp. , 48X: 19143-235, ODI: , TN: GB02 2.5

8306290942 Deposition of FJ Scheimann on 820225 in New York, NY. Pp 157-267.

SCHEIMANN, F. J. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/02/25, 131pp. , 48X: 19144-030, ODI: , TN: GB02 2.5

8306290957 Deposition of FJ Scheimann on 820226 in New York, NY. Pp 288-399.

SCHEIMANN, F. J. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/02/26, 112pp. , 48X: 19144-161, ODI: , TN: GB02 2.5

8306290965 Deposition of FJ Scheimann on 820401 in New York, NY. Pp 400-519.

SCHEIMANN, F. J. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/04/01, 120pp. , 48X: 19144-273, ODI: , TN: GB02 2.3, 2.5

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8306290866 Deposition of FJ Scheimann on 820402 in New York, NY. Pp 520-556.  
SCHEIMANN, F. J. : General Public Utilities - GPU Service Corp.  
DATE ISS: 82/04/02, 37pp. , 48X: 19145-030, ODI: , TN: GB02 2.5

8306290870 Deposition of FJ Scheimann on 820427 in New York, NY. Pp 557-723.  
SCHEIMANN, F. J. : General Public Utilities - GPU Service Corp.  
DATE ISS: 82/04/27, 167pp. , 48X: 19145-067, ODI: , TN: GB02 2.5

8306290878 Deposition of FJ Scheimann on 820428 in New York, NY. Pp 724-881.  
SCHEIMANN, F. J. : General Public Utilities - GPU Service Corp.  
DATE ISS: 82/04/28, 158pp. , 48X: 19145-235, ODI: , TN: GB02 2.5

8306290884 Deposition of FJ Scheimann on 820608 in New York, NY. Pp 888-999.  
SCHEIMANN, F. J. : General Public Utilities - GPU Service Corp.  
DATE ISS: 82/06/08, 112pp. , 48X: 19146-032, ODI: , TN: GB02 2.5

8306290890 Deposition of FJ Scheimann on 820609 in New York, NY. Pp 1000-1068.  
SCHEIMANN, F. J. : General Public Utilities - GPU Service Corp.  
DATE ISS: 82/06/09, 69pp. , 48X: 19146-145, ODI: , TN: GB02 2.5

8306290948 Deposition of JL Seelinger on 811020 in Palm Beach, FL. Pp 102-248.  
SEELINGER, J. L. : United Technologies Corp.  
DATE ISS: 81/10/20, 147pp. , 48X: 19147-054, ODI: , TN: GB02 2.5

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NRC SPECIAL REPORT

8306290941 Deposition of JL Seelinger on 811021 in Palm Beach, FL. Pp  
249-413.

SEELINGER, J. L. : United Technologies Corp.

DATE ISS: 81/10/21, 165pp, ,48X: 19147-201, ODI: , TN: GB02 2.5

8306290937 Deposition of JL Seelinger on 811022 in Palm Beach, FL. Pp  
414-539.

SEELINGER, J. L. : United Technologies Corp.

DATE ISS: 81/10/22, 126pp, ,48X: 19148-003, ODI: , TN: GB02 2.5

8306290932 Deposition of JL Seelinger on 811023 in Palm Beach, FL. Pp  
540-609.

SEELINGER, J. L. : United Technologies Corp.

DATE ISS: 81/10/23, 74pp, ,48X: 19148-129, ODI: , TN: GB02 2.5

8306290830 Deposition of JR Shetler on 820423 in New York, NY. Pp 1-146.

SHETLER, J. R. : Babcock & Wilcox Co.

DATE ISS: 82/04/23, 146pp, ,48X: 19148-202, ODI: , TN: GB02 2.5

8306290839 Deposition of D Shovlin on 820716 in New York, NY. Pp 1-204.

SHOVLIN, D. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/07/16, 204pp, ,48X: 19148-347, ODI: , TN: GB02 2.5

8306290820 Deposition of RJ Toole on 810622 in New York, NY.  
Pp 1-279.

TOOLE, R. J. : General Public Utilities - GPU Service Corp.

DATE ISS: 81/06/22, 279pp, ,48X: 19152-065, ODI: , TN: GB02 2.5, 2.7



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8306290824 Deposition of RJ Toole on B10623 in New York, NY. Pp 280-506.

TOOLE, R. J. : General Public Utilities - GPU Service Corp.

DATE ISS: 81/06/23, 226pp. , 48X: 19152-345, ODI: , TN: GB02 2.5, 2.7

8306290829 Deposition of RJ Toole on B10706 in New York, NY. Pp 507-726.

TOOLE, R. J. : General Public Utilities - GPU Service Corp.

DATE ISS: 81/07/06, 219pp. , 48X: 19153-208, ODI: , TN: GB02 2.5, 2.7

8306290798 Deposition of RJ Toole on B10707 in New York, NY. Pp 727-909.

TOOLE, R. J. : General Public Utilities - GPU Service Corp.

DATE ISS: 81/07/07, 182pp. , 48X: 19150-133, ODI: , TN: GB02 2.5, 2.7

8306290840 Deposition of JF Walters on B10414 in New York, NY.  
Pp 164-289.

WALTERS, J. F. : Babcock & Wilcox Co.

DATE ISS: 81/04/14, 125pp. , 48X: 19156-059, ODI: , TN: GB02 NOT REVIEWED

8306290754 Deposition of RL Williams on B20812 in New York, NY.  
Pp 1-98.

WILLIAMS, R. L. : Ebasco Services, Inc. (subs. of Enserch Corp.)

DATE ISS: 82/08/12, 100pp. , 48X: 19160-001, ODI: , TN: GB02 NOT REVIEWED

8306290768 Deposition of EA Womack on B01209 in New York, NY.  
Pp 185-360.

WOMACK, E. A. : Babcock & Wilcox Co.

DATE ISS: 80/12/09, 188pp. , 48X: 19161-081, ODI: , TN: GB02 2.5

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8306290794 Deposition of RW Zechman on 820324 in New York, NY.  
Pp 377-523.

ZECHMAN, R. W. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/03/24, 146pp, .48X: 19164-137, ODI: , TN: GB02 2.1, 2.4, 2.5

8306290749 Deposition of RW Zechman on 820326 in New York, NY. Pp  
642-728.

ZECHMAN, R. W. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/03/26, 86pp, .48X: 19165-042, ODI: , TN: GB02 2.5

8306290761 Deposition of WH Zeve on 820520 in New York, NY. Pp 1-121.

ZEWE, W. H. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/05/20, 121pp, .48X: 19165-318, ODI: , TN: GB02 2.5

8306290766 Deposition of WH Zeve on 820521 in New York, NY. Pp 122-248.

ZEWE, W. H. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/05/21, 126pp, .48X: 19166-078, ODI: , TN: GB02 2.5

8306290770 Deposition of W Zeve on 820524 in New York, NY. Pp 249-350.

ZEWE, W. H. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/05/24, 101pp, .48X: 19166-207, ODI: , TN: GB02 2.5

8306290751 Deposition of WH Zeve on 820526 in New York, NY. Pp 480-645.

ZEWE, W. H. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/05/26, 165pp, .48X: 19167-079, ODI: , TN: GB02 2.4, 2.5

U. S. NUCLEAR REGULATORY COMMISSION  
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8306290756 Deposition of WH Zeve on 820527 in New York, NY. Pp 646-790.

ZEWE, W. H. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/05/27, 20pp. , 4BX: 19168-001, QDI: , TN: Q802 2.4, 2.5

000635 RECORDS SCANNED 10 RECORDS PRINTED ( 32 RECORDS, 77 SUPP. )  
ENDING CODE- 186 LAST KEY- ZEWE, W. H. 8205280807

CATEGORY 2

EXHIBITS

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307020037 "R Trip/Engineered Safeguards Incident, 780423."

\* :Hancock & Wilcox Co.  
:  
DATE ISS:81/06/12, 89pp. ,48x:19208-169,ODI:B&W 0079 ,TN:GB02 2.5

8307020155 "Condensate Polishing Sys Functional Test."

\* :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:77/11/17, 39pp. ,48x:19240-016,ODI:B&W 0152 ,TN:GB02 IRRELEVANT

8307020053 Discusses addl analysis of plant behavior during loss of load & reactor trip transients, performed in response to questions raised at 830203 meeting w/NRC. Proposed draft ltr to B&W encl.

FINK, R.T. :MPR Associates, Inc.  
FRITZEN, J. :Metropolitan Edison Co.  
DATE ISS:75/03/12, 14pp. ,48x:19209-169,ODI:B&W 0156 ,TN:GB02 2.5

8307020087 R0:ion 780329, automatic actuation of ECCS safety injection sys occurred due to rapid RCS depressurization. Depressurization caused by pressurizer electromagnetic relief valve RC-R2 open upon deenergization of vital bus.

\* :Metropolitan Edison Co.  
:  
DATE ISS:78/06/27, 4pp. ,48x:19209-285,ODI:B&W 0170 ,TN:GB02 NOT REVIEWED

8307020099 Rev 1 to Test Instruction TI-17, "Shift Test Engineers Log."

MILLER, G.P. :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:73/10/17, 5pp. ,48x:19210-120,ODI:B&W 0173 ,TN:GB02 NOT REVIEWED

8307010294 Rev 4 to Test Instruction 8, "Unusual Occurrences," & "Reporting of Significant Deficiencies to NRC."

TOOLE, K.J. :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:77/05/24, 24pp. ,48x:19215-245,ODI:B&W 0177 ,TN:GB02 NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307110041 Forwards Unit 2 plant operations review committee input  
for special rept required by Tech Spec 3.5.2 for ECCS  
actuation that occurred on 780329.

SEELINGER, J.L. : Metropolitan Edison Co.  
TROFFER, G.J. : Metropolitan Edison Co.

DATE ISS: 78/06/12, 5pp. , 48x: 19477-040, OOI: B&W 0184 , TN: G802 NOT REVIEWED

8307050500 Responds to NRC 780630 ltr re violations noted in IE Insp  
Rept 50-289/78-12. Corrective actions: operations dept clerk  
instructed to review TCN log book on each of two daily  
visits to control room.

GERBEIN, J.G. : General Public Utilities - GPU Service Corp.  
BRUNNER, E.J. : Region 1, Philadelphia, Reactor Operations Nuclear Support

DATE ISS: 78/07/25, 2pp. , 48x: 19324-061, OOI: B&W 0206 , TN: G802 NOT REVIEWED

8307050510 Advises that licensee did not receive Insp Rept 50-346/78-06  
re transient event prior to 790530 hearing. Documents encl  
illustrate actual notice of info on certain operating  
problems encountered at other plants.

ARNOLD, R.C. : General Public Utilities - GPU Service Corp.  
KEMENY, J.G. : President's Commission on the Accident at Three Mile Island

DATE ISS: 79/08/30, 5pp. , 48x: 19324-064, OOI: B&W 0208 , TN: G802 NOT REVIEWED

8307070193 Forwards final minutes of Meeting 30 of General Ufc Review  
Board re TMI.

REPERT, D.H. : General Public Utilities - GPU Service Corp.  
BAITMAN, J.S. : General Public Utilities - GPU Service Corp.

DATE ISS: 78/10/24, 11pp. , 48x: 19325-060, OOI: B&W 0209 , TN: G802 NOT REVIEWED

8307020075 "Final Rept of TMI-2 Accident Assessment Document # 10 -  
Training Programs & Procedure Review."

\* : Babcock & Wilcox Co.

DATE ISS: 79/05/16, 25pp. , 48x: 19244-180, OOI: B&W 0232 , TN: G802 NOT REVIEWED

8307020091 Rev 18 to "TMI Nuclear Station Administrative Procedure  
1001, Document Control."

\* : Babcock & Wilcox Co.

DATE ISS: 79/02/21, 229pp. , 48x: 19245-120, OOI: B&W 0237 , TN: G802 2.5



U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307020098 Transcript of 790510 interview w/p Menler.

MEHLER, d. : General Public Utilities - GPU Service Corp.

DATE ISS: 79/05/10, 45pp. , 48x: 19246-004, OOI: B&W 0239 , TN: G802

NOT REVIEWED

8307120620 Forward's final rept on 780423 reactor trip/ES of 780423 incident.

SEELINGER, J. L. : Metropolitan Edison Co.

MILLER, G. P. : Metropolitan Edison Co.

DATE ISS: 78/05/04, 89pp. , 48x: 19501-267, OOI: B&W 0246 , TN: G802

NOT REVIEWED

8307050488 Notices of 10CFR21 re reporting of defects & noncompliances. Notifications should be directed to immediate supervisor or to vice president of generation, for anonymity.

DARYO, J. R. : Babcock & Wilcox Co.

: Babcock & Wilcox Co.

DATE ISS: 81/07/30, 1p. , 48x: 19327-017, OOI: B&W 0241 , TN: G802

NOT REVIEWED

8307120628 Rev 3 to "Unit 2 Surveillance Procedure 2301-301, RCS Inventory."

WARREN, R. P. : Metropolitan Edison Co.

DATE ISS: 79/02/05, 33pp. , 48x: 19502-001, OOI: B&W 0252 , TN: G802

NOT REVIEWED

8307050290 Rev 8 to Administrative Procedure 1012, "Shift Relief & Log Entries."

\* : General Public Utilities - GPU Service Corp.

DATE ISS: 77/11/04, 12pp. , 48x: 19327-117, OOI: B&W 0253 , TN: G802

NOT REVIEWED

8307050291 Temporary Change Notice 2-79-070 for Procedure 2301-301, "RCS Inventory."

\* : General Public Utilities - GPU Service Corp.

DATE ISS: 79/03/11, 5pp. , 48x: 19327-129, OOI: B&W 0255 , TN: G802

NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307050294 Rev 6 to Operating Procedure 2102-1.2, "Approach to Criticality."

WARREN, R.P. : General Public Utilities - GPU Service Corp.

DATE ISS: 79/02/02, 17pp., 48x: 19327-134, ODI: B&W 0256, TN: GB02

NOT REVIEWED

8307050297 Transcript of E Frederick & C Faust 790329 statement of events leading up to incident. Hand-written copy encl.

FREDERICK, E. : General Public Utilities - GPU Service Corp.

DATE ISS: 79/03/29, 6pp., 48x: 19327-179, ODI: B&W 0257, TN: GB02

NOT REVIEWED

8307050304 TMI staff interview w/C Faust re sequence of events leading up to turbine trip.

FAUST, C. : General Public Utilities - GPU Service Corp.

DATE ISS: 79/03/30, 12pp., 48x: 19327-185, ODI: B&W 0258, TN: GB02

NOT REVIEWED

8307120638 Rev 6 to "Unit 2 Operating Procedure 2103-1.4, Reactor Coolant Pump Operation."

WARREN, R.P. : Metropolitan Edison Co.

DATE ISS: 78/08/16, 23pp., 48x: 19502-053, ODI: B&W 0261, TN: GB02

NOT REVIEWED

8307050526 Preliminary inquiry of TMI incident of 790326.

ZENE, W.H. : General Public Utilities - GPU Service Corp.

DATE ISS: 79/04/03, 50pp., 48x: 19327-262, ODI: B&W 0271, TN: GB02

NOT REVIEWED

8307050535 Rev 11 to Emergency Procedure 2202-1.3, "Loss of Reactor Coolant/Reactor Coolant Sys Pressure."

WARREN, R.P. : General Public Utilities - GPU Service Corp.

DATE ISS: 78/10/06, 20pp., 48x: 19327-360, ODI: B&W 0272, TN: GB02

NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307050537 Forwards LER 79-014/01A-0, updating LER 79-014/01L-0.

HOVEY, G.K. : General Public Utilities - GPU Service Corp.  
GRIER, D.M. : Region 1, Philadelphia, Office of the Director (81/03/01)  
DATE ISS: 81/05/11, 2pp., 48x:19328-023, OOI: B&W 0275, TN: G802

NOT REVIEWED

8307080048 Rev 5 to Abnormal Procedure 2203-2.3, "Steam Supply Sys Rupture," Unit 2.

SEELINGER, J. : Metropolitan Edison Co.  
DATE ISS: 78/10/06, 15pp., 48x:19331-004, OOI: B&W 0282, TN: G802

NOT REVIEWED

8307080155 Forwards assignments for verification of operating procedures, emergency procedural & followup operations check of sys.

FLOYD, J.W. : Metropolitan Edison Co.  
DATE ISS: 77/03/23, 9pp., 48x:19331-248, OOI: B&W 0295, TN: G802

NOT REVIEWED

8307070326 "Generation Maint Sys Manual Performance Form."

\* : Babcock & Wilcox Co.  
DATE ISS: 81/12/01, 2pp., 48x:19329-007, OOI: B&W 0317, TN: G802

NOT REVIEWED

8307070397 First draft "GPU Task Force Interim Summary Rept."

\* : General Public Utilities - GPU Service Corp.  
DATE ISS: 79/09/28, 50pp., 48x:19321-250, OOI: B&W 0347, TN: G802

NOT REVIEWED

8308230585 Transcript of FBI Investigative Task Force Taped Interview 4 (Keaten Tapes) on 790824, Pp 1-45.

\* : General Public Utilities - GPU Service Corp.  
DATE ISS: 79/08/24, 46pp., 48x:20125-198, OOI: B&W 0347D, TN: G802

2.5

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8308230606 Transcript of TMI Investigative Task Force Taped Interview 7  
(Keaten Tapes) on 790919.Pp 1-63.

\* :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:79/09/19, 64pp. ,48X:20126-007,ODI:8&W 0347G ,TN:GB02 2.5

8308230612 Transcript of TMI Investigative Task Force Taped Interview 9  
(Keaten Tapes) on 790919.Pp 1-30.

\* :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:79/09/19, 31pp. ,48X:20126-138,ODI:8&W 0347I ,TN:GB02 2.5

8308230617 Transcript of TMI Investigative Task Force Taped Interview  
10 (Keaten Tapes) on 790920.Pp 1-64.

\* :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:79/09/20, 65pp. ,48X:20126-169,ODI:8&W 0347J ,TN:GB02 2.5

8308230619 Transcript of TMI Investigative Task Force Taped Interview  
11 (Keaten Tapes) on 790920.Pp 1-66.

\* :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:79/09/20, 67pp. ,48X:20126-234,ODI:8&W 0347K ,TN:GB02 2.5

8308230623 Transcript of TMI Investigative Task Force Taped Interview  
12 (Keaten Tapes) on 790920.Pp 1-59.

\* :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:79/09/20, 60pp. ,48X:20126-301,ODI:8&W 0347L ,TN:GB02 2.5

8308230626 Transcript of TMI Investigative Task Force Taped Interview  
13 (Keaten Tapes) on 790924.Pp 1-26.

\* :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:79/09/24, 27pp. ,48X:20126-359,ODI:8&W 0347M ,TN:GB02 2.5

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307070438 Second draft "GPU Task Force Interim Summary Rept."

KEATEN, R.W. : General Public Utilities - GPU Service Corp.  
:   
DATE ISS: 79/10/06, 57pp. , 48x: 19322-01b, ODI: B&W 0349 , TN: G802 2.5

8307080673 Forwards "GPU Task Force Interim Summary Rept," third draft  
re TMI-2 accident on 790328.

KEATEN, R.W. : General Public Utilities - GPU Service Corp.  
: General Public Utilities - GPU Service Corp.  
DATE ISS: 79/10/17, 1p. , 48x: 19402-1b1, ODI: B&W 0350 , TN: G802 2.5

8307080681 Forwards "GPU Task Force Interim Summary Rept" re findings &  
conclusions to date & presenting preliminary recommendations  
re TMI-2 accident on 790328.

KEATEN, R.W. : General Public Utilities - GPU Service Corp.  
DIECKAMP, H.M. : General Public Utilities - GPU Service Corp.  
DATE ISS: 79/10/29, 1p. , 48x: 19402-339, ODI: B&W 0351 , TN: G802 2.5

8307080688 "GPU Accident Review Task Force Interim Summary Rept."

KEATEN, R.W. : General Public Utilities - GPU Service Corp.  
:   
DATE ISS: 79/11/26, 41pp. , 48x: 19403-019, ODI: B&W 0352 , TN: G802 2.5

8307080691 Lists items which must be accomplished to complete GPU/Met  
Ed review of TMI-2 accident & underlying causes.

KEATEN, R.W. : General Public Utilities - GPU Service Corp.  
: General Public Utilities - GPU Service Corp.  
DATE ISS: 79/12/03, 6pp. , 48x: 19403-061, ODI: B&W 0353 , TN: G802 2.5, 2.9

8307080693 "GPU Accident Review Task Force Final Summary Rept."

\* : General Public Utilities - GPU Service Corp.  
:   
DATE ISS: 80/03/24, 41pp. , 48x: 19403-068, ODI: B&W 0354 , TN: G802 2.5, 2.9

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307080695 "GPU Accident Review Task Force Final Summary Rept."

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:80/05/12, 500p. ,48x:19403-112,00I:B&W 0355 ,TN:G802 2.5

8307080698 "GPU Accident Review Task Force Final Summary Rept."

KEATEN,R.W. :General Public Utilities - GPU Service Corp.  
: DATE ISS:80/12/15, 490p. ,48x:19403-161,00I:B&W 0356 ,TN:G802 2.5

8307080699 Forwards marked-up task force rept indicating significant differences from interim rept.w/o encl.

KEATEN,R.W. :General Public Utilities - GPU Service Corp.  
DIECKAMP,H.M. :General Public Utilities - GPU Service Corp.  
DATE ISS:80/09/02, 1p. ,48x:19404-017,00I:B&W 0357 ,TN:G802 NOT REVIEWED

8307120734 Transcript of 790412 interview w/G Miller.Pp 1-58.

\* :Metropolitan Edison Co.  
: DATE ISS:79/04/12, 580p. ,48x:19502-230,00I:B&W 0360 ,TN:G802 2.5

8307080708 Transcript of task force interviews.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/09/19, 1100p. ,48x:19404-024,00I:B&W 0361 ,TN:G802 NOT REVIEWED

8307080709 Transcript of interview w/util crew not directly involved in 790328 accident.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:82/01/21, 2880p. ,48x:19404-134,00I:B&W 0362 ,TN:G802 NOT REVIEWED



U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307080717 Forwards results, conclusions & recommendations re Task 1, Subtask 4 & Task 2, Subtasks 5 & 7 concerning TMI-2 accident review.

KITTELSON, L.L. : Metropolitan Edison Co.  
TSAGGARIS, A. : Metropolitan Edison Co.  
DATE ISS: 79/09/28, 21pp. , 48x: 19405-064, OOI: B&W 0365 , TN: G802

NOT REVIEWED

8307080720 "Task 2 Rationale for Operation/Staff Response Subtask 8 - Define why MPI was Modulated."

WALSH, P.S. : General Public Utilities - GPU Service Corp.  
DATE ISS: 79/08/03, 3pp. , 48x: 19405-084, OOI: B&W 0366 , TN: G802

NOT REVIEWED

8307080722 Comments on "Technical Assessment of Operating, Abnormal & Emergency Procedures." Some results consistent w/GPU findings while some are inaccurate, misleading & technically incorrect. Procedures listed incorrect.

KEATEN, R.W. : General Public Utilities - GPU Service Corp.  
DIECKAMP, H.M. : General Public Utilities - GPU Service Corp.  
DATE ISS: 79/11/02, 3pp. , 48x: 19405-067, OOI: B&W 0367 , TN: G802

NOT REVIEWED

8307080055 Forwards draft TMI-111, "Analysis of TMI-2 Operator Response."

WALSH, P.S. : General Public Utilities - GPU Service Corp.  
ARNOLD, R.C. : General Public Utilities - GPU Service Corp.  
DATE ISS: 79/07/18, 1p. , 48x: 19333-139, OOI: B&W 0374 , TN: G802

NOT REVIEWED

8307080064 Procedure 054 "Analysis of TMI-2 Operator Response."

WALSH, P.S. : General Public Utilities - GPU Service Corp.  
DATE ISS: 79/10/19, 43pp. , 48x: 19334-005, OOI: B&W 0377 , TN: G802

NOT REVIEWED

8307080074 LER 79-014/011: on 790502, reactor high pressure scram occurred. Caused by lack of procedural direction to operators w/reactor scrambled & recirculation pumps tripped. Procedures reviewed & changed. w/790516 ltr.

HOSS, D.A. : Jersey Central Power & Light Co.  
GRIER, B.H. : Region 1, Office of Director  
DATE ISS: 79/05/16, 6pp. , 48x: 19334-078, OOI: B&W 0379 , TN: G802

NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307080096 Submits personnel changes at TMI. Changes & appointments made  
in accordance w/Rev 0 to GP 0019.

TROFFER, G.J. :Metropolitan Edison Co.  
:Metropolitan Edison Co.  
DATE ISS:79/01/08, 2pp. ,48x:19334-115,ODI:B&W 0382 ,TN:G802 NOT REVIEWED

8307080098 Rev 1 to "TMI Unit-2 Generation Review Committee."

TROFFER, G.J. :Metropolitan Edison Co.  
:  
DATE ISS:79/01/28, 12pp. ,48x:19334-117,ODI:B&W 0383 ,TN:G802 NOT REVIEWED

8307080125 Forwards rept re 790502 transient which resulted in  
unexpected low water level in reactor vessel.

FINFROCK, I.H. :Jersey Central Power & Light Co.  
:Office of Nuclear Reactor Regulation, Director  
DATE ISS:79/05/12, 2pp. ,48x:19334-132,ODI:B&W 0386 ,TN:G802 NOT REVIEWED

8307080241 Second draft of GPU Task Force "Interim Summary Rept."

KEATEN, R.W. :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:79/10/06, 6pp. ,48x:19335-190,ODI:B&W 0402 ,TN:G802 NOT REVIEWED

8307080244 Forwards third draft to, "Interim Summary Rept."

KEATEN, R.W. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:79/10/17, 1p. ,48x:19336-118,ODI:B&W 0403 ,TN:G802 NOT REVIEWED

8307080247 Third draft of "Interim Summary Rept."

\* :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:79/10/17, 73pp. ,48x:19336-119,ODI:B&W 0403 ,TN:G802 NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
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8307080642 Draft training program assessment.

\* :Babcock & Wilcox Co.  
:  
DATE ISS:79/05/08, 8pp. ,48x:19336-171,001:B&W 0405 ,TN:GB02 NOT REVIEWED

8307080645 Discusses TMI Unit 1 restart training & procedures.  
Procedures should include expected temps down stream of  
stuck open primary relief valve.

BROUGHTON,G. :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:79/06/22, 4pp. ,48x:19336-179,001:B&W 0406 ,TN:GB02 NOT REVIEWED

8307080649 Operational Top. "Influence of Operator Action."

\* :Babcock & Wilcox Co.  
:  
DATE ISS:82/02/09, 7pp. ,48x:19336-183,001:B&W 0407 ,TN:GB02 NOT REVIEWED

8307080619 Emergency Procedure R1202-b, "Loss of Reactor Coolant/RCS  
Pressure."

\* :Metropolitan Edison Co.  
:  
DATE ISS:73/10/20, 11pp. ,48x:19393-128,001:B&W 0417 ,TN:GB02 NOT REVIEWED

8307080635 Marked-up, incomplete reposition of R Keater, G Kunder,  
L Tsaddaris & E Wallace.

KEATER,R. :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:82/02/12, 50pp. ,48x:19394-179,001:B&W 0425 ,TN:GB02 NOT REVIEWED

8307080636 Rev 9 to Procedure 1670.2 "Site Emergency."

KUNDER,G.A. :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:78/11/22, 13pp. ,48x:19394-285,001:B&W 0426 ,TN:GB02 NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
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8307110636 "Investigation of TMI-2 Pressurizer PORV Discharge Pipe  
Temps."

BILLINGSLEY, W. :General Public Utilities - GPU Service Corp.

DATE ISS:80/02/28, 56pp. ,48x:19440-001,ODI:B&W 0428 ,TN:G602

NOT REVIEWED

8307110657 Reviews reactor coolant leakage test data results prior to  
790328. Graphs & table of test data encl.

STUBBS, J.M. :General Public Utilities - GPU Service Corp.

:General Public Utilities - GPU Service Corp.

DATE ISS:80/03/26, 14pp. ,48x:19440-240,ODI:B&W 0433 ,TN:G602

NOT REVIEWED

8307110660 Reviews Rev 4 of TMI-2 Surveillance Procedure 2301-301, "RCS  
Inventory" to confirm that procedure reflects most accurate  
indication of reactor coolant leak rate. Changes to assure  
accounting for all sources of water recommended.

STUBBS, J.M. :Metropolitan Edison Co.

WALLACE, E.G. :Metropolitan Edison Co.

DATE ISS:80/03/17, 8pp. ,48x:19440-282,ODI:B&W 0434 ,TN:G602

NOT REVIEWED

8307110701 Rev 3 to Surveillance Procedure 2301-301, "RCS Inventory."

\* :General Public Utilities - GPU Service Corp.

DATE ISS:79/02/05, 3pp. ,48x:19441-012,ODI:B&W 0442 ,TN:G602

NOT REVIEWED

8307110654 Confirms 761004 telcon re deviation in functional testing of  
electromatic relief valve RC-RV-2, S/M 8M04233. Engineering  
instruction PT-31 encl.

BESSON, J.R. :Dresser Industries, Inc.

STUHRKE, S. :Burns & Roe Co.

DATE ISS:76/10/05, 4pp. ,48x:19441-194,ODI:B&W 0453 ,TN:G602

NOT REVIEWED

8307090235 Submits brief overview of procedure history, including  
emergency procedures, oxygen pressure process & surveillance.

\* :Metropolitan Edison Co.

SEELINGER, J.L. :Metropolitan Edison Co.

DATE ISS:79/05/25, 3pp. ,48x:19413-084,ODI:B&W 0467 ,TN:G602

NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
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8307090240 Marked-up handwritten notes on NRC Insp 77-04 on 770201-03.

SEELINGER, J.L. :Metropolitan Edison Co.  
:Metropolitan Edison Co.  
DATE ISS:77/02/03, 7pp. ,48x:19413-059,00I:B&W 0468 ,TN:GB02 NOT REVIEWED

8307090244 Submits handwritten procedures for verification/review programs. Documented approach for programs to include identification in writing & completion schedules.

MILLER, G.P. :Metropolitan Edison Co.  
SEELINGER, F. :Metropolitan Edison Co.  
DATE ISS:77/03/14, 5pp. ,48x:19413-122,00I:B&W 0469 ,TN:GB02 NOT REVIEWED

8307090249 Proposed agenda for 771012-13 GURB briefing.

SEELINGER, J.L. :Metropolitan Edison Co.  
BROUGHTON, T.G. :Metropolitan Edison Co.  
DATE ISS:77/09/12, 2pp. ,48x:19413-071,00I:B&W 0470 ,TN:GB02 NOT REVIEWED

8307090278 Attendees at 740905, 06, 1129 & 1203 training programs re selected emergency procedures, operational QA, Tech Spec review & major operational evaluations.

SEELINGER, J. :Metropolitan Edison Co.  
:  
DATE ISS:74/09/06, 5pp. ,48x:19413-093,00I:B&W 0516 ,TN:GB02 NOT REVIEWED

8307090313 Administrative training records for F Scheimann.

SCHEIMANN, F.J. :Metropolitan Edison Co.  
:  
DATE ISS:82/02/25, 10pp. ,48x:19413-113,00I:B&W 0524 ,TN:GB02 NOT REVIEWED

8307060612 Rev 0 to nuclear power plant operations manual, Vol 2.

ALBERT, J.R. :Idacox & Wilcox Co.  
:  
DATE ISS:75/01/16, 649pp. ,48x:19285-077,00I:B&W 0535 ,TN:GB02 NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
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8307080576 Continued deposition of FJ Scheimann in Harrisburg, PA, Po  
129-241.

SCHEIMANN, F.J. : Metropolitan Edison Co.

DATE ISS: 79/07/25, 283pp., 48x:19416-081, ODI: B&W 0537, TN: G802

NOT REVIEWED

8307080589 Rev 11 to Operating Procedure 2104-1.3, "DHR Sys."

\* : Babcock & Wilcox Co.

DATE ISS: 78/08/23, 41pp., 48x:19417-246, ODI: B&W 0539, TN: G802

NOT REVIEWED

8307080598 Rev 13 to Operating Procedure 2102-3.2, "Unit Cooledown."

WARREN, R.P. : Babcock & Wilcox Co.

DATE ISS: 79/03/10, 24pp., 48x:19417-343, ODI: B&W 0540, TN: G802

NOT REVIEWED

8307060623 Rev 6 to Operating Procedure 2102-3.3, "DHR Via Once-  
Through Steam Generator."

\* : Babcock & Wilcox Co.

DATE ISS: 78/04/17, 15pp., 48x:19289-252, ODI: B&W 0573, TN: G802

NOT REVIEWED

8307090391 Forwards updated status of TMI-2 "Outstanding NRC Licensing  
Issues."

LANESE, L.C. : General Public Utilities - GPU Service Corp.

BARTON, J.J. : General Public Utilities - GPU Service Corp.

DATE ISS: 75/11/19, 11pp., 48x:19395-308, ODI: B&W 0604, TN: G802

NOT REVIEWED

8307090395 Forwards Rev 3 to TMI-2 Abnormal Procedure 2203-2.3, "Steam  
Supply Sys Rupture," per request.

BEZILLA, M.B. : General Public Utilities - GPU Service Corp.

LANESE, L. : General Public Utilities - GPU Service Corp.

DATE ISS: 78/04/07, 1p., 48x:19395-347, ODI: B&W 0605, TN: G802

NOT REVIEWED



U. S. NUCLEAR REGULATORY COMMISSION  
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8307090402 Rev 5 to TMI-2 Emergency Procedure 2202-1.3, "Loss of  
Reactor Coolant/RCS Pressure."

\* :General Public Utilities - GPU Service Corp.  
:

DATE ISS:78/03/01, 25pp. ,48X:19396-001,ODI:B&W 0606 ,TN:GB02

NOT REVIEWED

8307090388 Transcript of 790423 IE TMI investigation interview w/FJ  
Scheimann, Pp 1-54.

\* :Metropolitan Edison Co.  
:

DATE ISS:79/04/23, 55pp. ,48X:19443-076,ODI:B&W 0610 ,TN:GB02

NOT REVIEWED

8307110740 "Nuclear Power Plant Operations Manual, Vol 2."

\* :Babcock & Wilcox Co.  
:

DATE ISS:82/04/27, 9pp. ,48X:19478-044,ODI:B&W 0614 ,TN:GB02

NOT REVIEWED

8307110066 Forwards IE Insp Rept 50-289/74-23 on 740521-23 & notice  
of violation.

BRUNNER, E.J. : Region 1, Philadelphia, Office of the Director

ARNOLD, R.C. : Metropolitan Edison Co.

DATE ISS:74/06/12, 2pp. ,48X:19444-122,ODI:B&W 0640 ,TN:GB02

NOT REVIEWED

8307090193 Draft interview w/E Frederick at TMI site on 790423.

FREDERICK, E. : Metropolitan Edison Co.  
:

DATE ISS:79/04/23, 67pp. , 19398-241,ODI:B&W 0660 ,TN:GB02

NOT REVIEWED

8307090203 Interview w/E Frederick, control room operator at TMI-2 on  
790330.

FREDERICK, E. : Metropolitan Edison Co.  
:

DATE ISS:79/03/30, 12pp. ,48X:19399-002,ODI:B&W 0661 ,TN:GB02

NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
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8307090327 Forwards for review & comment "Annotated Sequence of Events." Comments by each individual should be written on four copies of annotated sequence of events & be returned by 790502.  
LUNG,R.L. :General Public Utilities - GPU Service Corp.  
MILLER,G. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/04/26, 1p. ,48x:19400-130,00I:B&W 0687 ,TN:GB02 NOT REVIEWED

8307110724 Requests formation of fire member task force to complete investigation of encl seven specific issues re 790328 incident.  
ARNOLD,R.C. :General Public Utilities - GPU Service Corp.  
KEATEN,R.W. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/06/27, 5pp. ,48x:19445-169,00I:B&W 0694 ,TN:GB02 NOT REVIEWED

8307110728 Summary of 790627 meeting of TMI-2 Accident Review Task Force.  
KEATEN,R. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:79/06/27, 1p. ,48x:19445-342,00I:B&W 0695 ,TN:GB02 NOT REVIEWED

8307110732 Submits questions re TMI-2 incident on 790328.  
\* :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:79/06/13, 3pp. ,48x:19445-177,00I:B&W 0697 ,TN:GB02 NOT REVIEWED

8307110735 Submits tasks & subtasks for task teams.  
\* :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:79/07/09, 1pp. ,48x:19445-180,00I:B&W 0698 ,TN:GB02 NOT REVIEWED

8307110739 Forwards first rough draft, "GPU Task Force Interim Summary Rept."  
KEATON,R.W. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:79/09/28, 1p. ,48x:19446-002,00I:B&W 0699 ,TN:GB02 NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
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8307110744 Requests copy of encl package re task force draft rept.

LONG, R.L. :Babcock & Wilcox Co.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:79/10/07, 6pp. ,48x:19446-060,ODI:B&W 0700 ,TN:GB02 NOT REVIEWED

8307110752 "GPU Task Force Investigative Rept."

BROUGHTON, T.G. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:79/11/27, 46pp. ,48x:19446-134,ODI:B&W 0702 ,TN:GB02 NOT REVIEWED

8307110757 "GPU Accident Review Task Force Final Summary Rept."

KEATEN, R.W. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:80/03/24, 43pp. ,48x:19446-346,ODI:B&W 0703 ,TN:GB02 NOT REVIEWED

8307110763 Forwards TOR TMI-111, "Analysis of TMI-2 Operator Response,"  
for review. Comments requested by 790625.

BROUGHTON, T.G. :General Public Utilities - GPU Service Corp.  
LONG, R. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/06/21, 32pp. ,48x:19447-062,ODI:B&W 0705 ,TN:GB02 NOT REVIEWED

8307110769 "Analysis of TMI-2 Operator Response."

WALSH, P.S. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:82/05/20, 3pp. ,48x:19447-066,ODI:B&W 0706 ,TN:GB02 NOT REVIEWED

8307090353 Forwards response to 791025 notice of violation & notice of  
proposed issuance of civil penalties based on IE  
investigation of 790328 accident.

ARNOLD, R.C. :Metropolitan Edison Co.  
STELLO, V. :Office of Inspection & Enforcement, Office of the Director  
DATE ISS:79/12/05, 97pp. ,48x:19492-019,ODI:B&W 0707 ,TN:GB02 2.1, 2.5

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307110774 Reviews Procedures 2202-1.1 through 2202-2.5.

\* :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:79/07/18, 17pp. ,48x:19447-196,00I:B&W 0709 ,TN:G802 NOT REVIEWED

8307110780 "Development of Technical Support for TMI-2 Accident."

\* :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:79/10/31, 2pp. ,48x:19447-296,00I:B&W 0711 ,TN:G802 NOT REVIEWED

8307110783 Draft A&S paper re TMI-2 onsite technical support group activities to identify & solve problems by priority.

\* :Babcock & Wilcox Co.  
: :  
DATE ISS:79/10/23, 12pp. ,48x:19447-296,00I:B&W 0712 ,TN:G802 NOT REVIEWED

8307110785 Draft "Analysis of Technical Support Following TMI-2 Accident."

\* :Babcock & Wilcox Co.  
: :  
DATE ISS:79/10/29, 24pp. ,48x:19447-338,00I:B&W 0713 ,TN:G802 NOT REVIEWED

8307110787 Draft of "Analysis of Technical Support Following TMI-2 Accident."

\* :Babcock & Wilcox Co.  
: :  
DATE ISS:79/10/29, 12pp. ,48x:19447-362,00I:B&W 0714 ,TN:G802 NOT REVIEWED

8307110788 Draft of Technical Support Resources & Organization."

\* :Babcock & Wilcox Co.  
: :  
DATE ISS:82/05/20, 9pp. ,48x:19447-012,00I:B&W 0715 ,TN:G802 NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307110791 Draft "Organization for Technical Support."

\* :Dabcock & Wilcox Co.  
: DATE ISS:82/05/20, 7pp. ,48x:19447-021,ODI:B&W 0716 ,TN:GB02 NOT REVIEWED

8307090028 Minutes of 790414 meeting w/RCA re TMI-2 incident.

\* :General Public utilities - GPU Service Corp.  
:General Public utilities - GPU Service Corp.  
DATE ISS:79/04/14, 3pp. ,48x:19450-230,ODI:B&W 0720 ,TN:GB02 NOT REVIEWED

8307090033 Minutes of 790414 meeting w/HMD,RCA,E Blake & RLL,HMD  
comments on surveillance,modeling & transport of fluids  
outlined.

\* :General Public utilities - GPU Service Corp.  
:General Public utilities - GPU Service Corp.  
DATE ISS:79/04/14, 1p. ,48x:19450-233,ODI:B&W 0721 ,TN:GB02 NOT REVIEWED

8307090037 "TMI-2 Incident Evaluations Manpower."

\* :General Public utilities - GPU Service Corp.  
: DATE ISS:79/04/17, 2pp. ,48x:19450-234,ODI:B&W 0722 ,TN:GB02 NOT REVIEWED

8307090046 Info for 790417 meeting participants.

\* :General Public utilities - GPU Service Corp.  
:General Public utilities - GPU Service Corp.  
DATE ISS:79/04/17, 1p. ,48x:19450-244,ODI:B&W 0724 ,TN:GB02 NOT REVIEWED

8307090050 Text illegible.

\* :General Public utilities - GPU Service Corp.  
:General Public utilities - GPU Service Corp.  
DATE ISS:79/04/25, 1p. ,48x:19450-245,ODI:B&W 0725 ,TN:GB02 NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
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8307090014 "NRC Sequence of Events:Miscellaneous Notes."

\* :Office of Inspection & Enforcement, Office of the Director  
: DATE ISS:79/06/22, 2pp. ,48x:19453-022,ODI:B&W 0729 ,TN:G802 NOT REVIEWED

8307120252 Discusses items & assignment of responsibilities needed to  
address NRC IE investigation draft report findings.Initial  
response requested by 790822 & final response by 790912.

WALLACE,E.G. :General Public Utilities - GPU Service Corp.  
BEHRLE,W.H. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/08/06, 3pp. ,48x:19454-130,ODI:B&W 0730 ,TN:G802 NOT REVIEWED

8307120277 Rev 14 to Operating Procedure 2102-1.3, "Unit Startup."

\* :Metropolitan Edison Co.  
: DATE ISS:79/03/20, 61pp. ,48x:19455-009,ODI:B&W 0737 ,TN:G802 NOT REVIEWED

8307120283 Rev 8 to Operating Procedure 2102-3.1, "Unit Shutdown."

\* :Metropolitan Edison Co.  
: DATE ISS:79/03/07, 45pp. ,48x:19455-126,ODI:B&W 0738 ,TN:G802 NOT REVIEWED

8307090357 Rev 3 to Procedure 2103-1.3, "Pressurizer Operation."

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:78/07/19, 36pp. ,48x:19492-116,ODI:B&W 0739 ,TN:G802 NOT REVIEWED

8307090368 Rev 6 to Procedure 2202-1.1, "Reactor Trip."

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:78/10/25, 4pp. ,48x:19492-188,ODI:B&W 0746 ,TN:G802 NOT REVIEWED



U. S. NUCLEAR REGULATORY COMMISSION  
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8307120297 Rev 7 to Abnormal Procedure 2203-2.2, "Turbine Trip."

\* :Metropolitan Edison Co.  
: DATE ISS:78/10/25, 4pp. ,48X:19455-360,ODI:B&W 0747 ,TN:GB02 NOT REVIEWED

8307120332 Transcript of 790330 interview w/w Zewe.

ZEW, w. :Metropolitan Edison Co.  
: DATE ISS:79/03/30, 9pp. ,48X:19456-172,ODI:B&W 0753 ,TN:GB02 NOT REVIEWED

8307120336 Transcript of w Zewe interview on 790423-24 in Middletown, PA.

ZEW, w. :Metropolitan Edison Co.  
: DATE ISS:79/04/24, 80pp. ,48X:19456-181,ODI:B&W 0754 ,TN:GB02 NOT REVIEWED

8307120341 Transcript of interview w/w Zewe.

ZEW, w. :Metropolitan Edison Co.  
: DATE ISS:82/05/28, 10pp. ,48X:19456-177,ODI:B&W 0761 ,TN:GB02 NOT REVIEWED

8307120346 Discusses inadequacies of Unit 2 procedure writing effort. Schedule should be adhered to at better rate than present.

MILLER, G.P. :Metropolitan Edison Co.  
:Metropolitan Edison Co.  
DATE ISS:75/11/20, 2pp. ,48X:19456-362,ODI:B&W 0763 ,TN:GB02 2.5

8307120353 Discusses need to increase effort on procedure writing & review. List of delinquent procedures areas encl.

MILLER, G.P. :Metropolitan Edison Co.  
HERBEIN, J.G. :Metropolitan Edison Co.  
DATE ISS:76/01/30, 3pp. ,48X:19457-002,ODI:B&W 0764 ,TN:GB02 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
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8307120355 Requests add funds for B&W or NUS assistance in procedure preparation from 770314-0601.

MILLER, G.P. :Metropolitan Edison Co.  
HERBEIN, J.G. :Metropolitan Edison Co.  
DATE ISS:77/02/25, 3pp. ,48x:19457-005,001:B&W 0765 ,TN:G802

NOT REVIEWED

8307120368 Discusses operator action re automatic actuation of reactor bldg cooling & isolation & subsequent defeat of actuation signal. Control logic change suggested by Field Questionnaire 1095 should be incorporated into procedures.

MILLER, G.F. :Metropolitan Edison Co.  
HERBEIN, J.G. :Metropolitan Edison Co.  
DATE ISS:77/04/14, 2pp. ,48x:19457-012,001:B&W 0769 ,TN:G802

NOT REVIEWED

8307090137 Rev 6 to "Emergency Procedure 2202-1.1 Reactor Trip."

\* :General Public Utilities - GPU Service Corp.  
:DATE ISS:78/10/25, 4pp. ,48x:19453-177,001:B&W 0791 ,TN:G802

NOT REVIEWED

8307090155 Info re inquiry on Unit 2 procedures.

\* :Metropolitan Edison Co.  
:Metropolitan Edison Co.  
DATE ISS:75/03/09, 5pp. ,48x:19454-018,001:B&W 0602 ,TN:G802

NOT REVIEWED

8307080692 Deposition of GA Kunder on 790802 in Harrisburg, PA, Pp 2-171.

KUNDER, G.A. :Metropolitan Edison Co.  
:DATE ISS:79/08/02, 314pp. ,48x:19408-183,001:B&W 0861 ,TN:G802

NOT REVIEWED

8307120075 Forwards draft Rev U to EP 2202-1.3, "Loss of Reactor Coolant/RCS Pressure," for review & comment.

ROGERS, L.C. :Babcock & Wilcox Co.  
HILBISH, J.F. :Metropolitan Edison Co.  
DATE ISS:76/02/20, 18pp. ,48x:19458-075,001:B&W 0879 ,TN:G802

NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307120079 Rev 2 to Emergency Procedure 1202-29, "Pressurizer Sys Failure."

\* :General Public Utilities - GPU Service Corp.

DATE ISS:75/06/02, 6pp. ,48x:19458-121,ODI:B&W 0880 ,TN:G802

NOT REVIEWED

8307130392 Recommends pressurizer electromagnetic relief valve RC-RV2 be periodically inspected for corrosion products & for freedom of movement of lever pin & lever hinges noting clearance w/solenoid bracket.

ROGERS,L.C. :Babcock & Wilcox Co.

HERBEIN,J.G. :General Public Utilities - GPU Service Corp.

DATE ISS:75/07/30, 1p. ,48x:19501-153,ODI:B&W 0881 ,TN:G802

IRRELEVANT

8307130395 Rev 2 to "TMI Nuclear Station Administrative Procedure 1006, Met Ed Operator Requalification Program."

\* :Metropolitan Edison Co.

DATE ISS:77/04/11, 17pp. ,48x:19501-154,ODI:B&W 0882 ,TN:G802

NOT REVIEWED

8307120113 "Selection, Training, Qualification & Licensing of TMI Reactor Operating Personnel."

EYCHISON,R. :President's Commission on the Accident at Three Mile Island

DATE ISS:79/10/31, 100pp. ,48x:19458-094,ODI:B&W 0890 ,TN:G802

NOT REVIEWED

8307120119 Superintendent event reat re blown fuse on 2-IV inverter on 780329.

FLOYD,J.R. :Metropolitan Edison Co.

DATE ISS:78/03/29, 7pp. ,48x:19458-362,ODI:B&W 0891 ,TN:G802

NOT REVIEWED

8307120126 Synopsis of event on 780329 re automatic actuation of safety injection due to rapid depressurization of RCS.

\* :Babcock & Wilcox Co.

DATE ISS:78/03/29, 18pp. ,48x:19459-007,ODI:B&W 0892 ,TN:G802

NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
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8307120130 Responds to request for addl info re Item 41.17. Response changed to read "NRC Current Event - Power Reactors," as of Amend 28.

\* :Metropolitan Edison Co.

DATE ISS:75/10/31, 2pp. ,48x:19459-026,ODI:B&W 0893 ,TN:GB02

NOT REVIEWED

8307120171 C/M design checklist.

\* :Babcock & Wilcox Co.

DATE ISS:77/04/27, 7pp. ,48x:19459-179,ODI:B&W 0901 ,TN:GB02

NOT REVIEWED

8307120187 Summary of TMI-2 Accident Review Task Force 790824 meeting.

\* :Metropolitan Edison Co.

:Metropolitan Edison Co.

DATE ISS:79/08/24, 5pp. ,48x:19460-036,ODI:B&W 0905 ,TN:GB02

NOT REVIEWED

8307090342 Forwards third draft investigative task force summary report re TMI accident. Report reflects revs discussed during 791011-12 meetings. Comments requested by 791022.

KEATEH, R.W. :General Public Utilities - GPU Service Corp.

:General Public Utilities - GPU Service Corp.

DATE ISS:79/10/17, 7pp. ,48x:19400-185,ODI:B&W 0907 ,TN:GB02

NOT REVIEWED

8307090365 Rev 0 to Emergency Procedure EP 2202-1.5, "Pressurizer Sys Failure."

\* :Babcock & Wilcox Co.

DATE ISS:75/11/25, 12pp. ,48x:19401-192,ODI:B&W 0914 ,TN:GB02

NOT REVIEWED

8307090369 "Index of Emergency & Abnormal Procedures."

\* :Babcock & Wilcox Co.

DATE ISS:82/08/17, 2pp. ,48x:19402-020,ODI:B&W 0916 ,TN:GB02

NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
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8307090389 Transcript of Mr Hartman 600429 voluntary statement in  
Elizabeth, PA, Pp 141-272.

HARTMAN, H.W. : General Public Utilities - GPU Service Corp.

DATE ISS: 80/04/29, 130pp., 48x:19486-334, ODI: B&W 1024 , TN: G802

NOT REVIEWED

8307110794 Deposition of Mr Zewe on 790726 in Harrisburg, PA, Pp 1-187.

ZEW, W.H. : Metropolitan Edison Co.

DATE ISS: 79/07/26, 187pp., 48x:19479-193, ODI: B&W 4006 , TN: G802

NOT REVIEWED

8307090279 Transcript of ACRS Subcommittee on TMI-2 790606 meeting in  
Middletown, PA, Pp 1-192.

\* : ACRS - Advisory Committee on Reactor Safeguards

DATE ISS: 79/06/05, 227pp., 48x:19487-104, ODI: B&W 4012 , TN: G802

NOT REVIEWED

8307120646 Submits questions re automatic valve remaining open.

ZEW, W.H. : Metropolitan Edison Co.

DATE ISS: 83/07/11, 3pp., 48x:19462-295, ODI: B&W 4013 , TN: G802

NOT REVIEWED

8307120666 Response to apparent noncompliance w/Rev 9 to Operating  
Procedure 2104-6.2, "Emergency Diesels & Auxiliaries," on  
790328 when diesel generators 1A & B fuel racks manually  
tripped. Corrective actions discussed.

\* : General Public Utilities - GPU Service Corp.

DATE ISS: 79/03/28, 3pp., 48x:19462-299, ODI: B&W 4015 , TN: G802

NOT REVIEWED

8307120698 Rev 6 to TMI-2 Operating Procedure 2102-3.3, "DHR via  
Once-Through Steam Generator."

\* : Babcock & Wilcox Co.

DATE ISS: 78/04/17, 15pp., 48x:19463-024, ODI: B&W 4021 , TN: G802

NOT REVIEWED

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8307120750 Testimony of C Michelson on 79090r in Bethesda, MD. Po 1-63.

MICHELSOw, C. :Tennessee Valley Authority  
:  
DATE ISS:79/09/06, 63pp. ,48x:19463-061,00I:B&W 4029 ,TN:G802 NOT REVIEWED

8307120623 work request procedure, "Repair & Test of Reactor Coolant  
RC-RV-2," to assure leak tightness.

\* :Metropolitan Edison Co.  
:  
DATE ISS:77/10/25, 5pp. ,48x:19495-249,00I:B&W 4034 ,TN:G802 2.5

8307120700 Deposition of JB Logan on 790805 in Harrisburg, PA. Po 113-  
11b.

LOGAN, J. B. :Metropolitan Edison Co.  
:  
DATE ISS:79/08/05, 5pp. ,48x:19495-278,00I:B&W 4041 ,TN:G802 NOT REVIEWED

8307090323 Continued deposition of RC Arnold on 820630 in New York, NY.  
Po 146 & 224-228.

ARNOLD, R. C. :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:82/06/30, 7pp. ,48x:19487-342,00I:B&W 4044 ,TN:G802 NOT REVIEWED

8307120762 Handwritten Test Log, Book 2.

\* :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:77/09/08, 8pp. ,48x:19495-304,00I:B&W 4052 ,TN:G802 NOT REVIEWED

8307130046 Transcript of 790525 util group discussion.

\* :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:79/05/25, 3pp. ,48x:19496-346,00I:B&W 5000AA ,TN:G802 NOT REVIEWED



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8307130054 Transcript of 790525 util group discussion.

\* :General Public utilities - GPU Service Corp.  
: DATE ISS:79/05/25, 300. ,48x:19496-349,ODI:B&W 500088 ,TN:GB02 NOT REVIEWED

8307010268 "Interim Rept of TMI-2 Occurrence, Technical Review Committee."

\* :Babcock & Wilcox Co.  
: DATE ISS:79/05/25, 1100p. ,48x:19179-127,ODI:GPU 0004 ,TN:GB02 NOT REVIEWED

8307010270 "Interim Rept of TMI-2 Occurrence, Technical Review Committee."

\* :Babcock & Wilcox Co.  
: DATE ISS:79/06/08, 6100p. ,48x:19179-244,ODI:GPU 0005 ,TN:GB02 NOT REVIEWED

8307010274 "Final Rept of TMI-2 Occurrence, Technical Review Committee."

\* :Babcock & Wilcox Co.  
: DATE ISS:79/07/31, 23400p. ,48x:19179-316,ODI:GPU 0006 ,TN:GB02 NOT REVIEWED

8307020007 "Final Rept of TMI-2 Occurrence, Technical Review Committee."

\* :Babcock & Wilcox Co.  
: DATE ISS:83/06/30, 5400p. ,48x:19228-221,ODI:GPU 0007 ,TN:GB02 NOT REVIEWED

8307070519 Forwards rev to 790404 operating instructions for operator action to override ESF actuation sys & terminate HPI. Rev allows operator alternative to 20 minute operability period to preclude pressurizer from going solid.

BRAZIL, G. J. :Babcock & Wilcox Co.  
HAM, R. E. :Babcock & Wilcox Co.  
DATE ISS:79/04/17, 200. ,48x:19337-162,ODI:GPU 0067 ,TN:GB02 NOT REVIEWED

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8307070522 Discusses preparation of operating guidelines for small break  
in RCPB.

ROY, D.H. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:79/04/28, 30p., 48x:19337-164, ODI:GPU 0068 ,TN:GB02

NOT REVIEWED

8307070538 "Operating Procedure Guidelines for Small breaks."

TAYLOR, J.H. :Babcock & Wilcox Co.  
:  
DATE ISS:79/05/05, 28pp., 48x:19337-169, ODI:GPU 0069 ,TN:GB02

NOT REVIEWED

8307070548 Summits preliminary report of Safety Concern PSC 18-79 re  
plant operators panel instrumentation readout limited to  
2500 psi, below Tech Spec limit. Analysis concludes condition  
not reportable per 10CFR50.55e or 10CFR21.

TAYLOR, J.H. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:79/07/05, 30p., 48x:19337-219, ODI:GPU 0071 ,TN:GB02

NOT REVIEWED

8307070552 Summits preliminary report of Safety Concern PSC 25-79 re  
sequence of events identified during simulator training  
which could lead to saturated conditions in reactor core.  
Concern not reportable per 10CFR50.55e or 10CFR21.

ELLIOTT, N.S. :Babcock & Wilcox Co.  
TAYLOR, J.H. :Babcock & Wilcox Co.  
DATE ISS:79/09/06, 50p., 48x:19337-222, ODI:GPU 0072 ,TN:GB02

NOT REVIEWED

8307120331 Recommends guidelines for customers re HPIS operation in  
light of recent events at Toledo site.

KELLY, J.J. :Babcock & Wilcox Co.  
KARRASCH, B.A. :Babcock & Wilcox Co.  
DATE ISS:77/11/01, 40p., 48x:19512-330, ODI:GPU 0076 ,TN:GB02

NOT REVIEWED

8307070572 Discusses concerns within ECCS analysis re potential for  
operator action to terminate HPI following initial stage of  
LOCA. Full injection flow must be maintained from start  
of emergency ESFF activation sys.

DUNN, B.M. :Babcock & Wilcox Co.  
TAYLOR, J. :Babcock & Wilcox Co.  
DATE ISS:78/02/07, 30p., 48x:19337-250, ODI:GPU 0078 ,TN:GB02

NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
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- 8307120340 Recommends procedure for termination HPI following LOCA. Scheme acceptable from standpoint of preventing adverse long adverse long-range problems & easier to implement.
- DUNN, D.M. :Babcock & Wilcox Co.  
TAYLOR, J. :Babcock & Wilcox Co.  
DATE ISS:78/02/16, 2pp. ,48x:19512-337,ODI:GPU 0079 ,TN:GB02 NOT REVIEWED
- 8307120348 Minutes of 781127 meeting w/Toldeo Edison Co in Lynchburg, VA re design & requirements for Davis-Besse Unit 1 auxiliary feedwater sys operation. List of attendees & meeting agenda encl.
- CARTIN, L.R. :Babcock & Wilcox Co.  
KAMRASCH, B.A. :Babcock & Wilcox Co.  
DATE ISS:78/11/29, 15pp. ,48x:19512-341,ODI:GPU 0082A ,TN:GB02 NOT REVIEWED
- 8307120354 Provides supplementary operating instructions for HPI sys due to 790328 incident at TMI-2.
- FAIRBURN, G.T. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:79/04/04, 2pp. ,48x:19512-356,ODI:GPU 0085 ,TN:GB02 NOT REVIEWED
- 8307120372 Forwards info which includes curve to assist operator in meeting RCS subcooling limits if HPI initiated by low RCS pressure.
- HALLMAN, D.F. :Babcock & Wilcox Co.  
ELLISON, K.R. :Babcock & Wilcox Co.  
DATE ISS:79/05/10, 2pp. ,48x:19512-361,ODI:GPU 0087 ,TN:GB02 NOT REVIEWED
- 8307120783 Part 21 rept re small break LOCA at reactor coolant pump discharge. Initially reported on 780412. Potential solutions being evaluated. Normal plant operations should continue until investigation & solution complete.
- TAYLOR, J.H. :Babcock & Wilcox Co.  
VOLGENAU, E. :Office of Inspection & Enforcement, Office of the Director  
DATE ISS:78/04/14, 9pp. ,48x:19464-128,ODI:GPU 0091 ,TN:GB02 NOT REVIEWED
- 8307120809 Rev 6 to NPG-1701-01 "Processing of Safety Co"
- \* :Babcock & Wilcox Co.  
: :  
DATE ISS:78/06/20, 7pp. ,48x:19464-156,ODI:GPU 0093 ,TN:GB02 NOT REVIEWED

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8307120813 Rev 5 to NPG-1707-01 "Processing of Safety Concerns."

\* :Babcock & Wilcox Co.  
DATE ISS:77/11/21, 600. ,48x:19464-163,ODI:GPU 0094 ,TN:GB02 NOT REVIEWED

8307020212 Submits operating instructions for stuck open PORV. PORV not used in safety analysis calculations. Increasing PORV setpoint will result in decrease in plant flexibility.

KANE, E.R. :Babcock & Wilcox Co.  
WOMACK, E.A. :Babcock & Wilcox Co.  
DATE ISS:79/04/09, 10. ,48x:19225-111,ODI:GPU 0135 ,TN:GB02 NOT REVIEWED

8307020264 Forwards guide for preparing ATOG event trees. Advises that meeting will be held on 790816 to discuss & make changes to guide as well as recommended changes to LOFW tree.

KELLY, J.J. :Babcock & Wilcox Co.  
DATE ISS:79/08/15, 4500. ,48x:19226-077,ODI:GPU 0155 ,TN:GB02 NOT REVIEWED

8307020265 Lists plant integration comments on operating guidelines for small breaks.

\* :Babcock & Wilcox Co.  
DATE ISS:79/05/08, 10. ,48x:19222-072,ODI:GPU 0156 ,TN:GB02 NOT REVIEWED

8307020266 Responds to JJ Kelly 800221 question re development of new simulator code in reasonable schedule to support ATOG training. Proposed plan for possible simulator upgrade submitted.

KELLY, J.J. :Babcock & Wilcox Co.  
WOMACK, E.A. :Babcock & Wilcox Co.  
DATE ISS:80/02/27, 200. ,48x:19226-124,ODI:GPU 0157 ,TN:GB02 NOT REVIEWED

8307050221 Discusses functions of abnormal transient operation guidelines program which should provide plant operators w/realistic plant responses to various multiple casualties including equipment failures & operator errors.

KELLY, J.J. :Babcock & Wilcox Co.  
MORGAN, C.D. :Babcock & Wilcox Co.  
DATE ISS:79/09/28, 300. ,48x:19226-126,ODI:GPU 0158 ,TN:GB02 NOT REVIEWED

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- 8307050232 Responds to 791009 memo re ATOG computer code problems. Power train & TRAP transient codes to be used for bulk of work & faster running version of TRAP will be used for transients already benchmarked against TRAP.  
\* KELLY, J.J. :Babcock & Wilcox Co.  
DAVIS, K.B. :Babcock & Wilcox Co.  
DATE ISS:79/10/15, 3pp. ,48x:19226-129,ODI:GPU 0159 ,TN:GB02 NOT REVIEWED
- 8307050237 Discusses potential problems which became apparent during process of developing & reviewing event trees for ATOG program. Equipment limitations re safety or plant reliability & potential operator errors possible problems.  
KELLY, J.J. :Babcock & Wilcox Co.  
WRIGHT, K.L. :Babcock & Wilcox Co.  
DATE ISS:79/10/19, 2pp. ,48x:19226-132,ODI:GPU 0160 ,TN:GB02 NOT REVIEWED
- 8307120878 Defines output, responsibilities, interfaces & working relationships of team assigned to execute abnormal transient operating guidelines program.  
KELLY, J.J. :Babcock & Wilcox Co.  
JONES, R.C. :Babcock & Wilcox Co.  
DATE ISS:79/08/21, 5pp. ,48x:19464-328,ODI:GPU 0161 ,TN:GB02 NOT REVIEWED
- 8307050240 "Development of Operating Guidelines for Abnormal Transient Operating Guidelines Program."  
\* :Babcock & Wilcox Co.  
:   
DATE ISS:81/05/07, 3pp. ,48x:19226-134,ODI:GPU 0162 ,TN:GB02 NOT REVIEWED
- 8307120614 Provides end-of-the-year update on abnormal transient operational guidelines program. Update discusses program status, guideline development & program interactions.  
KELLY, J.J. :Babcock & Wilcox Co.  
ANDERSON, G.E. :Babcock & Wilcox Co.  
DATE ISS:79/12/21, 10pp. ,48x:19493-015,ODI:GPU 0163 ,TN:GB02 NOT REVIEWED
- 8307080582 Lists top ten lessons learned from TMI-2.  
KOSIBA, R.E. :Babcock & Wilcox Co.  
MACMILLAN, J.H. :Babcock & Wilcox Co.  
DATE ISS:79/06/11, 2pp. ,48x:19469-314,ODI:GPU 0213 ,TN:GB02 NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
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8307080729 Minutes of 791108 & 30 staff meetings to review findings & recommendations of Technical Review Committee established after TMI-2 accident.

BALL, R.M. :Babcock & Wilcox Co.  
MACMILLAN, J.H. :Babcock & Wilcox Co.  
DATE ISS:79/12/07, 29pp. ,48x:19490-014,ODI:GPU 0232 ,TN:GB02 NOT REVIEWED

8307090057 Forwards RO Vosburgh & MV Bonaca recommendations re TMI-2 aftermath planning for improved safety.

LABELLE, D.W. :Babcock & Wilcox Co.  
ROY, D.H. :Babcock & Wilcox Co.  
DATE ISS:79/05/07, 5pp. ,48x:19490-220,ODI:GPU 0286 ,TN:GB02 NOT REVIEWED

8307090059 "Potential Lessons to be Learned From TMI-2."

LABELLE, D.W. :Babcock & Wilcox Co.  
DATE ISS:79/05/25, 2pp. ,48x:19490-225,ODI:GPU 0287 ,TN:GB02 NOT REVIEWED

8307090104 Requests review of proposed operating instruction re pressurizer relief valve. Procedure should be implemented for all operating reactors if approved.

SWANSON, E.W. :Babcock & Wilcox Co.  
KANE, E.R. :Babcock & Wilcox Co.  
DATE ISS:79/04/05, 1p. ,48x:19490-334,ODI:GPU 0296 ,TN:GB02 NOT REVIEWED

8307090107 Forwards operating instructions for isolation of stuck open PORV for review. Instruction should be forwarded to operating plant customers as changes to operating/emergency procedure.

NEWTON, D.G. :Babcock & Wilcox Co.  
FAIRBURN, G.T. :Babcock & Wilcox Co.  
DATE ISS:79/04/08, 4pp. ,48x:19490-335,ODI:GPU 0297 ,TN:GB02 NOT REVIEWED

8307090112 Forwards operating instructions for stuck open PORV, per 790407 request.

NEWTON, D.G. :Babcock & Wilcox Co.  
WOMACK, E.A. :Babcock & Wilcox Co.  
DATE ISS:79/04/08, 4pp. ,48x:19490-339,ODI:GPU 0298 ,TN:GB02 NOT REVIEWED



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8307090117 Discusses operating instructions for stuck open PORV.

KANE, E.R. :Babcock & Wilcox Co.  
WOMACK, E.A. :Babcock & Wilcox Co.  
DATE ISS:79/04/09, 1p. ,48x:19490-343, ODI:GPU 0299 ,TN:GB02 NOT REVIEWED

8307120825 "DHR During Very Small Break LUCA for B&W 205-Fuel-Assembly PWR."

MICHELSON, C. :General Public Utilities - GPU Service Corp.  
DATE ISS:78/01/31, 34pp. ,48x:19494-001, ODI:GPU 0323 ,TN:GB02 NOT REVIEWED

8307130014 Forwards description of personal statement re contribution toward reestablishment of stable plant conditions following trip & subsequent transient experienced at Unit 2, beginning w/790328 turbine/reactor trip.

ROGERS, L.C. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:79/06/12, 34pp. ,48x:19498-152, ODI:GPU 0335 ,TN:GB02 NOT REVIEWED

8307020191 Forwards latest rev of 750107 ltr to LR Pletke w/estimate of manpower work required to produce documents.

ROGERS, L.C. :Babcock & Wilcox Co.  
BERGER, C.F. :Babcock & Wilcox Co.  
DATE ISS:75/01/09, 8pp. ,48x:19224-230, ODI:GPU 0341 ,TN:GB02 NOT REVIEWED

8307020195 Proposes arrangements for execution of work re test procedure preparation described in 750107 ltr as tasks under Master Svcs Contract.

SCHMIDT, K.F. :Babcock & Wilcox Co.  
HOWARD, H.W. :General Public Utilities - GPU Service Corp.  
DATE ISS:75/02/06, 5pp. ,48x:19224-238, ODI:GPU 0342 ,TN:GB02 NOT REVIEWED

8307020197 Change Order 1 to Purchase Order 47106.

GUERIN, J.E. :General Public Utilities - GPU Service Corp.  
DATE ISS:75/03/17, 5pp. ,48x:19224-243, ODI:GPU 0343 ,TN:GB02 NOT REVIEWED

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8307020204 Proposes addl test procedure preparation as addition to  
master contract for engineering & technical svcs.

ELLIOTT, W.S. :Babcock & Wilcox Co.  
GUERIN, G.E. :Metropolitan Edison Co.  
DATE ISS:81/08/12, 3pp. ,4RX:19224-248,ODI:GPU 0344 ,TN:G802 NOT REVIEWED

8307130047 Forwards updated issues of plant setpoints & BAW chemistry  
guide specs. Figure 1 of BAW 2050 will be supplied later.  
w/o encl.

ROGERS, L.C. :Babcock & Wilcox Co.  
TOOLE, R.J. :General Public Utilities - GPU Service Corp.  
DATE ISS:77/07/13, 2pp. ,4RX:19498-194,ODI:GPU 0345 ,TN:G802 NOT REVIEWED

8307020207 Summary of 771115-16 User's Group meeting in Washington, DC.

COBB, W.A. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:78/02/03, 33pp. ,4RX:19224-251,ODI:GPU 0346 ,TN:G802 NOT REVIEWED

8307020220 Forwards info re operating instructions for symptoms of  
stuck open power operated relief valve which has been  
reviewed & approved for transmittal to customer.

FAIRBURN, G.T. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:79/05/07, 2pp. ,4RX:19224-342,ODI:GPU 0354 ,TN:G802 NOT REVIEWED

8307020223 Forwards instructions for performing operability checks of  
electromatic relief valves mfg by Dresser Industries.  
Instructions are also applicable to pressurematic relief  
valves at TECO, mfg by Crosby.

CULBERSON, D.G. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:79/04/13, 3pp. ,4RX:19224-344,ODI:GPU 0355 ,TN:G802 NOT REVIEWED

8307020244 Responds to questions from 790529 meeting re filling of  
OTSG & loss of one feedwater pump.

FAIRBURN, G.T. :Babcock & Wilcox Co.  
SLEAR, D.G. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/07/03, 2pp. ,4RX:19225-059,ODI:GPU 0364 ,TN:G802 NOT REVIEWED

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8307130128 Site problem reop resolution transmittal, 13-6-183-0.

ROGERS, L.C. :Babcock & Wilcox Co.

DATE ISS:79/02/20, 8pp. ,48x:19499-127, ODI:GPU 0368 ,TN:GB02

NOT REVIEWED

8307130136 Discusses recommendation for insp & repairs to all B&W OTSG  
re possibly generic weld deficiencies.

PITTMAN, R.L. :Babcock & Wilcox Co.

DATE ISS:76/04/26, 175pp. ,48x:19499-135, ODI:GPU 0371 ,TN:GB02

NOT REVIEWED

8307120710 Resume of JD Phinney.

PHINNEY, J.D. :Babcock & Wilcox Co.

DATE ISS:82/01/13, 3pp. ,48x:19461-017, ODI:GPU 0403 ,TN:GB02

NOT REVIEWED

8307060542 Comments on forty-three procedures submitted by Met Ed in  
Oct & Nov 1971 for review. No action taken. List of document  
assignment encl to initiate review. Completed review of few  
documents by 740212 & all documents by 740228 requested.

SCHIECK, G.C. :Babcock & Wilcox Co.

ALBERT, J.R. :Babcock & Wilcox Co.  
DATE ISS:74/02/07, 3pp. ,48x:19302-232, ODI:GPU 0404 ,TN:GB02

NOT REVIEWED

8307060546 Forwards results of procedure review by Nuclear Svc for  
interaction w/d&n supplied equipment & sys. Comments on  
pressurizer sys failures encl.

SCHIECK, G.C. :Babcock & Wilcox Co.

PHINNEY, J.D. :Babcock & Wilcox Co.  
DATE ISS:74/02/20, 15pp. ,48x:19302-235, ODI:GPU 0405 ,TN:GB02

NOT REVIEWED

8307060550 Submits outline of str means of onsite handling of problem  
repts from various organizations which have impact on  
equipment or schedules.

ROGERS, L.C. :Babcock & Wilcox Co.

WARD, K.G. :Babcock & Wilcox Co.  
DATE ISS:73/09/06, 3pp. ,48x:19302-250, ODI:GPU 0406 ,TN:GB02

NOT REVIEWED

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8307060557 Administrative Manual Policy & Procedure NPG-0503-04 Rev 6,  
"Site Problem Rept."

\* :Babcock & Wilcox Co.  
: DATE ISS:82/01/14, 7pp. ,48x:19302-253,ODI:GPU 0407 ,TN:GB02 NOT REVIEWED

8307060559 Submits weekly status rept for wk ending 730504.

PHINNEY,J.D. :Babcock & Wilcox Co.  
BEACH,R.R. :Babcock & Wilcox Co.  
DATE ISS:73/05/04, 3pp. ,48x:19302-260,ODI:GPU 0408 ,TN:GB02 NOT REVIEWED

8307060582 Submits weekly progress rept for TMI-I for wk ending 721117.

WESSMAN,R.H. :Babcock & Wilcox Co.  
BEACH,R.R. :Babcock & Wilcox Co.  
DATE ISS:72/11/20, 3pp. ,48x:19302-319,ODI:GPU 0414 ,TN:GB02 NOT REVIEWED

8307060606 Request update of listed operating procedures.

PHINNEY,J.D. :Babcock & Wilcox Co.  
ROGERS,L.C. :Babcock & Wilcox Co.  
DATE ISS:75/01/10, 2pp. ,48x:19302-322,ODI:GPU 0415 ,TN:GB02 NOT REVIEWED

8307060610 Submits no comment to 730730 memo forwarding TCN-2 to Test  
Procedure 250/2.8&N correspondence to util during 1973,1974,  
1976,1977,1978 & 1979 re procedures encl.

PHINNEY,J.D. :Babcock & Wilcox Co.  
MILLER,G.P. :General Public Utilities - GPU Service Corp.  
DATE ISS:73/08/01, 39pp. ,48x:19302-324,ODI:GPU 0416 ,TN:GB02 NOT REVIEWED

8307060641 Requests to be included on distribution list of repts issued  
re proposed work for I&C Human Engineering of 790718 TMI-2  
concerns list.

HALLMAN,D.F. :Babcock & Wilcox Co.  
CRAIG,R.W. :Babcock & Wilcox Co.  
DATE ISS:79/07/27, 1p. ,48x:19340-014,ODI:GPU 0428 ,TN:GB02 NOT REVIEWED

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8307070004 Comments on Procedure 15 Rev 1, "Reactor Coolant Pump Startup." Specific comments on Procedure EP-1, Rev 1 included.

KENNEDY, R.K. :Babcock & Wilcox Co.  
ROGERS, L. :Babcock & Wilcox Co.  
DATE ISS:79/04/05, 2pp. ,48x:19340-062, ODI:GPU 0436 ,TN:GB02 2.2

8307070009 Comments on NUREG-0578, "TMI-2 Lessons Learned Task Force Status Rept & Short-term Recommendations." Maint of pump auxiliaries to avoid premature tripping recommended.

KENNEDY, R.K. :Babcock & Wilcox Co.  
STANEK, L.J. :Babcock & Wilcox Co.  
DATE ISS:79/08/28, 2pp. ,48x:19340-064, ODI:GPU 0437 ,TN:GB02 2.2

8307120764 Handwritten rept, "DHR Problem Associated w/Recovery From very Small break LOCA for C-E Sys 80 PWR."

\* :Combustion Engineering, Inc.  
:   
DATE ISS:77/05/15, 50pp. ,48x:19461-058, ODI:GPU 0470 ,TN:GB02 NOT REVIEWED

8307130103 Emergency Operating Sced 69-1001168-00, "Loss of Reactor Coolant/HCS Pressure."

VEENSTRA, J. :Babcock & Wilcox Co.  
:   
DATE ISS:77/01/05, 8pp. ,48x:19503-257, ODI:GPU 0474 ,TN:GB02 2.5

8307130184 Forwards "Adequacy of TMI-2 Procedures for Case of Loss of Reactor Coolant at Top of Pressurizer." Emergency Procedures 2202-1.5 & 2202-1.3 not adequate for mitigating effects of loss of coolant at top of pressurizer.

MICHELSON, C. :ACRS - Advisory Committee on Reactor Safeguards  
ETHERINGTON, H. :ACRS - Advisory Committee on Reactor Safeguards  
DATE ISS:79/11/06, 1p. ,48x:19503-278, ODI:GPU 0478 ,TN:GB02 2.5

8307060558 Operating instruction for stuck-open PORV, per IE Bulletin 79-05.

NEWTON, D.G. :Babcock & Wilcox Co.  
:   
DATE ISS:79/04/08, 4pp. ,48x:19340-293, ODI:GPU 0496 ,TN:GB02 2.5

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

- 8307060589 Discusses pressurizer sys failure - stuck open spray valve. Emergency Procedure EP-2202-1.5 should be revised to incorporate response actions to valve failure. Unit 1 procedure should be revised since procedure in error.  
SHETLER, J.R. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:76/01/08, 3pp. ,48x:19340-337,ODI:GPU 0504 ,TN:GB02 2.5
- 8307060593 Forwards draft Rev 0 to Emergency Procedure EP 2202-1.3, "Loss of Reactor Coolant/RCS Pressure," for review & comment.  
ROGERS, L.C. :Babcock & Wilcox Co.  
MILBISH, J.F. :Metropolitan Edison Co.  
DATE ISS:76/02/20, 25pp. ,48x:19340-340,ODI:GPU 0505 ,TN:GB02 2.5
- 8307070153 Part 21 evaluation re: re discrepancy between steam line break analysis & actual operating parameters for startup & shutdown of steam generators w/seal-welded feedwater nozzles. Initially reported on 780202 by Met Ed.  
TAYLOR, J.H. :Babcock & Wilcox Co.  
SEYFRIT, K.V. :Office of Inspection & Enforcement, Office of the Director  
DATE ISS:78/02/07, 4pp. ,48x:19341-075,ODI:GPU 0528 ,TN:GB02 IRRELEVANT
- 8307070401 Discusses top 10 lessons learned from TMI-2 accident.  
BERGER, D.W. :Babcock & Wilcox Co.  
MACMILLAN, J.H. :Babcock & Wilcox Co.  
DATE ISS:79/06/05, 10pp. ,48x:19341-112,ODI:GPU 0536 ,TN:GB02 2.5
- 8307080585 Deposition of FJ Scheimann in Harrisburg, PA, Po 2-127.  
SCHEIMANN, F.J. :Metropolitan Edison Co.  
:Metropolitan Edison Co.  
DATE ISS:79/07/24, 242pp. ,48x:19417-004,ODI:GPU 0538 ,TN:GB02 NOT REVIEWED
- 8307070439 Discusses emergency operation guideline preparation & maint. Comments on encl LER review proposal requested by 740807.  
HALLMAN, G.F. :Babcock & Wilcox Co.  
ROMACK, E.A. :Babcock & Wilcox Co.  
DATE ISS:79/07/30, 8pp. ,48x:19341-247,ODI:GPU 0541 ,TN:GB02 2.5



U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307130267 Emergency Operating Spec 69-1001168-01, "Loss of Reactor  
Coolant/RCS Pressure."

SCOTT, T.F. :Babcock & Wilcox Co.

DATE ISS:78/05/15, 11pp. ,48x:19504-160,ODI:GPU 0543 ,TN:G802 2.5

8307070447 Forwards surveillance instructions sent to customers re  
previous PDHV failures.

HALLMAN, D.F. :Babcock & Wilcox Co.

MULLIN, J.G. :Babcock & Wilcox Co.

DATE ISS:79/09/10, 9pp. ,48x:19341-257,ODI:GPU 0544 ,TN:G802 IRRELEVANT

8307070449 Rev 4 to Policies & Procedures NPG-0504-12, "Preparation &  
Processing of Site Instructions."

\* :Babcock & Wilcox Co.

DATE ISS:78/02/20, 2pp. ,48x:19341-266,ODI:GPU 0545 ,TN:G802 IRRELEVANT

8307070453 Rev 2 to Policies & Procedures NPG-0504-13, "Preparation of  
Site Support Documents."

\* :Babcock & Wilcox Co.

DATE ISS:77/06/01, 18pp. ,48x:19341-268,ODI:GPU 0546 ,TN:G802 2.5

8307070455 Forwards Rev 0 to Emergency Operating Spec 69-1001168, "Loss  
of Reactor Coolant/RCS Pressure," technical document.

GOSLOW, C.E. :Babcock & Wilcox Co.

WANDLING, G.K. :Babcock & Wilcox Co.

DATE ISS:78/02/06, 1p. ,48x:19341-286,ODI:GPU 0547 ,TN:G802 2.5

8307070470 Comments on encl Rev 0 to Emergency Operating Spec  
69-1001168, "Loss of Reactor Coolant/RCS Pressure."

GOSLOW, C.E. :Babcock & Wilcox Co.

FINNIN, R.J. :Babcock & Wilcox Co.

DATE ISS:78/02/06, 1p. ,48x:19341-294,ODI:GPU 0548 ,TN:G802 2.5

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307070475 Comments on encl Rev 0 to Emergency Operating Spec  
69-1001168, "Loss of Reactor Coolant/RCS Pressure."

GOSLOW, C.E. :Babcock & Wilcox Co.  
SHIVELY, J.S. :Babcock & Wilcox Co.  
DATE ISS:78/01/06, 7pp. ,48x:19341-302,001:GPU 0549 ,TN:GB02 2.5

8307130288 Expresses concern w/ECCS analysis re operator interruption  
of HPI following initial stage of LOCA. Operating Procedures  
to allow termination of HPI under stated conditions should  
be written.

DUNN, B.M. :Babcock & Wilcox Co.  
TAYLOR, J. :Babcock & Wilcox Co.  
DATE ISS:78/02/09, 3pp. ,48x:19503-354,001:GPU 0550 ,TN:GB02 2.5

8307130296 Discusses acceptable procedure for terminating HPI following  
LOCA. Procedure requested in 780209 memo will be modified  
accordingly.

DUNN, B.M. :Babcock & Wilcox Co.  
TAYLOR, J. :Babcock & Wilcox Co.  
DATE ISS:78/02/16, 2pp. ,48x:19503-357,001:GPU 0551 ,TN:GB02 2.5

8307070483 Forwards Rev 1 to Emergency Operating Spec 69-1001168, "Loss  
of Reactor Coolant/RCS Pressure."

\* :Babcock & Wilcox Co.  
GOSLOW, C. :Babcock & Wilcox Co.  
DATE ISS:78/03/03, 2pp. ,48x:19341-316,001:GPU 0552 ,TN:GB02 2.5

8307070491 Comments on "Loss of Reactor Coolant/RCS Pressure."

\* :Babcock & Wilcox Co.  
GOSLOW, C. :Babcock & Wilcox Co.  
DATE ISS:78/02/21, 1p. ,48x:19341-326,001:GPU 0553 ,TN:GB02 2.5

8307070505 Forwards draft writeups on small break scenarios to be used  
in small break cooldown procedure. Comments, in procedure form  
requested.

JONES, H.C. :Babcock & Wilcox Co.  
KANE, E.R. :Babcock & Wilcox Co.  
DATE ISS:79/05/02, 9pp. ,48x:19341-350,001:GPU 0556 ,TN:GB02 2.5

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307070509 Discusses LOCA-type accidents.

GOSLOW, C.E. :Babcock & Wilcox Co.  
HALLMAN, D.F. :Babcock & Wilcox Co.  
DATE ISS:79/04/10, 1p. ,48x:19341-359, OOI:GPU 0557 ,TN:G802 NOT REVIEWED

8307070512 Discusses symptoms of transients.

\* :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:82/06/17, 1p. ,48x:19341-360, OOI:GPU 0558 ,TN:G802 NOT REVIEWED

8307060608 Informs that ECCS analysis finds 2-ft level adequate when  
fed by main feedwater. Response valid for 2 & 3 pump  
operation. Internal memo from 781128 re interim operating  
instructions encl.

DUNN, B.M. :Babcock & Wilcox Co.  
SWANSON, E. :Babcock & Wilcox Co.  
DATE ISS:78/11/22, 3pp. ,48x:19343-133, OOI:GPU 0593 ,TN:G802 2.5

8307060625 Rev 1 to "Reactivity Calculation."

HOYT, K.R. :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:77/09/08, 4pp. ,48x:19343-146, OOI:GPU 0599 ,TN:G802 IRRELEVANT

8307060626 "TMI Nuclear Station Reactivity Balance."

\* :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:77/09/08, 5pp. ,48x:19343-150, OOI:GPU 0600 ,TN:G802 IRRELEVANT

8307060442 Temporary Change Notice 2-78-410 to Procedure 2103-1.9,  
"Reactivity balance." Change will update estimated physics  
values w/zero power physics test measured results.

BENSON, M.J. :Metropolitan Edison Co.  
: :  
DATE ISS:78/04/19, 4pp. ,48x:19343-206, OOI:GPU 0601 ,TN:G802 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307060479 Informs that inconsistencies identified between operating procedures, Tech Specs & steam line break accident requirements in plants w/seal welded steam generator feedwater nozzles. Tech Specs will be revised.  
MCBRIDE, A. :Babcock & Wilcox Co.  
COBB, A.L. :Babcock & Wilcox Co.  
DATE ISS:77/06/15, 2pp. ,48X:19343-216,ODI:GPU 0606 ,TN:GB02 IRRELEVANT

8307120842 Procedure SP 1103.05 "Pressurizer Operation."  
  
NISSEN, B. :Toledo Edison Co.  
DATE ISS:75/07/09, 31pp. ,48X:19494-268,ODI:GPU 2014 ,TN:GB02 NOT REVIEWED

8307120845 Procedure EP 1202.29 "Pressurizer Sys Failure."  
  
CHERRY, J. :Toledo Edison Co.  
DATE ISS:74/05/03, 17pp. ,48X:19494-298,ODI:GPU 2015 ,TN:GB02 NOT REVIEWED

8307120850 Procedure PP 1101.01 "Nuclear Steam Supply Sys Limit & Precautions."  
  
LINGENFILTER, J. :Toledo Edison Co.  
DATE ISS:74/11/14, 71pp. ,48X:19494-315,ODI:GPU 2016 ,TN:GB02 NOT REVIEWED

8307120792 Emergency Procedure EP 1202.04, "Reactor Trip," nuclear safety-related.  
  
LINGENFELTER, J. :Toledo Edison Co.  
DATE ISS:76/04/20, 11pp. ,48X:19502-332,ODI:GPU 2020 ,TN:GB02 NOT REVIEWED

8307120796 Rev 1 to Operating Procedure 1202.04, "Reactor Trip."  
  
\* :General Public Utilities - GPU Service Corp.  
DATE ISS:72/10/09, 5pp. ,48X:19502-343,ODI:GPU 2022 ,TN:GB02 NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307120889 Discusses once-through steam generator (OTSG) level requirements during plant shutdown & startup. Operating guidelines for maintaining OTSG level encl.

ROGERS, L.C. : Babcock & Wilcox Co.  
LAWYER, L.L. : Metropolitan Edison Co.  
DATE ISS: 78/02/01, 3pp, , 48x:19503-083, 00I:GPU 2034 , TN:G802

NOT REVIEWED

8307120895 Forwards "Rept of Startup & Shutdown Procedures for Steam Generators w/Seal welded Feedwater Nozzles," for info to assist in reporting June 1977 safety concern. Ack in writing to NRC & B&W requested within 48 h.

\* : Babcock & Wilcox Co.  
POTTS, W.E. : Metropolitan Edison Co.  
DATE ISS: 74/02/28, 4pp, , 48x:19503-086, 00I:GPU 2035 , TN:G802

NOT REVIEWED

8307120899 Forwards LER 78-008/01f-0.

HERBEIN, J.G. : Metropolitan Edison Co.  
GRIER, B.H. : Region 1, Philadelphia, Office of the Director  
DATE ISS: 78/02/16, 1p, , 48x:19513-316, 00I:GPU 2036 , TN:G802

NOT REVIEWED

8307120919 Advises that operations in recirculation flow mode should be limited to lessen probability of shaft crack development in shaft keyway region of UHR pump. UHR pump operating restrictions listed.

ROGERS, L.C. : Babcock & Wilcox Co.  
MILLER, G.P. : Metropolitan Edison Co.  
DATE ISS: 77/07/26, 2pp, , 48x:19503-115, 00I:GPU 2038 , TN:G802

NOT REVIEWED

8307070315 Recommends operating only in run speed except for purpose of latching control rod drive mechanism to leadscrew when rod known to be at lower limit of travel. Appropriate changes to operating & emergency procedures requested.

ROGERS, L.C. : Babcock & Wilcox Co.  
LAWYER, L.L. : Metropolitan Edison Co.  
DATE ISS: 78/04/12, 2pp, , 48x:19338-167, 00I:GPU 2040 , TN:G802

NOT REVIEWED

8307070322 Informs that operation at 100 speed w/stuck rod can result in 900 lb force on control rod. B&W has not verified force acceptability. Caution to Procedures 1105-9 & 1202-8 will be added.

HARTMAN, C.E. : General Public Utilities - GPU Service Corp.  
O'HANLON, J.P. : General Public Utilities - GPU Service Corp.  
DATE ISS: 78/05/08, 3pp, , 48x:19338-169, 00I:GPU 2041 , TN:G802

NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307080001 Advises of necessity to meticulously follow vendor  
stator-water jacket installation procedure to avoid damaging  
bottom O-rings.

ROGERS, L.C. : Babcock & Wilcox Co.  
LAWYER, L.L. : Metropolitan Edison Co.  
DATE ISS: 78/05/16, 2pp. , 48x: 19338-172, ODI: GPU 2042 , TN: GB02 NOT REVIEWED

8307120942 "Shift Supervisor Training Program."

\* : General Public Utilities - GPU Service Corp.  
: :  
DATE ISS: 77/03/22, 7pp. , 48x: 19503-194, ODI: GPU 2061 , TN: GB02 NOT REVIEWED

8307090120 Tech Spec Sections 1 through 6 for Unit 2, w/temporary Amend  
4 to License DPR-73, issued as result of 790728 incident.

\* : Metropolitan Edison Co.  
: :  
DATE ISS: 79/10/23, 400pp. , 48x: 19484-139, ODI: GPU 2064 , TN: GB02 NOT REVIEWED

8307110725 Rev 4 to Operating Procedure 2101-1.1 for TMI-2, "Nuclear  
Plant Limits & Precautions."

\* : Babcock & Wilcox Co.  
: :  
DATE ISS: 78/06/08, 72pp. , 48x: 19485-179, ODI: GPU 2065 , TN: GB02 NOT REVIEWED

8307110729 Compendium of TMI-2 emergency procedures.

\* : Babcock & Wilcox Co.  
: :  
DATE ISS: 78/10/25, 363pp. , 48x: 19485-252, ODI: GPU 2066 , TN: GB02 NOT REVIEWED

8307080017 Transcript of President's Commission on Accident at TMI  
third meeting on 790530 in Washington, DC. Pp 1-210. W/o  
Pp 5-112.

\* : President's Commission on the Accident at Three Mile Island  
: :  
DATE ISS: 79/05/30, 103pp. , 48x: 19338-209, ODI: GPU 2069 , TN: GB02 NOT REVIEWED



U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307080036 Submits guidance for performance of valve line-ups to prevent reoccurrence of 781202 incident re low pressure trip & extraction steam injection.

FLOYD, J.R. :Metropolitan Edison Co.  
:Metropolitan Edison Co.

DATE ISS:78/12/18, 2pp. ,48x:19338-311, ODI:GPU 2071 ,TN:G802

NOT REVIEWED

8307110335 Requests ack, by initialing encl sign off sheet, of review & understanding of small break LOCA procedure changes.

FLOYD, J.R. :Metropolitan Edison Co.  
:Metropolitan Edison Co.

DATE ISS:78/05/10, 3pp. ,48x:19483-317, ODI:GPU 2074 ,TN:G802

NOT REVIEWED

8307110353 IE Investigative Rept 50-320/79-10 on 790328.

\* :Office of Inspection & Enforcement, Office of the Director  
:

DATE ISS:79/08/31, 125pp. ,48x:19483-169, ODI:GPU 2080 ,TN:G802

NOT REVIEWED

8307110795 Revised "Analysis of TMI-Unit 2 Accident."

\* :Electric Power Research Institute  
:

DATE ISS:80/03/31, 59pp. ,48x:19463-151, ODI:GPU 2081 ,TN:G802

NOT REVIEWED

8307110796 "TMI Rept to Commissioners & Public," Vol 2, Part 2.

\* :General Public Utilities - GPU Service Corp.  
:

DATE ISS:83/07/11, 58pp. ,48x:19463-210, ODI:GPU 2082 ,TN:G802

NOT REVIEWED

8307120884 Forwards work completed in May 1979, investigating methods of detecting operation of PURV.

ROBERTS, R.C. :Dabcock & Wilcox Co.  
:Dabcock & Wilcox Co.

DATE ISS:79/06/11, 23pp. ,48x:19499-319, ODI:GPU 2097 ,TN:G802

NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307080058 Forwards revised operating instructions allowing alternative to 20-minute operability period under certain conditions, to preclude pressurizer from going solid. Rev supplements 790404 instructions.  
FAIRBURN, G.T. : Babcock & Wilcox Co.  
MILLER, G.P. : Metropolitan Edison Co.  
DATE ISS: 79/04/18, 2pp., 48x:19339-067, ODI:GPU 2101 , TN:G802 NOT REVIEWED

8307080071 Forwards IE Insp Repts 50-289/78-23 & 50-320/78-36 on 781204-08 & 12-14 & notice of violation.  
BRUNNER, E.J. : Region 1, Philadelphia, Reactor Operations Nuclear Support  
HERBEIN, J.G. : Metropolitan Edison Co.  
DATE ISS: 79/01/09, 2pp., 48x:19358-066, ODI:GPU 2103 , TN:G802 NOT REVIEWED

8307080127 Forwards IE Insp Rept 50-320/79-02 on 790130-31. No noncompliance noted.  
BRUNNER, E.J. : Region 1, Philadelphia, Reactor Operations Nuclear Support  
HERBEIN, J.G. : Metropolitan Edison Co.  
DATE ISS: 79/02/07, 2pp., 48x:19339-121, ODI:GPU 2106 , TN:G802 NOT REVIEWED

8307050403 Revised Chapter 13 to FSAR, "Conduct of Operations."  
\* : General Public Utilities - GPU Service Corp.  
DATE ISS: 78/04/07, 67pp., 48x:19230-001, ODI:GPU 2156 , TN:G802 NOT REVIEWED

8307120936 Rev 3 to Operating Procedure OP 1209.29, "OFR Unit 1 Pressurizer Abnormal Operations."  
\* : General Public Utilities - GPU Service Corp.  
DATE ISS: 73/01/25, 15pp., 48x:19500-287, ODI:GPU 2165 , TN:G802 NOT REVIEWED

8307050454 Requests that each shift foreman review EP12 02 - 2&2A, "Station blackout" & "Station blackout w/Loss of Diesel Generators," w/shift. Encl ltr re Indian Point Unit 3 770713 trip forwarded for review & info.  
O'HANLON, J.P. : Metropolitan Edison Co.  
FLOYD, J.R. : Metropolitan Edison Co.  
DATE ISS: 77/07/22, 5pp., 48x:19231-040, ODI:GPU 2172 , TN:G802 NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307050475 Procedure change request for Rev 8 to EP 1202-6, "Loss of  
Reactor Coolant/Reactor Coolant Pressure."

\* :General Public Utilities - GPU Service Corp.  
:

DATE ISS:79/10/31, 55pp. ,48x:19231-063,001:GPU 2175 ,TN:G802

NOT REVIEWED

8307050504 Summary of 790515 telcon w/Z Rosztoczy re stuck open PORV  
w/pumps running & no auxiliary feed.No core uncover  
will take place even if reactor pumps trip at most  
unfavorable time.

DUNN,B.M. :Dabcock & Wilcox Co.

KANE,E.H. :Dabcock & Wilcox Co.

DATE ISS:79/05/29, 2pp. ,48x:19231-293,001:GPU 2203 ,TN:G802

NOT REVIEWED

8307020254 "Analysis of TMI-2 Accident w/Continuous Operation of  
Reactor Coolant Pumps."

\* :General Public Utilities - GPU Service Corp.  
:

DATE ISS:82/12/31, 22pp. ,48x:19222-023,001:GPU 2213 ,TN:G802

NOT REVIEWED

8307110734 "Guide for Preparing Nuclear Plant Operating,Emergency  
& Maint Procedures."

\* :Dabcock & Wilcox Co.  
:

DATE ISS:68/08/31, 65pp. ,48x:19482-116,001:GPU 2311 ,TN:G802

NOT REVIEWED

8307110738 Resume of WJ Marzec.

MARZEC,R.J. :Affiliation Unknown  
:

DATE ISS:83/07/09, 3pp. ,48x:19482-183,001:GPU 2322 ,TN:G802

NOT REVIEWED

8307080047 Rev 4 to Procedure 2301-301, "Surveillance Procedure."

\* :Metropolitan Edison Co.  
:

DATE ISS:80/01/14, 3pp. ,48x:19360-094,001:GPU 2328 ,TN:G802

NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307110751 "Compendium of TMI-2 Operating Procedures."

\* :General Public Utilities - GPU Service Corp.  
: 1  
DATE ISS:79/03/07, 317pp. ,48x:19482-189,00I:GPU 2330 ,TN:GB02 NOT REVIEWED

8307080128 Procedures 31533VX-30 & 31533VX,w/& w/o bellows,  
respectively, "Instructions for Operating & Repairing  
Consolidated Electromatic Relief Valve."

\* :Dresser Industries, Inc.  
: 1  
DATE ISS:83/07/05, 31pp. ,48x:19361-042,00I:GPU 2336 ,TN:GB02 NOT REVIEWED

8307120615 Transcript re operating procedures for handling HPI,Pa 225-  
232.

\* :General Public Utilities - GPU Service Corp.  
: 1  
DATE ISS:83/07/11, 8pp. ,48x:19495-138,00I:GPU 2348 ,TN:GB02 2.5

8307120619 Offer of proof for record on various points re R Marzec  
proposed testimony but excluded by court concerning TMI  
operator actions concerning HPI.

\* :General Public Utilities - GPU Service Corp.  
: 1  
DATE ISS:83/07/11, 6pp. ,48x:19495-146,00I:GPU 2349 ,TN:GB02 2.2, 2.5

8307080146 Recommends operating guidelines for small breaks.

HALLMAN,D.F. :Babcock & Wilcox Co.  
LEMUN,J.E. :Babcock & Wilcox Co.  
DATE ISS:79/10/09, 1p. ,48x:19361-133,00I:GPU 2405 ,TN:GB02 2.5, 2.6

8307080195 Discusses 731229-740104 weekly test re hot functional  
testing.

PHINNEY,J.D. :Babcock & Wilcox Co.  
BEACH,R.R. :Babcock & Wilcox Co.  
DATE ISS:74/01/04, 3pp. ,48x:19361-148,00I:GPU 2411 ,TN:GB02 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

- 8307080211 "Interim Operating Guideline for Response to Allow Maint of  
MPI Sys on Low RCS Pressure."
- \* :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:79/04/16, 4pp. ,48X:19361-153,ODI:GPU 2413 ,TN:G802 2.2, 2.5
- 8307080271 Expresses appreciation for outstanding job in conduct of  
review re efforts, findings & recommendations concerning mat  
review of preliminary safety concerns procedure.
- ROY, D.H. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:79/12/14, 12pp. ,48X:19361-168,ODI:GPU 2421 ,TN:G802 IRRELEVANT
- 8307080465 Forwards draft Rev 0 to EP 2202-1.3, "Loss of Reactor  
Coolant/RCS Pressure," for review & comment. Procedure  
writeup modified from Unit 1 in area of Part B, "Leak or  
Rupture of Significant Size Such that ESF..." w/o encl.
- ROGERS, L.C. :Babcock & Wilcox Co.  
HILBISH, J.F. :Metropolitan Edison Co.  
DATE ISS:76/02/20, 1p. ,48X:19361-297,ODI:GPU 2453 ,TN:G802 2.5
- 8307080483 "Emergency & Abnormal Procedures Quiz - Senior Reactor  
Operator."
- KUNDER, S.A. :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:76/10/20, 3pp. ,48X:19361-313,ODI:GPU 2456 ,TN:G802 2.5
- 8307080487 "Emergency & Abnormal Procedures Quiz - Senior Reactor  
Operator."
- KUNDER, G. :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:77/01/09, 8pp. ,48X:19361-316,ODI:GPU 2457 ,TN:G802 ^2, 2.5
- 8307080492 Forwards revised applicable sections of limits & precautions  
for reactor coolant pumps & motors.
- ROGERS, L.C. :Babcock & Wilcox Co.  
TOOLE, R.J. :Metropolitan Edison Co.  
DATE ISS:77/05/20, 17pp. ,48X:19361-324,ODI:GPU 2458 ,TN:G802 2.2, 2.5

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307080498 Submits recommendations for RCS low pressure alarm & electromagnetic relief valve reset pressure, per high pressure injection setpoint.

RUGERS, L.C. : Isaacson & Wilson Co.  
TOOLE, R.J. : Metropolitan Edison Co.  
DATE ISS: 78/09/29, 2pp., 48x:19361-341, OOI:GPU 2459 , TN:G802 IRRELEVANT

8307080520 Forwards IE Insp Rept 50-289/79-06 on 790221-23 & 26-28. No noncompliance noted.

BRUNNER, E.J. : Region 1, Philadelphia, Reactor Operations Nuclear Support  
HEBERLIN, J.G. : Metropolitan Edison Co.  
DATE ISS: 79/03/21, 2pp., 48x:19361-356, OOI:GPU 2462 , TN:G802 2.5

8307080564 Lists procedures for all operating plants to follow when high pressure injection has actuated because of low pressure condition, following 790328 accident.

FAIRBURN, G.T. : Isaacson & Wilson Co.  
MILLER, G.P. : Metropolitan Edison Co.  
DATE ISS: 79/04/04, 3pp., 48x:19362-022, OOI:GPU 2466 , TN:G802 2.2, 2.5

8307080573 "Small break Operating Guidelines - Davis-Besse Unit 1."

WALLMAN, D.F. : Isaacson & Wilson Co.  
DATE ISS: 79/11/20, 37pp., 48x:19362-025, OOI:GPU 2467 , TN:G802 2.2, 2.4, 2.5

8307080561 "Operating Guidelines for Small breaks for Oconee 1, 2 & 3, TMI-1 & TMI-2, Crystal River 3 & Rancho Seco 1."

\* : Isaacson & Wilson Co.  
DATE ISS: 83/07/06, 48pp., 48x:19362-066, OOI:GPU 2468 , TN:G802 2.2, 2.4, 2.5

8307070375 Forwards "Procedures for Steam Generators w/Seal welded Feedwater Nozzles," to assist in reporting June 1977 possible safety concern re once-through steam generator to NRC.

JANIS, J. : Isaacson & Wilson Co.  
POITS, W.E. : Metropolitan Edison Co.  
DATE ISS: 78/02/01, 1p., 48x:19358-248, OOI:GPU 2492 , TN:G802 IRRELEVANT



U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307070398 recommends periodic measurements be made to reduce  
inaccuracy of nuclear steam sys calculational package during  
Cycle 4 due to leakage currents of self-powered neutron  
detector. b/w correspondence from 780629-790531 encl.  
ROGERS, L.C. : Babcock & Wilcox Co.  
MILLER, G.P. : Metropolitan Edison Co.  
DATE ISS: 78/06/29, 45pp. , 48x:19358-252, OOI:GPU 2494 , TN:GB02 IRRELEVANT

8307080701 IE Insp Rept 50-289/79-06 on 790221-23 & 26-28. No  
noncompliance noted. Major areas inspected: preparation for  
refueling, refueling activities, selected LERs & pipe  
supports & restraints.  
KEIMIG, R.R. : Region 1, Philadelphia, Office of the Director  
DATE ISS: 79/03/20, 17pp. , 48x:19491-088, OOI:GPU 2508 , TN:GB02 2.5

8307120647 Responses to questions 3 & 4 re operating procedures for  
loss of feed, loss of reactor coolant/loss of reactor  
coolant pressure & reactor trip.  
\* : General Public Utilities - GPU Service Corp.  
DATE ISS: 83/07/11, 7pp. , 48x:19495-180, OOI:GPU 2619 , TN:GB02 2.4, 2.5

8307090007 Summary of 790416 meeting re operational limits which should  
govern operator actions to secure or terminate HPI.  
CARTER, L.W. : Babcock & Wilcox Co.  
BRAZILL, G.J. : Babcock & Wilcox Co.  
DATE ISS: 79/04/16, 4pp. , 48x:19491-346, OOI:GPU 2707 , TN:GB02 2.5

8307120902 Excerpt from 790406 taped interview w/B Zewe by  
investigation team re perspective of time for emergency  
feed actuation.  
\* : General Public Utilities - GPU Service Corp.  
DATE ISS: 79/04/06, 1p. , 48x:19512-049, OOI:GPU 6000 88 , TN:GB02 2.1

8307050404 Transcript of SA Dunn 791004 deposition. Pp 22, 26, 7, 11, 17-18,  
21 & 23-27.  
DUNN, B.M. : General Public Utilities - GPU Service Corp.  
DATE ISS: 79/10/04, 54pp. , 48x:19232-131, OOI:GPU 6020 , TN:GB02 2.5

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8307050411 Transcript of BM Dunn 790630 deposition, Pd 30-34, 43-45, 47,  
52-55, 65-66, 69-75, 78, 81-82 & 98-99.

DUNN, B.M. :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:79/06/30, 29pp. ,48x:19232-185, ODI:GPU 6021 ,TN:G802 2.5

8307050426 Transcript of NS Elliott 790705 deposition, Pd 78-82, 146-147,  
156-157 & 159-167.

\* :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:79/07/05, 19pp. ,48x:19232-251, ODI:GPU 6024 ,TN:G802 2.5

8307070127 Partial deposition of LC Rogers on 790629.

ROGERS, L.C. :Babcock & Wilcox Co.  
:  
DATE ISS:79/06/29, 29pp. ,48x:19355-335, ODI:GPU 6039 ,TN:G802 2.5

8307070171 Partial deposition of EG Ward on 791017.

WARD, E.G. :Babcock & Wilcox Co.  
:  
DATE ISS:79/10/17, 12pp. ,48x:19357-045, ODI:GPU 6049 ,TN:G802 2.5

8307070185 Partial deposition of EA Womack on 790630.

WOMACK, E.A. :Babcock & Wilcox Co.  
:  
DATE ISS:79/06/30, 30pp. ,48x:19357-116, ODI:GPU 6054 ,TN:G802 2.5

8307070234 Partial transcript of IE TMI investigation interview of  
C Faust on 790421.

FAUST, C. :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:79/04/21, 82pp. ,48x:19357-289, ODI:GPU 6059A ,TN:G802 2.3

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8307120920 Excerpt from IE interview of B Mehler on 800327 re RCS  
inventory. Pp 5-12.

MEHLER, B. : General Public utilities - GPU Service Corp.

DATE ISS: 80/03/27, 800. , 48X: 19512-274, ODI: GPU 6060AA , TN: G802 IRRELEVANT

002519 RECORDS SCANNED 313 RECORDS PRINTED ( 205 RECORDS, 108 SUPP.)  
ENDING CODE= 186 LAST KEY= GPU 6060AA 830712092004

CATEGORY 3  
TRIAL TESTIMONY

U. S. NUCLEAR REGULATORY COMMISSION  
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8306290419 Transcript of 821101 trial between util & B&W in  
New York, NY, Po 1-189.

\* U.S. District Court, Southern District of New York  
DATE ISS:82/11/01, 189pp. ,4Rx:19022-001,001: ,TN:GB03 3.1, 3.2

8306290445 Testimony of MC Arnold on 821116 in New York, NY, Po  
1,535-1,1715.

ARNOLD, R.C. :General Public Utilities - GPU Service Corp.  
DATE ISS:82/11/16, 180pp. ,4Rx:19026-089,001: ,TN:GB03 3.2

8307260383 Testimony of J Chwastek on 830118 in New York, NY, Po 6,994-  
7,007.

CHWASTYK, J. :General Public Utilities - GPU Service Corp.  
DATE ISS:83/01/18, 24pp. ,4Rx:19041-017,001: ,TN:GB03 3.1

8307260457 Testimony of M Derivan on 821103 in New York, NY, Po 397-537.

DERIVAN, M. :Ioloto Edison Co.  
DATE ISS:82/11/03, 140pp. ,4Rx:19023-036,001: ,TN:GB03 3.2

8306290407 Testimony of MJ Derivan on 821104 in New York, NY, Po 538-687.

DERIVAN, M.J. :Ioloto Edison Co.  
DATE ISS:82/11/04, 150pp. ,4Rx:19023-176,001: ,TN:GB03 3.2

8306290871 Testimony of BM Dunn on 830120 in New York, NY, Po 7,289-  
7,424.

DUNN, B.M. :Hobcock & Wilcox Co.  
DATE ISS:83/01/20, 130pp. ,4Rx:19041-313,001: ,TN:GB03 3.2

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8307260486 Testimony of F Fanland on 830117 in New York, NY, Pd 6,905-  
6,928.

FANLAND, F. :Babcock & Wilcox Co.  
DATE ISS:83/01/17, 24pp. ,4RX:19040=290,001: ,TN:GB03 3.2

8306290499 Testimony of ER Frederick on 821206 in New York, NY, Pd 3,216-  
3,377.

FREDERICK, E.R. :General Public Utilities - GPU Service Corp.  
DATE ISS:82/12/06, 161pp. ,4RX:19030=204,001: ,TN:GB03 3.1, 3.2

8306290502 Testimony of ER Frederick on 821207 in New York, NY, Pd 3,378-  
3,559.

FREDERICK, E.R. :General Public Utilities - GPU Service Corp.  
DATE ISS:82/12/07, 181pp. ,4RX:19031=004,001: ,TN:GB03 3.1

8306290541 Testimony of ER Frederick on 821208 in New York, NY, Pd 3,560-  
3,733.

FREDERICK, E.R. :General Public Utilities - GPU Service Corp.  
DATE ISS:82/12/08, 174pp. ,4RX:19031=186,001: ,TN:GB03 3.1, 3.2

8306290543 Testimony of ER Frederick on 821209 in New York, NY, Pd 3,734-  
3,906.

FREDERICK, E.R. :General Public Utilities - GPU Service Corp.  
DATE ISS:82/12/09, 172pp. ,4RX:19031=361,001: ,TN:GB03 3.1, 3.2

8306290560 Testimony of ER Frederick on 821213 in New York, NY, Pd 3,990-  
4085.

FREDERICK, E.R. :General Public Utilities - GPU Service Corp.  
DATE ISS:82/12/13, 97pp. ,4RX:19032=257,001: ,TN:GB03 3.1, 3.2



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NRC SPECIAL REPORT

8306290437 Testimony of DF Hallman on 821112 in New York, NY, Pd 1,267-1,337.

HALLMAN, D.F. :Babcock & Wilcox Co.

DATE ISS:82/11/12, 71pp. ,4RX:19025-183,00I: ,TN:GB03

3.2

8306290440 Testimony of DF Hallman on 821115 in New York, NY, Pd 1,338-1395.

HALLMAN, D.F. :Babcock & Wilcox Co.

DATE ISS:82/11/15, 68pp. ,4RX:19025-254,00I: ,TN:GB03

3.2

8307260362 Testimony of HJ Hartman on 830118 in New York, NY, Pd 7,007-7,095.

HARTMAN, H.J. :Metropolitan Edison Co.

DATE ISS:83/01/18, 89pp. ,4RX:19041-030,00I: ,TN:GB03

3.2

8306290631 Testimony of JH Holderness on 830103 in New York, NY, Pd 5,589-5,701.

HOLDERNESS, J.H. :EDS Nuclear, Inc.

DATE ISS:83/01/03, 113pp. ,4RX:19037-054,00I: ,TN:GB03

3.1

8307260429 Testimony of E Kane on 821214 in New York, NY, Pd 4,370-4,348.

KANE, E. :Babcock & Wilcox Co.

DATE ISS:82/12/14, 19pp. ,4RX:19033-276,00I: ,TN:GB03

3.2

8306290617 Testimony of E Kane on 821215 in New York, NY, Pd 4,389-4,414.

KANE, E. :Babcock & Wilcox Co.

DATE ISS:82/12/15, 27pp. ,4RX:19695-078,00I: ,TN:GB03

3.2

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NRC SPECIAL REPORT

8306290411 Testimony of J Kelly on 821105 in New York, NY. Pp 713-752.

KELLY, J. :Dabcock & Wilcox Co.  
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DATE ISS:82/11/05, 400p. ,4RX:19023-351,ODI: ,TN:GB03 3.2

8306290425 Testimony of RT Lahey on 821103 in New York, NY. Pp 362-397.

LAHEY, R.T. :Rensselaer Polytechnic Inst.  
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DATE ISS:82/11/03, 360p. ,4RX:19023-001,ODI: ,TN:GB03 IRRELEVANT

8306290586 Testimony of RT Lahey on 821217 in New York, NY.  
Pp 4,747-4,912.

LAHEY, R.T. :Rensselaer Polytechnic Inst.  
: |  
DATE ISS:82/12/17, 1660p. ,4RX:19034-292,ODI: ,TN:GB03 3.1, 3.2

8306290587 Testimony of RT Lahey on 821220 in New York, NY.  
Pp 4,914-5,102.

LAHEY, R.T. :Rensselaer Polytechnic Inst.  
: |  
DATE ISS:82/12/20, 1890p. ,4RX:19035-101,ODI: ,TN:GB03 3.1, 3.2

8306290634 Testimony of RJ Marzen on 830106 in New York, NY. Pp 6,082-  
6,232.

MARZEC, R.J. :Duke Power Co.  
: |  
DATE ISS:83/01/06, 1510p. ,4RX:19038-186,ODI: ,TN:GB03 3.2

8306290638 Testimony of RJ Marzen on 830107 in New York, NY. Pp 6,233-  
6,359.

MARZEC, R.J. :Duke Power Co.  
: |  
DATE ISS:83/01/07, 1270p. ,4RX:19038-337,ODI: ,TN:GB03 IRRELEVANT

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NRC SPECIAL REPORT

8307260150 Testimony of McBride on 821213 in New York, NY. Po 4,157-4178.  
MCBRIDE, A.F. :Babcock & Wilcox Co.  
DATE ISS:82/12/13, 2200. ,4RX:19033-062,001: ,TN:GB03 3.2

8306290430 Testimony of JP O'Hanlon on 821110 in New York, NY. Po 1,031-1,130.  
O'HANLON, J.P. :Institute of Nuclear Power Operations  
DATE ISS:82/11/10, 9900. ,4RX:19024-308,001: ,TN:GB03 3.2

8306290434 Testimony of JP O'Hanlon on 821111 in New York, NY. Po 1,131-1,183.  
O'HANLON, J.P. :Institute of Nuclear Power Operations  
DATE ISS:82/11/11, 5400. ,4RX:19025-046,001: ,TN:GB03 3.2

8307260427 Testimony of J Phinney on 821214 in New York, NY. Po 4,263-4,283.  
PHINNEY, J. :Babcock & Wilcox Co.  
DATE ISS:82/12/14, 2100. ,4RX:19033-169,001: ,TN:GB03 3.2

8307210407 Testimony of L Rogers on 821212. Po 5371-5446.  
ROGERS, L. :Babcock & Wilcox Co.  
DATE ISS:82/12/12, 7600. ,4RX:19695-001,001: ,TN:GB03 3.2

8306290624 Testimony of L Rogers on 821223 in New York, NY. Po 5,447-5,481.  
ROGERS, L. :Babcock & Wilcox Co.  
DATE ISS:82/12/23, 3600. ,4RX:19036-273,001: ,TN:GB03 3.2

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8307260420 Testimony of DH Roy on 821214 in New York, NY. Pd 4,284-4,351.

ROY, D.H. :Babcock & Wilcox Co.  
: :  
DATE ISS:82/12/14, 6800. ,4RX:19033-190,001: ,TN:G803 3.2

8306290575 Testimony of TF Scott on 821214 in New York, NY. Pd 4,179-4,217.

SCOTT, T.F. :Babcock & Wilcox Co.  
: :  
DATE ISS:82/12/14, 4000. ,4RX:19690-246,001: ,TN:G803 IRRELEVANT

8307260216 Testimony of Seelinger on 830107 in New York, NY. Pd 6,359-6,378.

SEELINGER, J. :United Technologies Corp.  
: :  
DATE ISS:83/01/07, 2000. ,4RX:19039-101,001: ,TN:G803 3.2

8307260575 Testimony of J Taylor on 821109 in New York, NY. Pd 964-1,030.

TAYLOR, J. :Babcock & Wilcox Co.  
: :  
DATE ISS:82/11/09, 6700. ,4RX:19024-241,001: ,TN:G803 3.2

8307260561 Testimony of J Taylor on 821111 in New York, NY. Pd 1,184-1,235.

TAYLOR, J. :Babcock & Wilcox Co.  
: :  
DATE ISS:82/11/11, 5100. ,4RX:19025-100,001: ,TN:G803 3.2

8306290648 Testimony of GB Wallis on 830113 in New York, NY. Pd 6,482-6,646.

WALLIS, G.B. :Dartmouth College  
: :  
DATE ISS:83/01/13, 16400. ,4RX:19039-224,001: ,TN:G803 3.2

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8306290652 Testimony of GB Wallis on 830114 in New York, NY. Pd 6,647-  
6,759.

WALLIS, G.B. :Dartmouth College

DATE ISS:83/01/14, 112pp. ,48X:19040-032,ODI: ,TN:GB03 3.2

8306290657 Testimony of GB Wallis on 830117 in New York, NY. Pd 6,760-  
6,928.

WALLIS, G.B. :Dartmouth College

DATE ISS:83/01/17, 146pp. ,48X:19040-145,ODI: ,TN:GB03 3.2

8306290441 Testimony of WH Zewe on 821118 in New York, NY.  
Pd 1,876-2,039.

ZEW, W.H. :General Public Utilities - GPU Service Corp.

DATE ISS:82/11/18, 163pp. ,48X:19027-069,ODI: ,TN:GB03 3.1

8306290452 Testimony of WH Zewe on 821122 in New York, NY. Pd 2,138-  
2,311.

ZEW, W.H. :General Public Utilities - GPU Service Corp.

DATE ISS:82/11/22, 173pp. ,48X:19027-311,ODI: ,TN:GB03 3.1, 3.2

8306290463 Testimony of WH Zewe on 821201 in New York, NY.  
Pd 2,924-3,040.

ZEW, W.H. :General Public Utilities - GPU Service Corp.

DATE ISS:82/12/01, 116pp. ,48X:19029-273,ODI: ,TN:GB03 3.1

8306290472 Testimony of WH Zewe on 821202 in New York, NY. Pd 3,041-  
3,180.

ZEW, W.H. :General Public Utilities - GPU Service Corp.

DATE ISS:82/12/02, 140pp. ,48X:19030-029,ODI: ,TN:GB03 3.1

003037 RECORDS SCANNED 42 RECORDS PRINTED ( 16 RECORDS, 26 SUPP.)  
ENDING CODE= 186 LAST KEY= ZODIACO, V.P. 790511GB07

CATEGORY 3  
DEPOSITIONS



U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307120911 Deposition of JD Agar on 820422 in New York, NY. Pp 1-121.

AGAR, J. D. : Babcock & Wilcox Co.

DATE ISS: 82/04/22, 122pp. , 48X: 19512-066, ODI: GPU 6010 , TN: GB03 IRRELEVANT

8307110145 Deposition of RC Arnold on 820629 in New York, NY. Pp 1-287.

ARNOLD, R. C. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/06/29, 289pp. , 48X: 19489-024, ODI: , TN: GB03 IRRELEVANT

8307120726 Continued deposition of RC Arnold on 820701 in New York, NY.  
Pp 288-471.

ARNOLD, R. C. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/07/01, 184pp. , 48X: 19465-070, ODI: , TN: GB03 3.2

8306290855 Deposition of G Billingsley on 820218 in New York, N. Y.  
Pp 1-157.

BILLINGSLEY, G. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/02/18, 159pp. , 48X: 19058-087, ODI: , TN: GB03 3.2

8306290859 Deposition of G Billingsley on 820219 in New York, N. Y.  
Pp 158-331.

BILLINGSLEY, G. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/02/19, 173pp. , 48X: 19058-246, ODI: , TN: GB03 IRRELEVANT

8306290862 Deposition of G Billingsley on 820225 in New York, N. Y.  
Pp 332-413.

BILLINGSLEY, G. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/02/25, 81pp. , 48X: 19059-058, ODI: , TN: GB03 IRRELEVANT

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8306290863 Deposition of TG Broughton on B20202 in New York, NY. Pp  
1-154

BROUGHTON, G. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/02/02, 154pp, .48X: 19059-140, ODI: , TN: GB03 3.2

8306290843 Deposition of G Broughton on B20204 in New York, NY. Pp  
298-399

BROUGHTON, G. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/02/04, 110pp, .48X: 19060-251, ODI: , TN: GB03 3.1, 3.2

8306290879 Deposition of TG Broughton on B20205 in New York, NY.  
Pp 400-551.

BROUGHTON, T. G. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/02/05, 151pp, .48X: 19060-098, ODI: , TN: GB03 3.1, 3.2

8306290872 Deposition of TG Broughton on B20209 in New York, NY.  
Pp 553-714.

BROUGHTON, T. G. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/02/09, 163pp, .48X: 19059-293, ODI: , TN: GB03 3.1, 3.2

8306290826 Deposition of ND Brown on B10721 in New York, N. Y. Pp 601-710.

BROWN, N. D. : Metropolitan Edison Co.

DATE ISS: 81/07/21, 111pp, .48X: 19061-237, ODI: , TN: GB03 IRRELEVANT

8306290959 Deposition of JD Carlton on B20128 in New York, NY. Pp 1-B1.

CARLTON, J. D. : Babcock & Wilcox Co.

DATE ISS: 82/01/28, 85pp, .48X: 19063-302, ODI: , TN: GB03 3.2

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8306290934 Deposition of AJ Dominguez on 820817 in New York. Pp 1-120.

DOMINGUEZ, A. J. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/08/17, 122pp. , 48X: 19065-133, ODI: , TN: 6803 3.2

8306290929 Deposition of BM Dunn on 810319 in New York, NY. Pp 390-499.

DUNN, B. M. : Babcock & Wilcox Co.

DATE ISS: 81/03/19, 114pp. , 48X: 19066-289, ODI: , TN: 6803 3.1

8306290953 Deposition of BM Dunn on 810323 in New York, NY. Pp 603-725.

DUNN, B. M. : Babcock & Wilcox Co.

DATE ISS: 81/03/23, 122pp. , 48X: 19068-070, ODI: , TN: 6803 3.2

8306290704 Deposition of F Faist on 820323 in New York, NY. Pp 1-137.  
Supporting documentation encl.

FAIST, F. : Babcock & Wilcox Co.

DATE ISS: 82/03/23, 148pp. , 48X: 19072-052, ODI: , TN: 6803 3.2

8306290713 Deposition of CC Faust on 810819 in New York, NY. Pp 129-412.

FAUST, C. C. : Metropolitan Edison Co.

DATE ISS: 81/08/19, 2E /pp. , 48X: 19072-331, ODI: , TN: 6803 3.2

8307060447 Deposition of CC Faust on 810820 in New York, NY. Pp 276-412.

FAUST, C. C. : Metropolitan Edison Co.

DATE ISS: 81/08/20, 136pp. , 48X: 19301-291, ODI: , TN: 6803 3.1

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NRC SPECIAL REPORT

8306290703 Deposition of CC Faust on B10924 in New York, NY. Pp 569-712.

FAUST, C. C. : Metropolitan Edison Co.  
DATE ISS: 81/09/24, 143pp. , 48X: 19074-068, ODI: , TN: GB03 3.1, 3.2

8306290705 Deposition of CC Faust on B10925 in B10925. Pp 713-898.

FAUST, C. C. : Metropolitan Edison Co.  
DATE ISS: 81/09/25, 185pp. , 48X: 19074-212, ODI: , TN: GB03 IRRELEVANT

8306290727 Deposition of JR Floyd on B20219 in New York, NY. Pp 160-293.  
Supporting documentation encl.

FLOYD, J. R. : Metropolitan Edison Co.  
DATE ISS: 82/02/19, 134pp. , 48X: 19076-241, ODI: , TN: GB03 IRRELEVANT

8306290733 Deposition of JR Floyd on B20428 in New York, NY. Pp 294-422.

FLOYD, J. R. : Metropolitan Edison Co.  
DATE ISS: 82/04/28, 128pp. , 48X: 19077-014, ODI: , TN: GB03 3.2

8306290736 Deposition of JR Floyd on B20429 in New York, NY. Pp 433-538.

FLOYD, J. R. : Metropolitan Edison Co.  
DATE ISS: 82/04/29, 105pp. , 48X: 19077-144, ODI: , TN: GB03 3.2

8306290717 Deposition of ER Frederick on B20503 in New York, NY.  
Pp 129-281.

FREDERICK, E. R. : Metropolitan Edison Co.  
DATE ISS: 82/05/05, 152pp. , 48X: 19078-116, ODI: , TN: GB03 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8306290719 Deposition of ER Frederick on B20506 in New York, NY. Pp  
282-420.

FREDERICK, E. R. Metropolitan Edison Co.

DATE ISS: 82/05/06, 138pp, .48X: 19078-269, ODI: , TN: 6803 3.2

8306290720 Deposition of ER Frederick on B20507 in New York, NY.  
Pp 421-563.

FREDERICK, E. R. Metropolitan Edison Co.

DATE ISS: 82/05/07, 142pp, .48X: 19079-049, ODI: , TN: 6803 3.2

8306290769 Deposition of ER Frederick on B20510 in New York, NY.  
Pp 564-684.

FREDERICK, E. R. Metropolitan Edison Co.

DATE ISS: 82/05/10, 120pp, .48X: 19079-193, ODI: , TN: 6803 3.1, 3.2

8307110113 Deposition of ER Frederick on B20511 in New York, NY. Pp 685-  
774.

FREDERICK, E. R. Metropolitan Edison Co.

DATE ISS: 82/05/11, 90pp, .48X: 19488-181, ODI: , TN: 6803 3.1

8306290780 Deposition of ER Frederick on B20512 in New York, NY.  
Pp 775-883.

FREDERICK, E. R. Metropolitan Edison Co.

DATE ISS: 82/05/12, 108pp, .48X: 19080-042, ODI: , TN: 6803 3.1

8306290804 Deposition of JW Garrison on B20609 in New York, NY. Pp 1-  
124. Prof qualifications encl.

GARRISON, J. W. General Public Utilities - GPU Service Corp.

DATE ISS: 82/06/09, 126pp, .48X: 19080-250, ODI: , TN: 6803 3.2

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NRC SPECIAL REPORT

8306290823 Deposition of C Goslow on 820108 in New York, NY. Pp 154-306.

GOSLOW, C. : Babcock & Wilcox Co.  
DATE ISS: 82/01/08, 153pp. , 48X: 19082-338, ODI: , TN: 6B03 3.2

8306290833 Deposition of CE Goslow on 820617 in New York, NY. Pp 431-565.

GOSLOW, C. E. : Babcock & Wilcox Co.  
DATE ISS: 82/06/17, 135pp. , 48X: 19083-254, ODI: , TN: 6B03 3.2

8306290712 Deposition of DF Hallman on 820118 in New York, NY. Pp 1-82.

HALLMAN, D. F. : Babcock & Wilcox Co.  
DATE ISS: 82/01/18, 82pp. , 48X: 19084-344, ODI: , TN: 6B03 3.2

8306290716 Deposition of DF Hallman on 820119 in New York, NY. Pp 83-209.

HALLMAN, D. F. : Babcock & Wilcox Co.  
DATE ISS: 82/01/19, 128pp. , 48X: 19085-064, ODI: , TN: 6B03 3.2

8306290752 Deposition of DF Hallman on 820122 in New York, NY. Pp 455-547.

HALLMAN, D. F. : Babcock & Wilcox Co.  
DATE ISS: 82/01/22, 89pp. , 48X: 19086-079, ODI: , TN: 6B03 IRRELEVANT

8306290745 Deposition of DF Hallman on 820615 in New York, NY. Pp 549-587.

HALLMAN, D. F. : Babcock & Wilcox Co.  
DATE ISS: 82/06/15, 139pp. , 48X: 19086-168, ODI: , TN: 6B03 3.2



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8306290741 Deposition of DF Hallman on 820616 in New York, NY. Pp 683-  
638.

HALLMAN, D. F. : Babcock & Wilcox Co.

DATE ISS: 82/06/16, 151pp. , 48X: 19086-307, ODI: , TN: 6803

3.2

8306290898 Deposition of RS Harbin on 810707 in New York, NY. Pp 1-146.

HARBIN, R. S. : Metropolitan Edison Co.

DATE ISS: 81/07/07, 146pp. , 48X: 19087-095, ODI: , TN: 6803

IRRELEVANT

8306290893 Deposition of RS Harbin on 810708 in New York, NY. Pp 147-295.

HARBIN, R. S. : Metropolitan Edison Co.

DATE ISS: 81/07/08, 149pp. , 48X: 19087-241, ODI: , TN: 6803

IRRELEVANT

8306290888 Deposition of RS Harbin on 810709 in New York, NY. Pp 296-403.

HARBIN, R. S. : Metropolitan Edison Co.

DATE ISS: 81/07/09, 108pp. , 48X: 19088-027, ODI: , TN: 6803

IRRELEVANT

8306290882 Deposition of RS Harbin on 810710 in New York, NY. Pp 404-483.

HARBIN, R. S. : Metropolitan Edison Co.

DATE ISS: 81/07/10, 80pp. , 48X: 19088-135, ODI: , TN: 6803

IRRELEVANT

8306290875 Deposition of RS Harbin on 811001 in New York, NY. Pp 484-558.  
Supporting documentation encl.

HARBIN, R. S. : Metropolitan Edison Co.

DATE ISS: 81/10/01, 84pp. , 48X: 19088-215, ODI: , TN: 6803

IRRELEVANT

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8306290881 Deposition of JG Herbein on 820630 in New York, N. Y. Pp 1-184.

HERBEIN, J. G. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/06/30, 187pp. , 4BX: 19089-227, ODI: , TN: GB03 3.2

8306290887 Deposition of JG Herbein on 820701 in New York, N. Y.  
Pp 185-294.

HERBEIN, J. G. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/07/01, 110pp. , 4BX: 19090-051, ODI: , TN: GB03 3.2

8306290892 Deposition of JG Herbein on 820702 in New York, N. Y.  
Pp 295-395.

HERBEIN, J. G. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/07/02, 124pp. , 4BX: 19090-161, ODI: , TN: GB03 IRRELEVANT

8307270534 Continued deposition of RC Jones on 810702 in New York, NY.  
Pp 278-358.

JONES, R. C. : Babcock & Wilcox Co.

DATE ISS: 81/07/02, 81pp. , 4BX: 19788-084, ODI: , TN: GB03 IRRELEVANT

8306290693 Deposition of ER Kane on 811215 in New York, NY. Pp 1-130.

KANE, E. R. : Babcock & Wilcox Co.

DATE ISS: 81/12/15, 131pp. , 4BX: 19092-245, ODI: , TN: GB03 3.2

8306290697 Deposition of ER Kane on 811216 in New York, NY. Pp 131-250.

KANE, E. R. : Babcock & Wilcox Co.

DATE ISS: 81/12/16, 120pp. , 4BX: 19093-013, ODI: , TN: GB03 3.2

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8306290698 Deposition of ER Kane on B11217 in New York, NY. Pp 252-373.

KANE, E. R. : Babcock & Wilcox Co.

DATE ISS: 81/12/17, 122pp. , 48X: 19093-134, ODI: , TN: GB03 3.2

8306290700 Deposition of ER Kane on B11218 in New York, NY. Pp 376-430.

KANE, E. R. : Babcock & Wilcox Co.

DATE ISS: 81/12/18, 66pp. , 48X: 19093-257, ODI: , TN: GB03 3.2

8306290983 Deposition of BA Karrasch on B10618 in New York, NY.  
Pp 220-324.

KARRASCH, B. A. : Babcock & Wilcox Co.

DATE ISS: 81/06/18, 104pp. , 48X: 19094-170, ODI: , TN: GB03 3.2

8306290987 Deposition of BA Karrasch on B10619 in New York, NY.  
Pp 325-398.

KARRASCH, B. A. : Babcock & Wilcox Co.

DATE ISS: 81/06/19, 74pp. , 48X: 19094-276, ODI: , TN: GB03 3.2

8306290990 Deposition of BA Karrasch on B10929 in New York, NY.  
Pp 399-493.

KARRASCH, B. A. : Babcock & Wilcox Co.

DATE ISS: 81/09/29, 104pp. , 48X: 19094-353, ODI: , TN: GB03 3.2

8306290993 Deposition of BA Karrasch on B10930 in New York, NY.  
Pp 494-594.

KARRASCH, B. A. : Babcock & Wilcox Co.

DATE ISS: 81/09/30, 101pp. , 48X: 19095-086, ODI: , TN: GB03 IRRELEVANT

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8306290986 Deposition of RW Keaten on B20106 in New York, NY.  
Pp 202-344.

KEATEN, R. : General Public Utilities - GPU Service Corp.  
DATE ISS: 82/01/06, 143pp. , 48X: 19096-030, ODI: , TN: GB03 3.2

8306290900 Deposition of R Keaten on B20108 in New York, NY. Pp 488-626.

KEATEN, R. : General Public Utilities - GPU Service Corp.  
DATE ISS: 82/01/08, 137pp. , 48X: 19096-317, ODI: , TN: GB03 3.2

8306290907 Deposition of R Keaten on B20119 in New York, NY. Pp 628-764.  
Index of exhibits encl.

KEATEN, R. : General Public Utilities - GPU Service Corp.  
DATE ISS: 82/01/19, 137pp. , 48X: 19097-093, ODI: , TN: GB03 3.2

8306290913 Deposition of R Keaten on B20120 in New York, NY. Pp 765-904.  
Index of exhibits encl.

KEATEN, R. : General Public Utilities - GPU Service Corp.  
DATE ISS: 82/01/20, 140pp. , 48X: 19097-230, ODI: , TN: GB03 IRRELEVANT

8306290908 Deposition of JJ Kelly on B10504 in New York, N. Y. Pp 1-169.

KELLY, J. J. : Babcock & Wilcox Co.  
DATE ISS: 81/05/04, 169pp. , 48X: 19098-161, ODI: , TN: GB03 3.2

8306290915 Deposition of JJ Kelly on B10505 in New York, N. Y. Pp 170-314.

KELLY, J. J. : Babcock & Wilcox Co.  
DATE ISS: 81/05/05, 145pp. , 48X: 19098-331, ODI: , TN: GB03 3.2

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8306290905 Deposition of RK Kennedy on 820127 in New York, NY. Pp 1-102.

KENNEDY, R. K. : Babcock & Wilcox Co.

DATE ISS: 82/01/27, 102pp. , 48X: 19100-001, ODI: , TN: CB03 3.2

8306290802 Deposition of G Kunder on 820702 in New York, NY. Pp 43B-610.

KUNDER, G. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/07/02, 163pp. , 48X: 19103-205, ODI: , TN: CB03 3.1

8306290782 Deposition of DW LaBelle on 810603 in New York, NY.  
Pp 129-251A.

LABELLE, D. W. : Babcock & Wilcox Co.

DATE ISS: 81/06/03, 124pp. , 48X: 19104-144, ODI: , TN: CB03 3.2

8306290836 Deposition of LC Lanese on 820324 in New York, NY. Pp 1-12B.

LANESE, L. C. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/03/24, 128pp. , 48X: 19125-001, ODI: , TN: CB03 IRRELEVANT

8306290827 Deposition of LC Lanese on 820325 in New York, NY. Pp 129-302.

LANESE, L. C. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/03/25, 174pp. , 48X: 19125-129, ODI: , TN: CB03 3.2

8306290817 Deposition of LC Lanese on 820326 in New York, NY. Pp 303-40B.

LANESE, L. C. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/03/26, 169pp. , 48X: 19125-304, ODI: , TN: CB03 IRRELEVANT

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8306290812 Deposition of LC Lanese on B20419 in New York, NY. Pp 469-576.

LANESE, L. C. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/04/19, 129pp, .48X: 19126-113, ODI: , TN: GB03 3.2

8306290787 Deposition of RL Long on B20520 in New York, NY. Pp 313-417.

LONG, R. L. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/05/20, 104pp, .48X: 19695-131, ODI: , TN: GB03 IRRELEVANT

8306290825 Deposition of BA Mehler on B10728 in New York, NY. Pp 1-172.

MEHLER, B. A. : Metropolitan Edison Co.

DATE ISS: 81/07/28, 172pp, .48X: 19131-031, ODI: , TN: GB03 IRRELEVANT

8306290799 Deposition of BA Mehler on B10729 in New York, NY. Pp 174-363.

MEHLER, B. A. : Metropolitan Edison Co.

DATE ISS: 81/07/29, 189pp, .48X: 19131-205, ODI: , TN: GB03 IRRELEVANT

8306290806 Deposition of BA Mehler on B10730 in New York, NY. Pp 364-679.

MEHLER, B. A. : Metropolitan Edison Co.

DATE ISS: 81/07/30, 315pp, .48X: 19132-034, ODI: , TN: GB03 IRRELEVANT

8307110121 Deposition of BA Mehler on B10731 in New York, NY. Pp 565-679.

MEHLER, B. A. : Metropolitan Edison Co.

DATE ISS: 81/07/31, 115pp, .48X: 19488-271, ODI: , TN: GB03 IRRELEVANT



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8306290845 Deposition of GP Miller on B20604 in New York, NY. Pp 274-395.

MILLER, G. P. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/06/04, 122pp, , 48X: 19135-072, ODI: , TN: GB03

IRRELEVANT

8306290897 Deposition of GP Miller on B20608 in New York, NY. Pp 474-600.

MILLER, G. P. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/06/08, 127pp, , 48X: 19135-273, ODI: , TN: GB03

3.2

8306290906 Deposition of GP Miller on B20609 in New York, NY. Pp 601-726.

MILLER, G. P. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/06/09, 126pp, , 48X: 19136-038, ODI: , TN: GB03

3.2

8306290914 Deposition of GP Miller on B20610 in New York, NY. Pp 727-873.

MILLER, G. P. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/06/10, 147pp, , 48X: 19136-164, ODI: , TN: GB03

3.1, 3.2

8306290922 Deposition of GP Miller on B20611 in New York, NY. Pp 874-1,055.

MILLER, G. P. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/06/11, 192pp, , 48X: 19136-312, ODI: , TN: GB03

3.1

8306290880 Deposition of TD Murray on B20128 in Toledo, OH. Pp 1-165.

MURRAY, T. D. : Toledo Edison Co.

DATE ISS: 82/01/28, 167pp, , 48X: 19137-143, ODI: , TN: GB03

3.2

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8306290856 Deposition of JD Phinney on B20113 in New York, NY. Pp 1-134.

PHINNEY, J. D. : Babcock & Wilcox Co.

DATE ISS: 82/01/13, 134pp, , 48X: 19138-154, ODI: , TN: GB03 3.2

8306290846 Deposition of RL Pittman on B20628 in New York, NY. Pp 1-142.

PITTMAN, R. L. : Babcock & Wilcox Co.

DATE ISS: 82/06/28, 142pp, , 48X: 19139-061, ODI: , TN: GB03 3.2

8306290909 Deposition of WE Potts on B20107 in New York, NY. Pp 1-176.

POTTS, W. E. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/01/07, 176pp, , 48X: 19139-203, ODI: , TN: GB03 3.2

8306290927 Deposition of WE Potts on B20108 in New York, NY. Pp 177-251.

POTTS, W. E. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/01/08, 77pp, , 48X: 19140-018, ODI: , TN: GB03 3.2

8306290957 Deposition of FJ Scheimann on B20226 in New York, NY. Pp 283-379.

SCHEIMANN, F. J. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/02/26, 112pp, , 48X: 19144-161, ODI: , TN: GB03 3.2

8306290884 Deposition of FJ Scheimann on B20608 in New York, NY. Pp 888-979.

SCHEIMANN, F. J. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/06/08, 112pp, , 48X: 19146-032, ODI: , TN: GB03 3.2

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8306290941 Deposition of JL Seelinger on 811021 in Palm Beach, FL. Pp  
249-413.

SEELINGER, J. L. : United Technologies Corp.

DATE ISS: 81/10/21, 165pp. , 48X: 19147-201. ODI: , TN: 6B03

IRRELEVANT

8306290937 Deposition of JL Seelinger on 811022 in Palm Beach, FL. Pp  
414-539.

SEELINGER, J. L. : United Technologies Corp.

DATE ISS: 81/10/22, 126pp. , 48X: 19148-003. ODI: , TN: 6B03

3.2

8306290932 Deposition of JL Seelinger on 811023 in Palm Beach, FL. Pp  
540-609.

SEELINGER, J. L. : United Technologies Corp.

DATE ISS: 81/10/23, 74pp. , 48X: 19148-129. ODI: , TN: 6B03

IRRELEVANT

8306290874 Deposition of E Swanson on 820722 in New York, NY. Pp 1-306.

SWANSON, E. : Babcock & Wilcox Co.

DATE ISS: 82/07/22, 162pp. , 48X: 19149-331. ODI: , TN: 6B03

3.2

8306290820 Deposition of RJ Toole on 810622 in New York, NY.  
Pp 1-277.

TOOLE, R. J. : General Public Utilities -- GPU Service Corp.

DATE ISS: 81/06/22, 279pp. , 48X: 19152-065. ODI: , TN: 6B03

3.2

8306290824 Deposition of RJ Toole on 810623 in New York, NY. Pp 280-506.

TOOLE, R. J. : General Public Utilities -- GPU Service Corp.

DATE ISS: 81/06/23, 226pp. , 48X: 19152-345. ODI: , TN: 6B03

3.2

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8306290829 Deposition of RJ Toole on B10706 in New York, NY. Pp 507-726.

TOOLE, R. J. : General Public Utilities - GPU Service Corp.

DATE ISS: 81/07/06, 219pp, , 48X: 19153-208, ODI: , TN: 6B03

IRRELEVANT

8306290798 Deposition of RJ Toole on B10707 in New York, NY. Pp 727-909.

TOOLE, R. J. : General Public Utilities - GPU Service Corp.

DATE ISS: 81/07/07, 182pp, , 48X: 19150-133, ODI: , TN: 6B03

3.2

8306290791 Deposition of RJ Toole on B10708 in New York, NY. Pp  
910-1,070.

TOOLE, R. J. : General Public Utilities - GPU Service Corp.

DATE ISS: 81/07/08, 160pp, , 48X: 19150-316, ODI: , TN: 6B03

3.2

8306290840 Deposition of JF Walters on B10414 in New York, NY.  
Pp 164-289.

WALTERS, J. F. : Babcock & Wilcox Co.

DATE ISS: 81/04/14, 125pp, , 48X: 19156-059, ODI: , TN: 6B03

3.2

8306290849 Deposition of JF Walters on B10415 in New York, NY.  
Pp 290-435.

WALTERS, J. F. : Babcock & Wilcox Co.

DATE ISS: 81/04/15, 145pp, , 48X: 19156-185, ODI: , TN: 6B03

3.2

8306290854 Deposition of JF Walters on B10416 in New York, NY.  
Pp 436-550.

WALTERS, J. F. : Babcock & Wilcox Co.

DATE ISS: 81/04/16, 114pp, , 48X: 19156-332, ODI: , TN: 6B03

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8306290765 Deposition of EA Womack on G01208 in New York, NY.  
Pp 1-104.

WOMACK, E. A. : Babcock & Wilcox Co.

DATE ISS: 80/12/08, 188pp. , 48X: 19160-254, ODI: , TN: G803 IRRELEVANT

8306290788 Deposition of RW Zechman on B20312 in New York, NY.  
Pp 273-376.

ZECHMAN, R. W. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/03/12, 103pp. , 48X: 19164-033, ODI: , TN: G803 IRRELEVANT

8306290794 Deposition of RW Zechman on B20324 in New York, NY.  
Pp 377-523.

ZECHMAN, R. W. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/03/24, 146pp. , 48X: 19164-137, ODI: , TN: G803 IRRELEVANT

8306290801 Deposition of RW Zechman on B20325 in New York, NY.  
Pp 524-640.

ZECHMAN, R. W. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/03/25, 116pp. , 48X: 19164-286, ODI: , TN: G803 3.2

8306290770 Deposition of W Zewe on B20524 in New York, NY. Pp 249-350.

ZEWE, W. H. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/05/24, 101pp. , 48X: 19166-207, ODI: , TN: G803 3.2

8306290746 Deposition of WH Zewe on B20525 in New York, NY. Pp 351-479.

ZEWE, W. H. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/05/25, 128pp. , 48X: 19166-310, ODI: , TN: G803 3.2

000635 RECORDS SCANNED 102 RECORDS PRINTED ( 28 RECORDS, 74 SUPP. )  
ENDING CODE- 186 LAST KEY- ZEWE, W. H. 8205280807

CATEGORY 3

EXHIBITS



U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307020022 Discusses incorporation of Unit 1 & other operating  
experience into Unit 2 training effort.

SEELINGER, J. :Metropolitan Edison Co.  
TSAGGARIS, L. :Metropolitan Edison Co.  
DATE ISS:77/04/06, 1p. ,48x:19208-296,ODI:B&W 0072 ,TN:GB03 IRRELEVANT

8307020025 Advises that min 1 h training program being prepared to  
cover industry experience, Unit 1 experience & ROs from  
similar units, per J Seelinger 770406 request.

GOODMAN, D. A. :Metropolitan Edison Co.  
TSAGGARIS, A. :Metropolitan Edison Co.  
DATE ISS:77/04/12, 1p. ,48x:19208-297,ODI:B&W 0073 ,TN:GB03 IRRELEVANT

8307020027 Discusses dissemination of generic info to licensees by IE  
bulletins, circulars & info notices.

\* :Metropolitan Edison Co.  
:   
DATE ISS:81/06/11, 3pp. ,48x:19208-298,ODI:B&W 0075 ,TN:GB03 IRRELEVANT

8307020031 Comments on NRR status re: re feedwater transients in B&W  
plants.

BROWN, N. D. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:81/06/11, 1p. ,48x:19208-305,ODI:B&W 0077 ,TN:GB03 IRRELEVANT

8307020034 Discusses results of QC audit of ANSI Std 18.1 requirements,  
notification of operator exam failure, receipt of info on  
transients at other B&W plants, industry comparison re NRC  
exams & NRC grading of exams.

BROWN, N. P. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:81/06/11, 3pp. ,48x:19208-166,ODI:B&W 0078 ,TN:GB03 IRRELEVANT

8307020037 "R Trip/Engineered Safeguards Incident, 780423."

\* :Babcock & Wilcox Co.  
:   
DATE ISS:81/06/12, 89pp. ,48x:19208-169,ODI:B&W 0079 ,TN:GB03 3.2

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

- 8307020039 LER 78-033/01T-0: on 780423, reactor tripped, causing excessive RCS & pressurizer cooldown rates & pressurizer vol fell below Tech Spec limits. Caused by relief valves failing to reset & failing to feed steam generators.  
LEMPER, F. : Metropolitan Edison Co.  
DATE ISS: 78/05/31, 2pp. , 48x: 19209-120, ODI: B&W 0080 , TN: GB03 3.2
- 8307020053 Discusses addl analysis of plant behavior during loss of load & reactor trip transients, performed in response to questions raised at 830203 meeting w/NRC. Proposed draft ltr to B&W encl.  
FINK, R.T. : MPR Associates, Inc.  
FRITZEN, J. : Metropolitan Edison Co.  
DATE ISS: 75/03/12, 14pp. , 48x: 19209-085, ODI: B&W 0156 , TN: GB03 3.2
- 8307020067 "Technical Staff Analysis Rept on Pilot-Operated Relief Valve (PORV) Design & Performance to President's Commission on Accident at TMI."  
\* : NRC - No Detailed Affiliation Given  
DATE ISS: 79/10/31, 4pp. , 48x: 19209-189, ODI: B&W 0160 , TN: GB03 IRRELEVANT
- 8307110014 "Current Events Power Reactors, Operator Error," 770901-1031.  
\* : Commissioners  
DATE ISS: 77/12/31, 4pp. , 48x: 19477-001, ODI: B&W 0161 , TN: GB03 3.2
- 8307110015 "Current Events Power Reactors, Cracks Discovered in Collet Housing of Control Rod Drives," Aug-Sept 1975.  
\* : Commissioners  
DATE ISS: 75/09/30, 10pp. , 48x: 19477-005, ODI: B&W 0162 , TN: GB03 3.2
- 8307020069 Discusses failure of Consolidated 5 inch - 1525 Veland electromagnetic relief valve at Oyster Creek & potential for failure at TMI. Failure partially due to marginal soldering. w/730914 memo to JP Moore re relief valve failure.  
\* : Jersey Central Power & Light Co.  
WRIGHT, J.E. : General Public Utilities - GPU Service Corp.  
DATE ISS: 73/09/27, 3pp. , 48x: 19209-193, ODI: B&W 0163 , TN: GB03 3.2

U. S. NUCLEAR REGULATORY COMMISSION  
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8307020076 Forwards portions of licensee startup shift test engineer  
Log books 1 & 2, in response to 791221 request re L. Rogers  
testimony.

TRAVIESO-DIAZ :Shaw, Pittman, Potts & Trowbridge  
ASSELSTINE, J.K.:Senate, Environment & Public works  
DATE ISS:80/01/09, 10pp. ,48x:19209-281,001:8&N 0168 ,TN:GB03 3.2

8307020080 Requests info re development & mitigation of reactor  
pressure vessel steam supply event during Sept 1977 hot  
functional testing at TMI-2.

UDALL, M.K. :House of Rep., Interior & Insular Affairs  
HENDRIE, J. :Commissioners  
DATE ISS:81/05/07, 3pp. ,48x:19209-141,001:8&N 0169 ,TN:GB03 3.2

8307020094 "Accident Transient Modeling Analysis."

BROUGHTON, T.G. :General Public utilities - GPU Service Corp.  
1  
DATE ISS:79/08/11, 187pp. ,48x:19209-293,001:8&N 0171 ,TN:GB03 3.1

8307110034 Advises that review of Current Events - Power Reactors dtd  
770901-1001 has been completed & no action required.

OTOOLE, R.J. :General Public utilities - GPU Service Corp.  
:Metropolitan Edison Co.  
DATE ISS:78/01/15, 13pp. ,48x:19477-027,001:8&N 0172 ,TN:GB03 3.2

8307050350 LER 78-021/03L-01 on 780329, while operating in Mode 2,  
120-volt ac vital bus 2-1V became deenergized. Caused by SFAS  
testing tripping 480-volt alternate source feeder breaker.  
Power restored by manually closing alternate source feeder.

MILLER, G.P. :General Public utilities - GPU Service Corp.  
1  
DATE ISS:78/04/12, 2pp. ,48x:19323-075,001:8&N 0180 ,TN:GB03 3.2

8307110711 LER 78-021/03L-01 on 780414, vital bus 2-1C became  
deenergized. Caused by alternate source tripping during  
SFAS testing. Faulty inverter control module & fuse replaced.

LEVIGEL, R.A. :Metropolitan Edison Co.  
1  
DATE ISS:78/04/14, 3pp. ,48x:19477-076,001:8&N 0181 ,TN:GB03 3.2

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8307050354 Forwards LER 78-021/03L=0.

HERBEIN, J.G. : General Public Utilities - GPU Service Corp.  
GRIER, B.H. : Region 1, Philadelphia, Office of the Director  
DATE ISS: 78/05/01, 1p. , 48x: 19323-077, ODI: B&W 0182 , TN: GB03 3.2

8307050372 LER 78-022/99x: on 780329, ECCS activated & injected water into RCS due to RC=R2 opening when vital bus 2=1V deenergized. Alternate source 480-volt ac supply breaker closed.

MILLER, G.P. : General Public Utilities - GPU Service Corp.  
DATE ISS: 78/04/14, 1p. , 48x: 19323-081, ODI: B&W 0183 , TN: GB03 3.2

8307110041 Forwards Unit 2 plant operations review committee input for special rept required by Tech Spec 3.5.2 for ECCS actuation that occurred on 780329.

SEELINGER, J.L. : Metropolitan Edison Co.  
TROPPER, G.J. : Metropolitan Edison Co.  
DATE ISS: 78/06/12, 5pp. , 48x: 19477-040, ODI: B&W 0184 , TN: GB03 3.2

8307050380 "TMI Reactor Trip Rept." Illegible.

\* : General Public Utilities - GPU Service Corp.  
DATE ISS: 78/03/29, 1p. , 48x: 19323-082, ODI: B&W 0185 , TN: GB03 3.2

8307110046 "TMI-2 Transient on 780423: Task Force Rept."

\* : General Public Utilities - GPU Service Corp.  
DATE ISS: 78/08/10, 170pp. , 48x: 19477-049, ODI: B&W 0186 , TN: GB03 3.2

8307050401 Summary of investigative committee 780428 meeting re TMI-2 reactor trip event on 780423.

\* : General Public Utilities - GPU Service Corp.  
: General Public Utilities - GPU Service Corp.  
DATE ISS: 78/04/28, 3pp. , 48x: 19323-084, ODI: B&W 0187 , TN: GB03 3.2

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8307050409 "RETRAN Analyses of Rapid Cooldown Transient TMI-2."

BROUGHTON, T.G. : General Public Utilities - GPU Service Corp.

DATE ISS: 78/10/13, 204pp., 48x:19323-087, OOI: B&W 0188 , TN: G803 3.2

8307110052 Forwards rept on 781107 reactor trip at TMI-2.

HILBISH, J.F. : Metropolitan Edison Co.

MILLER, G.P. : Metropolitan Edison Co.

DATE ISS: 78/11/16, 400p., 48x:19477-219, OOI: B&W 0191 , TN: G803 3.2

8307050433 Rev 1 to "Review & Analysis of 781107 Partial Loss of Feedwater, Scram & ES Trip."

BROUGHTON, T.G. : General Public Utilities - GPU Service Corp.

DATE ISS: 78/11/21, 250p., 48x:19323-338, OOI: B&W 0192 , TN: G803 3.2

8307050439 Forwards LER 78-065/99x-0.

HERBEIN, J.G. : General Public Utilities - GPU Service Corp.

GRIER, B.M. : Region 1, Philadelphia, Office of the Director

DATE ISS: 79/01/30, 1p., 48x:19324-003, OOI: B&W 0193 , TN: G803 3.2

8307050451 Forwards LER 78-069/99x-0.

HERBEIN, J.G. : General Public Utilities - GPU Service Corp.

GRIER, B.M. : Region 1, Philadelphia, Office of the Director

DATE ISS: 79/02/28, 1p., 48x:19324-007, OOI: B&W 0194 , TN: G803 3.2

8307050486 Informs of incident that occurred during oneoperational testing of nuclear power plant w/B&W NSSS. On 761015, containment emergency sump isolation valves inadvertently opened allowing water to drain into containment bldg.

JANIS, J.T. : Babcock & Wilcox Co.

KLINGMAN, R.M. : General Public Utilities - GPU Service Corp.

DATE ISS: 77/05/20, 20p., 48x:19324-014, OOI: B&W 0204 , TN: G803

IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
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8307050491 Forwards summary of B&W Users Group 790627-28 meetings.

SEELINGER, J.L. :Babcock & Wilcox Co.  
ROSS, M. :Babcock & Wilcox Co.  
DATE ISS:79/08/21, 17pp. ,48x:19324-016,001:B&W 0205 ,TN:GB03 3.1

8307050510 Advises that licensee did not receive Insp Rept 50-346/78-06 re transient event prior to 790530 hearing. Documents and illustrate actual notice of info on certain operating problems encountered at other plants.

ARNOLD, R.C. :General Public Utilities - GPU Service Corp.  
KEMENY, J.G. :President's Commission on the Accident at Three Mile Island  
DATE ISS:79/08/30, 5pp. ,48x:19324-004,001:D&W 0208 ,TN:GB03 3.2

8307070195 Outlines past flowpath (in Unit 1) by which awareness of incidents & events at other nuclear plants applicable to TMI established.

HARBIN, R.S. :Metropolitan Edison Co.  
REPPERT, D. :Metropolitan Edison Co.  
DATE ISS:79/08/27, 9pp. ,48x:19325-071,001:B&W 0211 ,TN:GB03 IRRELEVANT

8307070197 Forwards minutes of User's Group 771115-16 meeting in Washington, DC re B&W plant operations.

COBB, W.A. :Babcock & Wilcox Operating Plants Owners Group  
HERBEIN, J.G. :Metropolitan Edison Co.  
DATE ISS:78/02/03, 20pp. ,48x:19325-080,001:B&W 0212 ,TN:GB03 IRRELEVANT

8307020095 Transcript of 790425 interview w/B Mehler.

MEHLER, B. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/04/25, 16pp. ,48x:19245-349,001:B&W 0238 ,TN:GB03 3.1

8307020106 Log of daily operations.

\* :General Public Utilities - GPU Service Corp.  
DATE ISS:78/03/29, 6pp. ,48x:19246-079,001:B&W 0244 ,TN:GB03 3.2



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8307020108 Forwards summary of LER 78-022/99x on 780329.

\* :General Public Utilities - GPU Service Corp.  
GRIER, B.M. : Region 1, Philadelphia, Office of the Director  
DATE ISS:81/07/30, 10pp. ,48x:19246-113,ODI:B&W 0245 ,TN:GB03 3.2

8307120620 Forwards final report on 780423 reactor trip/ES of 780423 incident.

SEELINGER, J.L. :Metropolitan Edison Co.  
MILLER, G.P. :Metropolitan Edison Co.  
DATE ISS:78/05/04, 89pp. ,48x:19501-267,ODI:B&W 0246 ,TN:GD03 3.2

8307050287 Forwards IE Insp Rept 50-346/78-06 on 771206-08 & 780305-08. Effective presentation of info re transients at other plants suggested to enhance nuclear industry communications.

ARNOLD, R.C. :General Public Utilities - GPU Service Corp.  
KEMERY, J.G. :President's Commission on the Accident at Three Mile Island  
DATE ISS:79/08/30, 5pp. ,48x:19326-018,ODI:B&W 0247 ,TN:GD03 3.2

8307050320 Suggests areas in which evaluation of 790423 incident could be more accurate & complete. Concentration suggested in areas of malfunctioning safeties, flow testing of Mu-V-163 & poorly-designed alarm sys.

FREDERICK, E. :General Public Utilities - GPU Service Corp.  
:Dabcock & Wilcox Co.  
DATE ISS:78/05/03, 5pp. ,48x:19327-131,ODI:B&W 0264 ,TN:GB03 3.2

8307050526 Preliminary inquiry of TMI incident of 790328.

ZEW, W.H. :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:79/04/03, 50pp. ,48x:19327-282,ODI:B&W 0271 ,TN:GB03 3.1

8307120662 "Memory Trip Review."

\* :Metropolitan Edison Co.  
: :  
DATE ISS:81/09/24, 3pp. ,48x:19502-211,ODI:B&W 0279 ,TN:GB03 3.1

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8307080165 Discusses specific assignments for JH Floyd & JL Seelinger  
re STS.

MILLER, G.P. :Metropolitan Edison Co.  
FLOYD, J.R. :Metropolitan Edison Co.  
DATE ISS:77/03/03, 2pp. ,48x:19331-355, ODI:B&W 0297 ,TN:GB03 IRRELEVANT

8307080176 List of significant events in 1978 since issuance of Unit 2  
UL on 780208.

\* :Metropolitan Edison Co.  
: DATE ISS:78/12/31, 11pp. ,48x:19331-357, ODI:B&W 0298 ,TN:GB03 IRRELEVANT

8307070397 First draft "GPU Task Force Interim Summary Rept."

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/09/28, 5pp. ,48x:19321-250, ODI:B&W 0347 ,TN:GB03 3.1, 3.2

8308230580 Transcript of TMI Investigative Task Force Taped Interview 3  
(Keaten Tapes) on 790824, Pp 1-40.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/08/24, 41pp. ,48x:20125-157, ODI:B&W 0347C ,TN:GB03 3.1

8308230597 Transcript of TMI Investigative Task Force Taped Interview 5  
(Keaten Tapes) on 790919, Pp 1-61.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/09/19, 62pp. ,48x:20125-244, ODI:B&W 0347E ,TN:GB03 3.1

8308230601 Transcript of TMI Investigative Task Force Taped Interview 6  
(Keaten Tapes) on 790919, Pp 1-60.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/09/19, 61pp. ,48x:20125-307, ODI:B&W 0347F ,TN:GB03 3.1

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8308230606 Transcript of TMI Investigative Task Force Taped Interview 7  
(Keaten Tapes) on 790919, Pd 1-63.

\* :General Public Utilities - GPU Service Corp.  
: ;  
DATE ISS:79/09/19, 64pp. ,48x:20126-007,ODI:B&W 0347G ,TN:G803 3.1

8308230617 Transcript of TMI Investigative Task Force Taped Interview  
10 (Keaten Tapes) on 790920, Pd 1-64.

\* :General Public Utilities - GPU Service Corp.  
: ;  
DATE ISS:79/09/20, 65pp. ,48x:20126-169,ODI:B&W 0347J ,TN:G803 IRRELEVANT

8308230619 Transcript of TMI Investigative Task Force Taped Interview  
11 (Keaten Tapes) on 790920, Pd 1-66.

\* :General Public Utilities - GPU Service Corp.  
: ;  
DATE ISS:79/09/20, 67pp. ,48x:20126-234,ODI:B&W 0347K ,TN:G803 3.2

8308230623 Transcript of TMI Investigative Task Force Taped Interview  
12 (Keaten Tapes) on 790920, Pd 1-59.

\* :General Public Utilities - GPU Service Corp.  
: ;  
DATE ISS:79/09/20, 60pp. ,48x:20126-301,ODI:B&W 0347L ,TN:G803 3.1

8308230626 Transcript of TMI Investigative Task Force Taped Interview  
13 (Keaten Tapes) on 790924, Pd 1-26.

\* :General Public Utilities - GPU Service Corp.  
: ;  
DATE ISS:79/09/24, 27pp. ,48x:20126-359,ODI:B&W 0347M ,TN:G803 IRRELEVANT

8307070438 Second draft "GPU Task Force Interim Summary Rept."

KEATEN,R.W. :General Public Utilities - GPU Service Corp.  
: ;  
DATE ISS:79/10/06, 57pp. ,48x:19322-016,ODI:B&W 0349 ,TN:G803 3.1

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8307080673 Forwards "GPU Task Force Interim Summary Rept," third draft  
re TMI-2 accident on 790328.

KEATEN, R.W. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:79/10/17, 1p. ,48x:19402-181,ODI:B&W 0350 ,TN:GB03 3.1

8307080681 Forwards "GPU Task Force Interim Summary Rept" re findings &  
conclusions to date & presenting preliminary recommendations  
re TMI-2 accident on 790328.

KEATEN, R.W. :General Public Utilities - GPU Service Corp.  
DIECKAMP, H.M. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/10/29, 1p. ,48x:19402-339,ODI:B&W 0351 ,TN:GB03 3.1

8307080688 "GPU Accident Review Task Force Interim Summary Rept."

KEATEN, R.W. :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:79/11/28, 41pp. ,48x:19403-019,ODI:B&W 0352 ,TN:GB03 3.1

8307080691 Lists items which must be accomplished to complete GPU/Met  
Ed review of TMI-2 accident & underlying causes.

KEATEN, R.W. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:79/12/03, 6pp. ,48x:19403-061,ODI:B&W 0353 ,TN:GB03 3.1

8307080693 "GPU Accident Review Task Force Final Summary Rept."

\* :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:80/03/24, 41pp. ,48x:19403-068,ODI:B&W 0354 ,TN:GB03 3.1

8307080695 "GPU Accident Review Task Force Final Summary Rept."

\* :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:80/05/12, 50pp. ,48x:19403-112,ODI:B&W 0355 ,TN:GB03 3.1

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8307080698 "GPU Accident Review Task Force Final Summary Rept."

KEATEN, R.W. :General Public Utilities - GPU Service Corp.  
DATE ISS:80/12/15, 49pp. ,48x:19403-161,ODI:B&W 0356 ,TN:G803 3.1

8307080699 Forwards marked-up task force rept indicating significant differences from interim rept, w/o encl.

KEATEN, R.W. :General Public Utilities - GPU Service Corp.  
DIECKAMP, H.M. :General Public Utilities - GPU Service Corp.  
DATE ISS:80/09/02, 1p. ,48x:19404-017,ODI:B&W 0357 ,TN:G803 3.1

8307120734 Transcript of 790412 interview w/G Miller, Pp 1-58.

\* :Metropolitan Edison Co.  
DATE ISS:79/04/12, 58pp. ,48x:19502-230,ODI:B&W 0360 ,TN:G603 3.1

8307080720 "Task 2 Rationale for Operation/Staff Response Subtask 8 - Define why HPI was Modulated."

WALSH, P.S. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/08/03, 3pp. ,48x:19405-084,ODI:B&W 0366 ,TN:G803 3.2

8307080722 Comments on "Technical Assessment of Operating, Abnormal & Emergency Procedures." Some results consistent w/GPU findings while some are inaccurate, misleading & technically incorrect. Procedures listed incorrect.

KEATEN, R.W. :General Public Utilities - GPU Service Corp.  
DIECKAMP, H.M. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/11/02, 3pp. ,48x:19405-087,ODI:B&W 0367 ,TN:G803 IRRELEVANT

8307080727 Summary of 790813 interview w/RCA.

\* :General Public Utilities - GPU Service Corp.  
DATE ISS:79/08/13, 1p. ,48x:19405-091,ODI:B&W 0369 ,TN:G803 IRRELEVANT

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8307080731 Forwards RN Keaten notes for 790328-0407.

TRAVIESO-DIAZ :Shaw, Pittman, Potts & Trowbridge  
FRAMPTON,G. :NRC Three Mile Island Task Force  
DATE ISS:79/10/19, 51pp. ,48x:19405-092,00I:B&W 0370 ,TN:G803 IRRELEVANT

8307080055 Forwards draft TMI-111, "Analysis of TMI-2 Operator Response."

WALSH,P.S. :General Public Utilities - GPU Service Corp.  
ARNOLD,R.C. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/07/18, 1p. ,48x:19333-139,00I:B&W 0374 ,TN:G803 3.1

8307080064 Procedure 054 "Analysis of TMI-2 Operator Response."

WALSH,P.S. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/10/19, 43pp. ,48x:19334-005,00I:B&W 0377 ,TN:G803 3.1

8307080074 LER 79-014/011: on 790502, reactor high pressure scram occurred. Caused by lack of procedural direction to operators w/reactor scrambled & recirculation pumps tripped. Procedures reviewed & changed. w/790510 ltr.

ROSS,D.A. :Jersey Central Power & Light Co.  
GRIER,d.M. :Region 1, Office of Director  
DATE ISS:79/05/10, 6pp. ,48x:19334-078,00I:B&W 0379 ,TN:G803 IRRELEVANT

8307080103 Telcon w/Fred to discuss facility cooldowns. Caused by electromagnetic relief valve stuck open.

PUTTS,w.E. :Metropolitan Edison Co.  
:Toledo Edison Co.  
DATE ISS:78/11/08, 1p. ,48x:19334-129,00I:B&W 0384 ,TN:G803 3.2

8307080120 Small break LUCA flow chart.

\* :Babcock & Wilcox Co.  
DATE ISS:83/07/07, 1p. ,48x:19334-131,00I:B&W 0385 ,TN:G803 IRRELEVANT



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- 8307080125 Forwards report re 790502 transient which resulted in unexpected low water level in reactor vessel.  
  
FINROCK, I.K. : Jersey Central Power & Light Co.  
: Office of Nuclear Reactor Regulation, Director  
DATE ISS: 79/05/12, 2pp., 48x: 19334-132, OOI: B&W 0386 , TN: G803 IRRELEVANT
- 8307080156 Marked-up handwritten report on RETRAN version of pressurizer study of IMI-2 dual lowered loop, 177 fuel assembly.  
  
\* : General Public Utilities - GPU Service Corp.  
:   
DATE ISS: 83/07/07, 64pp., 48x: 19334-345, OOI: B&W 0389 , TN: G803 3.2
- 8307080164 "Dual Lowered Loop, 177 Fuel Assembly," RETRAN version, pressurizer study.  
  
\* : General Public Utilities - GPU Service Corp.  
:   
DATE ISS: 83/07/07, 19pp., 48x: 19335-075, OOI: B&W 0391 , TN: G803 3.2
- 8307080170 Marked-up handwritten report 780328, "China Syndrome" event occurred including loss of feedwater, turbine trip, radiation alarms sounding in containment & reactor coolant pumps experiencing low pressure.  
  
\* : Metropolitan Edison Co.  
:   
DATE ISS: 79/03/28, 3pp., 48x: 19335-122, OOI: B&W 0392 , TN: G803 IRRELEVANT
- 8307080180 Handwritten note re IMI-2.  
  
\* : Babcock & Wilcox Co.  
:   
DATE ISS: 83/07/07, 1p., 48x: 19335-125, OOI: B&W 0393 , TN: G803 IRRELEVANT
- 8307080187 Handwritten report re feedwater pump & turbine trip, reactor trip on high primary pressure, reactor coolant pump trip & decay heat.  
  
\* : Metropolitan Edison Co.  
:   
DATE ISS: 83/07/07, 1p., 48x: 19335-126, OOI: B&W 0394 , TN: G803 IRRELEVANT

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8307080192 Two graphs re EFW flow & ES actuation.

\* :Babcock & Wilcox Co.  
: DATE ISS:79/03/28, 2pp. ,48X:19335-127,00I:B&W 0395 ,TN:GB03 IRRELEVANT

8307080208 Handwritten "Operator Response."

\* :Metropolitan Edison Co.  
: DATE ISS:79/06/05, 2pp. ,48X:19335-129,00I:B&W 0396 ,TN:GB03 3.1

8307080212 Marked-up Procedure TMI-111 "Analysis of TMI-2 Operator Response."

WALSH,P.S. :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/07, 44pp. ,48X:19335-131,00I:B&W 0397 ,TN:GB03 3.1

8307080217 Handwritten "TMI-2 Operator Interview."

\* :Babcock & Wilcox Co.  
: DATE ISS:79/08/24, 6pp. ,48X:19335-230,00I:B&W 0398 ,TN:GB03 3.1

8307080223 Handwritten "Operator Interviews."

\* :Babcock & Wilcox Co.  
: DATE ISS:79/09/19, 3pp. ,48X:19335-236,00I:B&W 0399 ,TN:GB03 3.1

8307080227 Forwards first draft "Interim Summary Rept."

KEATEN,R.W. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
: DATE ISS:79/09/28, 1p. ,48X:19335-239,00I:B&W 0400 ,TN:GB03 3.1

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8307080237 Submits handwritten comments on draft 790928 GPU Task Force  
rept.

\* :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:79/10/05, 6pp. ,48x:19335-352,ODI:B&W 0401 ,TN:G803 3.1

8307080241 Second draft of GPU Task Force "Interim Summary Rept."

KEATEN,R.W. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:79/10/06, 6pp. ,48x:19335-190,ODI:B&W 0402 ,TN:G803 3.1

8307080244 Forwards third draft to: "Interim Summary Rept."

KEATEN,R.W. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:79/10/17, 1p. ,48x:19336-118,ODI:B&W 0403 ,TN:G803 3.1

8307080247 Third draft of "Interim Summary Rept."

\* :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:79/10/17, 73pp. ,48x:19336-119,ODI:B&W 0403 ,TN:G803 3.1

8307080641 Preliminary Operational log. "Annotated Sequence of Events,  
List of Figures."

\* :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:82/02/09, 34pp. ,48x:19336-248,ODI:B&W 0404 ,TN:G803 3.1

8307080649 Operational log. "Influence of Operator Action."

\* :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:82/02/09, 7pp. ,48x:19336-183,ODI:B&W 0407 ,TN:G803 3.1

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8307080654 Footprint data Sheet 1x1-2 re stuck open electromatic relief valve.

\* :Babcock & Wilcox Co.  
: DATE ISS:78/03/29, 4pp. ,48x:19336-358,ODI:B&W 0408 ,TN:GB03 3.1

8307080660 "TMI II Transient Outline" covering loss of feedwater, alternate scenarios & radioactive releases.

\* :Babcock & Wilcox Co.  
: DATE ISS:82/02/09, 65pp. ,48x:19392-121,ODI:B&W 0410 ,TN:GB03 3.1

8307080662 "Applications of RETRAN for TMI Analyses."

TRIKOURUS,N.G. :General Public Utilities - GPU Service Corp.  
: DATE ISS:82/02/09, 70pp. ,48x:19392-242,ODI:B&W 0411 ,TN:GB03 3.1, 3.2

8307080664 "TMI Accident Analysis."

\* :Babcock & Wilcox Co.  
: DATE ISS:82/02/09, 23pp. ,48x:19393-007,ODI:B&W 0412 ,TN:GB03 3.1

8307080639 Resume of Q Billingsley.

BILLINGSLEY,Q. :General Public Utilities - GPU Service Corp.  
: DATE ISS:82/02/18, 1p. ,48x:19394-299,ODI:B&W 0427 ,TN:GB03 IRRELEVANT

8307110636 "Investigation of TMI-2 Pressurizer PORV Discharge Pipe Temp."

BILLINGSLEY,Q. :General Public Utilities - GPU Service Corp.  
: DATE ISS:80/02/28, 56pp. ,48x:19440-001,ODI:B&W 0428 ,TN:GB03 IRRELEVANT

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- 8307110706 Abstract of technical data re: PORV operation & failure at TMI-2.  
\* :General Public Utilities - GPU Service Corp.  
DATE ISS:82/02/19, 21pp. ,48x:19441-017,00I:B&W 0444 ,TN:GB03 IRRELEVANT
- 8307110708 Forwards preliminary list of reactor trips which caused PORV actuation at TMI-1, per 790921 request. Complete list will be provided by 791110.  
HARDING, L.W. :Metropolitan Edison Co.  
SHORT, P.J. :Dabcock & Wilcox Co.  
DATE ISS:79/10/15, 3pp. ,48x:19441-066,00I:B&W 0445 ,TN:GB03 3.2
- 8307090298 Computerized list of lesson programs, employees & dates.  
\* :Metropolitan Edison Co.  
DATE ISS:77/04/11, 2pp. ,48x:19413-192,00I:B&W 0521 ,TN:GB03 IRRELEVANT
- 8307080576 Continued deposition of FJ Scheimann in Harrisburg, PA, Pp 129-241.  
SCHEIMANN, F.J. :Metropolitan Edison Co.  
DATE ISS:79/07/25, 263pp. ,48x:19416-061,00I:B&W 0537 ,TN:GB03 3.1, 3.2
- 8307090391 Forwards updated status of TMI-2 "Outstanding NRC Licensing Issues."  
LANESE, L.C. :General Public Utilities - GPU Service Corp.  
BARTON, J.J. :General Public Utilities - GPU Service Corp.  
DATE ISS:75/11/19, 11pp. ,48x:19395-308,00I:B&W 0604 ,TN:GB03 IRRELEVANT
- 8307090163 Testimony of E Frederick re accident at TMI-2.  
FREDERICK, E. :Metropolitan Edison Co.  
DATE ISS:79/05/10, 163pp. ,48x:19398-065,00I:B&W 0654 ,TN:GB03 3.1

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307090174 suggests that pressurizer electromagnetic relief valve  
HC-RV2 be inspected periodically for corrosion products &  
freedom of movement re lever pin & hinge noting clearances  
w/solenoid bracket.

ROGERS, L.C. : Babcock & Wilcox Co.

HERBEIN, J.G. : Metropolitan Edison Co.

DATE ISS: 75/07/31, 1p. , 48x: 19398-234, ODI: B&W 0656 , TN: G803

IRRELEVANT

8307090193 Draft interview w/E Frederick at TMI site on 790423.

FREDERICK, E. : Metropolitan Edison Co.

DATE ISS: 79/04/23, 67pp. , 48x: 19398-129, ODI: B&W 0660 , TN: G803

3.1

8307090203 Interview w/E Frederick, control room operator at TMI-2 on  
790330.

FREDERICK, E. : Metropolitan Edison Co.

DATE ISS: 79/03/30, 12pp. , 48x: 19399-002, ODI: B&W 0661 , TN: G803

3.1

8307110747 Transcript of oversight hearings on 790509, 10, 11 & 13 before  
Task Force of Subcommittee on Energy & Environ of Committee  
on Interior & Insular Affairs, in Washington, DC re accident  
at TMI.

\* : Babcock & Wilcox Co.

DATE ISS: 82/05/11, 88pp. , 48x: 19477-265, ODI: B&W 0662 , TN: G803

3.1

8307110753 Forwards marked-up copy of annotated sequence of events re  
TMI accident of 790328. Comments resulted from PURC meetings  
on 790514, 16 & 17.

MILLER, G.P. : Metropolitan Edison Co.

: Metropolitan Edison Co.

DATE ISS: 79/05/21, 38pp. , 48x: 19478-001, ODI: B&W 0666 , TN: G803

3.1

8307090214 Forwards marked-up "Annotated Sequence of Events," resulting  
from TMI-2 PURC 790514, 16-17 meetings. Comments addressed on  
Page 8 should be reviewed & appropriately considered when  
preparing future versions.

MILLER, G.P. : Metropolitan Edison Co.

VANITBECK, T. : Metropolitan Edison Co.

DATE ISS: 79/05/21, 45pp. , 48x: 19399-021, ODI: B&W 0667 , TN: G803

3.1



U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307110724 Requests formation of fire member task force to complete investigation of encl seven specific issues re 790328 incident.

ARNOLD, R.C. :General Public Utilities - GPU Service Corp.  
KEATEN, R.W. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/06/27, 5pp., ,48x:19445-169,001:BS& 0694 ,TN:GB03 IRRELEVANT

8307110732 Submits questions re TMI-2 incident on 790328.

\* :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:79/06/13, 3pp., ,48x:19445-177,001:BS& 0697 ,TN:GB03 IRRELEVANT

8307110735 Submits tasks & subtasks for task teams.

\* :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:79/07/09, 1pp., ,48x:19445-180,001:BS& 0698 ,TN:GB03 3.1

8307110739 Forwards first rough draft, "GPU Task Force Interim Summary Rept."

KEATON, R.W. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:79/09/28, 1p., ,48x:19446-002,001:BS& 0699 ,TN:GB03 3.1

8307110744 requests copy of encl package re task force draft rept.

LONG, R.L. :Babcock & Wilcox Co.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:79/10/07, 8pp., ,48x:19446-060,001:BS& 0700 ,TN:GB03 IRRELEVANT

8307110752 "GPU Task Force Investigative Rept."

BROUGHTON, T.G. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:79/11/27, 46pp., ,48x:19446-134,001:BS& 0702 ,TN:GB03 3.1

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307110757 "GPU Accident Review Task Force Final Summary Rept."

KEATE, R. W. :General Public Utilities - GPU Service Corp.  
DATE ISS:80/03/24, 43pp. ,4Rx:19446-346,ODI:B&W 0703 ,TN:GB03 3.1

8307110763 Forwards TOR TMI-111, "Analysis of TMI-2 Operator Response,"  
for review. Comments requested by 790h25.

BROUGHTON, T. G. :General Public Utilities - GPU Service Corp.  
LUNG, R. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/06/21, 32pp. ,4Rx:19447-062,ODI:B&W 0705 ,TN:GB03 3.1

8307110769 "Analysis of TMI-2 Operator Response."

WALSH, P. S. :General Public Utilities - GPU Service Corp.  
DATE ISS:82/05/20, 36pp. ,4Rx:19447-066,ODI:B&W 0706 ,TN:GB03 3.1

8307090353 Forwards response to 791025 notice of violation & notice of  
proposed issuance of civil penalties based on IE  
investigation of 790328 accident.

ARNOLD, R. C. :Metropolitan Edison Co.  
STELLO, V. :Office of Inspection & Enforcement, Office of the Director  
DATE ISS:79/12/05, 97pp. ,4Rx:19492-019,ODI:B&W 0707 ,TN:GB03 3.1

8307090026 Forwards TMI staff interview of H McGovern dtd 790504 &  
DA berry notes on 790329 re 790328 incident.

ZODIACO, V. P. :General Public Utilities - GPU Service Corp.  
BLAKE, E. L. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/05/10, 447pp. ,4Rx:19449-031,ODI:B&W 0719 ,TN:GB03 3.1

8307090361 Forwards rept of reactor trip of 781202 at TMI-2.

HILBISH, J. J. :Metropolitan Edison Co.  
MILLER, G. P. :Metropolitan Edison Co.  
DATE ISS:78/12/02, 32pp. ,4Rx:19492-152,ODI:B&W 0741 ,TN:GB03 3.2

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307090379 Forwards marked-up annotated sequence of events following  
TMI-2 PORC 790514, 10-17, 0709 & 13 meetings.

MILLER, G.P. :Metropolitan Edison Co.  
VANWITTECK, T. :Metropolitan Edison Co.  
DATE ISS:79/07/13, 11000, ,48x:19492-257, ODI:B&W 0759 ,TN:G803 3.1

8307120344 Resume of GP Miller.

MILLER, G.P. :Metropolitan Edison Co.  
DATE ISS:82/06/02, 10, ,48x:19456-361, ODI:B&W 0762 ,TN:G803 IRRELEVANT

8307120360 Discusses overview of unit 2 procedure history.

\* :Metropolitan Edison Co.  
SEELINGER, J.L. :Metropolitan Edison Co.  
DATE ISS:79/05/25, 300, ,48x:19457-008, ODI:B&W 0766 ,TN:G803 IRRELEVANT

8307120363 Statistical calculations.

\* :Idacox & Wilcox Co.  
DATE ISS:82/06/04, 10, ,48x:19457-011, ODI:B&W 0768 ,TN:G803 3.1

8307120699 Discusses NRC Exit Interview 77-10 for insp on 770314-18, no  
items of noncompliance. Minutes encl.

NELSON, M.A. :Metropolitan Edison Co.  
MILLER, G.P. :Metropolitan Edison Co.  
DATE ISS:77/03/18, 000, ,48x:19457-072, ODI:B&W 0781 ,TN:G803 IRRELEVANT

8307120705 Discusses need to create sys for dissemination of  
correspondence.

SEELINGER, J. :Metropolitan Edison Co.  
MILLER, G.P. :Metropolitan Edison Co.  
DATE ISS:77/03/29, 300, ,48x:19457-078, ODI:B&W 0782 ,TN:G803 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307080584 Account Book 565.

\* :General Public Utilities - GPU Service Corp.  
: |  
DATE ISS:77/10/21, 953pp. ,48x:19409-253,00I:B&W 0785 ,TN:G803 3.2

8307090125 Operational Log for 770908.

\* :Babcock & Wilcox Co.  
: |  
DATE ISS:77/09/08, 200. ,48x:19453-024,00I:B&W 0786 ,TN:G803 IRRELEVANT

8307090142 Summary of B&W User Meeting on 771111-15 & 16.

\* :Babcock & Wilcox Co.  
: |  
DATE ISS:77/11/16, 4100. ,48x:19453-188,00I:B&W 0793 ,TN:G803 3.2

8307090147 Interview of GP Miller re TMI-2 event on 790328.

MILLER,G.P. :Metropolitan Edison Co.  
: |  
DATE ISS:82/06/11, 3100. ,48x:19453-288,00I:B&W 0800 ,TN:G803 3.1

8307090151 Statement of wP Miller re TMI-2 incident on 790328.

MILLER,G.P. :Metropolitan Edison Co.  
: |  
DATE ISS:79/05/07, 3200. ,48x:19453-347,00I:B&W 0801 ,TN:G803 3.1

8307120056 Investigation interview w/GA Kunder on 790425 in Middletown,  
PA.

KUNDER,G.A. :Metropolitan Edison Co.  
: |  
DATE ISS:79/04/25, 5900. ,48x:19457-290,00I:B&W 0864 ,TN:G803 3.1

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

- 8307120065 Forwards status reports for both TMI units. Unit 1 in commercial operation since Sept 1974 & Unit 2 currently undergoing startup testing for commercial operation scheduled for Nov 1978.  
HERBEIN, J.G. :Metropolitan Edison Co.  
:Edison Electric Institute  
DATE ISS:78/09/30, 16pp. ,4Rx:19458-018,001:8&W 0876 ,TN:G803 3.2
- 8307120070 "Analysis of TMI-2 770906 Event During Hot Functional Tests."  
KEATEN, R.W. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:81/10/07, 13pp. ,4Rx:19458-062,001:8&W 0877 ,TN:G803 3.2
- 8307130391 Lists addl items to be considered as possible recommendations or areas where further action advisable re 781107 trip. Pressurizer water level should be increased to 240 inches during normal operation.  
HERBEIN, J.G. :Metropolitan Edison Co.  
ARNOLD, H.C. :Metropolitan Edison Co.  
DATE ISS:78/11/20, 7pp. ,4Rx:19501-146,001:8&W 0878 ,TN:G803 3.2
- 8307130392 Recommends pressurizer electromagnetic relief valve RC-RV2 be periodically inspected for corrosion products & for freedom of movement of lever pin & lever hinges noting clearance w/solenoid bracket.  
ROGERS, L.C. :Babcock & Wilcox Co.  
HERBEIN, J.G. :General Public Utilities - GPU Service Corp.  
DATE ISS:75/07/30, 1p. ,4Rx:19501-153,001:8&W 0881 ,TN:G803 IRRELEVANT
- 8307120113 "Selection, Training, Qualification & Licensing of TMI Reactor Operating Personnel."  
EYCHISON, R. :President's Commission on the Accident at Three Mile Island  
:President's Commission on the Accident at Three Mile Island  
DATE ISS:79/10/31, 100pp. ,4Rx:19458-094,001:8&W 0890 ,TN:G803 3.2
- 8307120178 Summary of plant operations from 790214-0401.  
\* :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:79/02/14, 183pp. ,4Rx:19459-188,001:8&W 0903 ,TN:G803 3.2

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307090342 Forwards third draft investigative task force summary report re TMI accident. Report reflects news discussed during 791011-12 meetings. Comments requested by 791022.

KEATEN, R.W. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:79/10/17, 77pp. ,48x:19400-185,001:B&W 0907 ,TN:G803 3.1, 3.2

8307090348 Lod entries for 810520, 21,0619 & 0818 re telcon, completed tasks & personnel identification numbers.

DOMINGUEZ, A.J. :Pennsylvania Power & Light Co.  
:;  
DATE ISS:81/08/18, 1p. ,48x:19401-125,001:B&W 0909 ,TN:G803 3.2

8307090381 Forwards Rev 0 to Draft Procedure DP 11202.06, "Loss of Reactor Coolant."

SUMRKE, K.E. :Bancroft & Wilcox Co.  
MURRAY, T.D. :Toldeo Edison Co.  
DATE ISS:73/04/27, 5pp. ,48x:19402-092,001:B&W 1020 ,TN:G803 IRRELEVANT

8307090326 Transcript of Zewe 790409 interview. Page 14.

ZEW E :General Public Utilities - GPU Service Corp.  
:;  
DATE ISS:79/04/09, 1p. ,48x:19487-350,001:B&W 4000A ,TN:G803 IRRELEVANT

8307090330 "Atomic Energy Clearing House," Vol 24, Number 2, dtd 780109.

\* :Congress (Joint & Rotating Committees, etc.)  
:;  
DATE ISS:78/01/09, 4pp. ,48x:19487-351,001:B&W 4001 ,TN:G803 3.2

8307110789 Informs that proposed Task 73, "Computerized Field Change Reporting Sys," closed & no further action anticipated. Proposal for computerized field change reporting sys encl.

DENDLER, M.H. :Metropolitan Edison Co.  
JANIS, J.T. :Bancroft & Wilcox Co.  
DATE ISS:78/09/08, -10pp. ,48x:19480-029,001:B&W 4002 ,TN:G803 IRRELEVANT



U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307110792 Handwritten notes from users meeting on 771115.

\*                   : Babcock & Wilcox Co.  
:                   :  
DATE ISS:77/11/15, 33pp. ,48x:19480-040,00I:B&W 4004 ,TN:GB03 IRRELEVANT

8307110793 "TMI, Rept to Commissioners & to Public," Vol II, Part 1.  
Pg 109-111 only.

ROGOVIN, M.       : NRC - No Detailed Affiliation Given  
:                   :  
DATE ISS:82/05/10, 4pp. ,48x:19480-073,00I:B&W 4005 ,TN:GB03 3.2

8307120728 Transcript of 791115 interview of a Zewe in Harrisburg, PA.  
Pg 1-44.

\*                   : Senate  
:                   :  
DATE ISS:79/11/15, 44pp. ,48x:19461-225,00I:B&W 4007 ,TN:GB03 3.1, 3.2

8307120736 "Tailrace Temp - PURV Openings at TMI-2."

\*                   : Babcock & Wilcox Co.  
:                   :  
DATE ISS:83/07/12, 1p. ,48x:19461-269,00I:B&W 4008 ,TN:GB03 IRRELEVANT

8307120742 Daily plant status report for 790419.

\*                   : Babcock & Wilcox Co.  
:                   :  
DATE ISS:78/04/19, 1p. ,48x:19461-270,00I:B&W 4008A ,TN:GB03 IRRELEVANT

8307120751 Daily plant status report for 790114.

SMITH, B.G.       : Babcock & Wilcox Co.  
:                   :  
DATE ISS:78/10/14, 1p. ,48x:19461-271,00I:B&W 4008H ,TN:GB03 IRRELEVANT



U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307120786 Discharge line temps for 790131-0327.

\* :Babcock & Wilcox Co.  
: 1  
DATE ISS:83/07/12, 200, ,4X:19462-008,00I:B&W 4010 ,TN:G803 IRRELEVANT

8307090279 Transcript of ACRS Subcommittee on TMI-2 790606 meeting in  
Middletown, PA, Po 1-192.

\* :ACRS - Advisory Committee on Reactor Safeguards  
: 1  
DATE ISS:79/06/06, 227pp, ,4X:19467-104,00I:B&W 4012 ,TN:G803 3.1, 3.2

8307120657 RCS temp, pressure & pressurizer level data for 780423 &  
790328.

\* :Metropolitan Edison Co.  
: 1  
DATE ISS:79/03/28, 10, ,4X:19462-298,00I:B&W 4014 ,TN:G803 3.2

8307120687 Transcript of E Frederick interview on 790510 before  
President's Commission.

FREDERICK, E. :General Public Utilities - GPU Service Corp.  
: 1  
DATE ISS:79/05/10, 79pp, ,4X:19462-308,00I:B&W 4020 ,TN:G803 3.1

8307120704 Graph of "Hexaco Tank Level Response During Known MPI  
Actuation."

\* :Babcock & Wilcox Co.  
: 1  
DATE ISS:79/03/28, 10, ,4X:19463-039,00I:B&W 4022 ,TN:G803 3.1

8307120713 Log of sequence of events from 790327-28 at TMI-2.

\* :General Public Utilities - GPU Service Corp.  
: 1  
DATE ISS:79/03/28, 30p, ,4X:19463-040,00I:B&W 4023 ,TN:G803 3.1

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307120750 Testimony of C. Michelson on 790906 in Bethesda, MD. Pd 1-63.

MICHELSON, C. :Tennessee Valley Authority  
: DATE ISS:79/09/06, 63pp. ,48x:19463=061,00I:8&W 4029 ,TN:G803 3.2

8307120781 Summary of valve problem in RCS.

\* :Metropolitan Edison Co.  
: DATE ISS:77/11/03, 1p. ,48x:19463=150,00I:8&W 4033 ,TN:G803 3.2

8307120630 Partial deposition of R. Keaten on 820105 in New York, NY.

KEATEN, R. W. :General Public Utilities - GPU Service Corp.  
: DATE ISS:82/01/02, 7pp. ,48x:19495=254,00I:8&W 4035 ,TN:G803 IRRELEVANT

8307120691 Results of tests & special operations in progress during  
780411-19, including TP 800/21 & TP 710/1 FP physics testing  
re installing steam line from MFWP to 13th stage to supply  
FW heating & filling main generator w/hydrogen, respectively.

HITZ, G. A. :General Public Utilities - GPU Service Corp.  
: DATE ISS:78/04/19, 10pp. ,48x:19495=268,00I:8&W 4040 ,TN:G803 3.2

8307120700 Deposition of J. B. Logan on 790805 in Harrisburg, PA. Pd 113-116.

LOGAN, J. B. :Metropolitan Edison Co.  
: DATE ISS:79/08/05, 5pp. ,48x:19495=278,00I:8&W 4041 ,TN:G803 IRRELEVANT

8307120711 Deposition of J. B. Logan on 790806 in Harrisburg, PA.  
Pd 145 & 166-167.

LOGAN, J. B. :Metropolitan Edison Co.  
: DATE ISS:79/08/06, 3pp. ,48x:19495=283,00I:8&W 4042 ,TN:G803 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307120755 handwritten Test Log, book 3.

\* :General Public Utilities - GPU Service Corp.  
: |  
DATE ISS:78/03/30, 300. ,4RX:19495-298,00I:B&W 4050 ,TN:GB03 3.2

8307120789 Graph of drain tank pressure time after turbine trip.

\* :Babcock & Wilcox Co.  
: |  
DATE ISS:83/07/11, 10. ,4RX:19495-321,00I:B&W 4054 ,TN:GB03 3.1

8307120815 "RCS Temp, Pressure & Pressurizer Level for 780423, 1107, 1202 & Accident."

\* :Metropolitan Edison Co.  
: |  
DATE ISS:83/07/11, 1200. ,4RX:19495-323,00I:B&W 4057 ,TN:GB03 3.1, 3.2

8307120826 Graphs re 780423 failed open steam safety valves.

\* :Babcock & Wilcox Co.  
: |  
DATE ISS:83/07/11, 10. ,4RX:19496-045,00I:B&W 4059 ,TN:GB03 3.2

8307090324 TMI-2 unidentified leakage calculation.

\* :Babcock & Wilcox Co.  
: |  
DATE ISS:79/03/19, 10. ,4RX:19487-349,00I:B&W 4067 ,TN:GB03 IRRELEVANT

8307090333 Handdrawn graph of RCS vol vs time re HPI.

\* :Babcock & Wilcox Co.  
: |  
DATE ISS:83/07/09, 10. ,4RX:19487-355,00I:B&W 4075 ,TN:GB03 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307130026 Computerized list of sequence of events.

\* :Bancroft & Allen Co.  
:1  
DATE ISS:79/03/28, 1p., ,48x:19496-239,001:B&W 4112 ,TN:G803 3.1

8307130054 Transcript of 790525 util group discussion.

\* :General Public Utilities - GPU Service Corp.  
:1  
DATE ISS:79/05/25, 3pp., ,48x:19496-349,001:B&W 5000B8 ,TN:G803 3.1

8307130060 Transcript of 790525 util group discussion.

\* :General Public Utilities - GPU Service Corp.  
:1  
DATE ISS:79/05/25, 3pp., ,48x:19496-352,001:B&W 5000CC ,TN:G803 3.1

8307090337 Interview w/Frederick on 790406.

FREDERICK :General Public Utilities - GPU Service Corp.  
:1  
DATE ISS:79/04/06, 1p., ,48x:19487-356,001:B&W 5007B8 ,TN:G803 IRRELEVANT

8307130130 Transcript of 790406 interview w/util.

\* :General Public Utilities - GPU Service Corp.  
:1  
DATE ISS:79/04/06, 1p., ,48x:19497-014,001:B&W 5007B8 ,TN:G803 3.2

8307090339 Transcript of B Mehler testimony, Pp 9-10.

MEHLER, B. :General Public Utilities - GPU Service Corp.  
:1  
DATE ISS:83/07/09, 3pp., ,48x:19487-357,001:B&W 5008B ,TN:G803 IRRELEVANT



U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

- 8307010229 Submits task description to TMI-2 concerns re main feedwater  
sys reliability. Task will analyze operating plant data &  
perform reliability analysis to improve availability &  
reduce challenges to RPS & protection sys.  
\* :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:81/01/27, 200, ,4RX:19178-128,001:GPU 0037 ,TN:G803 IRRELEVANT
- 8307070572 Discusses concerns within ECCS analysis re potential for  
operator action to terminate HPI following initial stage of  
LOCA. Full injection flow must be maintained from start  
of emergency ESFF actuation sys.  
DUNN, B.M. :Babcock & Wilcox Co.  
TAYLOR, J. :Babcock & Wilcox Co.  
DATE ISS:78/02/07, 300, ,4RX:19337-250,001:GPU 0078 ,TN:G803 3.2
- 8307120340 Recommends procedure for termination HPI following LOCA  
Sys. eme acceptable from standpoint of preventing adverse long  
adverse long range problems & easier to implement.  
DUNN, B.M. :Babcock & Wilcox Co.  
TAYLOR, J. :Babcock & Wilcox Co.  
DATE ISS:78/02/10, 200, ,4RX:19512-337,001:GPU 0079 ,TN:G803 IRRELEVANT
- 8307120343 Comments on recommended change in R&W philosophy for HPI  
sys during low pressure transients.  
HALLMAN, D.F. :Babcock & Wilcox Co.  
KARRASCH, B.A. :Babcock & Wilcox Co.  
DATE ISS:78/08/03, 200, ,4RX:19512-339,001:GPU 0081 ,TN:G803 IRRELEVANT
- 8307080953 Forwards rev to 790404 operating instructions for operator  
action to override ESF actuation sys & terminate HPI. Rev  
allows operator alternative to 20-minute operability period  
to preclude pressurizer from doing cold.  
BRAZILL, G.J. :Babcock & Wilcox Co.  
HAM, R.E. :Babcock & Wilcox Co.  
DATE ISS:79/04/17, 200, ,4RX:19317-279,001:GPU 0086 ,TN:G803 3.2
- 8307120372 Forwards info which includes curve to assist operator in  
meeting RCS subcooling limits if HPI initiated by low  
RCS pressure.  
HALLMAN, D.F. :Babcock & Wilcox Co.  
ELLISON, R.R. :Babcock & Wilcox Co.  
DATE ISS:79/05/10, 200, ,4RX:19512-361,001:GPU 0087 ,TN:G803 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307120775 Forwards reported concern re small breaks at pump discharge on 177FA lowered loop plants. Preliminary indication is that concern will be reportable per Part 21. Evaluations & recommendations for possible corrective action initiated.  
TAYLOR, J.H. : Babcock & Wilcox Co.  
JONES, R.C. : Babcock & Wilcox Co.  
DATE ISS: 78/04/12, 400, ,48X: 19464-124, OOI: GPU 0090 , TN: G803 3.2

8307120818 Procedure 1710-A1 "Reporting of Defects & Noncompliance Repts Concerning Safety (10CFR21)."  
\* : Babcock & Wilcox Co.  
:   
DATE ISS: 77/12/06, 900, ,48X: 19464-169, OOI: GPU 0095 , TN: G803 IRRELEVANT

8307080076 Forwards commitments resulting from various meetings & correspondence responsive re to NRC safety concerns identified in NRR 790425 status report on feedwater transients in B&W plants.  
TAYLOR, J.H. : Babcock & Wilcox Co.  
MATISON, R.J. : Division of Systems Integration (post 811005)  
DATE ISS: 79/04/30, 4400, ,48X: 19337-326, OOI: GPU 0103 , TN: G803 3.2

8307080102 Submits action plan for development of operational procedures for safe mot of small breaks in HCPB. Procedures should be implemented at 177 FA plants.  
KANE, E.R. : Babcock & Wilcox Co.  
ROY, D.M. : Babcock & Wilcox Co.  
DATE ISS: 79/04/30, 200, ,48X: 19338-035, OOI: GPU 0107 , TN: G803 IRRELEVANT

8307080108 Forwards Parts I & II of B&W current operating guidelines for small breaks.  
HALLMAN, D.F. : Babcock & Wilcox Co.  
ELLISON, K.R. : Babcock & Wilcox Co.  
DATE ISS: 79/03/07, 10, ,48X: 19338-037, OOI: GPU 0108 , TN: G803 IRRELEVANT

8307120865 Discusses what guidelines should be given to customers re proper use of high pressure injection sv9.  
KELLY, J.J. : Babcock & Wilcox Co.  
KARRASCH, B.A. : Babcock & Wilcox Co.  
DATE ISS: 77/11/01, 10, ,48X: 19464-313, OOI: GPU 0131 , TN: G803 3.2

U. S. NUCLEAR REGULATORY COMMISSION  
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8307120871 Site problem report re Davis-Besse 1.

\* :Babcock & Wilcox Co.  
: 1  
DATE ISS:77/10/11, 85pp. ,48X:19464-334,ODI:GPU 0133 ,TN:GB03 3.2

8307020211 Log of events & actions re facilities,790312-29.

\* :Babcock & Wilcox Co.  
: 1  
DATE ISS:81/04/16, 4pp. ,48X:19225-107,ODI:GPU 0134 ,TN:GB03 3.1

8307020212 Submits operating instructions for stuck open PORV,PORV not used in safety analysis calculations.Increasing PORV setpoint will result in decrease in plant flexibility.

KANE,E.R. :Babcock & Wilcox Co.  
WOMACK,E.A. :Babcock & Wilcox Co.  
DATE ISS:79/04/09, 1r. ,48X:19225-111,ODI:GPU 0135 ,TN:GB03 IRRELEVANT

8307020218 Forwards info re transient which occurred at plant on 790328 as received.INFO should be used w/caution.Possibility info incorrect as reported,contradictory w/other reports or incorrect as recorded.

WANDLING,G.K. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:79/03/29, 13pp. ,48X:19225-123,ODI:GPU 0138 ,TN:GB03 3.1

8307020221 Discusses availability of B&W plants as worst in industry due to problems w/reactor coolant pumps,seals & control rod drive mechanisms.Objective of 90% availability for NSSS by 1980 improbable.Requests draft reply by 781020.

VANNOY,W.M. :Babcock & Wilcox Co.  
FAVRET,L.M. :Babcock & Wilcox Co.  
DATE ISS:78/10/05, 2pp. ,48X:19225-136,ODI:GPU 0139 ,TN:GB03 IRRELEVANT

8307020225 Discusses impact balance of plant issue has in terms of NSSS availability.Balance of plant ranks eighth behind issues of more serious nature.Recommends emphasis be modified to reflect relative importance.

PHINNEY,J.D. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:79/02/23, 2pp. ,48X:19225-138,ODI:GPU 0140 ,TN:GB03 IRRELEVANT

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8307020250 Lists 10 lessons learned from TMI-2 incident. Total product,  
hardware, software & svcs, not adequate to prevent long  
duration loss of control of plant & most severe damage to  
core first lesson learned.  
KOSIBA, R.E. : Babcock & Wilcox Co.  
MACMILLAN, J.M. : Babcock & Wilcox Co.  
DATE ISS: 79/06/11, 2pp. , 48x: 19225-185, ODI: GPU 0147 , TN: GB03 3.2

8307120874 Questions re cause of 1/2 trip of SFRCS.

\* : General Public Utilities - GPU Service Corp.  
: 1  
DATE ISS: 81/05/04, 10pp. , 48x: 19464-317, ODI: GPU 0148 , TN: GB03 IRRELEVANT

8307020253 Deposition of JJ Kelly on 790707 in New York, NY.

KELLY, J.J. : Babcock & Wilcox Co.  
: 1  
DATE ISS: 79/07/07, 71pp. , 48x: 19225-237, ODI: GPU 0150 , TN: GB03 3.2

8307020255 Forwards description of TECO depressurization event  
developed as part of H&W input into formal rept to NRC.  
Times given are estimates based on available data.

KELLY, J.J. : Babcock & Wilcox Co.  
LAUER, J.A. : Babcock & Wilcox Co.  
DATE ISS: 77/10/24, 15pp. , 48x: 19225-308, ODI: GPU 0151 , TN: GB03 3.2

8307050243 "Site Problem Rept."

HALSTED, D. : Babcock & Wilcox Co.  
: 1  
DATE ISS: 77/11/09, 51pp. , 48x: 19225-323, ODI: GPU 0152 , TN: GB03 3.2

8307020257 Supplemental Re NP-32-77-161 on 770924 main turbine shut down  
to repair leak in pressure sensing connection on steam line  
while spurious half drip occurred in steam feedwater rupture  
control sys. Cause unknown.

MURRAY, T.D. : Toledo Edison Co.  
KEPPLER, J.G. : Region 3, Chicago, Office of the Director  
DATE ISS: 77/11/14, 59pp. , 48x: 19226-013, ODI: GPU 0153 , TN: GB03 3.2

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8307020259 Forwards LER 77-016/0L1-0.

EVANS, J. : Toledo Edison Co.  
KEPPLER, J.G. : Region 3, Chicago, Office of the Director  
DATE ISS: 77/10/07, 1p. , 48x: 19226-072, ODI: GPU 0154 , TN: G803 3.2

8307080582 Lists top ten lessons learned from TMI-2.

KOSIBA, R.E. : Babcock & Wilcox Co.  
MACMILLAN, J.H. : Babcock & Wilcox Co.  
DATE ISS: 79/06/11, 2pp. , 48x: 19489-314, ODI: GPU 0213 , TN: G803 3.2

8307080606 Submits customer svc rept monthly activities rept for Jul 1979.

KOSIBA, R.E. : Babcock & Wilcox Co.  
MACMILLAN, J.H. : Babcock & Wilcox Co.  
DATE ISS: 79/08/09, 11pp. , 48x: 19489-335, ODI: GPU 0220 , TN: G803 3.2

8307080729 Minutes of 791108 & 30 staff meetings to review findings & recommendations of Technical Review Committee established after TMI-2 accident.

BALL, R.M. : Babcock & Wilcox Co.  
MACMILLAN, J.H. : Babcock & Wilcox Co.  
DATE ISS: 79/12/07, 29pp. , 48x: 19490-014, ODI: GPU 0232 , TN: G803 3.1

8307120652 Testimony of Dunn re LOCAs.

DUNN, : Babcock & Wilcox Co.  
DATE ISS: 83/07/11, 12pp. , 48x: 19493-112, ODI: GPU 0253 , TN: G803 3.2

8307120660 Discusses lack of prompt notification to TMI re substantial safety hazard. Proper customer notification will be provided by licensing.

TAYLOR, J.H. : Babcock & Wilcox Co.  
MACMILLAN, J.H. : Babcock & Wilcox Co.  
DATE ISS: 78/02/10, 3pp. , 48x: 19493-124, ODI: GPU 0254 , TN: G803 IRRELEVANT

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8307120681 Suggests policy calling for detailed incident report for every significant incident affecting B&W plants.

TAYLOR, J.H. :Babcock & Wilcox Co.  
DEDDENS, J.C. :Babcock & Wilcox Co.  
DATE ISS:78/04/14, 5pp. ,48X:19493-127,ODI:GPU 0255 ,TN:GD03 IRRELEVANT

8307120694 Stresses necessity of safety analysis participation in resolution of site operational problems, to minimize cost licensing risk.

ROY, D.H. :Babcock & Wilcox Co.  
TAYLOR, J.H. :Babcock & Wilcox Co.  
DATE ISS:78/05/16, 5pp. ,48X:19493-132,ODI:GPU 0256 ,TN:GB03 3.2

8307120703 Advises of 790111 engineering dept meeting to generate specific proposals to correct underlying causes of recent incident.

WOMACK, E.A. :Babcock & Wilcox Co.  
TAYLOR, J.H. :Babcock & Wilcox Co.  
DATE ISS:79/01/08, 16pp. ,48X:19493-137,ODI:GPU 0257 ,TN:GB03 3.2

8307080757 Forwards report on startup & shutdown procedures for steam generators w/seal-welded feedwater nozzles resulting from safety concern reported in June 1977.

TAYLOR, J.H. :Babcock & Wilcox Co.  
MACHILLAN, J.H. :Babcock & Wilcox Co.  
DATE ISS:78/02/02, 5pp. ,48X:19490-068,ODI:GPU 0259 ,TN:GB03 IRRELEVANT

8307120727 Advises that preliminary report of Safety Concern PSC 18-79 will be provided upon completion.

TAYLOR, J.H. :Babcock & Wilcox Co.  
KLEIN, S.M. :Babcock & Wilcox Co.  
DATE ISS:79/05/31, 7pp. ,48X:19493-303,ODI:GPU 0262 ,TN:GB03 IRRELEVANT

8307080790 Responds to 790914 request for info re probability studies by B&W. Probability analysis on failure of PORV to reclose based on historical reactor trip & turbine trip data.

TAYLOR, J.H. :Babcock & Wilcox Co.  
FRALEY, R.F. :ACRS - Advisory Committee on Reactor Safeguards  
DATE ISS:79/12/10, 2pp. ,48X:19490-100,ODI:GPU 0265 ,TN:GB03 IRRELEVANT



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8307090051 Concurs w/RO Vosburgh 780411 findings re site problems  
review. Benefit to interface mat program to have front  
loading participation on problems. Findings encl.

LABELLE, D.W. :Babcock & Wilcox Co.

ROY, D.H. :Babcock & Wilcox Co.

DATE ISS:78/04/13, 3pp. ,48x:19490-217, ODI:GPU 0285 ,TN:G803

3.2

8307090057 Forwards RO Vosburgh & MV Bonaca recommendations re  
TMI-2 aftermath planning for improved safety.

LABELLE, D.W. :Babcock & Wilcox Co.

ROY, D.H. :Babcock & Wilcox Co.

DATE ISS:79/05/07, 5pp. ,48x:19490-220, ODI:GPU 0286 ,TN:G803

IRRELEVANT

8307090059 "Potential Lessons to be Learned From TMI-2."

LABELLE, D.W. :Babcock & Wilcox Co.

DATE ISS:79/05/25, 2pp. ,48x:19490-225, ODI:GPU 0287 ,TN:G803

IRRELEVANT

8307090093 Discusses problem of once-through steam generator dry out in  
1-2 minutes following loss of feedwater. New safety criteria  
requiring all plants to have turbine trip initiated by loss  
of feedwater indication recommended solution.

LABELLE, D.W. :Babcock & Wilcox Co.

WOMACK, E.A. :Babcock & Wilcox Co.

DATE ISS:79/05/08, 1p. ,48x:19490-296, ODI:GPU 0293 ,TN:G803

IRRELEVANT

8307090127 Advises that preliminary safety concern re reliability of  
ESFAS II discussed in DN Labelle 791207 memo has been  
closed out.

TAYLOR, J.H. :Babcock & Wilcox Co.

WOMACK, E.A. :Babcock & Wilcox Co.

DATE ISS:80/04/25, 2pp. ,48x:19490-361, ODI:GPU 0302 ,TN:G803

IRRELEVANT

8307090138 Recommends that operating plant customers be informed of  
780320 cooldown incident at Rancho Seco given suggestions  
on how to minimize plant thermal transient for loss of  
non-nuclear instrumentation.

KARRASCH, B.A. :Babcock & Wilcox Co.

OLDS, G.M. :Babcock & Wilcox Co.

DATE ISS:78/03/29, 2pp. ,48x:19491-013, ODI:GPU 0306 ,TN:G803

IRRELEVANT

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8307090141 Understands that small group of key designers organized to review SMU rapid cooldown transient & develop what could have been or could be done to reduce likelihood or limit consequences of recurrence.  
WOMACK, E.A. :Babcock & Wilcox Co.  
KARRASCH, B.A. :Babcock & Wilcox Co.  
DATE ISS:78/08/21, 10pp. ,48x:19491-016,ODI:GPU 0308 ,TN:GB03 3.2

8307130023 Operating Plant Svc Bulletin, Vol 2, Number 39.  
\* :Babcock & Wilcox Co.  
: :  
DATE ISS:77/09/30, 2pp. ,48x:19498-190,ODI:GPU 0337 ,TN:GB03 3.2

8307130033 Operating Plant Svc Bulletin, Vol 2, Number 41.  
\* :Babcock & Wilcox Co.  
: :  
DATE ISS:77/10/14, 2pp. ,48x:19498-192,ODI:GPU 0338 ,TN:GB03 3.2

8307020185 Comments on completion of first yr of commercial operation of plant.  
ROGERS, L.C. :Babcock & Wilcox Co.  
KENNEDY, J.P. :Babcock & Wilcox Co.  
DATE ISS:75/09/02, 4pp. ,48x:19224-218,ODI:GPU 0339 ,TN:GB03 3.2

8307020188 Submits operating history for first cycle at plant.  
ROGERS, L.C. :Babcock & Wilcox Co.  
PHINNEY, J.D. :Babcock & Wilcox Co.  
DATE ISS:76/02/21, 8pp. ,48x:19224-222,ODI:GPU 0340 ,TN:GB03 3.2

8307020207 Summary of 771115-16 User's Group meeting in Washington, DC.  
COBB, W.A. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:78/02/03, 33pp. ,48x:19224-251,ODI:GPU 0346 ,TN:GB03 3.2

U. S. NUCLEAR REGULATORY COMMISSION  
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8307130136 Discusses recommendation for insp & repairs to all B&W OTSG  
re possibly generic weld deficiencies.

PITTMAN, R.L. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:76/04/26, 175pp. ,4RX:19499-135,ODI:GPU 0371 ,TN:GB03 IRRELEVANT

8307060480 Outlines summarization of incident, B&W assessment of primary  
message from util & required short term actions.

\* :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:81/09/30, 3pp. ,4RX:19302-150,ODI:GPU 0381 ,TN:GB03 IRRELEVANT

8307060510 Advises of follow-up program to determine cause of Graham  
Heliflow letdown coolers failure & possible repair methods  
for leaking coolers. Parallel operation of both cooler units  
recommended.

ROGERS, L.C. :Babcock & Wilcox Co.  
HERBEIN, J.G. :Metropolitan Edison Co.  
DATE ISS:77/04/07, 2pp. ,4RX:19302-196,ODI:GPU 0391 ,TN:GB03 IRRELEVANT

8307060512 Recommends that all ethylene-propylene O-rings be replaced  
w/silicone O-rings during next refueling outage as preventive  
action for insulation deterioration. Steps for stator  
changeout, maint checks & followup discussed.

ROGERS, L.C. :Babcock & Wilcox Co.  
LAWYER, L.L. :Metropolitan Edison Co.  
DATE ISS:78/03/20, 2pp. ,4RX:19302-198,ODI:GPU 0392 ,TN:GB03 IRRELEVANT

8307060516 Advises of two burnable poison rod assemblies found outside  
of fuel assemblies at Crystal River 3 & that Davis-Besse 1 &  
TMI-2 should continue operation. Recommended precautionary  
measures discussed & immediate notification recommended.

WARD, E.G. :Babcock & Wilcox Co.  
BARTON, J.J. :General Public Utilities - GPU Service Corp.  
DATE ISS:78/03/30, 2pp. ,4RX:19302-200,ODI:GPU 0393 ,TN:GB03 IRRELEVANT

8307130146 Forwards summary & comments on B&W operating seminar. Notes  
finalized 790327, 1 day prior to accident. No attempt at  
update made, nor have notes been distributed previously.

SEELINGER, J.L. :Metropolitan Edison Co.  
HERBEIN, J.G. :Metropolitan Edison Co.  
DATE ISS:79/04/24, 14pp. ,4RX:19499-300,ODI:GPU 0394 ,TN:GB03 IRRELEVANT

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8307060519 Reactor performance status rept for Apr 1974. Answers found  
give raise to new questions. Confusion exists on higher  
level.

KANE, E.R. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:74/05/13, 1p. ,48x:19302-202, ODI:GPU 0395 ,TN:G803 IRRELEVANT

8307060521 Forwards draft repts on small break scenarios to be used in  
small break cooldown procedure. Comments requested.  
Descriptions of RCS leaks w/auxiliary feedwater & w/o  
feedwater & small breaks in pressurizer encl.

JONES, R.C. :Babcock & Wilcox Co.  
KANE, E.H. :Babcock & Wilcox Co.  
DATE ISS:79/05/02, 13pp. ,48x:19302-203, ODI:GPU 0397 ,TN:G803 IRRELEVANT

8307060528 Part 21 rept re visual linear defects in ASME III Class 2  
core flooding sys isolation valve & unacceptable indications  
in six ASME III Class 1 decay heat sys isolation valves at  
WPPSS. Cause will be investigated.

TAYLOR, J.H. :Babcock & Wilcox Co.  
MACMILLAN, J.H. :Babcock & Wilcox Co.  
DATE ISS:79/12/13, 6pp. ,48x:19302-216, ODI:GPU 0398 ,TN:G803 IRRELEVANT

8307060530 Monthly operating rept for Sept 1979.

KANE, F.R. :Babcock & Wilcox Co.  
DATE ISS:79/10/04, 7pp. ,48x:19302-222, ODI:GPU 0400 ,TN:G803 IRRELEVANT

8307060569 Forwards 780525 Rev 1 to 780329 site problem rept re Rancho  
Seco reactor trip 780320. Response states that info forwarded  
to util in transient analysis w/TMI problem. Rapid cooldown  
780727 memo & 780324 evaluation encl.

CULBERSON, D.G. :Babcock & Wilcox Co.  
ROGERS, L.C. :Babcock & Wilcox Co.  
DATE ISS:78/07/28, 50pp. ,48x:19302-265, ODI:GPU 0410 ,TN:G803 3.2

8307060637 Requests action on Task Item 78 re rereview of Davis-Besse  
transient identified in 771004 site problem rept. Chart for  
Items 73-80 of owners group tasks re TMI-2 incident encl.

\* :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:82/01/22, 2pp. ,48x:19340-008, ODI:GPU 0425 ,TN:G803 3.2

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- 8307060639 Submits recommended actions resulting from review of applicability of Davis-Besse 771004 site program rept in view of TMI-2. Further investigation of flow changes & pressurizer level & sys pressure trend recommended.  
HALLMAN, D.F. :Babcock & Wilcox Co.  
SHORT, B.J. :Babcock & Wilcox Co.  
DATE ISS: 79/06/20, 1p. ,48x:19340-010, ODI:GPU 0426 ,TN:G803 3.2
- 8307060640 Discusses site instructions issued to operating plants re TMI-2 accident. Info will be used in ACRS presentation. List of instructions & corresponding dates sent to plants encl.  
HALLMAN, D.F. :Babcock & Wilcox Co.  
KANE, E.R. :Babcock & Wilcox Co.  
DATE ISS: 79/05/25, 3pp. ,48x:19340-011, ODI:GPU 0427 ,TN:G803 IRRELEVANT
- 8307060643 Lists activities, including site program repts, weekly status repts, RADCAS, emergency operations, owners group meetings, operating experience seminar, plant data output, summary test rept, restart test rept & training contacts.  
\* :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS: 82/01/22, 1p. ,48x:19340-015, ODI:GPU 0429 ,TN:G803 IRRELEVANT
- 8307060654 Comments on effect of reactor coolant pump startup under small break LOCA conditions. Proof not conclusive that startup during small break LOCA will occur w/o difficulty. Most info suggests no effect. Calculations of test encl.  
CUDLIN, J.J. :Babcock & Wilcox Co.  
DUNN, B.M. :Babcock & Wilcox Co.  
DATE ISS: 79/05/04, 6pp. ,48x:19340-056, ODI:GPU 0435 ,TN:G803 IRRELEVANT
- 8307070014 Summarizes problems in small break operating guidelines & proposes program to rectify problems re reactor coolant pumps. Proposal will be submitted in Mar 1980 if funded in Jan 1980. Rejected 790502 proposal on emergency limits encl.  
KARRASCH, B.A. :Babcock & Wilcox Co.  
HAM, K.E. :Babcock & Wilcox Co.  
DATE ISS: 80/01/21, 15pp. ,48x:19340-066, ODI:GPU 0438 ,TN:G803 IRRELEVANT
- 8307070028 Recommends that B&W site residents should be requested to submit immediately notification of PORV operation situations. Prompt feedback to JO Carlson requested.  
TAYLOR, J.H. :Babcock & Wilcox Co.  
ELLISON, K.K. :Babcock & Wilcox Co.  
DATE ISS: 79/06/08, 1p. ,48x:19340-083, ODI:GPU 0441 ,TN:G803 IRRELEVANT

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8307070030 Task description of "B&W Operating Plant Experience Utilization."

WOMACK, E.A. :Babcock & Wilcox Co.

DATE ISS:82/01/28, 4pp. ,48x:19340-084,ODI:GPU 0442 ,TN:G803

IRRELEVANT

8307070046 Summarizes analysis of data for transients. Calculations allow estimation of transient frequencies w/consideration of power level discrimination & learning curve effect techniques. Categorized tables encl.

MONTGOMERY, R.L. :Babcock & Wilcox Co.

OELKERS, E. :Babcock & Wilcox Co.

DATE ISS:78/09/11, 28pp. ,48x:19340-102,ODI:GPU 0447 ,TN:G803

IRRELEVANT

8307060526 Summary of 770928 meeting w/Bechtel, B&W & NRC at Davis-Besse site re 770924 accident.

\* :Toledo Edison Co.

:Toledo Edison Co.

DATE ISS:77/09/28, 5pp. ,48x:19340-269,ODI:GPU 0488 ,TN:G803

3.2

8307060532 Forwards RO re 750613 electromatic relief valve malfunction due to lever pin, lever hinge & solenoid bracket corrosion. Manual/visual checks for freedom of valve motion should be performed.

WANDLING, G.K. :Babcock & Wilcox Co.

ROGERS, L.C. :Babcock & Wilcox Co.

DATE ISS:75/07/15, 1p. ,48x:19340-274,ODI:GPU 0489 ,TN:G803

3.2

8307060540 Advises that periodic insps for corrosion products of pressurizer electromatic relief valve PSV-RC 2, in areas of solenoid bracket, link pins & lever & manual/visual checks for freedom of motion, necessary to prevent malfunction.

BAKER, R.J. :Babcock & Wilcox Co.

EVANS, J.G. :Toledo Edison Co.

DATE ISS:75/07/31, 1p. ,48x:19340-276,ODI:GPU 0490 ,TN:G803

3.2

8307060547 Forwards Site Problem kept 386 re electromatic relief valve mod. Mod required due to binding condition causing pilot valve stem to stick open due to close tolerance. Pilot valve stem diameter reduced.

\* :Babcock & Wilcox Co.

KLEIN, S.H. :Babcock & Wilcox Co.

DATE ISS:78/03/27, 10pp. ,48x:19340-277,ODI:GPU 0491 ,TN:G803

IRRELEVANT



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8307060563 Discusses IE insp on 790529 & 1106-08 & forwards notice of noncompliance & proposed imposition of civil penalty.

STELLO, V. :Office of Inspection & Enforcement, Office of the Director  
MACMILLAN, J.H. :Babcock & Wilcox Co.

DATE ISS:80/04/10, 3pp. ,48x:19340-297,ODI:GPU 0497 ,TN:G803 IRRELEVANT

8307070382 Discusses near-term design improvements identified in 790416 meeting w/ACRS. Mods will provide operators w/more positive indication of PORV position & saturated temp condition indicator for RCS.

MACMILLAN, J.H. :Babcock & Wilcox Co.  
DENTON, H.R. :Office of Nuclear Reactor Regulation, Director

DATE ISS:79/04/26, 1p. ,48x:19341-109,ODI:GPU 0534 ,TN:G803 IRRELEVANT

8307070401 Discusses top 10 lessons learned from TMI-2 accident.

BERGER, D.A. :Babcock & Wilcox Co.

MACMILLAN, J.H. :Babcock & Wilcox Co.

DATE ISS:79/06/05, 10pp. ,48x:19341-112,ODI:GPU 0536 ,TN:G803 IRRELEVANT

8307070439 Discusses emergency operation guideline preparation & maint. Comments on encl LER review proposal requested by 740807.

HALLMAN, D.F. :Babcock & Wilcox Co.

WOMACK, E.A. :Babcock & Wilcox Co.

DATE ISS:79/07/30, 8pp. ,48x:19341-247,ODI:GPU 0541 ,TN:G803 IRRELEVANT

8307070449 Rev 4 to Policies & Procedures NPG-0504-12, "Preparation & Processing of Site Instructions."

\* :Babcock & Wilcox Co.

DATE ISS:78/02/20, 2pp. ,48x:19341-266,ODI:GPU 0545 ,TN:G803 IRRELEVANT

8307070453 Rev 2 to Policies & Procedures NPG-0504-13, "Preparation of Site Support Documents."

\* :Babcock & Wilcox Co.

DATE ISS:77/06/01, 18pp. ,48x:19341-268,ODI:GPU 0546 ,TN:G803 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
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8307130288 Expresses concern w/ECCS analysis re operator interruption  
of MPI following initial stage of LUCA. Operating Procedures  
to allow termination of MPI under stated conditions should  
be written.

DUNN, B.M. :Babcock & Wilcox Co.  
TAYLOR, J. :Babcock & Wilcox Co.  
DATE ISS: 78/02/09, 3pp. , 48x:19503-354, ODI:GPU 0550 , TN:GB03 3.2

8307130296 Discusses acceptable procedure for terminating MPI following  
LOCA. Procedure requested in 780209 memo will be modified  
accordingly.

DUNN, B.M. :Babcock & Wilcox Co.  
TAYLOR, J. :Babcock & Wilcox Co.  
DATE ISS: 78/02/16, 2pp. , 48x:19503-357, ODI:GPU 0551 , TN:GB03 IRRELEVANT

8307130355 Requests resolution of operator interruption of MPI during  
low-pressure transients. Memos dtd 780209 & 18 encl.

HALLMAN, D.F. :Babcock & Wilcox Co.  
KARRASCH, B.A. :Babcock & Wilcox Co.  
DATE ISS: 78/08/03, 4pp. , 48x:19504-221, ODI:GPU 0571 , TN:GB03 IRRELEVANT

8307130356 Resume of RL Pittman.

PITTMAN, R.L. :Babcock & Wilcox Co.  
DATE ISS: 83/07/13, 2pp. , 48x:19503-361, ODI:GPU 0572 , TN:GB03 IRRELEVANT

8307060538 RD SPR-372 on 770924, steam & feedwater rupture control sys  
tripped following closing of startup feedwater valve. Caused  
by open electromatic relief valve. Valve repaired.

\* :Toledo Edison Co.  
DATE ISS: 77/10/04, 14pp. , 48x:19342-071, ODI:GPU 0575 , TN:GB03 3.2

8307060613 Forwards revised general arrangement drawings determining  
location of level nozzles & measurement range.

BURRIS, J.R. :Babcock & Wilcox Co.  
RYAN, F. :Babcock & Wilcox Co.  
DATE ISS: 74/09/20, 4pp. , 48x:19343-139, ODI:GPU 0596 , TN:GB03 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307060622 Operation time log for 780428.

\* :General Public Utilities - GPU Service Corp.  
:   
DATE ISS:78/04/28, 1p., 48x:19343-145,ODI:GPU 0598 ,TN:GB03 IRRELEVANT

8307060625 Rev 1 to "Reactivity Calculation."

HOYT,K.R. :General Public Utilities - GPU Service Corp.  
:   
DATE ISS:77/09/08, 4pp., 48x:19343-146,ODI:GPU 0599 ,TN:GB03 3.2

8307060442 Temporary Change Notice 2-78-410 to Procedure 2103-1.9,  
"Reactivity Balance." Change will update estimated physics  
values w/zero power physics test measured results.

BENSON,M.J. :Metropolitan Edison Co.  
:   
DATE ISS:78/04/19, 4pp., 48x:19343-206,ODI:GPU 0601 ,TN:GB03 3.2

8307060603 Telcon w/T Murray re operation of HPI during 770924 event.  
Procedure should be revised.

STREETER,J. : Region 2, Atlanta, Office of the Director  
:   
DATE ISS:78/09/13, 2pp., 48x:19344-084,ODI:GPU 1020 ,TN:GB03 3.2

8307060607 Forwards writeups re description of event, evaluation of  
reactor coolant components, evaluation of RC pumps &  
evaluation of fuel pertaining to 770924 depressurization  
event.

LAUER,J.A. :Sabcock & Wilcox Co.  
DOMECK,C.R. :Toledo Edison Co.  
DATE ISS:77/10/28, 24pp., 48x:19344-086,ODI:GPU 1021 ,TN:GB03 3.2

8307120798 Subol RU NP-32-77-16: on 770924, series of events occurred,  
resulting in depressurization of primary sys from normal  
pressure. Caused by steam feedwater rupture control sys  
spurious half trip.

MURRAY,T.D. :Toledo Edison Co.  
KEPPLER,J.G. :Region 3, Office of Director  
DATE ISS:77/11/14, 58pp., 48x:19494-103,ODI:GPU 2006 ,TN:GB03 3.2

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307120814 Graphs re 770924 reactor trip.

\* :Toledo Edison Co.  
:   
DATE ISS:77/09/24, 3pp. ,48x:19494-165,00I:GPU 2007 ,TN:G803 3.2

8307120819 Facility change request re provision of indication lights in control room to indicate valve or valve lever condition & automatic closure of isolation valve RC-11, Drawings & external ltrs encl.

STALTER, G. :Toledo Edison Co.  
:   
DATE ISS:77/09/27, 59pp. ,48x:19494-166,00I:GPU 2008 ,TN:G803 IRRELEVANT

8307120823 Inform of review of available data re 770924 transient in which reactor coolant pressure dropped. No degradation of safety considered & facility may be operated as designed.

LAZAR, A.H. :Babcock & Wilcox Co.  
DOMECK, C.R. :Toledo Edison Co.  
DATE ISS:77/10/05, 2pp. ,48x:19494-227,00I:GPU 2009 ,TN:G803 3.2

8307070264 Forwards LER 77-016/01T=0 & supplemental info sheet.

EVANS, J. :Toledo Edison Co.  
KEPPLER, J.G. : Region 3, Chicago, Office of the Director  
DATE ISS:77/10/07, 1p. ,48x:19367-001,00I:GPU 2010 ,TN:G803 3.2

8307120828 Responds to 771006 telcon requesting addl info re basis of conclusions concerning review data of 770924 depressurization event. Considerations which conclusions based on listed.

LAZER, A.H. :Babcock & Wilcox Co.  
DOMECK, C.R. :Toledo Edison Co.  
DATE ISS:77/10/07, 3pp. ,48x:19494-229,00I:GPU 2011 ,TN:G803 3.2

8307120833 Provides writeups to substantiate conclusions BWT-1578 & 1579 in 771005 & 07 ltrs, re 770924 depressurization event. Categories in write ups listed.

LAZAR, A.H. :Babcock & Wilcox Co.  
DOMECK, C.R. :Toledo Edison Co.  
DATE ISS:77/11/01, 32pp. ,48x:19494-232,00I:GPU 2012 ,TN:G803 3.2

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NRC SPECIAL REPORT

8307120837 Supplementals 771101 ltr re input for rept concerning 770924  
depressurization event, write up evaluating reactor coolant  
components encl.

LAZAR, A.H. :Babcock & Wilcox Co.  
DOMECK, C.H. :Toledo Edison Co.  
DATE ISS:77/11/07, 4pp. ,48x:19494-264, ODI:GPU 2013 ,TN:GB03 3.2

8307120857 Senior License SOP-2859 for MJ Derivan.

COLLINS, P.F. :Toledo Edison Co.  
DATE ISS:77/01/21, 3pp. ,48x:19495-026, ODI:GPU 2017 ,TN:GB03 IRRELEVANT

8307070281 Timed print out of sequence of events.

\* :General Public Utilities - GPU Service Corp.  
DATE ISS:77/09/24, 34pp. ,48x:19338-074, ODI:GPU 2021 ,TN:GB03 3.2

8307120799 Forwards agenda for B&W Users Group 771115 & 16 meeting in  
Washington, DC.

COBB, W.A. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:77/11/07, 4pp. ,48x:19502-348, ODI:GPU 2023 ,TN:GB03 IRRELEVANT

8307120810 Outlines 780305-07 B&W Util Nuclear Operating Experience  
Seminar Program in Hershey, PA

\* :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:78/03/05, 3pp. ,48x:19502-354, ODI:GPU 2025 ,TN:GB03 IRRELEVANT

8307070292 Speech entitled "B&W Capabilities & Experience Supporting  
Plant Startup, Operations & Maint," presented at 780306-07  
nuclear operating experience seminar in Hershey, PA.

BAKER, R.J. :Babcock & Wilcox Co.  
DATE ISS:78/03/06, 37pp. ,48x:19338-118, ODI:GPU 2027 ,TN:GB03 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
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8307070301 Speech entitled "Plant Chemistry Update - 1977," presented at 780306-07 nuclear operating experience seminar in Hershey, PA.

BELL, M. J. :Babcock & Wilcox Co.

DATE ISS:78/03/06, 8pp. ,48x:19338-152,001:GPU 2028 ,TN:GB03

IRRELEVANT

8307120817 Forwards agenda for B&W Users Group meeting in Chicago, IL to review once-through steam generator tube program, secondary side water chemistry & update refueling experience & prior problems.

COBB, W. A. :Babcock & Wilcox Co.

:Babcock & Wilcox Co.

DATE ISS:78/04/28, 6pp. ,48x:19502-357,001:GPU 2029 ,TN:GB03

IRRELEVANT

8307120827 Notification of B&W Users Group 780509 meeting to discuss once-through steam generator tube program & secondary side water chemistry.

O'HANLON, J. P. :Metropolitan Edison Co.  
:Metropolitan Edison Co.

DATE ISS:78/05/05, 7pp. ,48x:19503-001,001:GPU 2030 ,TN:GB03

IRRELEVANT

8307120855 Forwards B&W Users Group 780514 meeting minutes re once-through steam generator (OTSG) tube problem, secondary side water chemistry, OTSG level control during heatup & recent refueling experience update.

COBB, W. A. :Babcock & Wilcox Co.

HERBEIN, J. G. :Metropolitan Edison Co.

DATE ISS:78/08/16, 15pp. ,48x:19503-008,001:GPU 2031 ,TN:GB03

IRRELEVANT

8307120866 Summary of B&W Users Group Oct 1978 meeting in Middletown, PA re once-through steam generator tube problem, owners group programs, refueling experience, fuel handling equipment & reactor coolant pump seals. Next B&W meeting on 790509-10.

O'HANLON, J. P. :Metropolitan Edison Co.  
:Metropolitan Edison Co.

DATE ISS:78/10/10, 15pp. ,48x:19503-023,001:GPU 2032 ,TN:GB03

IRRELEVANT

8307120879 Forwards B&W Users Group 781004-05 meeting minutes re once-through steam generator tube problem, control rod drive mechanism stator program, incore detector experience & plant experience repts. Next B&W group meeting on 790509 & 10.

COBB, W. A. :Babcock & Wilcox Co.

SMITH, J. E. :Duke Power Co.

DATE ISS:79/02/26, 45pp. ,48x:19503-038,001:GPU 2033 ,TN:GB03

IRRELEVANT



U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307120889 Discusses once-through steam generator (OTSG) level requirements during plant shutdown & startup. Operating guidelines for maintaining OTSG level encl.

ROGERS, L.C. :Babcock & Wilcox Co.

LAWYER, L.L. :Metropolitan Edison Co.

DATE ISS:78/02/01, 3pp. ,48x:19503-083,ODI:GPU 2034 ,TN:G803

IRRELEVANT

8307120899 Forwards LEK 78-008/01T-0.

HERBEIN, J.G. :Metropolitan Edison Co.

GHIER, B.H. : Region 1, Philadelphia, Office of the Director

DATE ISS:78/02/16, 1p. ,48x:19513-316,ODI:GPU 2036 ,TN:G803

IRRELEVANT

8307120915 Discusses Part reat re potential for loss of ground within NI/RPS detection. Corrective actions described in encl, "177 FA Plants Nuclear Instrumentation/Reactor Protection Sys Ground Problem Discussion & Recommended Test Scheme."

JANIS, J.T. :Babcock & Wilcox Co.

PUTTS, W.E. :Metropolitan Edison Co.

DATE ISS:78/03/07, 22pp. ,48x:19503-094,ODI:GPU 2037 ,TN:G803

IRRELEVANT

8307120923 Forwards "Current Events - Power Reactors, Sept-Oct 1977," for review for test program & design mod requirements for Unit 2. Review indicates no action required.

TOOLE, H.J. :General Public Utilities - GPU Service Corp.

HEWARD, R.W. :General Public Utilities - GPU Service Corp.

DATE ISS:78/01/15, 2pp. ,48x:19503-117,ODI:GPU 2043 ,TN:G803

3.2

8307120948 Time vs pressure graph of reactor trip & cooldown on 720423.

\* :General Public Utilities - GPU Service Corp.

DATE ISS:78/04/23, 1p. ,48x:19503-184,ODI:GPU 2053 ,TN:G803

3.2

8307120950 "TMI-1/Oyster Creek O&M Cost Comparison." EEI nuclear plant staffing survey Jan 1978 encl.

ARNOLD, R.C. :General Public Utilities - GPU Service Corp.

DATE ISS:79/03/27, 3pp. ,48x:19503-185,ODI:GPU 2056 ,TN:G803

IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307120952 Operator License OP-3614 for WM Zewe at DPR-50.

COLLINS, P.F. : Atomic Energy Commission, Directorate of Licensing  
:   
DATE ISS: 74/08/08, 200. , 48x: 19503-188, ODI: GPU 2060 , TN: GB03 IRRELEVANT

8307110320 Graphs re pressurizer levels, reactor coolant pressure & steam generator A operating level.

\* : General Public Utilities - GPU Service Corp.  
:   
DATE ISS: 83/07/09, 600. , 48x: 19483-301, ODI: GPU 2068 , TN: GB03 3.1

8307080017 Transcript of President's Commission on Accident at TMI third meeting on 790530 in Washington, DC. Pp 1-210, w/o Pp 5-112.

\* : President's Commission on the Accident at Three Mile Island  
:   
DATE ISS: 79/05/30, 1030p. , 48x: 19338-209, ODI: GPU 2069 , TN: GB03 3.1

8307110323 Discusses 771019 incident re water in instrument air lines at condensate polisher control panel & regeneration skid resulting in loss of feedwater condition. Cause not determined. Corrective actions to prevent recurrence listed.

\* : Metropolitan Edison Co.  
MILLER, G.P. : Metropolitan Edison Co.  
DATE ISS: 77/11/14, 400. , 48x: 19483-307, ODI: GPU 2070 , TN: GB03 IRRELEVANT

8307110349 "TMI-2 Annotated Sequence of Events, 790328."

VAN WITBECK, T. : General Public Utilities - GPU Service Corp.  
:   
DATE ISS: 81/02/06, 1520p. , 48x: 19483-340, ODI: GPU 2079 , TN: GB03 3.1

8307110353 IE Investigative Report 50-320/79-10 on 790328.

\* : Office of Inspection & Enforcement, Office of the Director  
:   
DATE ISS: 79/08/31, 1250p. , 48x: 19483-169, ODI: GPU 2080 , TN: GB03 3.1

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307110795 Revised "Analysis of TMI-Unit 2 Accident."

\* :Electric Power Research Institute  
: DATE ISS:80/03/31, 59pp. ,48x:19463-151,001:GPU 2081 ,TN:G803 3.1

8307110796 "TMI Rept to Commissioners & Public," Vol 2,Part 2.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/11, 58pp. ,48x:19463-210,001:GPU 2082 ,TN:G803 3.1

8307120001 "Control Room Computer Alarm for 790328-29."

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/03/28, 128pp. ,48x:19463-269,001:GPU 2084 ,TN:G803 3.1

8307110804 Rev 0 to "No-Name Outage Lists,Unit 2."

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/02/01, 7pp. ,48x:19464-045,001:GPU 2087 ,TN:G803 IRRELEVANT

8307110803 Rev 1A to "No-Name Outage Lists,Unit 2."

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/02/12, 8pp. ,48x:19464-052,001:GPU 2088 ,TN:G803 IRRELEVANT

8307110802 Rev 2 to "No-Name Outage Lists,Unit 2."

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/02/06, 9pp. ,48x:19464-060,001:GPU 2089 ,TN:G803 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
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8307110801 Rev 5 to "No-Name Outage Lists, Unit 2."

\* :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:79/05/14, 10pp. ,48x:19464-068,ODI:GPU 2090 ,TN:G803 IRRELEVANT

8307110800 "Calculations of Radiation Leak Measurements, Core Burnup,  
Tests & Soecial Operations," for 790115-27.

\* :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:79/01/15, 14pp. ,48x:19464-079,ODI:GPU 2091 ,TN:G803 IRRELEVANT

8307110799 Rev 1 to "Atmosphere Dump bellows Outage, Unit 2."

\* :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:79/01/16, 30pp. ,48x:19464-093,ODI:GPU 2092 ,TN:G803 IRRELEVANT

8307120875 "Discharge Line Temp for 781201 - 790115."

\* :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:79/01/15, 3pp. ,48x:19499-314,ODI:GPU 2095 ,TN:G803 IRRELEVANT

8307120881 "Discharge Line Temp for 790131-0327."

\* :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:79/03/27, 2pp. ,48x:19499-317,ODI:GPU 2096 ,TN:G803 IRRELEVANT

8307080355 Forwards IE Insp Repts 50-289/79-08 & 50-320/79-07 on  
790319-23 & 26.No noncompliance noted.

BRUNNER, E.J. : Region 1, Philadelphia, Reactor Operations Nuclear Support  
HERBEIN, J.G. : Metropolitan Edison Co.  
DATE ISS:79/04/20, 2pp. ,48x:19339-142,ODI:GPU 2108 ,TN:G803 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307080372 "Investigation of TMI-2 Pressurizer PORV Discharge Pipe  
Temos."

SHELL, J.P. : General Public Utilities - GPU Service Corp.  
:

DATE ISS: 80/02/28, 52pp. ,48x:19339-154,001:GPU 2109 ,TN:G803

IRRELEVANT

8307120922 Forwards LER 78-069/99x-0.

KUNDER, G. : Metropolitan Edison Co.

TROFFER, G.J. : NRC - No Detailed Affiliation Given

DATE ISS: 79/12/31, 1p. ,48x:19500-177,001:GPU 2159 ,TN:G803

3.2

8307120932 LER 78-065/99x-0: on 781107, reduction in feedwater flow led  
to reactor trip & subsequent safety injection actuation.  
Caused by reduction in feedwater flow during physics testing  
testing, which requires operating at elevated tave.

STAIR, J.R. : Metropolitan Edison Co.

: Region 1, Philadelphia, Office of the Director

DATE ISS: 79/01/30, 3pp. ,48x:19500-182,001:GPU 2160 ,TN:G803

3.2

8307120934 Transcript of 790423 TMI-2 investigation interview w/E  
Frederick, Po 1-101.

FREDERICK, E. : General Public Utilities - GPU Service Corp.  
:

DATE ISS: 79/06/28, 102pp. ,48x:19500-185,001:GPU 2161 ,TN:G803

3.1

8307050454 Requests that each shift foreman review EP12 02 - 282A,  
"Station Blackout" & "Station Blackout w/Loss of Diesel  
Generators," w/shift. Encl ltr re Indian Point Unit 3 770713  
trip forwarded for review & info.

O'HANLON, J.P. : Metropolitan Edison Co.

FLOYD, J.R. : Metropolitan Edison Co.

DATE ISS: 77/07/22, 5pp. ,48x:19231-040,001:GPU 2172 ,TN:G803

IPRELEVANT

8307050475 Procedure change request for Rev 8 to EP 1202-6, "Loss of  
Reactor Coolant/Reactor Coolant Pressure."

\* : General Public Utilities - GPU Service Corp.  
:

DATE ISS: 79/10/31, 55pp. ,48x:19231-063,001:GPU 2175 ,TN:G803

IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307050481 Operational log, Summary of plant operation for 770912-0915.

\* :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:77/09/15, 87pp. ,48x:19231-118,00I:GPU 2176 ,TN:G803 IRRELEVANT

8307050484 Site Problem Rept 195 re BWNP-20345-1(8-78) which will not  
open w/plant pressure at 2,275 psi or in manual control in  
control room.

\* :Babcock & Wilcox Co.  
: :  
DATE ISS:78/12/12, 3pp. ,48x:19231-205,00I:GPU 2179 ,TN:G803 IRRELEVANT

8307120839 Forwards "EGCS Analysis Unit Activities Rept, Dec 1978."

DUNN, B. :Babcock & Wilcox Co.  
WOMACK, E.A. :Babcock & Wilcox Co.  
DATE ISS:79/01/02, 3pp. ,48x:19497-019,00I:GPU 2202 ,TN:G803 IRRELEVANT

8307050504 Summary of 790515 telcon w/Z Rosztoczyn re stuck open PORV  
w/pumps running & no auxiliary feed. No core uncoverv  
will take place even if reactor pumps trip at most  
unfavorable time.

DUNN, B.M. :Babcock & Wilcox Co.  
KANE, E.R. :Babcock & Wilcox Co.  
DATE ISS:79/05/29, 2pp. ,48x:19231-293,00I:GPU 2203 ,TN:G803 IRRELEVANT

8307050508 Vol II Part 2 "TMI:Rpt to Commissioners & to Public."

ROGOVIN, M. :NRC Three Mile Island Task Force  
: :  
DATE ISS:79/12/31, 59pp. ,48x:19231-295,00I:GPU 2204 ,TN:G803 3.1

8307050509 "Analysis of TMI-Unit 2 Accident."

\* :Nuclear Safety Analysis Center  
: :  
DATE ISS:80/03/31, 59pp. ,48x:19231-354,00I:GPU 2205 ,TN:G803 3.1



U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307020254 "Analysis of TMI-2 Accident w/Continuous Operation of  
Reactor Coolant Pumps."

\* :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:82/12/31, 22pp. ,48x:19222-023,00I:GPU 2213 ,TN:GB03 IRRELEVANT

8307020256 Requests that B&W 77-1125999-01 describing ECCS analysis  
performed as part of FFW upgrade program be forwarded to  
customers as committed.

VANSCOOPER,W.E.:dabcock & wilcox Co.  
BEALE,G.U. :dabcock & wilcox Co.  
DATE ISS:81/07/17, 1p. ,48x:19222-045,00I:GPU 2216 ,TN:GB03 IRRELEVANT

8307020258 Submits evaluation of reduced steam generator level.

ANDERSON,G.E. :dabcock & wilcox Co.  
SCOOTER,W.E. :dabcock & wilcox Co.  
DATE ISS:81/01/15, 4pp. ,48x:19222-046,00I:GPU 2217 ,TN:GB03 IRRELEVANT

8307120894 "Analysis of RCS Markup During TMI-2 Event."

\* :EDS Nuclear, Inc.  
:  
DATE ISS:82/12/29, 90pp. ,48x:19497-126,00I:GPU 2223 ,TN:GB03 3.1

8307130409 Operational log,Summary for 790201.

SMITH,B.G. :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:79/02/01, 4pp. ,48x:19497-216,00I:GPU 2230 ,TN:GB03 IRRELEVANT

8307130010 Operational log,Summary for 790202.

SMITH,B.G. :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:79/02/02, 4pp. ,48x:19497-220,00I:GPU 2231 ,TN:GB03 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307050265 Site Problem Rept 195 re electromatic relief valve.

\* :Babcock & Wilcox Co.  
: DATE ISS:78/12/12, 3pp. ,48x:19226-123,ODI:GPU 2236 ,TN:G803 IRRELEVANT

8307130044 Operational log,Summary for 780420-22.

MILLER,G.P. :General Public Utilities - GPU Service Corp.  
: DATE ISS:78/04/22, 3pp. ,48x:19497-233,ODI:GPU 2237 ,TN:G803 IRRELEVANT

8307050269 Record of plant operation.

MILLER,G.P. :General Public utilities - GPU Service Corp.  
: DATE ISS:78/03/28, 4pp. ,48x:19222-075,ODI:GPU 2238 ,TN:G803 IRRELEVANT

8307130058 Provides preliminary evaluation of Unit 2 780423 rapid  
cooldown transient.Continued operation of reactor coolant  
pumps recommended.

WANDLING,G.K. :Babcock & Wilcox Co.  
ROGERS,L.C. :Babcock & Wilcox Co.  
: DATE ISS:78/05/08, 9pp. ,48x:19497-240,ODI:GPU 2263 ,TN:G803 3.2

8307110746 Restoration of auxiliary feedwater initialized to t=0.

\* :Metropolitan Edison Co.  
: DATE ISS:79/03/28, 1p. ,48x:19482-186,ODI:GPU 2324 ,TN:G803 3.2

8307080043 Graph of temp average for reactor trips in which automatic  
MPI occurred w/Davis Besse-1 770924 event.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:78/12/02, 1p. ,48x:19360-093,ODI:GPU 2327 ,TN:G803 3.2

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

- 8307080093 Forwards adnl info to AQ-287/75-7 re excessive RCS cooldown rate transmitted on 750627. Corrective actions to prevent recurrence: shutdown procedure revised to include change to prevent decreasing load demand below 120 MWE.  
PARKER, W.O. : Duke Power Co.  
MOSELY, N.C. : Region 2, Atlanta, Office of the Director  
DATE ISS: 75/08/08, 300, ,48x:19360-098, ODI: GPU 2332 , TN: G803 3.2
- 8307080110 "Summary of Operating Problems w/Pressurizer Electromatic Relief Valves."  
\* : General Public Utilities - GPU Service Corp.  
DATE ISS: 83/07/07, 400, ,48x:19361-093, ODI: GPU 2343 , TN: G803 3.2
- 8307120599 Forwards summaries of nine incidents involving PORV malfunctions. Investigation re PORV state upon loss of power underway.  
SPANGLER, W.H. : Babcock & Wilcox Co.  
GLDS, G.M. : Babcock & Wilcox Co.  
DATE ISS: 79/05/21, 1100, ,48x:19495-062, ODI: GPU 2344 , TN: G803 3.2
- 8307080117 Site Problem Rept 107 re electromatic relief valve malfunction. Problem possibly generic to other plants. Caused by corrosion of lever pin, hinge & solenoid bracket resulting in restraint of lever in ported position.  
\* : Babcock & Wilcox Co.  
DATE ISS: 75/11/21, 700, ,48x:19361-097, ODI: GPU 2346 , TN: G803 3.2
- 8307080124 Partial transcript of JJ Kelly testimony re abnormal transient operational guidelines program. Pp 225-232.  
\* : General Public Utilities - GPU Service Corp.  
DATE ISS: 83/07/06, 900, ,48x:19361-104, ODI: GPU 2384 , TN: G803 IRRELEVANT
- 8307080132 Suopls 771101 ltr re input to TECO reot concerning 770924 depressurization event. Evaluation of reactor coolant components encl.  
LAUER, J.A. : Babcock & Wilcox Co.  
DOMECK, C.R. : Toledo Edison Co.  
DATE ISS: 77/11/07, 300, ,48x:19361-113, ODI: GPU 2400 , TN: G803 3.2

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

- 8307080141 Recommends action to be taken on Contract 3-13 to prevent excessive cooldown that plant experienced during loss of station power. SPR=158, natural circulation level setpoint should be reduced to 50% on operate range.  
KARRASCH, B.A. :Babcock & Wilcox Co.  
PITTMAN, R.L. :Babcock & Wilcox Co.  
DATE ISS:74/02/07, 2pp. ,48x:19361-131,ODI:GPU 2404 ,TN:G803 IRRELEVANT
- 8307080195 Discusses 731229-740104 weekly rept re hot functional testing.  
PHINNEY, J.D. :Babcock & Wilcox Co.  
BEACH, M.R. :Babcock & Wilcox Co.  
DATE ISS:74/01/04, 3pp. ,48x:19361-146,ODI:GPU 2411 ,TN:G803 IRRELEVANT
- 8307080200 Responds to 771006 telcon requesting more info re basis for vendor conclusions on 770924 depressurization event.  
LAZAR, A.H. :Babcock & Wilcox Co.  
DOMECK, C. :Toledo Edison Co.  
DATE ISS:77/10/07, 2pp. ,48x:19361-151,ODI:GPU 2412 ,TN:G803 3.2
- 8307080231 Requests info as to any similar events at B&W plants previous to Davis-Besse event re loss of pressurizer level.  
FOSTER, J.Z. : Region 3, Chicago, Office of the Director  
TAYLOR, J.H. :Babcock & Wilcox Co.  
DATE ISS:79/01/31, 2pp. ,48x:19361-154,ODI:GPU 2417 ,TN:G803 3.2
- 8307080239 Requests evaluation of fuel performance re Davis-Besse 770924 depressurization event.  
MEYER, G.A. :Babcock & Wilcox Co.  
LAUER, J.A. :Babcock & Wilcox Co.  
DATE ISS:77/10/05, 2pp. ,48x:19361-161,ODI:GPU 2418 ,TN:G803 3.2
- 8307080271 Expresses appreciation for outstanding job in conduct of review re efforts, findings & recommendations concerning mgt review of preliminary safety concerns procedure.  
ROY, D.H. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:79/12/14, 12pp. ,48x:19361-168,ODI:GPU 2421 ,TN:G803 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307080323 Request Safety Analysis be alerted to site operational problems & participate in resolution.

ROY, D.M. :Babcock & Wilcox Co.

TAYLOR, W.H. :Babcock & Wilcox Co.

DATE ISS:7/05/78, 4pp. ,48x:19361-239,001:GPU 2432 ,TN:G803

IRRELEVANT

8307080373 Understands that small group of key designers will be put together to review SMUD rapid cooldown transient. Group will determine what could be done in B&W NSS(plant) design to reduce likelihood of recurrence.

WOMACK, D.A. :Babcock & Wilcox Co.

KARRASCH, B.A. :Babcock & Wilcox Co.

DATE ISS:7/08/78, 1p. ,48x:19361-258,001:GPU 2439 ,TN:G803

3.2

8307080408 Summary of 790515 telecon w/Z Rosztochy re request for addl info on expected results of study, open PORV, small break w/loss of auxiliary feedwater & reactor coolant pumps running.

GJNN, B.M. :Babcock & Wilcox Co.

KIRK, E.R. :Babcock & Wilcox Co.

DATE ISS:7/05/79, 2pp. ,48x:19361-269,001:GPU 2445 ,TN:G803

IRRELEVANT

8307080498 Submits recommendations for RCS low pressure alarm & electromagnetic relief valve reset pressure, per high pressure injection aerodint.

ROGERS, L.C. :Babcock & Wilcox Co.

TOULE, R.J. :Metropolitan Edison Co.

DATE ISS:7/09/79, 2pp. ,48x:19361-341,001:GPU 2450 ,TN:G803

IRRELEVANT

8307080685 Summary of 790214 meeting w/NRC, Toledo Edison, Met Ed, SMUD, & Arkansas Power & Light in Lynchburg, VA re loss of pressurizer level indication at Davis Besse Unit 1. Ltrs from utility re loss of pressurizer level indication encl.

WILLSE, J.T. :Babcock & Wilcox Co.

:Babcock & Wilcox Co.

DATE ISS:7/03/04, 8pp. ,48x:19491-047,001:GPU 2504 ,TN:G803

3.2

8307080694 Forwards B&W input to report to NRC concerning 770924 depressurization event at Davis Besse. Input includes description of event, evaluation of reactor coolant components & evaluation of fuel.

LAZAR, A.H. :Babcock & Wilcox Co.

UDRECK, C.R. :Toledo Edison Co.

DATE ISS:77/11/01, 31pp. ,48x:19491-055,001:GPU 2507 ,TN:G803

3.2

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

- 8307080715 HQ B-350: on 750613, during maint shutdown, RCS pressure spike occurred, opening power actuated pressure relief valve 3RC66. Valve stuck in open position. Caused by heat expansion & boron buildup. Valve will be removed, repaired & replaced.  
CURTIS, T. : Duke Power Co.  
DATE ISS: 75/06/13, 30p. , 48x:19491-114, ODI: GPU 2511 , TN: GB03 3.2
- 8307080721 Forwards site problem report re electromagnetic relief valve malfunction resulting from corrosion of lever pin & lever hinge. Customers should be advised to inspect periodically for corrosion & valve motion during shutdown.  
WANDLING, G.K. : Babcock & Wilcox Co.  
RUGERS, L.C. : Babcock & Wilcox Co.  
DATE ISS: 75/07/15, 20p. , 48x:19491-144, ODI: GPU 2512 , TN: GB03 3.2
- 8307080728 RO: on 731104, during heatup, electromagnetic relief valve RC-66 (RC-RV3) failed to close properly. Pilot valve will be disassembled for insp.  
MCCONNELL, R.J. : Babcock & Wilcox Co.  
DATE ISS: 73/12/11, 90p. , 48x:19491-151, ODI: GPU 2513 , TN: GB03 3.2
- 8307120629 Discusses mat policy on detailed incident report for every significant incident affecting d&w plant. Practice of complete follow through on every incident should be established.  
TAYLOR, J.H. : Babcock & Wilcox Co.  
DEDDENS, J.C. : Babcock & Wilcox Co.  
DATE ISS: 78/04/14, 20p. , 48x:19495-155, ODI: GPU 2600 , TN: GB03 IRRELEVANT
- 8307120633 Forwards C-E program for plant incident evaluations, in response to 780414 ltr. Meeting requested to discuss implementation of 780414 recommendation.  
FAHLAND, F.R. : Babcock & Wilcox Co.  
TAYLOR, J.H. : Babcock & Wilcox Co.  
DATE ISS: 78/04/19, 20p. , 48x:19495-157, ODI: GPU 2601 , TN: GB03 IRRELEVANT
- 8307080780 Pressurizer level top/RCS pressure bottom for 770907-08.  
\* : General Public Utilities - GPU Service Corp.  
DATE ISS: 77/09/08, 110p. , 48x:19491-244, ODI: GPU 2610 , TN: GB03 3.2



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NRC SPECIAL REPORT

8307080781 Operational log. Summary of startup shift test engineer log  
book for 770907-09.

ULRICH, J.C. : General Public Utilities - GPU Service Corp.  
: :  
DATE ISS: 77/09/09, 8pp., 48x:19491-255, ODI: GPU 2611 , TN: GB03 3.2

8307080783 Operational log. Summary of relief valve testing for  
770907-09.

ULRICH, J.C. : General Public Utilities - GPU Service Corp.  
: :  
DATE ISS: 77/09/09, 9pp., 48x:19491-263, ODI: GPU 2613 , TN: GB03 IRRELEVANT

8307080784 RCS pressure graphs for 770906-07.

\* : General Public Utilities - GPU Service Corp.  
: :  
DATE ISS: 77/09/07, 10pp., 48x:19491-272, ODI: GPU 2614 , TN: GB03 3.2

8307080786 RCS pressure graphs for 770906-09.

\* : General Public Utilities - GPU Service Corp.  
: :  
DATE ISS: 77/09/09, 7pp., 48x:19491-282, ODI: GPU 2615 , TN: GB03 3.2

8307080787 RCS pressure graphs for 770906.

\* : General Public Utilities - GPU Service Corp.  
: :  
DATE ISS: 77/09/06, 4pp., 48x:19491-289, ODI: GPU 2616 , TN: GB03 3.2

8307120643 "Evaluation of Transient behavior & Small RCS Breaks in  
177 Fuel Assembly Plant, Vol II, App 1: Natural Circulation in  
B&W Operating Plants."

BAILEY, M.A. : Babcock & Wilcox Co.  
: :  
DATE ISS: 79/05/07, 4pp., 48x:19495-176, ODI: GPU 2617 , TN: GB03 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307080789 Discusses potential effect of loop seals in pressurizer surge line.

\* :General Public Utilities - GPU Service Corp.  
NELSON, D.D. :General Public Utilities - GPU Service Corp.  
DATE ISS:78/01/10, 5pp. ,48x:19491-293,00I:GPU 2618 ,TN:G803

IRRELEVANT

8307120654 Diagram of initial conditions at t=0, for loops A & B on 790328. Sys steady at 97% power & main feedwater flow tripped at t.

\* :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:79/03/28, 2pp. ,48x:19504-354,00I:GPU 3100 ,TN:G803

3.1

8307120675 Diagram of steam generator loops A & B at t=1 minute 45 s on 790328. PORV stuck open, both steam generators dry & 1700 psia due to post scram coolant shrink.

\* :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:83/07/12, 1p. ,48x:19504-261,00I:GPU 3101 ,TN:G803

3.1

8307120680 Diagram of steam generator loops A & B at t=8 minute 18 s on 790328. Primary sys nearly liquid solid, liquid expanding w/increasing temp, auxiliary feedwater block valves opened & pressure decreased to 1500 psia.

\* :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:83/07/12, 1p. ,48x:19504-262,00I:GPU 3102 ,TN:G803

3.1

8307120685 Diagram of steam generator loops A & B at t=20 minute. Primary sys cooling down via steam generators, primary sys voids increasing & pressure at 1100 psia.

\* :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:83/07/12, 1p. ,48x:19504-263,00I:GPU 3103 ,TN:G803

3.1

8307120689 Diagram of steam generator loops A & B at t=90 minute. Loop A pumps operating, loop B stagnant after shutdown of pumps, primary sys voids increasing & pressure at 1050 psia.

\* :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:83/07/12, 1p. ,48x:19504-264,00I:GPU 3104 ,TN:G803

3.1

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

- 8307120693 Diagram of steam generator loops A & B at t=100 minute on  
830328. Loop A pumps off, steam generator A secondary level  
increasing, pressurizer surge line flooded & pressure at 920  
psia.  
\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/12, 1p. ,48x:19504-265,ODI:GPU 3105 ,TN:GB03 3.1
- 8307120701 Diagram of steam generator loops A & B at t=125 minute on  
790328. All pumps off, reactor core drying out & heating up,  
superheated steam formed in core & pressure at 750 psia.  
\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/12, 1p. ,48x:19504-266,ODI:GPU 3106 ,TN:GB03 3.1
- 8307120708 Diagram of steam generator loops A & B at t=139 minute on  
790328. PORV block valve closed, core dryout & heatup  
continuing & pressure at 750 psia.  
\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/12, 1p. ,48x:19504-267,ODI:GPU 3107 ,TN:GB03 3.1
- 8307120715 Diagram of steam generator loops A & B at t=150 minute on  
790328. Primary pressure increased to 820 psia, core dryout &  
heatup continuing, clad ballooning & rupture & hydrogen  
generation by zirconium/water reaction begins.  
\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/12, 1p. ,48x:19504-268,ODI:GPU 3108 ,TN:GB03 3.1
- 8307120720 Diagram of steam generator loops A & B at t=180 minute on  
790328. Fuel embrittled, core partially quenched by fluid  
subsequent to Loop B pump start & pressure increased to  
2,050 psia.  
\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/13, 1p. ,48x:19504-269,ODI:GPU 3109 ,TN:GB03 3.1
- 8307120887 Comparative graphs in terms of avg temp, pressurizer level &  
RCS pressure for 770924 & 790328 events at Davis-Besse 1 &  
TMI-2, respectively.  
\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/12, 1p. ,48x:19512-047,ODI:GPU 3161 ,TN:GB03 3.1



U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307050348 Transcript of Zewe 790824-25 testimony.P 17.

ZEW E                   :General Public Utilities - GPU Service Corp.  
:                   :  
DATE ISS:79/08/24,   2pp.   ,48x:19232-060,ODI:GPU 6001 CC   ,TN:GB03   3.1

8307050353 Transcript of Zewe 790824-25 testimony.P 18.

ZEW E                   :General Public Utilities - GPU Service Corp.  
:                   :  
DATE ISS:79/08/24,   2pp.   ,48x:19232-062,ODI:GPU 6001 DD   ,TN:GB03   3.1

8307050363 Transcript of 230th ACRS general meeting on 790615 in  
Washington,DC.P 325.

\*                   :ACRS - Advisory Committee on Reactor Safeguards  
:                   :  
DATE ISS:79/06/15,   3pp.   ,48x:19232-064,ODI:GPU 6002       ,TN:GB03   3.1

8307120906 Excerpt from IE 790424 interview w/Zewe re identification  
of possible LOCA,Page 24.

ZEW E,w.               :Director's Office, Office of Inspection and Enforcement  
:                   :  
DATE ISS:79/04/24,   2pp.   ,48x:19512-054,ODI:GPU 6005AA   ,TN:GB03   3.1

8307120907 Excerpt from IMI staff 790330 interview w/Zewe re previous  
turbine reactor trips,Page 27.

ZEW E,w.               :General Public Utilities - GPU Service Corp.  
:                   :  
DATE ISS:79/03/30,   5pp.   ,48x:19512-056,ODI:GPU 6006AA   ,TN:GB03   3.1

8307050370 Transcript of 790423 interview w/Hunter & Zewe.P 11.

\*                   :Office of Inspection & Enforcement, Office of the Director  
:                   :  
DATE ISS:79/04/23,   1p.   ,48x:19232-069,ODI:GPU 6007 AA   ,TN:GB03   3.1

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307050404 Transcript of BM Dunn 791004 deposition, Pa 22,26,7,11,17-18,  
21 & 23-27.

DUNN, B.M. : General Public Utilities - GPU Service Corp.  
:  
DATE ISS: 79/10/04, 54pp. , 48x: 19232-131, ODI: GPU 6020 , TN: GB03 3.2

8307050419 Transcript of BM Dunn 790702 deposition, Pa 104-105, 157,  
164-167, 169, 171-172, 175-176, 179-182, 199, 203-206, 208-212 &  
219-220.

DUNN, B.M. : General Public Utilities - GPU Service Corp.  
:  
DATE ISS: 79/07/02, 30pp. , 48x: 19232-214, ODI: GPU 6022 , TN: GB03 3.2

8307050436 Transcript of FR Faist 791019 deposition, Pa 7-30, 34 & 38-39.

FAIST, F.R. : General Public Utilities - GPU Service Corp.  
:  
DATE ISS: 79/10/19, 28pp. , 48x: 19232-286, ODI: GPU 6026 , TN: GB03 3.2

8307050444 Transcript of DF Hallman 791004 deposition, Pa 5-31, 34-35,  
37-54 & 56-68.

HALLMAN, D.F. : General Public Utilities - GPU Service Corp.  
:  
DATE ISS: 79/10/04, 62pp. , 48x: 19232-315, ODI: GPU 6027 , TN: GB03 3.2

8307050476 Transcript of JJ Kelly 790707 deposition, Pa 6, 9-11, 13-15,  
21-22, 25-29, 34-41 & 44.

KELLY, J.J. : General Public Utilities - GPU Service Corp.  
:  
DATE ISS: 79/07/07, 25pp. , 48x: 19233-145, ODI: GPU 6033 , TN: GB03 3.2

8307070127 Partial deposition of LC Rogers on 790629.

ROGERS, L.C. : Babcock & Wilcox Co.  
:  
DATE ISS: 79/06/29, 29pp. , 48x: 19355-335, ODI: GPU 6039 , TN: GB03 3.2



U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307070165 Partial deposition of JF Walters on 790706.

WALTERS, J. F. : Babcock & Wilcox Co.  
: :  
DATE ISS: 79/07/06, 17pp. , 48X: 19357-027, ODI: GPU 6047 , TN: GB03 IRRELEVANT

8307070171 Partial deposition of EG Ward on 791017.

WARD, E. G. : Babcock & Wilcox Co.  
: :  
DATE ISS: 79/10/17, 12pp. , 48X: 19357-045, ODI: GPU 6049 , TN: GB03 IRRELEVANT

8307070185 Partial deposition of EA Womack on 790630.

WOMACK, E. A. : Babcock & Wilcox Co.  
: :  
DATE ISS: 79/06/30, 30pp. , 48X: 19357-116, ODI: GPU 6054 , TN: GB03 IRRELEVANT

OUT OF SEQUENCE EXHIBITS

8307050366 Transcript of Zewe 790919 testimony.

ZEW, : General Public Utilities - GPU Service Corp.  
: :  
DATE ISS: 79/09/19, 2pp. , 48X: 19232-067, ODI: GPU 6003 AA , TN: GB03 3.1

8307120911 Deposition of JD Agar on B20422 in New York, NY. Pp 1-121.

AGAR, J. D. : Babcock & Wilcox Co.  
: :  
DATE ISS: 92/04/22, 122pp. , 48X: 19512-066, ODI: GPU 6010 , TN: GB03 3.2

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CATEGORY 4  
TRIAL TESTIMONY

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8306290419 Transcript of 821101 trial between util & B&E in  
New York, NY, Pd 1-189.

\* :U.S. District Court, Southern District of New York

DATE ISS:82/11/01, 189pp. ,4Ax:19022-001,00I: ,TN:GB04 4.1, 4.2, 4.3, 4.4

8307260284 Testimony of RC Arnold on 821115 in New York, NY, Pd 1,455-  
1,534.

ARNOLD, R.C. :General Public Utilities - GPU Service Corp.

DATE ISS:82/11/15, 80pp. ,4Ax:19726-137,00I: ,TN:GB04 4.1, 4.2, 4.3, 4.4, 4.5

8306290445 Testimony of RC Arnold on 821116 in New York, NY, Pd  
1,535-1,1715.

ARNOLD, R.C. :General Public Utilities - GPU Service Corp.

DATE ISS:82/11/16, 180pp. ,4Ax:19026-089,00I: ,TN:GB04 4.1, 4.2, 4.3, 4.4

8306290439 Testimony of RC Arnold on 821117 in New York, NY, Pd 1,716-  
1,792.

ARNOLD, R.C. :General Public Utilities - GPU Service Corp.

DATE ISS:82/11/17, 77pp. ,4Ax:19026-270,00I: ,TN:GB04 4.1, 4.2, 4.3, 4.4

8307260383 Testimony of J Chwastyk on 830118 in New York, NY, Pd 6,994-  
7,007.

CHWASTYK, J. :General Public Utilities - GPU Service Corp.

DATE ISS:83/01/18, 24pp. ,4Ax:19041-017,00I: ,TN:GB04 4.3, 4.5

8306290541 Testimony of ER Frederick on 821208 in New York, NY, Pd 3,560-  
3,733.

FREDERICK, E.R. :General Public Utilities - GPU Service Corp.

DATE ISS:82/12/08, 174pp. ,4Ax:19031-186,00I: ,TN:GB04 4.4

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8306290557 Testimony of ER Frederick on 821210 in New York, NY. Pd  
3,907-3,989.

FREDERICK, E.R. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/12/10, 83pp. , 4Rx: 19032-173, ODI: , TN: GB04

4.3, 4.4

8306290560 Testimony of ER Frederick on 821215 in New York, NY. Pd 3,990-  
4085.

FREDERICK, E.R. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/12/13, 97pp. , 4Rx: 19032-257, ODI: , TN: GB04

4.1, 4.2, 4.4

8306290440 Testimony of DF Hallman on 821115 in New York, NY. Pd 1,338-  
1395.

HALLMAN, D.F. : Babcock & Wilcox Co.

DATE ISS: 82/11/15, 68pp. , 4Rx: 19025-254, ODI: , TN: GB04

4.4, 4.5

8307260362 Testimony of Hn Hartman on 830118 in New York, NY. Pd 7,007-  
7,095.

HARTMAN, H.W. : Metropolitan Edison Co.

DATE ISS: 83/01/18, 89pp. , 4Rx: 19041-030, ODI: , TN: GB04

4.1, 4.3, 4.4

8307260591 Testimony of R Jones on 821215 in New York, NY. Pd 4,524-  
4,554.

JONES, R. : Babcock & Wilcox Co.

DATE ISS: 82/12/15, 31pp. , 4Rx: 19034-069, ODI: , TN: GB04

4.1, 4.2, 4.4, 4.5

8306290649 Testimony of R Jones on 821216 in New York, NY. Pd 4,555-4611.

JONES, R. : Babcock & Wilcox Co.

DATE ISS: 82/12/16, 57pp. , 4Rx: 19034-100, ODI: , TN: GB04

4.1, 4.3, 4.4

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307260429 Testimony of E Kane on 821214 in New York, NY. Pd 4,370-4,388.

KANE, E. :Babcock & Wilcox Co.  
: DATE ISS:82/12/14, 19pp. ,4Rx:19033-276,001: ,TN:G804 4.1, 4.2, 4.4

8306290617 Testimony of E Kane on 821215 in New York, NY. Pd 4,389-4,414.

KANE, E. :Babcock & Wilcox Co.  
: DATE ISS:82/12/15, 27pp. ,4Rx:19695-078,001: ,TN:G804 4.1, 4.2, 4.4

8306290591 Testimony of RT Lahey on 821222 in New York, NY. Pd 5,280-5,370.

LAHEY, R. T. :Rensselaer Polytechnic Inst.  
: DATE ISS:82/12/22, 91pp. ,4Rx:19036-105,001: ,TN:G804 4.2

8306290637 Testimony of R Sieglitz on 830104 in New York, NY. Pd 5,754-5911.

SIEGLITZ, R. :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/01/04, 147pp. ,4Rx:19037-219,001: ,TN:G804 4.3

8307260240 Testimony of WH Zewe on 821117 in New York, NY. Pd 1,792-1,875.

ZEW, W. H. :General Public Utilities - GPU Service Corp.  
: DATE ISS:82/11/17, 84pp. ,4Rx:19026-347,001: ,TN:G804 4.1, 4.2, 4.3

8306290462 Testimony of WH Zewe on 821124 in New York, NY. Pd 2,575-2,680.

ZEW, W. H. :General Public Utilities - GPU Service Corp.  
: DATE ISS:82/11/24, 105pp. ,4Rx:19028-285,001: ,TN:G804 4.1, 4.3, 4.5

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8306290466 Testimony of WM Zewe on 821129 in New York, NY. Pp 2,681-  
2,830.

ZEW, W.H. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/11/29, 149pp. , 48x: 19029-030, ODI: , TN: GB04

4.3

8306290475 Testimony of WM Zewe on 821130 in New York, NY. Pp 2,831-  
2,923.

ZEW, W.H. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/11/30, 92pp. , 48x: 19029-180, ODI: , TN: GB04

4.1, 4.3, 4.4

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CATEGORY 4  
DEPOSITIONS

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307110145 Deposition of RC Arnold on 820629 in New York, NY. Pp 1-287

ARNOLD, R. C. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/06/29, 289pp. , 48X: 19489-024, ODI: , TN: GB04 4.1, 4.2, 4.3, 4.4, 4.5

8307120735 Deposition of RC Arnold on 820630 in New York, NY. Pp  
146 & 224-228.

ARNOLD, R. C. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/06/30, 6pp. , 48X: 19495-291, ODI: B&W 4014 , TN: GB04 4.2, 4.3

8307120726 Continued deposition of RC Arnold on 820701 in New York, NY.  
Pp 288-471.

ARNOLD, R. C. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/07/01, 184pp. , 48X: 19465-070, ODI: , TN: GB04 4.1, 4.2, 4.3, 4.6

8306290865 Deposition of TG Broughton on 820202 in New York, NY. Pp  
1-154.

BROUGHTON, G. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/02/02, 154pp. , 48X: 19059-140, ODI: , TN: GB04 4.2, 4.3, 4.4, 4.5

8306290872 Deposition of TG Broughton on 820209 in New York, NY.  
Pp 553-714.

BROUGHTON, T. G. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/02/09, 163pp. , 48X: 19059-293, ODI: , TN: GB04 4.3, 4.4

8306290838 Deposition of ND Brown on 810608 in New York, N. Y. Pp 1-139.

BROWN, N. D. : Metropolitan Edison Co.

DATE ISS: 81/06/08, 140pp. , 48X: 19062-234, ODI: , TN: GB04 4.2

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8306290822 Deposition of MD Brown on 810612 in New York, N. Y. Pp 508-600.

BROWN, N. D. : Metropolitan Edison Co.  
DATE ISS: 81/06/12. 108pp. , 48X: 19061-143, ODI: , TN: GB04 4.1

8306290931 Deposit on of R Davis on 820427 in New York, NY. Pp 1-61.

DAVIS, R. : Babcock & Wilcox Co.  
DATE ISS: 82/04/27. 61pp. , 48X: 19065-072, ODI: , TN: GB04 4.2, 4.5

8306290709 Deposition of CC Faust on 810818 in New York, NY. Pp 1-127.

FAUST, C. C. : Metropolitan Edison Co.  
DATE ISS: 81/08/18. 127pp. , 48X: 19072-203, ODI: , TN: GB04 4.1, 4.2

8306290713 Deposition of CC Faust on 810819 in New York, NY. Pp 129-412.

FAUST, C. C. : Metropolitan Edison Co.  
DATE ISS: 81/08/19. 283pp. , 48X: 19072-331, ODI: , TN: GB04 4.3, 4.4

8306290701 Deposition of CC Faust on 810821 in New York, Ny. Pp 413-566.

FAUST, C. C. : Metropolitan Edison Co.  
DATE ISS: 81/08/21. 153pp. , 48X: 19073-275, ODI: , TN: GB04 4.1

8306290703 Deposition of CC Faust on 810924 in New York, NY. Pp 569-712.

FAUST, C. C. : Metropolitan Edison Co.  
DATE ISS: 81/09/24. 143pp. , 48X: 19074-068, ODI: , TN: GB04 4.1

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8306290705 Deposition of CC Faust on B10925 in B10925. Pp 713-898.

FAUST, C. C. : Metropolitan Edison Co.

DATE ISS: 81/09/25, 185pp. , 48X: 19074-212, ODI: , TN: GB04 4.3, 4.4

8306290723 Deposition of JR Floyd on B20213 in New York, NY. Pp 1-159.

FLOYD, J. R. : Metropolitan Edison Co.

DATE ISS: 82/02/18, 159pp. , 48X: 19076-082, ODI: , TN: GB04 4.1, 4.2, 4.3, 4.4, 4.5

8306290738 Deposition of JR Floyd on B20430 in New York, NY. Pp 529-626.

FLOYD, J. R. : Metropolitan Edison Co.

DATE ISS: 82/04/30, 97pp. , 48X: 19077-250, ODI: , TN: GB04 4.1, 4.2, 4.5

8306290714 Deposition of ER Frederick on B20504 in New York, NY. Pp 1-128.

FREDERICK, E. R. : Metropolitan Edison Co.

DATE ISS: 82/05/04, 128pp. , 48X: 19077-348, ODI: , TN: GB04 4.1, 4.2, 4.3

8306290706 Deposition of M Haimowitz on B10422 in New York, NY. Pp 1-145.

HAIMOWITZ, M. : General Public Utilities - GPU Service Corp.

DATE ISS: 81/04/22, 146pp. , 48X: 19084-026, ODI: , TN: GB04 4.2

8306290708 Deposition of M Haimowitz on B10423 in New York, NY. Pp 146-239.

HAIMOWITZ, M. : General Public Utilities - GPU Service Corp.

DATE ISS: 81/04/23, 94pp. , 48X: 19084-174, ODI: , TN: GB04 4.2, 4.3, 4.4

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8306290710 Deposition of M Haimowitz on B10424 in New York, NY.  
Pp 240-314.

HAIMOWITZ, M. : General Public Utilities - GPU Service Corp.

DATE ISS: 81/04/24, 75pp. , 48X: 19084-269, ODI: , TN: GB04 4.3, 4.4

8306290712 Deposition of DF Hallman on B20118 in New York, NY. Pp 1-82.

HALLMAN, D. F. : Babcock & Wilcox Co.

DATE ISS: 82/01/18, 82pp. , 48X: 19084-344, ODI: , TN: GB04 4.3, 4.4

8306290716 Deposition of DF Hallman on B20119 in New York, NY. Pp 83-209.

HALLMAN, D. F. : Babcock & Wilcox Co.

DATE ISS: 82/01/19, 128pp. , 48X: 19085-064, ODI: , TN: GB04 4.2, 4.3, 4.4

8306290898 Deposition of RS Harbin on B10707 in New York, NY. Pp 1-146.

HARBIN, R. S. : Metropolitan Edison Co.

DATE ISS: 81/07/07, 146pp. , 48X: 19087-095, ODI: , TN: GB04 4.1, 4.2, 4.3, 4.5

8306290893 Deposition of RS Harbin on B10708 in New York, NY. Pp 147-295.

HARBIN, R. S. : Metropolitan Edison Co.

DATE ISS: 81/07/08, 149pp. , 48X: 19087-241, ODI: , TN: GB04 4.2, 4.3, 4.5

8306290875 Deposition of RS Harbin on B11001 in New York, NY. Pp 484-558.  
Supporting documentation encl.

HARBIN, R. S. : Metropolitan Edison Co.

DATE ISS: 81/10/01, 84pp. , 48X: 19088-215, ODI: , TN: GB04 4.2, 4.3, 4.5

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8306290867 Deposition of HW Hartman on 820716 in Elizabethtown, PA  
Pp 1-206.

HARTMAN, H. W. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/07/16, 206pp. , 48X: 19088-299, ODI: , TN: GB04 4.1, 4.3, 4.4

8306290873 Deposition of HW Hartman on 820818 in Elizabethtown, PA  
Pp 207-291.

HARTMAN, H. W. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/08/18, 85pp. , 48X: 19089-142, ODI: , TN: GB04 4.1, 4.3

8306290881 Deposition of JG Herbein on 820630 in New York, N. Y. Pp 1-184.

HERBEIN, J. G. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/06/30, 187pp. , 48X: 19089-227, ODI: , TN: GB04 4.2, 4.3, 4.4

8306290887 Deposition of JG Herbein on 820701 in New York, N. Y.  
Pp 185-294.

HERBEIN, J. G. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/07/01, 110pp. , 48X: 19090-031, ODI: , TN: GB04 4.1, 4.2

8306290892 Deposition of JG Herbein on 820702 in New York, N. Y.  
Pp 295-395.

HERBEIN, J. G. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/07/02, 124pp. , 48X: 19090-161, ODI: , TN: GB04 4.1, 4.2, 4.3

8306290729 Deposition of TF Illjes on 820810 in New York, NY. Pp 1-156.

ILLJES, T. F. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/08/10, 157pp. , 48X: 19091-092, ODI: , TN: GB04 4.4



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NRC SPECIAL REPORT

8306290986 Deposition of RW Keaten on B20106 in New York, NY.  
Pp 202-344.

KEATEN, R. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/01/06, 143pp. , 48X: 19096-030, ODI: , TN: GB04

4.1, 4.2, 4.3, 4.5

8306290907 Deposition of R Keaten on B20119 in New York, NY. Pp 628-764.  
Index of exhibits encl.

KEATEN, R. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/01/17, 137pp. , 48X: 19097-093, ODI: , TN: GB04

4.2, 4.3

8306290913 Deposition of R Keaten on B20120 in New York, NY. Pp 765-904.  
Index of exhibits encl.

KEATEN, R. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/01/20, 140pp. , 48X: 19097-230, ODI: , TN: GB04

4.1, 4.2

8306290918 Deposition of R Keaten on B20121 in New York, NY. Pp 905-  
1,056. Index of exhibits encl.

KEATEN, R. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/01/21, 152pp. , 48X: 19098-009, ODI: , TN: GB04

4.1, 4.3, 4.4, 4.5

8306290819 Deposition of G Kunder on B20701 in New York, NY. Pp 345-437.

KUNDER, G. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/07/01, 94pp. , 48X: 19103-111, ODI: , TN: GB04

4.3

8306290776 Deposition of D LaBelle on B10602 in New York, NY. Pp 1-128.

LABELLE, D. : Babcock & Wilcox Co.

DATE ISS: 81/06/02, 128pp. , 48X: 19104-016, ODI: , TN: GB04

4.4

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NRC SPECIAL REPORT

8306290836 Deposition of LC Lanese on 820324 in New York, NY. Pp 1-128.

LANESE, L. C. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/03/24, 128pp. , 48X: 19125-001, ODI: , TN: Q804 4.1, 4.2, 4.3, 4.4, 4.5, 4.6

8306290773 Deposition of RL Long on 820518 in New York, NY. Pp 1-176.

LONG, R. L. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/05/18, 176pp. , 48X: 19696-069, ODI: , TN: Q804 4.2, 4.3

8306290779 Deposition of RL Long on 820519 in New York, NY. Pp 177-312.

LONG, R. L. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/05/19, 135pp. , 48X: 19696-264, ODI: , TN: Q804 4.2, 4.3

8306290787 Deposition of RL Long on 820520 in New York, NY. Pp 313-417.

LONG, R. L. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/05/20, 104pp. , 48X: 19695-131, ODI: , TN: Q804 4.3

8306290793 Deposition of RL Long on 820521 in New York, NY. Pp 417A-478.

LONG, R. L. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/05/21, 61pp. , 48X: 19695-240, ODI: , TN: Q804 4.3

8306290825 Deposition of BA Mehler on 810728 in New York, NY. Pp 1-172.

MEHLER, B. A. : Metropolitan Edison Co.

DATE ISS: 81/07/28, 172pp. , 48X: 19131-031, ODI: , TN: Q804 4.1, 4.2, 4.4

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8306290799 Deposition of BA Mehler on 810729 in New York, NY. Pp 174-363.

MEHLER, B. A. : Metropolitan Edison Co.  
DATE ISS: 81/07/29, 189pp. , 48X: 19131-205, ODI: , TN: GB04 4.1, 4.3

8306290806 Deposition of BA Mehler on 810730 in New York, NY. Pp 364-679.

MEHLER, B. A. : Metropolitan Edison Co.  
DATE ISS: 81/07/30, 315pp. , 48X: 19132-034, ODI: , TN: GB04 4.1

8307110121 Deposition of BA Mehler on 810731 in New York, NY. Pp 565-679.

MEHLER, B. A. : Metropolitan Edison Co.  
DATE ISS: 81/07/31, 115pp. , 48X: 19488-271, ODI: , TN: GB04 4.1, 4.3

8306290837 Deposition of GP Miller on 820602 in New York, NY. Pp 1-128.

MILLER, G. P. : General Public Utilities - GPU Service Corp.  
DATE ISS: 82/06/02, 129pp. , 48X: 19134-160, ODI: , TN: GB04 4.2, 4.3, 4.4

8306290906 Deposition of GP Miller on 820609 in New York, NY. Pp 601-726.

MILLER, G. P. : General Public Utilities - GPU Service Corp.  
DATE ISS: 82/06/09, 126pp. , 48X: 19136-038, ODI: , TN: GB04 4.3

8306290885 Deposition of RC Noll on 820714 in New York, NY. Pp 1-138.

NOLL, R. C. : Metropolitan Edison Co.  
DATE ISS: 82/07/14, 138pp. , 48X: 19137-310, ODI: , TN: GB04 4.2

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NRC SPECIAL REPORT

8306290856 Deposition of JD Phinney on 820113 in New York, NY. Pp 1-134.

PHINNEY, J. D. : Babcock & Wilcox Co.

DATE ISS: 82/01/13, 134pp, , 48X: 19138-154, ODI: , TN: GB04 4.2

8306290909 Deposition of WE Potts on 820107 in New York, NY. Pp 1-176.

POTTS, W. E. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/01/07, 176pp, , 48X: 19139-203, ODI: , TN: GB04 4.2, 4.3

8306290839 Deposition of D Shovlin on 820716 in New York, NY. Pp 1-204.

SHOVLIN, D. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/07/16, 204pp, , 48X: 19148-347, ODI: , TN: GB04 4.3

8306290820 Deposition of RJ Toole on 810622 in New York, NY.  
Pp 1-279.

TOOLE, R. J. : General Public Utilities - GPU Service Corp.

DATE ISS: 81/06/22, 279pp, , 48X: 19152-065, ODI: , TN: GB04 4.2

8306290754 Deposition of RL Williams on 820812 in New York, NY.  
Pp 1-98.

WILLIAMS, R. L. : Ebasco Services, Inc. (subs. of Enserch Corp.)

DATE ISS: 82/08/12, 100pp, , 48X: 19160-001, ODI: , TN: GB04 4.2, 4.3, 4.5

8306290775 Deposition of RW Zechman on 820310 in New York, NY.  
Pp 1-156.

ZECHMAN, R. W. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/03/10, 156pp, , 48X: 19163-124, ODI: , TN: GB04 4.2, 4.5

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NRC SPECIAL REPORT

8306290781 Deposition of RW Zechman on B20311 in New York, NY.  
Pp 157-272.

ZECHMAN, R. W. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/03/11, 115pp. , 48X: 19163-280, ODI: , TN: GB04 4.2, 4.3, 4.5

8306290788 Deposition of RW Zechman on B20312 in New York, NY.  
Pp 273-376.

ZECHMAN, R. W. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/03/12, 103pp. , 48X: 19164-033, ODI: , TN: GB04 4.3, 4.4

8306290794 Deposition of RW Zechman on B20324 in New York, NY.  
Pp 377-523.

ZECHMAN, R. W. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/03/24, 146pp. , 48X: 19164-137, ODI: , TN: GB04 4.1, 4.3, 4.4

8306290801 Deposition of RW Zechman on B20325 in New York, NY.  
Pp 524-540.

ZECHMAN, R. W. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/03/25, 116pp. , 48X: 19164-286, ODI: , TN: GB04 4.1, 4.3, 4.4

8306290749 Deposition of RW Zechman on B20326 in New York, NY. Pp  
642-728.

ZECHMAN, R. W. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/03/26, 86pp. , 48X: 19165-042, ODI: , TN: GB04 4.1, 4.4

8306290753 Deposition of RW Zechman on B20429 in New York, NY. Pp  
729-916.

ZECHMAN, R. W. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/04/29, 187pp. , 48X: 19165-129, ODI: , TN: GB04 4.3, 4.4

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8306290761 Deposition of WH Zeve on 820520 in New York, NY. Pp 1-121.

ZEWE, W. H. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/05/20, 121pp. , 48X: 19165-318, ODI:

, TN: GB04

4.1, 4.2, 4.3, 4.4

000635 RECORDS SCANNED 61 RECORDS PRINTED ( 10 RECORDS, 51 SUPP. )  
ENDING CODE- 186 LAST KEY- ZEWE, W. H. 820528GB07



CATEGORY 4

EXHIBITS

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307010266 Requests formation of TMI-2 accident review task force to address seven specific issues in encl. w/o encl.

ARNOLD, R.C. :General Public Utilities - GPU Service Corp.  
KEATEN, R.W. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/07/02, 1p. ,48X:19201-192,00I:B&W 0007 ,TN:GB04 4.4

8307020163 Resume of M Haimowitz.

HAIMOWITZ, M. :General Public utilities - GPU Service Corp.  
DATE ISS:81/04/22, 1p. ,48X:19270-140,00I:B&W 0023 ,TN:GB04 4.3

8307020167 Comments on proposed master svcs contract w/B&W. Billing rates, terms of payment, title & risk of loss & warranty objectionable & should be altered in negotiations.

HAIMOWITZ, M. :General Public utilities - GPU Service Corp.  
BETZ, R.P. :General Public Utilities - GPU Service Corp.  
DATE ISS:77/08/16, 3pp. ,48X:19270-187,00I:B&W 0025 ,TN:GB04 4.4

8307020169 Notifies that proposed task orders under 770601 master svcs contract will not waive rights of licensees or insurer subrogation rights re svcs, goods or equipment furnished by B&W before & after TMI-2 incident.

HULSEBUS, J.L. :General Public Utilities - GPU Service Corp.  
Babcock & Wilcox Co.  
DATE ISS:79/05/25, 1p. ,48X:19270-190,00I:B&W 0026 ,TN:GB04 4.4

8307020172 Forwards executed "Master Svcs Contract Between GPU & B&W, Nuclear Power Generation Div, Lynchburg, VA." Authorized task orders will be issued as change notices to purchase order.

HAIMOWITZ, M. :General Public Utilities - GPU Service Corp.  
MUIR, H.S. :Babcock & Wilcox Co.  
DATE ISS:79/10/29, 1p. ,48X:19270-191,00I:B&W 0027 ,TN:GB04 4.4

8307020177 "Master Svcs Contract Between Met Ed & B&W Nuclear Power Generation Div, Lynchburg, VA."

\* :Metropolitan Edison Co.  
DATE ISS:77/06/01, 26pp. ,48X:19270-252,00I:B&W 0028 ,TN:GB04 4.4

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

- 8307020130 Summarizes proposed changes to master contract for B&W engineering & technical svcs. Changes similar to revs to be incorporated into contract negotiations w/B&W for nuclear fuel assemblies at TMI-1.  
HAIMOWITZ, M. : General Public Utilities - GPU Service Corp.  
GUERIN, J. E. : General Public Utilities - GPU Service Corp.  
DATE ISS: 76/01/19, 200, : 48x:19270-307, 001: B&W 0029, TN: G804 4.4
- 8307020184 Requests review of encl NSSS contract w/B&W to assist in negotiations re B&W request for addl funds for licensing efforts performed prior to Apr 1976 to meet new regulatory requirements, w/o encl.  
HAIMOWITZ, M. : General Public Utilities - GPU Service Corp.  
HEWARD, R. W. : General Public Utilities - GPU Service Corp.  
DATE ISS: 77/05/19, 10, : 48x:19270-337, 001: B&W 0030, TN: G804 4.4
- 8307020167 Summarizes status of six licensing issues pertinent to delay in full load date, in response to 770519 request. Issues discussed include steam line break, ATWS-ECCS small break L&CA, reactor bldg sprays, STS & jet impingement.  
BARTON, J. J. : General Public Utilities - GPU Service Corp.  
HAIMOWITZ, M. : General Public Utilities - GPU Service Corp.  
DATE ISS: 77/09/07, 200, : 48x:19270-339, 001: B&W 0031, TN: G804 4.4
- 8307110008 Forwards reort summarizing opinions of more than 30 GPU & Met Ed managers, executives & technical & task force leader personnel re post-TMI-2 accident recovery or investigation assignments.  
GLICKMAN, F. : General Public Utilities - GPU Service Corp.  
DIECKMAN, H. W. : General Public Utilities - GPU Service Corp.  
DATE ISS: 79/11/30, 5400, : 48x:19476-307, 001: B&W 0032, TN: G804 4.1, 4.2, 4.3, 4.4, 4.5
- 8307020201 "Generation Group Organizational Study Rept, Vol II."  
\* : General Public Utilities - GPU Service Corp.  
DATE ISS: 81/03/06, 3900, : 48x:19272-077, 001: B&W 0035, TN: G804 4.2, 4.4, 4.5
- 8307020022 Discusses incorporation of Unit 1 & other operating experience into Unit 2 training effort.  
SEELINGER, J. : Metropolitan Edison Co.  
TSAGGARIS, L. : Metropolitan Edison Co.  
DATE ISS: 77/04/06, 10, : 48x:19208-296, 001: B&W 0072, TN: G804 4.1

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307020025 Advises that min 1 n training program being prepared to cover industry experience, Unit 1 experience & ROs from similar units, per J Swalinger 7/0408 request.

GOODMAN, D.A. :Metropolitan Edison Co.  
TSAGGARIS, A. :Metropolitan Edison Co.  
DATE ISS:77/04/12, 1p. ,48x:19208-297, OOI:B&W 0073 ,TN:G804 4.1

8307020027 discusses dissemination of generic info to licensees by IE bulletins, circulars & info notices.

\* :Metropolitan Edison Co.  
DATE ISS:81/06/11, 3pp. ,48x:19208-298, OOI:B&W 0075 ,TN:G804 4.4

8307020037 "R Trip/Engineered Safeguards Incident, 780423."

\* :Babcock & Wilcox Co.  
DATE ISS:81/06/12, 89pp. ,48x:19208-169, OOI:B&W 0079 ,TN:G804 4.1, 4.2, 4.3, 4.4, 4.5

8307020151 Resume of RJ Toole.

\* :General Public Utilities - GPU Service Corp.  
DATE ISS:81/06/22, 3pp. ,48x:19217-282, OOI:B&W 0151 ,TN:G804 NOT REVIEWED

8307050340 Transcript of Commission 810204 restart hearing in Harrisburg, PA, Po 11,513-11,717.

\* :Commissioners  
DATE ISS:81/02/04, 306pp. ,48x:114322-129, OOI:B&W 0179 ,TN:G804 4.2

8307020084 Resume of dA Henler.

\* :Babcock & Wilcox Co.  
DATE ISS:79/07/20, 10pp. ,48x:19245-053, OOI:B&W 0235 ,TN:G804 4.2

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307020098 Transcript of 790510 interview w/8 Mehler.

MEHLER, B. : General Public Utilities - GPU Service Corp.  
:   
DATE ISS: 79/05/10, 45pp., 48X: 19246-004, UDI: B&W 0239 , TN: G804 4.2

8307020104 Expresses desire that corrective action be completed on listed major equipment problems prior to restart of test program & power operation.

WARD, E. G. : Babcock & Wilcox Co.  
BARTON, J. J. : General Public Utilities - GPU Service Corp.  
DATE ISS: 78/05/02, 1p., 48X: 19246-078, UDI: B&W 0243 , TN: G804 4.2, 4.3, 4.5

8307020108 Forwards summary of LER 78-022/99X on 780329.

\* : General Public Utilities - GPU Service Corp.  
GRIER, B. H. : Region 1, Philadelphia, office of the Director  
DATE ISS: 81/07/30, 10pp., 48X: 19246-057, UDI: B&W 0245 , TN: G804 4.2, 4.3, 4.4

8307050287 Forwards IE Insp Rept 50-346/78-06 on 771206-08 & 780306-08. Effective presentation of info re transients at other plants suggested to enhance nuclear industry communications.

ARNOLD, R. C. : General Public Utilities - GPU Service Corp.  
KEMERY, J. G. : President's Commission on the Accident at Three Mile Island  
DATE ISS: 79/08/30, 5pp., 48X: 19326-018, UDI: B&W 0247 , TN: G804 4.3

8307050291 Temporary Change Notice 2-79-070 for Procedure 2301-3D1, "RCS Inventory."

\* : General Public Utilities - GPU Service Corp.  
:   
DATE ISS: 79/03/11, 5pp., 48X: 19327-073, UDI: B&W 0255 , TN: G804 4.4

8307050320 Suggests areas in which evaluation of 790423 incident could be more accurate & complete. Concentration suggested in areas of malfunctioning safeties, flow testing of Mu-V-lbs & poorly-designed alarm sys.

FREDERICK, E. : General Public Utilities - GPU Service Corp.  
: Babcock & Wilcox Co.  
DATE ISS: 78/05/03, 5pp., 48X: 19327-131, UDI: B&W 0264 , TN: G804 4.1, 4.2, 4.3, 4.4, 4.5

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307050526 Preliminary inquiry of TMI incident of 790328.

ZENE, W.H. :General Public Utilities - GPU Service Corp.

DATE ISS:79/04/03, 50pp. ,48x:19327-282,ODI:B&W 0271 ,TN:GB04

NOT REVIEWED

8307050535 Rev 11 to Emergency Procedure 2202-1.3, "Loss of Reactor  
Coolant/Reactor Coolant Sys Pressure."

WARREN, R.P. :General Public Utilities - GPU Service Corp.

DATE ISS:78/10/06, 25pp. ,48x:19327-192,ODI:B&W 0272 ,TN:GB04

4.4

8307050537 Forwards LER 79-014/01x=0, updating LER 79-014/01L=0.

HOVEY, G.K. :General Public Utilities - GPU Service Corp.

GRIER, S.H. :Region 1, Philadelphia, Office of the Director (81/03/01)

DATE ISS:81/05/11, 2pp. ,48x:19328-023,ODI:B&W 0275 ,TN:GB04

NOT REVIEWED

8307070335 Operational log. Summary of notes for 790720 task force  
meeting re Tasks 1-7.

\* :General Public Utilities - GPU Service Corp.

DATE ISS:79/07/20, 11pp. ,48x:19320-028,ODI:B&W 0339 ,TN:GB04

4.4

8307070350 "TMI-2 Loss of Feedwater Flow Leading to Accident of  
790328."

KEATEN, R.W. :General Public Utilities - GPU Service Corp.

DATE ISS:79/09/01, 187pp. ,48x:19320-186,ODI:B&W 0343 ,TN:GB04

4.4, 4.5

8307070385 Draft transcript of investigative task force meeting w/  
operating crew on duty in control room on morning of 790328.

\* :General Public Utilities - GPU Service Corp.

DATE ISS:82/01/07, 234pp. ,48x:19321-015,ODI:B&W 0346 ,TN:GB04

4.1, 4.2, 4.3, 4.4, 4.5



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8307070397 First draft "GPU Task Force Interim Summary Rept."

\* :General Public Utilities - GPU Service Corp.  
: 1  
DATE ISS:79/09/26, 500p. ,48x:19321-250,001:B&W 0347 ,TN:GB04 4.1, 4.2, 4.3, 4.4

8308230606 Transcript of TMI Investigative Task Force Taped Interview 7  
(Keaten Tapes) on 790919, Po 1-63.

\* :General Public Utilities - GPU Service Corp.  
: 1  
DATE ISS:79/09/19, 640p. ,48x:20126-007,001:B&W 0347G ,TN:GB04 4.3

8308230609 Transcript of TMI Investigative Task Force Taped Interview 8  
(Keaten Tapes) on 790919, Po 1-64.

\* :General Public Utilities - GPU Service Corp.  
: 1  
DATE ISS:79/09/19, 650p. ,48x:20126-073,001:B&W 0347H ,TN:GB04 4.3

8308230612 Transcript of TMI Investigative Task Force Taped Interview 9  
(Keaten Tapes) on 790919, Po 1-30.

\* :General Public Utilities - GPU Service Corp.  
: 1  
DATE ISS:79/09/19, 310p. ,48x:20126-138,001:B&W 0347I ,TN:GB04 4.3

8308230617 Transcript of TMI Investigative Task Force Taped Interview  
10 (Keaten Tapes) on 790920, Po 1-64.

\* :General Public Utilities - GPU Service Corp.  
: 1  
DATE ISS:79/09/20, 650p. ,48x:20126-169,001:B&W 0347J ,TN:GB04 4.3

8308230619 Transcript of TMI Investigative Task Force Taped Interview  
11 (Keaten Tapes) on 790920, Po 1-66.

\* :General Public Utilities - GPU Service Corp.  
: 1  
DATE ISS:79/09/20, 670p. ,48x:20126-234,001:B&W 0347K ,TN:GB04 4.3

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IRC SPECIAL REPORT

8308230630 Transcript of TMI Investigative Task Force Taped Interview  
14 (Keaten Tapes) on 791018. Pp 1-34.

\* :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:79/10/18, 35pp. ,48X:20127-024,OOI:B&W 0347N ,TN:GB04 4.3

8307070438 Second draft "GPU Task Force Interim Summary Rept."

KEATEN,R.W. :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:79/10/06, 57pp. ,48X:19322-016,OOI:B&W 0349 ,TN:GB04 4.3

8307080673 Forwards "GPU Task Force Interim Summary Rept," third draft  
re TMI-2 accident on 790326.

KEATEN,R.W. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:79/10/17, 1p. ,48X:19402-181,OOI:B&W 0350 ,TN:GB04 4.3

8307080681 Forwards "GPU Task Force Interim Summary Rept" re findings &  
conclusions to date & presenting preliminary recommendations  
re TMI-2 accident on 790326.

KEATEN,R.W. :General Public Utilities - GPU Service Corp.  
DIECKAMP,R.W. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/10/29, 1p. ,48X:19402-339,OOI:B&W 0351 ,TN:GB04 4.1, 4.2, 4.3, 4.4

8307080688 "GPU Accident Review Task Force Interim Summary Rept."

KEATEN,R.W. :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:79/11/28, 41pp. ,48X:19403-019,OOI:B&W 0352 ,TN:GB04 4.1, 4.2, 4.3, 4.4, 4.5

8307080691 Lists items which must be accomplished to complete GPU/Met  
Ed review of TMI-2 accident & underlying causes.

KEATEN,R.W. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:79/12/03, 6pp. ,48X:19403-061,OOI:B&W 0353 ,TN:GB04 4.1, 4.2, 4.3, 4.4, 4.5

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8307080693 "GPU Accident Review Task Force Final Summary Rept."

\* :General Public Utilities - GPU Service Corp.  
: ;  
DATE ISS:80/03/24, 41pp. ,48x:19403-068,ODI:B&W 0354 ,TN:GB04 4.1, 4.2, 4.3, 4.4, 4.5

8307080695 "GPU Accident Review Task Force Final Summary Rept."

\* :General Public Utilities - GPU Service Corp.  
: ;  
DATE ISS:80/05/12, 50pp. ,48x:19403-112,ODI:B&W 0355 ,TN:GB04 4.1, 4.2, 4.3, 4.4, 4.5

8307080698 "GPU Accident Review Task Force Final Summary Rept."

KEATEN,R.W. :General Public Utilities - GPU Service Corp.  
: ;  
DATE ISS:80/12/15, 49pp. ,48x:19403-161,ODI:B&W 0356 ,TN:GB04 4.1, 4.2, 4.3, 4.4, 4.5

8307080699 Forwards marked-up task force rept indicating significant differences from interim rept.w/o encl.

KEATEN,R.W. :General Public Utilities - GPU Service Corp.  
DIECKAMP,H.M. :General Public Utilities - GPU Service Corp.  
DATE ISS:80/09/02, 1p. ,48x:19404-017,ODI:B&W 0357 ,TN:GB04 4.1

8307120734 Transcript of 790412 interview w/G Miller.Pc 1-58.

\* :Metropolitan Edison Co.  
: ;  
DATE ISS:79/04/12, 58pp. ,48x:19502-230,ODI:B&W 0360 ,TN:GB04 4.1, 4.2, 4.3, 4.4

8307080714 Summary of interview w/B Menler.

KEATEN,R.W. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:80/01/29, 1p. ,48x:19405-063,ODI:B&W 0364 ,TN:GB04 NOT REVIEWED

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8307080722 Comments on "Technical Assessment of Operating, Abnormal & Emergency Procedures." Some results consistent w/GPU findings while some are inaccurate, misleading & technically incorrect. Procedures listed incorrect.  
KEATEN, R.A. :General Public Utilities - GPU Service Corp.  
DIECKAMP, H.M. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/11/02, 3pp. ,48x:19405-087, ODI:B&W 0367 ,TN:GB04 NOT REVIEWED

8307080727 Summary of 790813 interview w/HCA.  
  
\* :General Public Utilities - GPU Service Corp.  
DATE ISS:79/08/15, 1p. ,48x:19405-091, ODI:B&W 0369 ,TN:GB04 NOT REVIEWED

8307080064 Procedure 054 "Analysis of TMI-2 Operator Response."  
  
WALSH, P.S. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/10/19, 43pp. ,48x:19334-005, ODI:B&W 0377 ,TN:GB04 4.1, 4.2, 4.3, 4.4

8307080079 Resume of WE Potts.  
  
POTTS, W.E. :Metropolitan Edison Co.  
DATE ISS:83/07/07, 1p. ,48x:19334-084, ODI:B&W 0380 ,TN:GB04 4.2

8307080096 Submits personnel changes at TMI. Changes & appointments made in accordance w/Rev 0 to GP 0019.  
  
TRUFFER, G.J. :Metropolitan Edison Co.  
DATE ISS:79/01/08, 2pp. ,48x:19334-115, ODI:B&W 0382 ,TN:GB04 4.2, 4.4

8307080125 Forwards rept re 790502 transient which resulted in unexpected low water level in reactor vessel.  
  
FINFRUCK, I.R. :Jersey Central Power & Light Co.  
DATE ISS:79/05/12, 2pp. ,48x:19334-132, ODI:B&W 0386 ,TN:GB04 4.4, 4.6

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8307080139 Resume of T.G. Broughton.

BROUGHTON, T.G. :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:83/07/07, 2pp. ,48x:19453-181,001:B&W 0387 ,TN:GB04 4.2

8307080227 Forwards first draft "Interim Summary Rept."

KEATEN, R.W. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:79/09/28, 1p. ,48x:19335-127,001:B&W 0400 ,TN:GB04 NOT REVIEWED

8307080241 Second draft of GPU Task Force "Interim Summary Rept."

KEATEN, R.W. :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:79/10/06, 6pp. ,48x:19335-190,001:B&W 0402 ,TN:GB04 NOT REVIEWED

8307080244 Forwards third draft to, "Interim Summary Rept."

KEATEN, R.W. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:79/10/17, 1p. ,48x:19336-118,001:B&W 0403 ,TN:GB04 NOT REVIEWED

8307080247 Third draft of "Interim Summary Rept."

- :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:79/10/17, 73pp. ,48x:19336-119,001:B&W 0403 ,TN:GB04 NOT REVIEWED

8307080633 "Rept on Primary Safety Valve Leakage."

KUNDER, G.A. :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:74/12/02, 28pp. ,48x:19393-122,001:B&W 0422 ,TN:GB04 NOT REVIEWED

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8307110687 Resume of JR Floyd.  
  
FLUYD, J. R. : Metropolitan Edison Co.  
:   
DATE ISS: 82/02/18, 1p. , 48X: 19442-092, ODI: B&W 0460 , TN: GB04 NOT REVIEWED

8307110690 Discusses reactor operator training at B&W in Lynchburgh, VA.  
  
\* : General Public Utilities - GPU Service Corp.  
HERSEIN : General Public Utilities - GPU Service Corp.  
DATE ISS: 76/06/24, 3pp. , 48X: 19442-093, ODI: B&W 0461 , TN: GB04 NOT REVIEWED

8307110693 Discusses status of operator training progress for wk  
ending 770227. All groups have fallen way off regional  
curves. Program in trouble.  
  
TSAGGARIS, A. : Metropolitan Edison Co.  
HERBEIN, J. : Metropolitan Edison Co.  
DATE ISS: 77/03/01, 11pp. , 48X: 19442-096, ODI: B&W 0462 , TN: GB04 4.1, 4.2

8307120795 Summarizes results of 770714 oral exams for Unit 2 licensing  
candidates.  
  
TSAGGARIS, A. : Metropolitan Edison Co.  
LAWYER, L. L. : Metropolitan Edison Co.  
DATE ISS: 77/07/18, 5pp. , 48X: 19502-327, ODI: B&W 0463 , TN: GB04 NOT REVIEWED

8307110696 Progress report sheet for C Keyser, D Boltz & R Heilman for  
May 10 through Jul 1.  
  
SMITH, J. : General Public Utilities - GPU Service Corp.  
:   
DATE ISS: 82/02/18, 4pp. , 48X: 19442-107, ODI: B&W 0464 , TN: GB04 NOT REVIEWED

8307090267 Resume of FJ Scheimann.  
  
SCHEIMANN, F. J. : Metropolitan Edison Co.  
:   
DATE ISS: 82/02/23, 2pp. , 48X: 19413-088, ODI: B&W 0514 , TN: GB04 NOT REVIEWED



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8307090272 Job-related training program records for F Scheimann.

\* :Metropolitan Edison Co.  
: DATE ISS:82/02/23, 3pp. ,48x:19413-090,ODI:B&W 0515 ,TN:G804 NOT REVIEWED

8307090278 Attendees at 740905,06,1129 & 1203 training programs re selected emergency procedures,operational QA,Tech Spec review & major operational evaluations.

SEELINGER,J. :Metropolitan Edison Co.  
: DATE ISS:74/09/06, 5pp. ,48x:19413-093,ODI:B&W 0516 ,TN:G804 NOT REVIEWED

8307090287 Notices of second progress evaluation exam for cold licensing,Matl to be covered in exam listed.

GOODMAN,D. :Metropolitan Edison Co.  
NEUMANN,D. :Metropolitan Edison Co.  
: DATE ISS:77/03/25, 4pp. ,48x:19413-101,ODI:B&W 0518 ,TN:G804 NOT REVIEWED

8307090289 Operator License OP-4593 for FJ Scheimann at TMI-2.

\* : Assistant Director for Operating Reactors  
: DATE ISS:77/10/19, 1p. ,48x:19413-189,ODI:B&W 0519 ,TN:G804 NOT REVIEWED

8307090294 Computerized list of lesson programs dates & employees.

\* :Metropolitan Edison Co.  
: DATE ISS:78/03/28, 2pp. ,48x:19413-106,ODI:B&W 0520 ,TN:G804 NOT REVIEWED

8307090304 Senior Operator License OP-3237 for FJ Scheimann at TMI-2.

COLLINS,P.F. : Assistant Director for Operating Reactors  
: DATE ISS:78/05/03, 1p. ,48x:19413-110,ODI:B&W 0522 ,TN:G804 NOT REVIEWED

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8307090309 Printout for FJ Scheimann, indicating training courses completed.

SCHEIMANN, F.J. : Metropolitan Edison Co.

DATE ISS: 79/05/24, 2pp., 48x: 19413-111, ODI: B&W 0523 , TN: G804

NOT REVIEWED

8307090313 Administrative training records for F Scheimann.

SCHEIMANN, F.J. : Metropolitan Edison Co.

DATE ISS: 82/02/2, 10pp., 48x: 19413-113, ODI: B&W 0524 , TN: G804

NOT REVIEWED

8307080749 Forwards outline of util training programs for TMI operations, technical & maint staff.

ZECHMAN, R.W. : Metropolitan Edison Co.

HERBEIN, J.C. : Metropolitan Edison Co.

DATE ISS: 73/08/01, 13pp., 48x: 19418-081, ODI: B&W 0556 , TN: G804

4.2, 4.5

8307080762 Discusses E Frederick survey of TMI-2 requalification program for 791105-1214. Attendance poor. Support of senior operations personnel lacking.

ZECHMAN, R.W. : Metropolitan Edison Co.

LANTER, L.L. : Metropolitan Edison Co.

DATE ISS: 79/12/20, 2pp., 48x: 19418-144, ODI: B&W 0563 , TN: G804

4.1

8307080766 Submits concerns & suggestions for reorganization of operator training dept personnel.

ZECHMAN, R.W. : Metropolitan Edison Co.

LANTER, L.L. : Metropolitan Edison Co.

DATE ISS: 79/09/17, 6pp., 48x: 19418-154, ODI: B&W 0565 , TN: G804

4.1

8307080768 Discusses training dept organization/staffing. Logical assignment between functional groups should be stressed & operator training section staff should be increased.

MCCURMICK, F.A. : Metropolitan Edison Co.

ZECHMAN, R.W. : Metropolitan Edison Co.

DATE ISS: 79/09/03, 8pp., 48x: 19418-160, ODI: B&W 0566 , TN: G804

4.1, 4.5

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8307090387 Resume of LC Lanese.

\* :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:82/03/24, 2pp. ,48x:19395-306,DDI:B&N 0603 ,TN:G804 4.2

8307090219 Incomplete resume.

\* :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:82/05/18, 1p. ,48x:19399-122,DDI:B&N 0668 ,TN:G804 NOT REVIEWED

8307090221 Organizational chart for GPU Svc Corp, Generation Div 30.

\* :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:79/04/01, 1p. ,48x:19399-123,DDI:B&N 0669 ,TN:G804 NOT REVIEWED

8307090234 Organizational chart of GPU Nuclear Assurance Div.

\* :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:80/11/10, 2pp. ,48x:19399-124,DDI:B&N 0670 ,TN:G804 NOT REVIEWED

8307110724 Requests formation of fire member task force to complete investigation of encl seven specific issues re 790328 incident.

ARNOLD, R.C. :General Public Utilities - GPU Service Corp.  
KEATEN, R.H. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/06/27, 5pp. ,48x:19445-169,DDI:B&N 0694 ,TN:G804 NOT REVIEWED

8307110728 Summary of 790627 meeting of TMI-2 Accident Review Task Force.

KEATEN, R. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:79/06/27, 1p. ,48x:19445-174,DDI:B&N 0695 ,TN:G804 NOT REVIEWED

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8307110730 Agenda for IMI-2 Investigation Task Force.

\* :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:79/06/12, 2pp. ,48x:19445-343,ODI:B&W 0696 ,TN:G804 NOT REVIEWED

8307110732 Submits questions re IMI-2 incident on 790328.

\* :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:79/06/13, 3pp. ,48x:19445-177,ODI:B&W 0697 ,TN:G804 NOT REVIEWED

8307110735 Submits tasks & subtasks for task teams.

\* :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:79/07/09, 1pp. ,48x:19445-180,ODI:B&W 0698 ,TN:G804 NOT REVIEWED

8307110739 Forwards first rough draft, "GPU Task Force Interim Summary Rept."

KEATON,R.W. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:79/09/28, 1p. ,48x:19446-002,ODI:B&W 0699 ,TN:G804 NOT REVIEWED

8307110744 requests copy of encl package re task force draft rept.

LUNG,R.L. :Babcock & Wilcox Co.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:79/10/07, 6pp. ,48x:19446-060,ODI:B&W 0700 ,TN:G804 NOT REVIEWED

8307110752 "GPU Task Force Investigative Rept."

BROUGHTON,T.G. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:79/11/27, 46pp. ,48x:19446-134,ODI:B&W 0702 ,TN:G804 NOT REVIEWED

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8307110757 "GPU Accident Review Task Force Final Summary Rept."

KEATEN, R.W. : General Public Utilities - GPU Service Corp.

DATE ISS: 80/03/24, 43pp., 48x: 19446-346, ODI: B&W 0703 , TN: GB04

NOT REVIEWED

8307110759 Comments on "Accident Review Task Force Final Summary Rept."

LONG, R.L. : Babcock & Wilcox Co.

KEATEN, R.W. : Babcock & Wilcox Co.

DATE ISS: 80/04/06, 4pp., 48x: 19447-058, ODI: B&W 0704 , TN: GB04

NOT REVIEWED

8307110763 Forwards TOR TMI-111, "Analysis of TMI-2 Operator Response,"  
for review. Comments requested by 790625.

BRUGHTON, T.G. : General Public Utilities - GPU Service Corp.

LONG, R. : General Public Utilities - GPU Service Corp.

DATE ISS: 79/06/21, 32pp., 48x: 19447-062, ODI: B&W 0705 , TN: GB04

NOT REVIEWED

8307110769 "Analysis of TMI-2 Operator Response."

WALSH, P.S. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/05/20, 3pp., 48x: 19447-066, ODI: B&W 0706 , TN: GB04

NOT REVIEWED

8307090353 Forwards response to 791025 notice of violation & notice of  
proposed issuance of civil penalties based on IE  
investigation of 790328 accident.

ARNOLD, R.C. : Metropolitan Edison Co.

STELLO, V. : Office of Inspection & Enforcement, Office of the Director

DATE ISS: 79/12/05, 97pp., 48x: 19492-019, ODI: B&W 0707 , TN: GB04

4.1, 4.2, 4.3, 4.4

8307110780 "Development of Technical Support for TMI-2 Accident."

\* : General Public Utilities - GPU Service Corp.

DATE ISS: 79/10/31, 2pp., 48x: 19447-156, ODI: B&W 0711 , TN: GB04

NOT REVIEWED

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8307110783 Draft AWS paper re TMI-2 onsite technical support group activities to identify & solve problems by priority.

\* :Babcock & Wilcox Co.  
: DATE ISS:79/10/23, 12pp. ,48x:19447-158,001:B&W 0712 ,TN:G804 NOT REVIEWED

8307110785 Draft "Analysis of Technical Support Following TMI-2 Accident."

\* :Babcock & Wilcox Co.  
: DATE ISS:79/10/29, 24pp. ,48x:19447-170,001:B&W 0713 ,TN:G804 NOT REVIEWED

8307110787 Draft of "Analysis of Technical Support Following TMI-2 Accident."

\* :Babcock & Wilcox Co.  
: DATE ISS:79/10/29, 12pp. ,48x:19447-194,001:B&W 0714 ,TN:G804 NOT REVIEWED

8307110788 Draft of Technical Support Resources & Organization."

\* :Babcock & Wilcox Co.  
: DATE ISS:82/05/20, 9pp. ,48x:19447-012,001:B&W 0715 ,TN:G804 NOT REVIEWED

8307110791 Draft "Organization for Technical Support."

\* :Babcock & Wilcox Co.  
: DATE ISS:82/05/20, 7pp. ,48x:19447-021,001:B&W 0716 ,TN:G804 NOT REVIEWED

8307090022 Forwards draft "Loss of Feedwater Flow Leading to Accident of 790328," for master task force presentation.

LUCIEN,K. :Energy Incorporated  
:Energy Incorporated  
DATE ISS:79/09/01, 263pp. ,48x:19448-128,001:B&W 0718 ,TN:G804 4.2, 4.3, 4.4



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8307090054 Notes on operational aspects of 790328 event.

\* :General Public Utilities - GPU Service Corp.  
: ;  
DATE ISS:79/07/17, 17pp. ,48x:19450-134,00I:B&W 0726 ,TN:G804 NOT REVIEWED

8307090014 "NRC Sequence of Events:Miscellaneous Notes."

\* :Office of Inspection & Enforcement, Office of the Director  
: ;  
DATE ISS:79/06/22, 2pp. ,48x:19453-022,00I:B&W 0729 ,TN:G804 NOT REVIEWED

8307120252 Discusses items & assignment of responsibilities needed to address NRC IE investigation draft rept findings. Initial response requested by 790822 & final response by 790912.

WALLACE,E.G. :General Public Utilities - GPU Service Corp.  
BEHRLE,W.H. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/08/06, 3pp. ,48x:19454-130,00I:B&W 0730 ,TN:G804 NOT REVIEWED

8307120344 Resume of GP Miller.

MILLER,G.P. :Metropolitan Edison Co.  
: ;  
DATE ISS:82/06/02, 1p. ,48x:19456-193,00I:B&W 0762 ,TN:G804 NOT REVIEWED

8307120346 Discusses inadequacies of unit 2 procedure writing effort. Schedule should be adhered to at better rate than present.

MILLER,G.P. :Metropolitan Edison Co.  
:Metropolitan Edison Co.  
DATE ISS:75/11/20, 2pp. ,48x:19456-362,00I:B&W 0763 ,TN:G804 4.4

8307120353 Discusses need to increase effort on procedure writing & review. List of delinquent procedures areas encl.

MILLER,G.P. :Metropolitan Edison Co.  
HERBEIN,J.G. :Metropolitan Edison Co.  
DATE ISS:76/01/30, 3pp. ,48x:19457-002,00I:B&W 0764 ,TN:G804 4.3,4.4

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- 8307130326 Requests approval of and Change Mod 2-0296, to connecting  
open light for unit 2 RCS RC-HV2 to limit switch.
- SMOVLIN, D.M. :Metropolitan Edison Co.  
KLINGAMAN, R.M. :Metropolitan Edison Co.  
DATE ISS:79/01/30, 17pp. ,48x:19501-001, OOI:8&W 0767 ,TN:GB04 4.3
- 8307120709 "TMI-2 Nuclear Plant Not Review."
- \* :Metropolitan Edison Co.  
: :  
DATE ISS:79/01/18, 85pp. ,48x:19457-081, OOI:8&W 0783 ,TN:GB04 4.2, 4.3, 4.6
- 8307130330 Discusses problems w/operator licensing exams of ltr-  
designated Individual VV.
- \* :Dabcock & Wilcox Co.  
:Dabcock & Wilcox Co.  
DATE ISS:81/12/09, 2pp. ,48x:19501-055, OOI:8&W 0796 ,TN:GB04 NOT REVIEWED
- 8307130338 Summarizes events re ltr-designated Individual VV  
participation in 1977/78 requalification program.
- ZECHMAN, R.W. :Metropolitan Edison Co.  
MILLER, G.P. :Metropolitan Edison Co.  
DATE ISS:79/07/10, 3pp. ,48x:19501-057, OOI:8&W 0797 ,TN:GB04 NOT REVIEWED
- 8307130373 Discusses investigation, evaluation & recommendations re  
ltr-designated Individual VV operator license exam failure  
& possible cheating.
- MILLER, G.P. :Metropolitan Edison Co.  
HERBEIN, J.W. :Metropolitan Edison Co.  
DATE ISS:79/07/27, 5pp. ,48x:19501-060, OOI:8&W 0798 ,TN:GB04 NOT REVIEWED
- 8307130374 Certifies satisfactory rating of ltr-designated  
Individual VV based upon completion of accelerated  
requalification program w/score of 99.8.
- MILLER, G.P. :Metropolitan Edison Co.  
COLLINS, P.F. :Office of Nuclear Reactor Regulation, Director  
DATE ISS:81/11/17, 1p. ,48x:19501-065, OOI:8&W 0799 ,TN:GB04 NOT REVIEWED

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8307090147 Interview of GP Miller re TMI-2 event on 790328.

MILLER, G.P. :Metropolitan Edison Co.  
:   
DATE ISS:82/06/11, 31pp. ,48x:19453-148,001:B&W 0800 ,TN:G804 NOT REVIEWED

8307090151 Statement of GP Miller re TMI-2 incident on 790328.

MILLER, G.P. :Metropolitan Edison Co.  
:   
DATE ISS:79/05/07, 32pp. ,48x:19453-179,001:B&W 0831 ,TN:G804 NOT REVIEWED

8307090159 discusses preparation of unit 2 status for 790126 mtg meeting.

MILLER, G.P. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:76/01/26, 6pp. ,48x:19454-023,001:B&W 0803 ,TN:G804 NOT REVIEWED

8307090165 Resume of RC Arnold.

ARNOLD, R.C. :Metropolitan Edison Co.  
:   
DATE ISS:82/06/29, 2pp. ,48x:19454-058,001:B&W 0831 ,TN:G804 4.2, 4.5

8307130376 Ack receipt of 791205 ltr in response to NRC 791025 ltr transmitting notice of violation & proposed imposition of civil penalties in amount of \$155,000 re inoperability of flow paths to steam generator.

STELLO, V. :Director's Office, Office of Inspection and Enforcement  
ARNOLD, R.C. :Metropolitan Edison Co.  
DATE ISS:80/01/23, 35pp. ,48x:19501-066,001:B&W 0833 ,TN:G804 NOT REVIEWED

8307090170 Comments on 781120 memo re several items concerning 781107 event for consideration. No addl actions identified prior to resumption of power.

ARNOLD, R.C. :General Public Utilities - GPU Service Corp.  
HERBEIN, J.G. :General Public Utilities - GPU Service Corp.  
DATE ISS:78/11/27, 6pp. ,48x:19454-060,001:B&W 0834 ,TN:G804 4.3

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8307090175 Forwards addl items for consideration re 781107 TMI-2 trip event.

ARNOLD, R.C. : General Public Utilities - GPU Service Corp.  
 HERBEIN, J.G. : General Public Utilities - GPU Service Corp.  
 DATE ISS: 78/11/20, 13pp., 4x: 19454-066, 001: B&W 0835 , TN: GB04 4.2, 4.3

8307090178 Forwards rept re review of TMI-2 Sept 1977 HFT event, w/o encl.

HARDING, L.W. : General Public Utilities - GPU Service Corp.  
 WALLACE, E.G. : General Public Utilities - GPU Service Corp.  
 DATE ISS: 81/10/30, 2pp., 4x: 19454-079, 001: B&W 0836 , TN: GB04 4.3

8307090182 "TMI-2 Sept 1977 HFT event."

\* : General Public Utilities - GPU Service Corp.  
 :  
 DATE ISS: 81/10/30, 22pp., 4x: 19454-061, 001: B&W 0837 , TN: GB04 4.3

8307090188 "Analysis of TMI-2 Sept 1977 Event During Hot Functional Tests."

KEATER, R.W. : General Public Utilities - GPU Service Corp.  
 :  
 DATE ISS: 81/10/07, 13pp., 4x: 19454-131, 001: B&W 0838 , TN: GB04 4.2, 4.3

8307090192 Discusses Unit 2 staffing & licensing.

HERBEIN, J.G. : Metropolitan Edison Co.  
 ARNOLD, R.C. : Metropolitan Edison Co.  
 DATE ISS: 75/03/31, 19pp., 4x: 19454-068, 001: B&W 0839 , TN: GB04 4.1, 4.3

8307090197 Discusses cross licensing status rept.

SEELINGER, J. : Metropolitan Edison Co.  
 HERBEIN, J. : Metropolitan Edison Co.  
 DATE ISS: 75/04/14, 10pp., 4x: 19454-107, 001: B&W 0840 , TN: GB04 4.1, 4.3, 4.5

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8307130379 Forwards "Tmi Mat Audit, 780109-20." One major area of concern was practice of bypassing chain of command from top to bottom, resulting in duplication of efforts.

TRUFFER, G.J. : Metropolitan Edison Co.  
HERBEIN, J.G. : Metropolitan Edison Co.  
DATE ISS: 78/02/14, 6pp. , 48x: 19501-104, ODI: B&W 0643 , TN: G804 4.1, 4.2, 4.3

8307090223 Discusses exit remarks of J Buzzy following GP Miller senior reactor exam. Buzzy considers plant dirty & paper appears to be "falling apart" in control room.

ARNOLD, R.C. : Metropolitan Edison Co.  
HERBEIN, J.G. : Metropolitan Edison Co.  
DATE ISS: 76/04/20, 4pp. , 48x: 19454-124, ODI: B&W 0844 , TN: G804 4.1, 4.3, 4.4

8307130385 Suspends Itr-designated Individual VV from work for period 90813-26, for failure to exercise sound judgement during 978-79 requalification program.

MILLER, G.P. : Metropolitan Edison Co.  
VV : Metropolitan Edison Co.  
DATE ISS: 79/08/06, 3pp. , 48x: 19501-143, ODI: B&W 0845 , TN: G804 4.2, 4.3

8307080690 Review & analysis of 781107 partial loss of feedwater.

\* : General Public Utilities - GPU Service Corp.  
DATE ISS: 78/11/21, 2pp. , 48x: 19406-097, ODI: B&W 0860 , TN: G804 NOT REVIEWED

8307080692 Deposition of GA Kunder on 790802 in Harrisburg, PA, Pp 2-171.

KUNDER, G.A. : Metropolitan Edison Co.  
DATE ISS: 79/08/02, 314pp. , 48x: 19406-183, ODI: B&W 0861 , TN: G804 NOT REVIEWED

8307080687 Testimony of GA Kunder on 790511, Pp 1-36 & 1-21.

KUNDER, G.A. : Metropolitan Edison Co.  
DATE ISS: 79/05/11, 58pp. , 48x: 19409-137, ODI: B&W 0862 , TN: G804 NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
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8307120060 Resume of JG Herbein.

HERBEIN, J.G. : Metropolitan Edison Co.

DATE ISS: 82/06/20, 2pp. , 48x: 19458-016, OOI: B&W 0875 , TN: G604 4.2

8307130378 Summary of second TAI mtg audit review meeting re operator training, job classification & overtime, responsibility & accountability, policy establishment & promulgation, productivity & leadership.

TROFFER, G.J. : Metropolitan Edison Co.  
: Metropolitan Edison Co.

DATE ISS: 83/07/13, 6pp. , 48x: 19501-171, OOI: B&W 0883 , TN: G604 4.3

8307120084 Summary of TAI mtg audit review fourth meeting on 780424.

\* : General Public Utilities - GPU Service Corp.  
: General Public Utilities - GPU Service Corp.

DATE ISS: 78/04/24, 12pp. , 48x: 19458-071, OOI: B&W 0884 , TN: G604 4.1, 4.2, 4.3, 4.4

8307120088 Discusses simulator training costs. Revamp of requalification program in order.

TSAGGARIS, A. : Metropolitan Edison Co.

HERBEIN, J.G. : Metropolitan Edison Co.

DATE ISS: 76/05/07, 3pp. , 48x: 19458-083, OOI: B&W 0885 , TN: G604 4.1

8307120092 Discusses three problem areas in requalification program. Problems concern poor lesson attendance, inordinate time before matl is returned & not enough scheduled time in control room.

TSAGGARIS, A. : Metropolitan Edison Co.

HERBEIN, J.G. : Metropolitan Edison Co.

DATE ISS: 76/04/27, 1p. , 48x: 19458-170, OOI: B&W 0886 , TN: G604 4.1

8307120095 Requests B&W simulator training contract be executed as soon as possible. Requalification training scheduled to start on 750324.

HERBEIN, J.G. : Metropolitan Edison Co.

ARNOLD, H.C. : Metropolitan Edison Co.

DATE ISS: 75/03/03, 1p. , 48x: 19458-087, OOI: B&W 0887 , TN: G604 4.1



U. S. NUCLEAR REGULATORY COMMISSION  
IRC SPECIAL REPORT

8307120099 Submits simulator training schedule.

SEELINGER, J. :Metropolitan Edison Co.  
HERBEIN, J.G. :Metropolitan Edison Co.  
DATE ISS:75/03/13, 2nd. ,48x:19456-066,DDI:b&w 0888 ,TN:G604 4.1

8307120113 "Selection, Training, Qualification & Licensing of TMI  
Reactor Operating Personnel."

EYCHISON, R. :President's Commission on the Accident at Three Mile Island  
DATE ISS:79/10/31, 10vpp. ,48x:19458-094,DDI:B&W 0890 ,TN:G604 NOT REVIEWED

8307120130 Responds to request for addl info re Item 41.17. Response  
changed to read "NRC Current Event - Power Reactors," as of  
Amend 28.

\* :Metropolitan Edison Co.  
DATE ISS:75/10/31, 2pp. ,48x:19459-026,DDI:B&W 0893 ,TN:G604 NOT REVIEWED

8307120161 Resume of DM Shovlin.

SHOVLIN, D.M. :Metropolitan Edison Co.  
DATE ISS:62/07/16, 1p. ,48x:19459-139,DDI:b&w 0897 ,TN:G604 NOT REVIEWED

8307120183 Transcript of IE TMI investigation interview w/TF Illjes on  
790523 in Middletown, PA.

ILLJES, T.F. :Metropolitan Edison Co.  
DATE ISS:79/05/23, 26pp. ,48x:19460-011,DDI:b&w 0904 ,TN:G604 4.1, 4.3

8307090384 Transcript of IE interview of H Hartman on 790522.

HARTMAN, H. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/05/22, 61pp. ,48x:19460-275,DDI:b&w 1021 ,TN:G604 NOT REVIEWED

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8307130382 Transcript of Mr. Hartman 791029 deposition in Lancaster, PA  
by NRC Special Inquiry Group.

HARTMAN, H.W. : General Public Utilities - GPU Service Corp.

DATE ISS: 79/10/09, 59pp. , 48x: 19501-209, 001: B&W 1022 , TN: G804

NOT REVIEWED

8307110782 Deposition of Mr. Hartman on 800427 in Elizabethtown, PA.  
Pp 1-140.

HARTMAN, H.W. : Metropolitan Edison Co.

DATE ISS: 80/04/27, 143pp. , 48x: 19479-050, 001: B&W 1023 , TN: G804

NOT REVIEWED

8307110794 Deposition of Mr. Zewe on 790726 in Harrisburg, PA. Pp 1-167.

ZEW, W.H. : Metropolitan Edison Co.

DATE ISS: 79/07/26, 167pp. , 48x: 19479-193, 001: B&W 4006 , TN: G804

NOT REVIEWED

8307120646 Submits questions re electromatic valve remaining open.

ZEW, W.H. : Metropolitan Edison Co.

DATE ISS: 83/07/11, 3pp. , 48x: 19462-295, 001: B&W 4013 , TN: G804

NOT REVIEWED

8307120660 Response to apparent noncompliance w/Rev 9 to Operating  
Procedure 2104-b.2, "Emergency Diesels & Auxiliaries," on  
790328 when diesel generators 1A & B fuel racks manually  
tripped. Corrective actions discussed.

\* : General Public Utilities - GPU Service Corp.

DATE ISS: 79/03/20, 3pp. , 48x: 19462-299, 001: B&W 4015 , TN: G804

NOT REVIEWED

8307120719 "Reactor Coolant Leakage Test."

\* : General Public Utilities - GPU Service Corp.

DATE ISS: 79/03/19, 7pp. , 48x: 19463-043, 001: B&W 4025 , TN: G804

NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
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8307120725 "Reactor Coolant Leakage Test."

\* :General Public Utilities - GPU Service Corp.

DATE ISS:79/03/25, 9pp., ,48x:19463-050,001:B&W 4026 ,TN:GB04

NOT REVIEWED

8307120739 Response to apparent noncompliance w/Tech Spec 3/4.4.6,  
"RCS Leakage," due to error in calculational procedure for  
computations from 790322-28. Corrective action discussed.

\* :Dabcock & Wilcox Co.

DATE ISS:79/03/28, 2pp., ,48x:19463-059,001:B&W 4027 ,TN:GB04

NOT REVIEWED

8307120640 Ack receipt of preventive maint job index=by component  
(RC=R=0002), Change/Mod Request form 20267 & work request  
C=0055 on 790921.

HAYNES, R.C. :NRC - No Detailed Affiliation Given

GUERIN, J. :Metropolitan Edison Co.

DATE ISS:79/09/21, 2pp., ,48x:19495-261,001:B&W 4036 ,TN:GB04

4.3

8307120626 Graphs re 780423 failed open steam safety valves.

\* :Dabcock & Wilcox Co.

DATE ISS:83/07/11, 1p., ,48x:19496-045,001:B&W 4059 ,TN:GB04

4.3

8307120869 "Reactor Coolant Leakage Test."

\* :Metropolitan Edison Co.

DATE ISS:79/03/25, 180pp., ,48x:19496-052,001:B&W 4066 ,TN:GB04

NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
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8307090324 TMI-2 unidentified leakage calculation.

\* :Babcock & Wilcox Co.  
: DATE ISS:79/03/19, 1p. ,48x:19487-349,001:B&W 4067 ,TN:GB04 NOT REVIEWED

8307120873 TMI-2 Unidentified Leakage Calculation."

\* :Babcock & Wilcox Co.  
: DATE ISS:79/03/19, 1p. ,48x:19496-232,001:B&W 4067 ,TN:GB04 NOT REVIEWED

8307130046 Transcript of 790525 util group discussion.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/05/25, 3pp. ,48x:19496-346,001:B&W 5000AA ,TN:GB04 NOT REVIEWED

8307130054 Transcript of 790525 util group discussion.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/05/25, 3pp. ,48x:19496-349,001:B&W 5000BB ,TN:GB04 NOT REVIEWED

8307130078 Transcript of 790412 interview w/util.

\* :Director's Office, Office of Inspection and Enforcement  
: DATE ISS:79/04/12, 1p. ,48x:19496-355,001:B&W 5001AA ,TN:GB04 NOT REVIEWED

8307130113 Transcript of 790424 interview w/util.

\* :Director's Office, Office of Inspection and Enforcement  
: DATE ISS:79/04/24, 3pp. ,48x:19497-007,001:B&W 5005AA ,TN:GB04 NOT REVIEWED

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8307130119 Transcript of 790421 interview w/util.

\* :Director's Office, Office of Inspection and Enforcement  
: DATE ISS:79/04/21, 1p. ,48x:19497-010,ODI:B&W 5006AA ,TN:G804 4.1, 4.2

8307130130 Transcript of 790406 interview w/util.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/04/06, 1p. ,48x:19497-014,ODI:B&W 500788 ,TN:G804 4.1, 4.2

8307130135 Transcript of 800327 interview w/util.

\* :Director's Office, Office of Inspection and Enforcement  
: DATE ISS:80/03/27, 2pp. ,48x:19497-017,ODI:B&W 5008AA ,TN:G804 NOT REVIEWED

8307010246 Answers questions re difficulties associated w/NPGD. Includes inability to anticipate industry trends & lack of urgency in completing tasks.

ELLIOTT, W.S. :Babcock & Wilcox Co.  
OLDS, G.M. :Babcock & Wilcox Co.  
DATE ISS:73/11/08, 1p. ,48x:19178-136,ODI:GPU 0046 ,TN:G804 NOT REVIEWED

8307010255 Responds to 730406 ltr re technician water chemistry course. Attempting to have Mr Ed give course. Cost control main obstacle to overcome.

ELLIOTT, W.S. :Babcock & Wilcox Co.  
POCOCK, F.J. :Affiliation unknown  
DATE ISS:73/04/11, 1p. ,48x:19178-143,ODI:GPU 0050 ,TN:G804 NOT REVIEWED

8307070548 Submits preliminary report of Safety Concern PSC 18-79 re plant operators panel instrumentation readout limited to 2500 psia, below Tech Spec limit. Analysis concludes condition not reportable per 10CFR50.55e or 10CFR21.

TAYLOR, J.H. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:79/07/05, 3pp. ,48x:19337-219,ODI:GPU 0071 ,TN:G804 NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
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8307070552 Submits preliminary report of Safety Concern PSC 25-79 re  
sequence of events identified during simulator training  
which could lead to saturated conditions in reactor core.  
Concern not reportable per 10CFR50.55e or 10CFR21.  
ELLIOTT, N.S. :Babcock & Wilcox Co.  
TAYLOR, J.H. :Babcock & Wilcox Co.  
DATE ISS:79/09/06, Sup. ,48x:19337-222,ODI:GPU 0072 ,TN:G804 NOT REVIEWED

8307070562 Forwards engineering capability inventory for input for  
ECCS unit per 800728 request.  
GEER, T.E. :Babcock & Wilcox Co.  
WILLIAMS, L.P. :Babcock & Wilcox Co.  
DATE ISS:80/08/16, 1600. ,48x:19337-232,ODI:GPU 0075 ,TN:G804 NOT REVIEWED

8307020239 Responds to Vannoy 781005 memo re course taken to correct  
poor availability of NWR plants. Facts re performance  
relative to competition encl. Equipment performance  
improvements being addressed.  
MACMILLAN, J.H. :Babcock & Wilcox Co.  
FAVRET, L.M. :Babcock & Wilcox Co.  
DATE ISS:78/10/30, Sup. ,48x:19225-142,ODI:GPU 0142 ,TN:G804 NOT REVIEWED

8307090051 Concurs w/RU Vosburgh 780411 findings re site problems  
review. benefit to interface mat program to have front  
loading participation on problems. Findings encl.  
LABELLE, D.W. :Babcock & Wilcox Co.  
ROY, D.H. :Babcock & Wilcox Co.  
DATE ISS:78/04/13, 300. ,48x:19490-217,ODI:GPU 0285 ,TN:G804 NOT REVIEWED

8307090057 Forwards RU Vosburgh & MV Donaca recommendations re  
TMI-2 aftermath planning for improved safety.  
LABELLE, D.W. :Babcock & Wilcox Co.  
ROY, D.H. :Babcock & Wilcox Co.  
DATE ISS:79/05/07, Sup. ,48x:19490-220,ODI:GPU 0286 ,TN:G804 NOT REVIEWED

8307090059 "Potential Lessons to be Learned From TMI-2."  
LABELLE, D.W. :Babcock & Wilcox Co.  
DATE ISS:79/05/25, 200. ,48x:19490-225,ODI:GPU 0287 ,TN:G804 NOT REVIEWED



U. S. NUCLEAR REGULATORY COMMISSION  
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8307120721 Resume of DF Hallman.

HALLMAN, D.F. :Babcock & Wilcox Co.  
DATE ISS:82/01/19, 3pp. ,4Ax:19461-039,00I:GPU 0416 ,TN:G804 NOT REVIEWED

8307060522 Resume of FR Faist.

FAIST, F.R. :Babcock & Wilcox Co.  
DATE ISS:82/03/23, 2pp. ,4Ax:19340-262,00I:GPU 0486 ,TN:G804 NOT REVIEWED

8307130237 Resume of RD Davis.

DAVIS, R.D. :Hiley & Wilson  
DATE ISS:83/07/12, 2pp. ,4Ax:19503-350,00I:GPU 0506 ,TN:G804 4.2

8307070382 Discusses near-term design improvements identified in 790416 meeting w/ACKS. Mods will provide operators w/more positive indication of POMV position & saturated temp condition indicator for RCS.

MACMILLAN, J.H. :Babcock & Wilcox Co.  
DENTON, H.R. :Office of Nuclear Reactor Regulation, Director  
DATE ISS:79/04/26, 1p. ,4Ax:19341-109,00I:GPU 0534 ,TN:G804 NOT REVIEWED

8307120804 Lists items discusses at B&W Uses Group Nov 1977 meeting.

MILLER, G.P. :Metropolitan Edison Co.  
ROGERS, L.C. :Metropolitan Edison Co.  
DATE ISS:77/11/16, 2pp. ,4Ax:19502-352,00I:GPU 2024 ,TN:G804 NOT REVIEWED

8307120804 Lists items discusses at B&W Uses Group Nov 1977 meeting.

MILLER, G.P. :Metropolitan Edison Co.  
ROGERS, L.C. :Metropolitan Edison Co.  
DATE ISS:77/11/16, 2pp. ,4Ax:19502-352,00I:GPU 2024 ,TN:G804 NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
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8307120942 "Shift Supervisor Training Program."

\* :General Public Utilities - GPU Service Corp.  
:   
DATE ISS:77/03/22, 7pp. ,48x:19503-194,001:GPU 2061 ,TN:GB04 NOT REVIEWED

8307110725 Rev 4 to Operating Procedure 2101-1.1 for TMI-2, "Nuclear Plant Limits & Precautions."

\* :Babcock & Wilcox Co.  
:   
DATE ISS:78/08/08, 72pp. ,48x:19465-179,001:GPU 2065 ,TN:GB04 NOT REVIEWED

8307110318 Forwards Zewe review of control room alarms vs Tech Spec setpoints. Alarm setpoint adjustment to Tech Spec conservative requirements requested. Due date on 781201.

SEELINGER, J.L. :General Public Utilities - GPU Service Corp.  
PORTER, J. :General Public Utilities - GPU Service Corp.  
DATE ISS:78/11/05, 7pp. ,48x:19463-294,001:GPU 2067 ,TN:GB04 NOT REVIEWED

8307080017 Transcript of President's Commission on Accident at TMI third meeting on 790530 in Washington, DC. Pp 1-210, n/o Pp 5-112.

\* :President's Commission on the Accident at Three Mile Island  
:   
DATE ISS:79/05/30, 103pp. ,48x:19338-209,001:GPU 2069 ,TN:GB04 NOT REVIEWED

8307110337 Forwards results summary of 1978-79 requal written exam, for info. Postoral packages forwarded to individuals having two or more categories less than 80%.

BEERS, M.L. :Metropolitan Edison Co.  
MILLER, G.P. :Metropolitan Edison Co.  
DATE ISS:79/05/01, 5pp. ,48x:19463-320,001:GPU 2075 ,TN:GB04 NOT REVIEWED

8307110342 Application by WH Zewe for hot reactor operator license. Prof qualifications encl.

ZEW, W.H. :Metropolitan Edison Co.  
COLLINS, P.F. :Atomic Energy Commission, Directorate of Licensing  
DATE ISS:74/05/29, 8pp. ,48x:19463-326,001:GPU 2076 ,TN:GB04 NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
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8307110344 Application by WM Zewe for senior reactor operator license.

ZEW, W.M. : Metropolitan Edison Co.  
COLLINS, P.F. : Atomic Energy Commission, Directorate of Licensing  
DATE ISS: 75/07/10, 4pp. , 4RX: 19483-332, OOI: GPU 2077 , TN: GB04 NOT REVIEWED

8307110345 Application by WM Zewe for senior reactor operator license.

ZEW, W.M. : Metropolitan Edison Co.  
COLLINS, P.F. : Operator Licensing Branch  
DATE ISS: 77/07/05, 4pp. , 4RX: 19483-330, OOI: GPU 2078 , TN: GB04 NOT REVIEWED

8307080041 Printout listing for 790328 sequence of events review.

\* : Metropolitan Edison Co.  
DATE ISS: 79/03/28, 67pp. , 4RX: 19338-317, OOI: GPU 2083 , TN: GB04 NOT REVIEWED

8307050403 Revised Chapter 13 to FSAR, "Conduct of Operations."

\* : General Public Utilities - GPU Service Corp.  
DATE ISS: 78/04/07, 67pp. , 4RX: 19230-001, OOI: GPU 2156 , TN: GB04 NOT REVIEWED

8307050420 Requalification program, "Category Review."

\* : General Public Utilities - GPU Service Corp.  
DATE ISS: 79/12/31, 59pp. , 4RX: 19230-167, OOI: GPU 2158 , TN: GB04 NOT REVIEWED

8307120939 R&W reviewed electromatic relief valve logic. Switch S-1 should be in deenergized position to alleviate condition re valve position on loss of power. Control room indicating light, operated from power to solenoid, can be added.

TUDLE, R. : General Public Utilities - GPU Service Corp.  
DATE ISS: 78/04/03, 3pp. , 4RX: 19500-302, OOI: GPU 2177 , TN: GB04 NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
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8307050494 Exam reprot for operator license issued for ER Frederick  
written exam dtd 770817. Operating test administered 770914.

\* : Operator Licensing Branch  
:   
DATE ISS:77/10/17, 10p. ,48X:19231-208,ODI:GPU 2181 ,TN:GB04 NOT REVIEWED

8307050499 Authorizes release of all info in NRC files re NRC reactor  
operator license written & oral exam results for FOIA  
request.

FREDERICK,E.R. :Metropolitan Edison Co.  
: Division of Rules and Records  
DATE ISS:79/11/30, 840p. ,48X:19231-209,ODI:GPU 2182 ,TN:GB04 NOT REVIEWED

8307120951 Forwards lists of items for reactor vendor analysis re  
27 technical issues identified in NUREGs 0138 & 0163 per  
ACRS request. Analysis needed to confirm judgements reached  
in NRC analyses.

ROSS,U.F. : Division of Systems Safety  
SUMRKE,K. : Babcock & Wilcox Co.  
DATE ISS:77/03/18, 300p. ,48X:19500-329,ODI:GPU 2200 ,TN:GB04 NOT REVIEWED

8307080028 "Training & Certification of Licensed Personnel."

\* :Metropolitan Edison Co.  
:   
DATE ISS:79/07/10, 1040p. ,48X:19359-347,ODI:GPU 2323 ,TN:GB04 NOT REVIEWED

8307080106 Transcript of 820428 reprot of Special Master re reopened  
restart proceedings. Pgs 1-196.

\* :Atomic Safety and Licensing Board Panel  
:   
DATE ISS:82/04/28, 2010p. ,48X:19360-144,ODI:GPU 2334 ,TN:GB04 NOT REVIEWED

8307080115 Power plant exam results summary sheets.

\* :Metropolitan Edison Co.  
:   
DATE ISS:83/07/07, 590p. ,48X:19360-345,ODI:GPU 2335 ,TN:GB04 NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
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8307080110 "Summary of Operating Problems w/Pressurizer Electromatic Relief Valves."

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/07, 4pp. ,48x:19361-093,001:GPU 2343 ,TN:G804

NOT REVIEWED

8307080195 Discusses 731229-740104 weekly rept re hot functional testing.

PHINNEY, J.D. :Babcock & Wilcox Co.  
BEACH, R.R. :Babcock & Wilcox Co.  
DATE ISS:74/01/04, 3pp. ,48x:19361-146,001:GPU 2411 ,TN:G804

NOT REVIEWED

8307080483 "Emergency & Abnormal Procedures Quiz - Senior Reactor Operator."

KUNDER, S.A. :General Public Utilities - GPU Service Corp.  
: DATE ISS:76/10/20, 3pp. ,48x:19361-313,001:GPU 2456 ,TN:G804

NOT REVIEWED

8307080487 "Emergency & Abnormal Procedures Quiz - Senior Reactor Operator."

KUNDER, G. :General Public Utilities - GPU Service Corp.  
: DATE ISS:77/01/09, 6pp. ,48x:19361-316,001:GPU 2457 ,TN:G804

NOT REVIEWED

8307080520 Forwards IE Insp Rept 50-289/79-06 on 790221-23 & 26-28. No noncompliance noted.

BRUNNER, E.J. : Region 1, Philadelphia, Reactor Operations Nuclear Support  
HERBEIN, J.G. :Metropolitan Edison Co.  
DATE ISS:79/03/21, 2pp. ,48x:19361-356,001:GPU 2462 ,TN:G804

NOT REVIEWED

8307080581 "Operating Guidelines for Small breaks for Dcones 1, 2 & 3, TMI-1 & TMI-2, Crystal River 3 & Rancho Seco I."

\* :Babcock & Wilcox Co.  
: DATE ISS:83/07/06, 48pp. ,48x:19362-066,001:GPU 2468 ,TN:G804

NOT REVIEWED

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307080732 Rev 0 to Policy NPC-0151-650, "Objectives &  
Responsibilities - Nuclear Svc."

MACMILLAN, J. :Babcock & Wilcox Co.

DATE ISS:75/12/11, 2pp. ,48x:19491-160,ODI:GPU 2514 ,TN:GB04

NOT REVIEWED

8307050404 Transcript of BM Dunn 791004 deposition.Pp 22,26,7,11,17-18,  
21 & 23-87.

DUNN, B.M. :General Public Utilities - GPU Service Corp.

DATE ISS:79/10/04, 54pp. ,48x:19232-131,ODI:GPU 6020 ,TN:GB04

NOT REVIEWED

8307050411 Transcript of BM Dunn 790630 deposition.Pp 30-34,43-45,47,  
52-55,65-66,69-75,78,81-82 & 98-99.

DUNN, B.M. :General Public Utilities - GPU Service Corp.

DATE ISS:79/06/30 29pp. ,48x:19232-185,ODI:GPU 6021 ,TN:GB04

NOT REVIEWED

8307050419 Transcript of BM Dunn 790702 deposition.Pp 104-105,157,  
164-167,169,171-172,175-176,179-182,199,203-206,208-212 &  
219-220.

DUNN, B.M. :General Public Utilities - GPU Service Corp.

DATE ISS:79/07/02, 30pp. ,48x:19232-214,ODI:GPU 6022 ,TN:GB04

NOT REVIEWED

8307050422 Transcript of BM Dunn 790713 deposition.Pp 3A,5-6 & 9-11.

DUNN, B.M. :General Public Utilities - GPU Service Corp.

DATE ISS:79/07/13, 7pp. ,48x:19232-244,ODI:GPU 6023 ,TN:GB04

NOT REVIEWED

8307070165 Partial deposition of JF Walters on 790706.

WALTERS, J.F. :Babcock & Wilcox Co.

DATE ISS:79/07/06, 17pp. ,48x:19357-027,ODI:GPU 6047 ,TN:GB04

NOT REVIEWED



U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307070185 Partial deposition of EA womack on 790630.

WOMACK, E.A. :Babcock & Wilcox Co.

DATE ISS:79/06/30, 30pp. ,48X:19357-116,00I:GPU 6054 ,TN:GB04

NOT REVIEWED

8307120920 Excerpt from IE interview of B Mehler on 800327 re RCS  
inventory, Pa 5-12.

MEHLER, B. :General Public Utilities - GPU Service Corp.

DATE ISS:80/03/27, 8pp. ,48X:19512-279,00I:GPU 6060AA ,TN:GB04

NOT REVIEWED

002519 RECORDS SCANNED 211 RECORDS PRINTED ( 62 RECORDS, 149 SUPP.)  
ENDING CODE= 186 LAST KEY= GPU 6060AA 830712092004

CATEGORY 5  
TRIAL TESTIMONY

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8306290419 Transcript of 821101 trial between util & B&W in  
New York, NY. Pd 1-189.

\* :U.S. District Court, Southern District of New York  
: |  
DATE ISS:82/11/01, 189pp. ,48X:19022-001,001: ,TN:G805 IRRELEVANT

8306290502 Testimony of ER Frederick on 821207 in New York, NY. Pd 3,378-  
3,559.

\* :General Public Utilities - GPU Service Corp.  
: |  
DATE ISS:82/12/07, 181pp. ,48X:19031-004,001: ,TN:G805 5.2

8306290560 Testimony of ER Frederick on 821213 in New York, NY. Pd 3,990-  
4085.

\* :General Public Utilities - GPU Service Corp.  
: |  
DATE ISS:82/12/13, 97pp. ,48X:19032-257,001: ,TN:G805 5.2

8306290617 Testimony of E Kane on 821215 in New York, NY. Pd 4,389-4,414.

\* :Babcock & Wilcox Co.  
: |  
DATE ISS:82/12/15, 27pp. ,48X:19695-078,001: ,TN:G805 IRRELEVANT

8306290637 Testimony of R Sieglitz on 830104 in New York, NY. Pd 5,754-  
5911.

\* :General Public Utilities - GPU Service Corp.  
: |  
DATE ISS:83/01/04, 147pp. ,48X:19037-219,001: ,TN:G805 5.2

003037 RECORDS SCANNED 5 RECORDS PRINTED ( 0 RECORDS, 5 SUPP.)  
ENDING CODE= 186 LAST KEY= Z00IACD,V,P. 7905116807

CATEGORY 5  
DEPOSITIONS

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307060447 Deposition of CC Faust on 810820 in New York, NY. Pp 276-412.

FAUST, C. C. : Metropolitan Edison Co.

DATE ISS: 81/08/20, 136pp. , 48X: 19301-291, ODI: , TN: GB05 5.2

8306290719 Deposition of ER Frederick on 820506 in New York, NY. Pp  
282-420.

FREDERICK, E. R. : Metropolitan Edison Co.

DATE ISS: 82/05/06, 138pp. , 48X: 19078-269, ODI: , TN: GB05 IRRELEVANT

8306290752 Deposition of DF Hallman on 820122 in New York, NY. Pp 457-  
547.

HALLMAN, D. F. : Babcock & Wilcox Co.

DATE ISS: 82/01/22, 89pp. , 48X: 19086-079, ODI: , TN: GB05 IRRELEVANT

8306290907 Deposition of R Keaten on 820119 in New York, NY. Pp 628-764.  
Index of exhibits encl.

KEATEN, R. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/01/19, 137pp. , 48X: 19097-093, ODI: , TN: GB05 5.5

8306290918 Deposition of R Keaten on 820121 in New York, NY. Pp 905  
1,056. Index of exhibits encl.

KEATEN, R. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/01/21, 152pp. , 48X: 19098-009, ODI: , TN: GB05 5.2

8306290800 Deposition of JH MacMillan on 820610 in New York, NY.  
Pp 134-324.

MACMILLAN, J. R. : Babcock & Wilcox Co.

DATE ISS: 82/06/10, 190pp. , 48X: 19129-186, ODI: , TN: GB05 5.2

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8306290825 Deposition of BA Mehler on 810728 in New York, NY. Pp 1-172.

MEHLER, B. A. : Metropolitan Edison Co.

DATE ISS: 81/07/28, 172pp, .48X: 19131-031, ODI: , TN: GB05 5.2

8306290806 Deposition of BA Mehler on 810730 in New York, NY. Pp 364-679.

MEHLER, B. A. : Metropolitan Edison Co.

DATE ISS: 81/07/30, 315pp, .48X: 19132-034, ODI: , TN: GB05 IRRELEVANT

8307110121 Deposition of BA Mehler on 810731 in New York, NY. Pp 565-679.

MEHLER, B. A. : Metropolitan Edison Co.

DATE ISS: 81/07/31, 115pp, .48X: 19488-271, ODI: , TN: GB05 5.2

8306290851 Deposition of AW Miller on 811201 in Middletown, PA. Pp 1-131.

MILLER, A. W. : General Public Utilities - GPU Service Corp.

DATE ISS: 81/12/01, 131pp, .48X: 19134-028, ODI: , TN: GB05 5.1, 5.2

8306290856 Deposition of JD Phinney on 820113 in New York, NY. Pp 1-134.

PHINNEY, J. D. : Babcock & Wilcox Co.

DATE ISS: 82/01/13, 134pp, .48X: 19138-154, ODI: , TN: GB05 5.2

8306290909 Deposition of WE Potts on 820107 in New York, NY. Pp 1-176.

POTTS, W. E. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/01/07, 176pp, .48X: 19139-203, ODI: , TN: GB05 5.1



U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8306290902 Deposition of F Scheimann on 820223 in New York, NY. Pp 1-156.

SCHEIMANN, F. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/02/23, 157pp. , 48X: 19143-235, ODI: , TN: GB05

IRRELEVANT

8306290937 Deposition of JL Seelinger on 811022 in Palm Beach, FL. Pp  
414-539.

SEELINGER, J. L. : United Technologies Corp.

DATE ISS: 81/10/22, 126pp. , 48X: 19148-003, ODI: , TN: GB05

5.2

8306290839 Deposition of D Shovlin on 820716 in New York, NY. Pp 1-204.

SHOVLIN, D. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/07/16, 204pp. , 48X: 19148-347, ODI: , TN: GB05

5.2

8306290820 Deposition of RJ Toole on 810622 in New York, NY.  
Pp 1-279.

TOOLE, R. J. : General Public Utilities - GPU Service Corp.

DATE ISS: 81/06/22, 279pp. , 48X: 19152-065, ODI: , TN: GB05

5.2

8306290824 Deposition of RJ Toole on 810623 in New York, NY. Pp 280-506.

TOOLE, R. J. : General Public Utilities - GPU Service Corp.

DATE ISS: 81/06/23, 226pp. , 48X: 19152-345, ODI: , TN: GB05

5.1

8306290746 Deposition of WH Zewe on 820525 in New York, NY. Pp 351-479.

ZEWE, W. H. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/05/25, 128pp. , 48X: 19166-310, ODI: , TN: GB05

5.2

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8306290751 Deposition of WH Zeve on 820526 in New York, NY. Pp 480-645.

ZEVE, W. H. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/05/26, 165pp. , 4BX: 19167-079, ODI: , TN: GB05

5.2

000635 RECORDS SCANNED 19 RECORDS PRINTED ( 0 RECORDS, 19 SUPP. )  
ENDING CODE- 186 LAST KEY- ZEVE, W. H. 820528GB07

CATEGORY 5

EXHIBITS

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307020164 Draft "Std Consulting Agreement, GPU Svc Corp."

\* :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:81/04/23, 18pp. ,48x:19270-169,ODI:B&W 0024 ,TN:GB05 5.1

8307110008 Forwards rept summarizing opinions of more than 30 GPU & Met Ed managers, executives & technical & task force leader personnel re post-TMI-2 accident recovery or investigation assignments.

GLICKMAN, F. :General Public Utilities - GPU Service Corp.  
DIECKAMP, H.M. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/11/30, 54pp. ,48x:19476-307,ODI:B&W 0032 ,TN:GB05 5.1, 5.2

8307020058 Contract for insp & rept on inservice once-through steam generator tubes. w/ Nuclear Energy Svcs, Inc.

PERKINS, D.R. :Nuclear Energy Service, Inc.  
: :  
DATE ISS:79/03/14, 37pp. ,48x:19240-083,ODI:B&W 0038 ,TN:GB05 5.1

8307020158 Sections 17.3 through 17.4 to Unit 2 FSAR Vol 11.

\* :Metropolitan Edison Co.  
: :  
DATE ISS:79/07/15, 15pp. ,48x:19240-001,ODI:B&W 0153 ,TN:GB05 5.1

8307020057 Audit on safety-related switchgear, qualifications of multi-amp personnel, multi-amp QA records & closeout field questionnaires.

O'TOOLE, R. :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:76/06/24, 4pp. ,48x:19209-184,ODI:B&W 0158 ,TN:GB05 5.1

8307020051 RO 7: on 770906, both low nuclear svcs closed cooling water pumps tripped, followed by standby pump trip. Caused by condensate polisher resin migration. Sys to be flushed & internals in check valve DV-V173 to be reinstalled.

POJE, S.G. :Metropolitan Edison Co.  
: :  
DATE ISS:78/07/17, 4pp. ,48x:19215-298,ODI:B&W 0178 ,TN:GC05 5.2

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307050340 Transcript of Commission 810204 restart hearing in  
Harrisburg, PA. Pd 11,513-11,717.

\* :Commissioners  
:1  
DATE ISS:81/02/04, 306pp. ,48x:19322-129,00I:B&W 0179 ,TN:GB05 5.2

8307020091 Rev 18 to "TMI Nuclear Station Administrative Procedure  
1001, Document Control."

\* :Babcock & Wilcox Co.  
:1  
DATE ISS:79/02/21, 117pp. ,48x:19245-064,00I:B&W 0237 ,TN:G605 5.1, 5.2

8307020095 Transcript of 790425 interview w/B Mehler.

MEHLER, B. :General Public Utilities - GPU Service Corp.  
:1  
DATE ISS:79/04/25, 10pp. ,48x:19245-181,00I:B&W 0238 ,TN:G605 5.2

8307020098 Transcript of 790510 interview w/B Mehler.

MEHLER, B. :General Public Utilities - GPU Service Corp.  
:1  
DATE ISS:79/05/10, 45pp. ,48x:19245-004,00I:B&W 0239 ,TN:G605 5.2

8307020104 Expresses desire that corrective action be completed on  
listed major equipment problems prior to restart of test  
program & power operation.

WARD, E.G. :Babcock & Wilcox Co.  
BARTON, J. :General Public Utilities - GPU Service Corp.  
DATE ISS:78/05/02, 1p. ,48x:19246-050,00I:B&W 0243 ,TN:G605 IRRELEVANT

8307050287 Forwards IE Inso Rept 50-346/78-06 on 771206-08 & 780306-06.  
Effective presentation of info re transients at other plants  
suggested to enhance nuclear industry communications.

ARNOLD, R.C. :General Public Utilities - GPU Service Corp.  
KEMERY, J.G. :President's Commission on the Accident at Three Mile Island  
DATE ISS:79/08/30, 5pp. ,48x:19326-018,00I:B&W 0247 ,TN:GB05 5.2

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307050290 Rev 8 to Administrative Procedure 1012, "Shift Relief & Load Entries."

\* :General Public Utilities - GPU Service Corp.  
:Metropolitan Edison Co.  
DATE ISS:77/11/04, 12pp. ,48x:19327-061,001:B&W 0253 ,TN:GB05 5.2

8307080155 Forwards assignments for verification of operating procedures, emergency procedural & followup operations check of sys.

FLOYD, J.R. :Metropolitan Edison Co.  
:Metropolitan Edison Co.  
DATE ISS:77/03/23, 9pp. ,48x:19331-248,001:B&W 0295 ,TN:GB05 IRRELEVANT

8307070326 "Generation Maint Sys Manual Performance Form."

\* :Babcock & Wilcox Co.  
:Metropolitan Edison Co.  
DATE ISS:81/12/01, 2pp. ,48x:19329-007,001:B&W 0317 ,TN:GB05 5.2

8307070385 Draft transcript of investigative task force meeting w/ operating crew on duty in control room on morning of 790328.

\* :General Public Utilities - GPU Service Corp.  
:Metropolitan Edison Co.  
DATE ISS:82/01/07, 234pp. ,48x:19321-015,001:B&W 0346 ,TN:GB05 5.2

8307070397 First draft "GPU Task Force Interim Summary Rept."

\* :General Public Utilities - GPU Service Corp.  
:Metropolitan Edison Co.  
DATE ISS:79/09/28, 50pp. ,48x:19321-250,001:B&W 0347 ,TN:GB05 5.1

8308230570 Transcript of TMI Investigative Task Force Taped Interview 1 (Keaten Tapes) on 790824, Pp 1-44.

\* :General Public Utilities - GPU Service Corp.  
:Metropolitan Edison Co.  
DATE ISS:79/08/24, 45pp. ,48x:20125-073,001:B&W 0347A ,TN:GB05 IRRELEVANT



U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8308230585 Transcript of TMI Investigative Task Force Taped Interview 4  
(Keaten Tapes) on 790824, Pd 1-45.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/08/24, 460p. ,48x:20125-198,001:8&W 0347D ,TN:G805 IRRELEVANT

8308230606 Transcript of TMI Investigative Task Force Taped Interview 7  
(Keaten Tapes) on 790919, Pd 1-63.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/09/19, 640p. ,48x:20126-007,001:8&W 0347G ,TN:G805 5.2

8308230609 Transcript of TMI Investigative Task Force Taped Interview 8  
(Keaten Tapes) on 790919, Pd 1-64.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/09/19, 650p. ,48x:20126-073,001:8&W 0347H ,TN:G805 5.2

8308230612 Transcript of TMI Investigative Task Force Taped Interview 9  
(Keaten Tapes) on 790919, Pd 1-30.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/09/19, 310p. ,48x:20126-138,001:8&W 0347I ,TN:G805 5.2

8308230617 Transcript of TMI Investigative Task Force Taped Interview  
10 (Keaten Tapes) on 790920, Pd 1-64.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/09/20, 650p. ,48x:20126-169,001:8&W 0347J ,TN:G805 5.2

8308230619 Transcript of TMI Investigative Task Force Taped Interview  
11 (Keaten Tapes) on 790920, Pd 1-66.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/09/20, 670p. ,48x:20126-234,001:8&W 0347K ,TN:G805 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8308230630 Transcript of TMI Investigative Task Force Taped Interview  
14 (Keaten Tapes) on 791016, Pa 1-34.

\* :General Public Utilities - GPU Service Corp.  
: 1  
DATE ISS:79/10/18, 35pp. ,48x:20127-024,001:B&W 0347N ,TN:GB05 5.2

8307070436 Second draft "GPU Task Force Interim Summary Rept."

KEATEN,R.W. :General Public Utilities - GPU Service Corp.  
: 1  
DATE ISS:79/10/06, 57pp. ,48x:19322-016,001:B&W 0349 ,TN:GB05 5.1, 5.2

8307080673 Forwards "GPU Task Force Interim Summary Rept," third draft  
re TMI-2 accident on 790326.

KEATEN,R.W. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:79/10/17, 1p. ,48x:19402-181,001:B&W 0350 ,TN:GB05 5.1, 5.2

8307080681 Forwards "GPU Task Force Interim Summary Rept" re findings &  
conclusions to date & presenting preliminary recommendations  
re TMI-2 accident on 790328.

KEATEN,R.W. :General Public Utilities - GPU Service Corp.  
DIECKAMP,H.M. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/10/29, 1p. ,48x:19402-339,001:B&W 0351 ,TN:GB05 5.1, 5.2

8307080688 "GPU Accident Review Task Force Interim Summary Rept."

KEATEN,R.W. :General Public Utilities - GPU Service Corp.  
: 1  
DATE ISS:79/11/28, 41pp. ,48x:19403-019,001:B&W 0352 ,TN:GB05 5.1, 5.2

8307080691 Lists items which must be accomplished to complete GPU/Met  
Ed review of TMI-2 accident & underlying causes.

KEATEN,R.W. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:79/12/03, 6pp. ,48x:19403-061,001:B&W 0353 ,TN:GB05 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307080693 "GPU Accident Review Task Force Final Summary Rept."

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:80/03/24, 41pp. ,4Rx:19403-068,00I:B&W 0354 ,TN:G805 5.1, 5.2

8307080695 "GPU Accident Review Task Force Final Summary Rept."

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:80/05/12, 50pp. ,4Rx:19403-112,00I:B&W 0355 ,TN:G805 5.1, 5.2

8307080698 "GPU Accident Review Task Force Final Summary Rept."

KEATEN,R.W. :General Public Utilities - GPU Service Corp.  
: DATE ISS:80/12/15, 49pp. ,4Rx:19403-161,00I:B&W 0356 ,TN:G805 5.1, 5.2

8307120734 Transcript of 790412 interview w/G Miller.Pp 1-58.

\* :Metropolitan Edison Co.  
: DATE ISS:79/04/12, 58pp. ,4Rx:19502-230,00I:b&w 0360 ,TN:G805 5.2

8307080709 Transcript of interview w/util crew not directly involved in  
790328 accident.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:82/01/21, 288pp. ,4Rx:19404-134,00I:B&W 0362 ,TN:G805 IRRELEVANT

8307080096 Submits personnel changes at TMI,Changes & appointments made  
in accordance w/Rev 0 to GP 0019.

TROFFER,G.J. :Metropolitan Edison Co.  
:Metropolitan Edison Co.  
: DATE ISS:79/01/08, 2pp. ,4Rx:19334-115,00I:B&W 0362 ,TN:G805 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307080241 Second draft of GPU Task Force "Interim Summary Rept."

KEATEN, R.W. : General Public Utilities - GPU Service Corp.  
:   
DATE ISS: 79/10/06, 66pp. , 48X: 19335-190, OOI: B&W 0402 , TN: GB05 IRRELEVANT

8307080244 Forwards third draft to, "Interim Summary Rept."

KEATEN, R.W. : General Public Utilities - GPU Service Corp.  
: General Public Utilities - GPU Service Corp.  
DATE ISS: 79/10/17, 1p. , 48X: 19336-118, OOI: B&W 0403 , TN: GB05 IRRELEVANT

8307080247 Third draft of "Interim Summary Rept."

\* : General Public Utilities - GPU Service Corp.  
:   
DATE ISS: 79/10/17, 73pp. , 48X: 19336-119, OOI: B&W 0403 , TN: GB05 IRRELEVANT

8307080630 Deposition of G Kunder on 10/19/18 in Middletown, PA. Po 1-119.

KUNDER, G.A. : General Public Utilities - GPU Service Corp.  
:   
DATE ISS: 79/09/18, 240pp. , 48X: 19393-242, OOI: B&W 0421 , TN: GB05 5.2

8307080635 Marked-up, incomplete deposition of R Keater, G Kunder,  
L Tsaddaris & E Wallace.

KEATER, R. : General Public Utilities - GPU Service Corp.  
:   
DATE ISS: 82/02/12, 50pp. , 48X: 19394-179, OOI: B&W 0425 , TN: GB05 5.2

8307110706 Abstract of technical data report re PORV operation & failure  
at TMI-2.

\* : General Public Utilities - GPU Service Corp.  
:   
DATE ISS: 82/02/19, 21pp. , 48X: 19441-017, OOI: B&W 0444 , TN: GB05 5.1, 5.2

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307090278 Attendees at 740905, 06, 1129 & 1203 training programs re selected emergency procedures, operational QA, Tech Spec review & major operational evaluations.

SEELINGER, J. :Metropolitan Edison Co.

DATE ISS:74/09/06, Sup. ,48x:19413-093,001:8&W 0516 ,TN:GB05

IRRELEVANT

8307090174 Suggests that pressurizer electromagnetic relief valve RC-RV2 be inspected periodically for corrosion products & freedom of movement re lever pin & hinge noting clearances w/solenoid bracket.

ROGERS, L.C. :Babcock & Wilcox Co.

HERHEIN, J.G. :Metropolitan Edison Co.

DATE ISS:75/07/31, 1p. ,48x:19396-234,001:8&W 0656 ,TN:GB05

5.2

8307110743 Shift operator chronology log.

\* :Babcock & Wilcox Co.

DATE ISS:82/03/07, 1p. ,48x:19478-055,001:8&W 0657 ,TN:GB05

5.2

8307090210 "Pressure Test of RC-R2:Special Operating Procedure."

\* :General Public Utilities - GPU Service Corp.

DATE ISS:78/10/04, 6pp. ,48x:19399-015,001:8&W 0665 ,TN:GB05

5.2

8307110724 Requests formation of fire member task force to complete investigation of encl seven specific issues re 790328 incident.

ARNOLD, R.C. :General Public Utilities - GPU Service Corp.

KEATEN, R.W. :General Public Utilities - GPU Service Corp.

DATE ISS:79/06/27, 5pp. ,48x:19445-169,001:8&W 0694 ,TN:GB05

IRRELEVANT

8307110735 Submits tasks & subtasks for task teams.

\* :Babcock & Wilcox Co.

:Babcock & Wilcox Co.

DATE ISS:79/07/09, 16pp. ,48x:19445-180,001:8&W 0698 ,TN:GB05

IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307110739 Forwards first rough draft, "GPU Task Force Interim Summary Rept."

KEATON, R.W. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:79/09/28, 1p. ,48x:19446-002,ODI:B&W 0699 ,TN:G805 5.2

8307110744 Requests copy of encl package re task force draft rept.

LUNG, R.L. :Babcock & Wilcox Co.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:79/10/07, 8pp. ,48x:19446-060,ODI:B&W 0700 ,TN:G805 IRRELEVANT

8307110757 "GPU Accident Review Task Force Final Summary Rept."

KEATEN, R.W. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:80/03/24, 43pp. ,48x:19446-346,ODI:B&W 0703 ,TN:G805 5.2

8307110763 Forwards TDR TMI-111, "Analysis of TMI-2 Operator Response," for review. Comments requested by 790625.

BROUGHTON, T.G. :General Public Utilities - GPU Service Corp.  
LONG, R. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/06/21, 32pp. ,48x:19447-062,ODI:B&W 0705 ,TN:G805 5.1

8307110769 "Analysis of TMI-2 Operator Response."

WALSH, P.S. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:82/05/20, 36pp. ,48x:19447-066,ODI:B&W 0706 ,TN:G805 IRRELEVANT

8307090353 Forwards response to 791025 notice of violation & notice of proposed issuance of civil penalties based on IE investigation of 790328 accident.

ARNOLD, R.C. :Metropolitan Edison Co.  
STELLO, V. :Office of Inspection & Enforcement, Office of the Director  
DATE ISS:79/12/05, 47pp. ,48x:19492-019,ODI:B&W 0707 ,TN:G805 5.2



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8307090022 Forwards draft "Loss of Feedwater Flow Leading to Accident of 790328," for master task force presentation.

LUCIEN, K. :Energy Incorporated  
:Energy Incorporated  
DATE ISS:79/09/01, 267pp., 48x:19448-128, OOI:B&W 0718 ,TN:GB05 5.2

8307090026 Forwards TMI staff interview of H. McGovern dtd 790504 & DA Berry notes on 790329 re 790328 incident.

ZODIACO, V.P. :General Public Utilities - GPU Service Corp.  
BLAKE, E.L. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/05/10, 447pp., 48x:19449-031, OOI:B&W 0719 ,TN:GB05 IRRELEVANT

8307090054 Notes on operational aspects of 790328 event.

\* :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:79/07/17, 17pp., 48x:19450-134, OOI:B&W 0726 ,TN:GB05 5.2

8307120252 Discusses items & assignment of responsibilities needed to address NRC IE investigation draft rept findings. Initial response requested by 790822 & final response by 790912.

WALLACE, E.G. :General Public Utilities - GPU Service Corp.  
BEHRLE, W.H. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/08/06, 3pp., 48x:19454-130, OOI:B&W 0730 ,TN:GB05 IRRELEVANT

8307090363 Identifies problems w/water & air in condensate polishing.

\* :Metropolitan Edison Co.  
:Metropolitan Edison Co.  
DATE ISS:78/05/21, 3pp., 48x:19492-184, OOI:B&W 0743 ,TN:GB05 5.2

8307120292 "Final Rept: Insp of Condensate Polishing Sys."

OPEKA, M.A. :National Aeronautics & Space Admin.  
:National Aeronautics & Space Admin.  
DATE ISS:79/09/12, 22pp., 48x:19455-338, OOI:B&W 0744 ,TN:GB05 5.2

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8307120301 Draft transcript of 790412 interview w/n Zewe.

ZEW, w. : Metropolitan Edison Co.  
:   
DATE ISS: 79/04/12, 67pp. , 48x: 19456-003, ODI: B&W 0748 , TN: GB05 5.2

8307130379 Forwards "TMI Hot Audit, 780109-20." One major area of concern was practice of bypassing chain of command from top to bottom, resulting in duplication of efforts.

TROFFER, G.J. : Metropolitan Edison Co.  
HERBEIN, J.G. : Metropolitan Edison Co.  
DATE ISS: 78/02/14, 6pp. , 48x: 19501-104, ODI: B&W 0843 , TN: GB05 5.1, 5.2

8307080690 Review & analysis of 781107 partial loss of feedwater.

\* : General Public Utilities - GPU Service Corp.  
:   
DATE ISS: 76/11/21, 2pp. , 48x: 19408-097, ODI: B&W 0860 , TN: GB05 5.2

8307080687 Testimony of GA Kunder on 790511, Pp 1-36 & 1-21.

KUNDER, G.A. : Metropolitan Edison Co.  
:   
DATE ISS: 79/05/11, 58pp. , 48x: 19409-137, ODI: B&W 0862 , TN: GB05 IRRELEVANT

8307130392 Recommends pressurizer electromagnetic relief valve RC-RV2 be periodically inspected for corrosion products & for freedom of movement of lever pin & lever hinges noting clearance w/ solenoid bracket.

ROGERS, L.C. : Babcock & Wilcox Co.  
HERBEIN, J.G. : General Public Utilities - GPU Service Corp.  
DATE ISS: 75/07/30, 1p. , 48x: 19501-153, ODI: B&W 08 1 , TN: GB05 5.2

8307120084 Summary of TMI hot audit review fourth meeting on 780424.

\* : General Public Utilities - GPU Service Corp.  
: General Public Utilities - GPU Service Corp.  
DATE ISS: 78/04/24, 12pp. , 48x: 19458-071, ODI: B&W 0884 , TN: GB05 5.1

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8307120163 Log summary of 740621-28.

GATTO, C.E. :Metropolitan Edison Co.  
:   
DATE ISS:74/06/21, 900. ,48x:19459-140,00I:B&W 0898 ,TN:GB05 IRRELEVANT

8307120165 Forwards change mod.

SHOVLIN, D.M. :Metropolitan Edison Co.  
BARLEY, R. :Metropolitan Edison Co.  
DATE ISS:79/07/27, 10. ,48x:19459-177,00I:B&W 0899 ,TN:GB05 IRRELEVANT

8307120169 Minor WC change mod approval form.

\* :Metropolitan Edison Co.  
:   
DATE ISS:78/01/17, 10. ,48x:19459-178,00I:d&w 0900 ,TN:GB05 IRRELEVANT

8307120171 C/W design checklist.

\* :Baccock & Wilcox Co.  
:   
DATE ISS:77/04/27, 700. ,48x:19459-095,00I:B&W 0901 ,TN:GB05 IRRELEVANT

8307120174 Presents Generation Engineering recommendations re adjustment of pressurizer discharge piping per JG Herstein 760227 request. Nothing should be done to change cold spring settings on any of three discharge lines.

BAILEY, S.H. :Metropolitan Edison Co.  
SHOVLIN, D.M. :Metropolitan Edison Co.  
DATE ISS:76/03/12, 200. ,48x:19459-186,00I:B&W 0902 ,TN:GB05 5.2

8307120187 Summary of TMI-2 Accident Review Task Force 790824 meeting.

\* :Metropolitan Edison Co.  
:Metropolitan Edison Co.  
DATE ISS:79/08/24, 500. ,48x:19450-036,00I:B&W 0905 ,TN:GB05 5.2

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8307090342 Forward third draft investigative task force summary report re TMI accident. Rept reflects revs discussed during 791011-12 meetings. Comments requested by 791022.

KEATEN, R.W. : General Public Utilities - GPU Service Corp.  
: General Public Utilities - GPU Service Corp.  
DATE ISS: 79/10/17, 77pp. , 48x: 19400-185, OOI: B&W 0907 , TN: GB05 5.2

8307130382 Transcript of Mr Hartman 791029 deposition in Lancaster, PA by NRC Special Inquiry Group.

HARTMAN, R.W. : General Public Utilities - GPU Service Corp.  
: :  
DATE ISS: 79/10/09, 59pp. , 48x: 19501-209, OOI: B&W 1022 , TN: GB05 5.2

8307090279 Transcript of ACRS Subcommittee on TMI-2 790606 meeting in Middletown, PA, Po 1-19.

\* : ACRS - Advisory Committee on Reactor Safeguards  
: :  
DATE ISS: 79/06/06, 227pp. , 48x: 19467-104, OOI: B&W 4012 , TN: GB05 5.1, 5.2

8307120666 Response to apparent noncompliance w/Rev 9 to Operating Procedure 2104-b.2, "Emergency Diesels & Auxiliaries," on 790328 when diesel generators 1A & B fuel racks manually tripped. Corrective actions discussed.

\* : General Public Utilities - GPU Service Corp.  
: :  
DATE ISS: 79/03/28, 3pp. , 48x: 19462-299, OOI: B&W 4015 , TN: GB05 5.1

8307120678 GPU Test Log, book 3. Entries from 781003-05.

\* : General Public Utilities - GPU Service Corp.  
: :  
DATE ISS: 78/10/05, 3pp. , 48x: 19462-305, OOI: B&W 4018 , TN: GB05 5.2

8307120773 Requests written quotation for performing insp, refurbishing, gasket replacement, assembly & testing of electromechanical relief valve RC-RV2.

HOWARD, R.W. : General Public Utilities - GPU Service Corp.  
COX, C. : Dresser Industries, Inc.  
DATE ISS: 75/11/25, 1p. , 48x: 19463-149, OOI: B&W 4032 , TN: GB05 5.2

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8307120781 Summary of valve problem in RCS.

\* :Metropolitan Edison Co.  
: DATE ISS:77/11/03, 1p. ,48x:19463-150,001:8&W 4033 ,TN:GB05 5.2

8307120623 work request procedure, "Repair & Test of Reactor Coolant  
RC=Rv=2," to assure leak tightness.

\* :Metropolitan Edison Co.  
: DATE ISS:77/10/25, 5pp. ,48x:19495-249,001:8&W 4034 ,TN:GD05 5.2

8307120640 Ack receipt of preventive maint job index-by component  
(RC=R-0002),Change/Mod Request form 20267 & work Request  
C=0055 on 790921.

HAYNES,W.C. :NRC - No Detailed Affiliation Given  
GUERIN,J. :Metropolitan Edison Co.  
DATE ISS:79/09/21, 2pp. ,48x:19495-261,001:8&W 4036 ,TN:GB05 IRRELEVANT

8307120656 Advises that following review of purchase order,sys requires  
replacement valve.Drawing for review will be sent.Valve  
design features approved.

FREET,G.W. :Dresser Industries, Inc.  
LANCE,W.C. :Metropolitan Edison Co.  
DATE ISS:79/01/25, 2pp. ,48x:19495-264,001:8&W 4037 ,TN:GB05 5.2

8307120664 Requests reply to 790125 ltr re design of 31533vx-30  
electromatic relief valve.Acceptability of new design  
advised.

RESSUN,J. :Dresser Industries, Inc.  
LANCE,W.C. :Metropolitan Edison Co.  
DATE ISS:79/03/27, 1p. ,48x:19495-266,001:8&W 4038 ,TN:GD05 5.2

8307120671 Forwards Dresser Industries correspondence recommending  
design changes in spare pressurizer electromatic relief  
valve.Due to long lead time & costs,response to Dresser  
requested.n/a encl.

SIGGLITZ,R.E. :Metropolitan Edison Co.  
CRONEBERGER,D. :Metropolitan Edison Co.  
DATE ISS:79/10/22, 1p. ,48x:19495-267,001:8&W 4039 ,TN:GB05 5.2

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8307120722 Deposition of D Shovlin on 820716 in New York, NY, Po 149-152.

SHOVLIN, D. : General Public Utilities - GPU Service Corp.  
: DATE ISS: 82/07/16, 500. , 48x: 19495-286, ODI: B&W 4043 , TN: GB05 5.2

8307090323 Continued deposition of RC Arnold on 820630 in New York, NY,  
Po 146 & 224-228.

ARNOLD, R. C. : General Public Utilities - GPU Service Corp.  
: DATE ISS: 82/06/30, 700. , 48x: 19487-342, ODI: B&W 4044 , TN: GB05 5.2

8307120869 "Reactor Coolant Leakage Test."

\* : Metropolitan Edison Co.  
: DATE ISS: 79/03/25, 180pp. , 48x: 19496-052, ODI: B&W 4066 , TN: GB05 5.2

8307090337 Interview w/Frederick on 790406.

FREDERICK : General Public Utilities - GPU Service Corp.  
: DATE ISS: 79/04/06, 1p. , 48x: 19487-356, ODI: B&W 500788 , TN: GB05 5.2

8307130130 Transcript of 790406 interview w/util.

\* : General Public Utilities - GPU Service Corp.  
: DATE ISS: 79/04/06, 1p. , 48x: 19497-014, ODI: B&W 500788 , TN: GB05 5.2

8307020007 "Final Rept of TMI-2 Occurrence, Technical Review Committee."

\* : Daacock & Wilcox Co.  
: DATE ISS: 83/06/30, 540p. , 48x: 19228-221, ODI: GPU 0007 , TN: GB05 5.2



U. S. NUCLEAR REGULATORY COMMISSION  
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8307020239 Responds to vannov 781005 memo re course taken to correct poor availability of B&W plants. Facts re performance relative to competition encl. Equipment performance improvements being addressed.  
MACMILLAN, J.H. :Babcock & Wilcox Co.  
FAVRET, L.M. :Babcock & Wilcox Co.  
DATE ISS:78/10/30, 5pp. ,48x:19225-142, ODI:GPU 0142 ,TN:GB05 5.2

8307080729 Minutes of 791108 & 3rd staff meetings to review findings & recommendations of Technical Review Committee established after TMI-2 accident.  
BALL, R.M. :Babcock & Wilcox Co.  
MACMILLAN, J.H. :Babcock & Wilcox Co.  
DATE ISS:79/12/07, 29pp. ,48x:19490-014, ODI:GPU 0232 ,TN:GB05 5.2

8307090059 "Potential Lessons to be Learned From TMI-2."  
LABELLE, D.W. :Babcock & Wilcox Co.  
DATE ISS:79/05/25, 2pp. ,48x:19490-225, ODI:GPU 0287 ,TN:GB05 IRRELEVANT

8307020249 Requests arrangements for Dresser svc engineer to come to site to modify electromagnetic relief valve RC-RV2. New bushing type bearings are to be installed.  
REID, J.E. :Babcock & Wilcox Co.  
STINNETT, J.F. :Babcock & Wilcox Co.  
DATE ISS:77/02/21, 2pp. ,48x:19225-063, ODI:GPU 0369 ,TN:GB05 5.2

8307020251 Field change authorization to modify electromagnetic relief valve.  
PLETKE, L.R. :Babcock & Wilcox Co.  
DATE ISS:78/11/22, 2pp. ,48x:19225-066, ODI:GPU 0370 ,TN:GB05 5.2

8307060462 Forwards B&W 750730 ltr to Met Ed re preventive maint suggestions for pressurizer electromagnetic relief valve RC-RV2. Issue considered closed. Site problem re: 750613 valve failure at Uconne 3 encl.  
ROBERTS, L.C. :Babcock & Wilcox Co.  
\* :Nuclear Services Corp.  
DATE ISS:75/07/30, 4pp. ,48x:19302-122, ODI:GPU 0375 ,TN:GB05 5.2

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8307060561 Submits weekly status report for wk ending 730615.

PHINNEY, J.D. :Babcock & Wilcox Co.  
BEACH, R.R. :Babcock & Wilcox Co.  
DATE ISS:73/06/15, 2pp. ,48x:19302-263, OOI:GPU 0409 ,TN:GB05 5.2

8307060649 Forwards 771005 results of 771003 checkout of reactor  
coolant pumps, 771007 results of 771005 operational checkout  
& outline of 770924 incident re reactor trip at Davis-Besse.  
Increase in vertical vibration caused by loose connector.  
DEMPSEY, J.D. :Babcock & Wilcox Co.  
LAUEN, J.A. :Babcock & Wilcox Co.  
DATE ISS:77/10/16, 8pp. ,48x:19340-039, OOI:GPU 0432 ,TN:GB05 5.2

8307060524 "Nuclear Site Site Ufc Rept 59 for 770916=1009."

FAIST, F. :Babcock & Wilcox Co.  
DATE ISS:77/10/10, 5pp. ,48x:19340-264, OOI:GPU 0487 ,TN:GB05 5.2

8307060532 Forwards MU re 750613 electromatic relief valve  
malfunction due to lever pin, lever hinge & solenoid bracket  
corrosion. Manual/visual checks for freedom of valve motion  
should be performed.  
WANDLING, G.K. :Babcock & Wilcox Co.  
ROGERS, L.C. :Babcock & Wilcox Co.  
DATE ISS:75/07/15, 1p. ,48x:19340-274, OOI:GPU 0489 ,TN:GB05 5.2

8307060540 Advises that periodic insps for corrosion products of  
pressurizer electromatic relief valve PSV-RC 2, in areas  
of solenoid bracket, link pins & lever & manual/visual checks  
for freedom of motion, necessary to prevent malfunction.  
BAKER, R.J. :Babcock & Wilcox Co.  
EVANS, J.G. :Toledo Edison Co.  
DATE ISS:75/07/31, 1p. ,48x:19340-276, OOI:GPU 0490 ,TN:GB05 5.2

8307060547 Forwards Site Problem Rept 386 re electromatic relief valve  
mod. mod required due to binding condition causing pilot  
valve stem to stick open due to close tolerance. Pilot  
valve stem diameter reduced.  
\* :Babcock & Wilcox Co.  
KLEIN, S.H. :Babcock & Wilcox Co.  
DATE ISS:78/03/27, 10pp. ,48x:19340-277, OOI:GPU 0491 ,TN:GB05 5.2

U. S. NUCLEAR REGULATORY COMMISSION  
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- 8307120798 Subpl RI NP-32-77-16: on 770924, series of events occurred, resulting in depressurization of primary sys from normal pressure. Caused by steam feedwater rupture control sys spurious half trip.  
MURRAY, T.D. : Toledo Edison Co.  
KEPPLER, J.G. : Region 3, Office of Director  
DATE ISS: 77/11/14, 500p. , 48x: 19494-103, OOI: GPU 2006 , TN: GB05 5.2
- 8307070292 Speech entitled "B&W Capabilities & Experience Supporting Plant Start-up, Operations & Maint," presented at 780306-07 nuclear operating experience seminar in Hershey, PA.  
BAKER, R.J. : Babcock & Wilcox Co.  
DATE ISS: 78/03/06, 370p. , 48x: 19338-118, OOI: GPU 2027 , TN: GB05 IRRELEVANT
- 8307120950 "TMI-1/Oyster Creek DRN Cost Comparison." EEI nuclear plant staffing survey Jan 1978 encl.  
ARNOLD, R.C. : General Public Utilities - GPU Service Corp.  
DATE ISS: 79/03/27, 300p. , 48x: 19503-185, OOI: GPU 2056 , TN: GB05 IRRELEVANT
- 8307080017 Transcript of President's Commission on Accident at TMI third meeting on 790530 in Washington, DC. Pp 1-210, w/o Pp 5-112.  
\* : President's Commission on the Accident at Three Mile Island  
DATE ISS: 79/05/30, 1030p. , 48x: 19338-209, OOI: GPU 2069 , TN: GB05 IRRELEVANT
- 8307110323 Discusses 771019 incident re water in instrument air lines at condensate polisher control panel & regeneration skid resulting in loss of feedwater condition. Cause not determined. Corrective actions to prevent recurrence listed.  
\* : Metropolitan Edison Co.  
MILLER, G.P. : Metropolitan Edison Co.  
DATE ISS: 77/11/14, 400p. , 48x: 19483-307, OOI: GPU 2070 , TN: GB05 5.2
- 8307110327 Job Ticket C1137 (work request) for RC-RV-1A replacement due to leakage.  
\* : General Public Utilities - GPU Service Corp.  
DATE ISS: 79/02/09, 600p. , 48x: 19483-311, OOI: GPU 2072 , TN: GB05 5.2

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8307110805 Rev 1 to "No-Name Outage Lists,Unit 2."

\* :General Public utilities - GPU Service Corp.  
: DATE ISS:79/02/09, 7pp. ,48x:19464-037,00I:GPU 2086 ,TN:GB05 5.2

8307110804 Rev 0 to "No-Name Outage Lists,Unit 2."

\* :General Public utilities - GPU Service Corp.  
: DATE ISS:79/02/01, 7pp. ,48x:19464-045,00I:GPU 2087 ,TN:GB05 5.2

8307110803 Rev 1A to "No-Name Outage Lists,Unit 2."

\* :General Public utilities - GPU Service Corp.  
: DATE ISS:79/02/12, 8pp. ,48x:19464-052,00I:GPU 2088 ,TN:GB05 5.2

8307110802 Rev 2 to "No-Name Outage Lists,Unit 2."

\* :General Public utilities - GPU Service Corp.  
: DATE ISS:79/02/06, 9pp. ,48x:19464-060,00I:GPU 2089 ,TN:GB05 5.2

8307110801 Rev 5 to "No-Name Outage Lists,Unit 2."

\* :General Public utilities - GPU Service Corp.  
: DATE ISS:79/05/14, 10pp. ,48x:19464-066,00I:GPU 2090 ,TN:GB05 5.2

8307110799 Rev 1 to "Atmosphere Dump Bellows Outage,Unit 2."

\* :General Public utilities - GPU Service Corp.  
: DATE ISS:79/01/18, 30pp. ,48x:19464-093,00I:GPU 2092 ,TN:GB05 5.2

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8307110798 Rev 2 to "Atmosphere Pump Bellows Outage, Unit 2."

\* :General Public utilities - GPU Service Corp.  
: DATE ISS:79/01/22, 15pp. ,4Rx:19464-104,00I:GPU 2093 ,TN:G805 5.2

8307110797 Submits station support team resident engineer weekly activity summary report for 790317-23.

ROGERS, L.C. :Dabcock & Wilcox Co.  
MILLER, G.P. :Metropolitan Edison Co.  
DATE ISS:79/03/23, 3pp. ,4Rx:19464-120,00I:GPU 2094 ,TN:G805 5.2

8307050403 Revised Chapter 13 to FSAR, "Conduct of Operations."

\* :General Public utilities - GPU Service Corp.  
: DATE ISS:78/04/07, 67pp. ,4Rx:19230-001,00I:GPU 2156 ,TN:G805 5.1, 5.2

8307050420 Requalification program, "Category Review."

\* :General Public utilities - GPU Service Corp.  
: DATE ISS:79/12/31, 59pp. ,4Rx:19230-167,00I:GPU 2158 ,TN:G805 IRRELEVANT

8307050484 Site Problem Rept 195 re dwp-20345-1(8-78) which will not open w/out pressure at 2,275 psi or in manual control in control room.

\* :Dabcock & Wilcox Co.  
: DATE ISS:78/12/12, 3pp. ,4Rx:19231-205,00I:GPU 2179 ,TN:G805 5.2

8307130013 Unit 2 plant sys operational log for 790202-04.

\* :General Public utilities - GPU Service Corp.  
: DATE ISS:79/02/02, 2pp. ,4Rx:19497-224,00I:GPU 2232 ,TN:G805 5.2

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8307130032 Unit 2 plant sys operational load for 790206-11.

\* :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:79/02/06, 200, ,48x:19497-226,ODI:GPU 2233 ,TN:GB05 5.2

8307130038 work Request 5136 for troubleshooting & repair of Unit 2 control circuit RC-RV-2 deficiencies.

\* :General Public utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:78/09/26, 500, ,48x:19497-226,ODI:GPU 2234 ,TN:GB05 5.2

8307050265 Site Problem Rept 195 re electromatic relief valve.

\* :Babcock & Wilcox Co.  
: :  
DATE ISS:78/12/12, 300, ,48x:19226-123,ODI:GPU 2236 ,TN:GB05 IRRELEVANT

8307050269 Record of plant operation.

MILLER,G.P. :General Public utilities - GPU Service Corp.  
: :  
DATE ISS:78/03/28, 400, ,48x:19222-075,ODI:GPU 2238 ,TN:GB05 5.2

8307110734 "Guide for Preparing Nuclear Plant Operating, Emergency & Maint Procedures."

\* :Babcock & Wilcox Co.  
: :  
DATE ISS:68/08/31, 6500, ,48x:19462-116,ODI:GPU 2311 ,TN:GB05 IRRELEVANT

8307080047 Rev 4 to Procedure 2301-301, "Surveillance Procedure."

\* :Metropolitan Edison Co.  
: :  
DATE ISS:80/01/14, 300, ,48x:19360-094,ODI:GPU 2328 ,TN:GB05 IRRELEVANT



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8307080128 Procedures 31533VX-30 & 31533VX,w/& w/o bellows,  
respectively, "Instructions for Operating & Repairing  
Consolidated Electromatic Relief Valve."

\* :Dresser Industries, Inc.  
:

DATE ISS:83/07/05, 31pp. ,48x:19361-042,001:GPU 2336 ,TN:G805 IRRELEVANT

8307110761 Requests visit by Dresser svc engineer to Unit 2 to modify  
electromatic relief valve.

REID,J.E. :Babcock & Wilcox Co.

STREET,J.F. :Babcock & Wilcox Co.

DATE ISS:77/02/21, 15pp. ,48x:19483-154,001:GPU 2342 ,TN:G805 5.2

8307120603 Submits Rev 4 to Field Change Authorization FCA-183 re RCS  
electromatic relief valve mod.

PUGH,J.R. :Babcock & Wilcox Co.

KLINGAMAN,R.M. :Metropolitan Edison Co.

DATE ISS:76/11/30, 4pp. ,48x:19495-073,001:GPU 2345 ,TN:G805 5.2

8307080172 Discusses weekly root of 740202-08 re RCS.

PHINNEY,J.D. :Babcock & Wilcox Co.

BEACH,R.R. :Babcock & Wilcox Co.

DATE ISS:74/01/11, 2pp. ,48x:19361-144,001:GPU 2409 ,TN:G805 5.2

8307080191 Discusses 740126-0201 weekly root re RCS.

PHINNEY,J.D. :Babcock & Wilcox Co.

BEACH,R.H. :Babcock & Wilcox Co.

DATE ISS:74/02/04, 2pp. ,48x:19361-146,001:GPU 2410 ,TN:G805 IRRELEVANT

8307080211 "Interim Operating Guideline for Response to Allow Maint of  
HPI Svs on Low RCS Pressure."

\* :General Public Utilities - GPU Service Corp.  
:

DATE ISS:79/04/16, 4pp. ,48x:19361-153,001:GPU 2413 ,TN:G805 IRRELEVANT

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8307080472 Field Change Request 122 to modify lever & bracket by installing new bushing type bearings on electromagnetic relief valve.

\* :Babcock & Wilcox Co.

DATE ISS:77/11/22, 13pp. ,48x:19361-298,ODI:GPU 2454 ,TN:G805 5.2

8307080666 Discusses concern w/once through steam generator level. Safety analyses & ECCS analyses inconsistent.

\* :Babcock & Wilcox Co.

DATE ISS:77/07/11, 2pp. ,48x:19491-026,ODI:GPU 2501 ,TN:G805 IRRELEVANT

8307120647 Responses to Questions 3 & 4 re operating procedures for loss of feed, loss of reactor coolant/loss of reactor coolant pressure & reactor trip.

\* :General Public Utilities - GPU Service Corp.

DATE ISS:83/07/11, 7pp. ,48x:19495-180,ODI:GPU 2619 ,TN:G805 5.2

002519 RECORDS SCANNED 135 RECORDS PRINTED ( 39 RECORDS, 96 SUPP.)  
ENDING CODE= 186 LAST KEY= GPU 6060AA 830712092004

CATEGORY 6  
TRIAL TESTIMONY

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8306290445 Testimony of RC Arnold on 821116 in New York, NY, Pp  
1,535-1,1715.

ARNOLD, R.C. :General Public Utilities - GPU Service Corp.

DATE ISS:82/11/16, 180pp. ,4RX:19026=089,001: ,TN:G806

6.12

8306290671 Testimony of HM Dunn on 830120 in New York, NY, Pp 7,289=  
7,424.

DUNN, H.M. :Dabcock & Wilcox Co.

DATE ISS:83/01/20, 136pp. ,4RX:19041=313,001: ,TN:G806

IRRELEVANT

8306290499 Testimony of ER Frederick on 821206 in New York, NY, Pp 3,215=  
3,377.

FREDERICK, E.R. :General Public Utilities - GPU Service Corp.

DATE ISS:82/12/06, 161pp. ,4RX:19030=204,001: ,TN:G806

IRRELEVANT

8306290502 Testimony of ER Frederick on 821207 in New York, NY, Pp 3,378=  
3,559.

FREDERICK, E.R. :General Public Utilities - GPU Service Corp.

DATE ISS:82/12/07, 161pp. ,4RX:19031=004,001: ,TN:G806

IRRELEVANT

8306290587 Testimony of RT Lahey on 821220 in New York, NY,  
Pp 4,914=5,102.

LAHEY, R.T. :Rensselaer Polytechnic Inst.

DATE ISS:82/12/20, 189pp. ,4RX:19035=101,001: ,TN:G806

IRRELEVANT

8306290591 Testimony of RT Lahey on 821222 in New York, NY, Pp 5,280=  
5,370.

LAHEY, R.T. :Rensselaer Polytechnic Inst.

DATE ISS:82/12/22, 91pp. ,4RX:19036=105,001: ,TN:G806

IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8306290634 Testimony of RJ Marzen on 830106 in New York, NY, Po 6,082-  
6,232.

MARZEC, R.J. :Duke Power Co.  
1  
DATE ISS:83/01/06, 151pp. ,4RX:19038-186,001: ,TN:G806 6.12

8306290638 Testimony of RJ Marzen on 830107 in New York, NY, Po 6,233-  
6,359.

MARZEC, R.J. :Duke Power Co.  
1  
DATE ISS:83/01/07, 127pp. ,4RX:19038-337,001: ,TN:G806 6.12

8306290642 Testimony of RJ Marzen on 830110 in New York, NY, Po 6,379-  
6,481.

MARZEC, R.J. :Duke Power Co.  
1  
DATE ISS:83/01/10, 103pp. ,4RX:19039-121,001: ,TN:G806 IRRELEVANT

8307260345 Testimony of d Mehler on 830118 in New York, NY, Po 6,954-  
6,994.

MEHLER, D. :General Public Utilities - GPU Service Corp.  
1  
DATE ISS:83/01/18, 41pp. ,4RX:19040-339,001: ,TN:G806 6.12

8307260613 Testimony of C Michelson on 821223 in New York, NY, Po 5,481-  
5,588.

MICHELSON, C. :Director's Office  
1  
DATE ISS:82/12/23, 108pp. ,4RX:19036-308,001: ,TN:G806 IRRELEVANT

8307260071 Testimony of C Michelson on 830104 in New York, NY, Po 5,912-  
5,921.

MICHELSON, C. :Director's Office  
1  
DATE ISS:83/01/04, 10pp. ,4RX:19038-015,001: ,TN:G806 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307260427 Testimony of J Phinney on 821214 in New York, NY, Pa 4,263-  
4,283.

PHINNEY, J. :Haddock & Wilcox Co.

DATE ISS:82/12/14, 21pp. ,4Rx:19033-169,001: ,TN:G806

6.19

8307260416 Testimony of RL Pittman on 821214 in New York, NY, Pa 4,217-  
4,263.

PITTMAN, R.L. :Haddock & Wilcox Co.

DATE ISS:82/12/14, 47pp. ,4Rx:19033-123,001: ,TN:G806

IRRELEVANT

8307260447 Testimony of Sieglitz on 830103 in New York, NY, Pa 5,701-  
5,753.

SIEGLITZ, R. :General Public Utilities - GPU Service Corp.

DATE ISS:83/01/03, 53pp. ,4Rx:19037-166,001: ,TN:G806

IRRELEVANT

8306290637 Testimony of R Sieglitz on 830104 in New York, NY, Pa 5,754-  
5911.

SIEGLITZ, R. :General Public Utilities - GPU Service Corp.

DATE ISS:83/01/04, 147pp. ,4Rx:19037-219,001: ,TN:G806

6.11, 6.12

8307260585 Testimony of E Swanson on 821215 in New York, NY, Pa 4,415-  
4,486.

SWANSON, E. :Haddock & Wilcox Co.

DATE ISS:82/12/15, 70pp. ,4Rx:19033-322,001: ,TN:G806

IRRELEVANT

8307260176 Testimony of EA Romack on 821216 in New York, NY, Pa 4,612-  
4,662.

ROMACK, E.A. :Haddock & Wilcox Co.

DATE ISS:82/12/16, 51pp. ,4Rx:19034-157,001: ,TN:G806

IRRELEVANT



U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8306290450 Testimony of WM Zewe on 821119 in New York, NY. Pa 2,040=  
2,137. Pa 2,040=2,061 withheld.

ZEW, W.H. :General Public Utilities - GPU Service Corp.

DATE ISS:82/11/19, 7500. ,4RX:19027=233,001: ,TN:G806

IRRELEVANT

8306290452 Testimony of WM Zewe on 821122 in New York, NY. Pa 2,138=  
2,311.

ZEW, W.H. :General Public Utilities - GPU Service Corp.

DATE ISS:82/11/22, 17300. ,4RX:19027=311,001: ,TN:G806

IRRELEVANT

8306290453 Testimony of WM Zewe on 821123 in New York, NY. Pa 2,312=  
2,574.

ZEW, W.H. :General Public Utilities - GPU Service Corp.

DATE ISS:82/11/23, 16200. ,4RX:19028=123,001: ,TN:G806

IRRELEVANT

8306290466 Testimony of WM Zewe on 821129 in New York, NY. Pa 2,681=  
2,830.

ZEW, W.H. :General Public Utilities - GPU Service Corp.

DATE ISS:82/11/29, 14900. ,4RX:19029=030,001: ,TN:G806

IRRELEVANT

8306290463 Testimony of WM Zewe on 821201 in New York, NY.  
Pa 2,924=3,040.

ZEW, W.H. :General Public Utilities - GPU Service Corp.

DATE ISS:82/12/01, 11600. ,4RX:19029=273,001: ,TN:G806

6.12

003037 RECORDS SCANNED 23 RECORDS PRINTED ( 1 RECORDS, 22 SUPP.)  
ENDING CODE= 186 LAST KEY= ZOOIACO.V.P. 790511G807

CATEGORY 6  
DEPOSITIONS

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307120911 Deposition of JD Agar on 820422 in New York, NY. Pp 1-121.

AGAR, J. D. : Babcock & Wilcox Co.

DATE ISS: 82/04/22, 122pp. , 48X: 19512-066, ODI: GPU 6010 , TN: GB06 IRRELEVANT

8307110145 Deposition of RC Arnold on 820629 in New York, NY. Pp 1-287.

ARNOLD, R. C. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/06/29, 289pp. , 48X: 19489-024, ODI: , TN: GB06 IRRELEVANT

8307120735 Deposition of RC Arnold on 820630 in New York, NY. Pp  
146 & 224-228.

ARNOLD, R. C. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/06/30, 6pp. , 48X: 19495-291, ODI: B&W 4044 , TN: GB06 IRRELEVANT

8307120726 Continued deposition of RC Arnold on 820701 in New York, NY.  
Pp 288-471.

ARNOLD, R. C. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/07/01, 184pp. , 48X: 19465-070, ODI: , TN: GB06 IRRELEVANT

8306290724 Deposition of ML Beers on 820707 in New York, NY. Pp 1-151.

BEERS, M. L. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/07/07, 151pp. , 48X: 19057-138, ODI: , TN: GB06 IRRELEVANT

8306290855 Deposition of G Billingsley on 820218 in New York, N. Y.  
Pp 1-157.

BILLINGSLEY, G. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/02/18, 159pp. , 48X: 19058-087, ODI: , TN: GB06 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8306290859 Deposition of G Billingsley on 820219 in New York, N. Y.  
Pp 158-331.

BILLINGSLEY, G. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/02/19, 173pp. , 48X: 19058-246, ODI: , TN: GB06

IRRELEVANT

8306290862 Deposition of G Billingsley on 820225 in New York, N. Y.  
Pp 332-413.

BILLINGSLEY, G. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/02/25, 81pp. , 48X: 19059-058, ODI: , TN: GB06

IRRELEVANT

8306290959 Deposition of JD Carlton on 820128 in New York, NY. Pp 1-81.

CARLTON, J. D. : Babcock & Wilcox Co.

DATE ISS: 82/01/28, 85pp. , 48X: 19063-302, ODI: , TN: GB06

6.8

8306290934 Deposition of AJ Dominguez on 820817 in New York, Pp 1-120.

DOMINGUEZ, A. J. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/08/17, 122pp. , 48X: 19065-133, ODI: , TN: GB06

IRRELEVANT

8306290929 Deposition of BM Dunn on 810319 in New York, NY. Pp 390-499.

DUNN, B. M. : Babcock & Wilcox Co.

DATE ISS: 81/03/19, 114pp. , 48X: 19066-289, ODI: , TN: GB06

IRRELEVANT

8306290958 Deposition of BM Dunn on 810320 in New York, NY. Pp 500-602.

DUNN, B. M. : Babcock & Wilcox Co.

DATE ISS: 81/03/20, 102pp. , 48X: 19068-193, ODI: , TN: GB06

IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8306290704 Deposition of F Faist on 820323 in New York, NY. Pp 1-137.  
Supporting documentation encl.

FAIST, F. : Babcock & Wilcox Co.

DATE ISS: 82/03/23, 148pp. , 48X: 19072-052, ODI: , TN: 6806 IRRELEVANT

8306290709 Deposition of CC Faust on 810818 in New York, NY. Pp 1-127.

FAUST, C. C. : Metropolitan Edison Co.

DATE ISS: 81/08/18, 127pp. , 48X: 19072-203, ODI: , TN: 6806 IRRELEVANT

8306290713 Deposition of CC Faust on 810819 in New York, NY. Pp 129-412.

FAUST, C. C. : Metropolitan Edison Co.

DATE ISS: 81/08/19, 283pp. , 48X: 19072-331, ODI: , TN: 6806 IRRELEVANT

8307060447 Deposition of CC Faust on 810820 in New York, NY. Pp 276-412.

FAUST, C. C. : Metropolitan Edison Co.

DATE ISS: 81/08/20, 136pp. , 48X: 19301-291, ODI: , TN: 6806 IRRELEVANT

8306290762 Deposition of W Fels on 811203 in New York, NY. Pp 1-50.  
Supporting documentation encl.

FELS, W. : General Public Utilities - GPU Service Corp.

DATE ISS: 81/12/03, 56pp. , 48X: 19076-025, ODI: , TN: 6806 IRRELEVANT

8306290727 Deposition of JR Floyd on 820219 in New York, NY. Pp 160-293.  
Supporting documentation encl.

FLOYD, J. R. : Metropolitan Edison Co.

DATE ISS: 82/02/19, 134pp. , 48X: 19076-241, ODI: , TN: 6806 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8306290733 Deposition of JR Floyd on B20428 in New York, NY. Pp 294-422.

FLOYD, J. R. : Metropolitan Edison Co.

DATE ISS: 82/04/28. 128pp. .48X: 19077-014. ODI: . TN: G806 6.12

8306290717 Deposition of ER Frederick on B20505 in New York, NY.  
Pp 129-281.

FREDERICK, E. R. : Metropolitan Edison Co.

DATE ISS: 82/05/05. 152pp. .48X: 19078-116. ODI: . TN: G806 6.12

8306290720 Deposition of ER Frederick on B20507 in New York, NY.  
Pp 421-563.

FREDERICK, E. R. : Metropolitan Edison Co.

DATE ISS: 82/05/07. 142pp. .48X: 19079-049. ODI: . TN: G806 IRRELEVANT

8306290769 Deposition of ER Frederick on B20510 in New York, NY.  
Pp 564-684.

FREDERICK, E. R. : Metropolitan Edison Co.

DATE ISS: 82/05/10. 120pp. .48X: 19079-193. ODI: . TN: G806 IRRELEVANT

8307110113 Deposition of ER Frederick on B20511 in New York, NY. Pp 685-  
774.

FREDERICK, E. R. : Metropolitan Edison Co.

DATE ISS: 82/05/11. 90pp. .48X: 19488-181. ODI: . TN: G806 6.1, 6.12

8306290823 Deposition of C Goslow on B20108 in New York, NY. Pp 154-306.

GOSLOW, C. : Babcock & Wilcox Co.

DATE ISS: 82/01/08. 153pp. .48X: 19082-338. ODI: . TN: G806 IRRELEVANT



U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8306290828 Deposition of CE Goslow on 820112 in New York, NY. Pp 307-430.

GOSLOW, C. E. : Babcock & Wilcox Co.

DATE ISS: 82/01/12, 124pp. , 48X: 19083-131, ODI: , TN: 8B06 IRRELEVANT

8306290712 Deposition of DF Hallman on 820118 in New York, NY. Pp 1-82.

HALLMAN, D. F. : Babcock & Wilcox Co.

DATE ISS: 82/01/18, 82pp. , 48X: 19084-344, ODI: , TN: 8B06 IRRELEVANT

8306290758 Deposition of DF Hallman on 820121 in New York, NY. Pp 354-458.

HALLMAN, D. F. : Babcock & Wilcox Co.

DATE ISS: 82/01/21, 105pp. , 48X: 19085-336, ODI: , TN: 8B06 IRRELEVANT

8306290752 Deposition of DF Hallman on 820122 in New York, NY. Pp 459-547.

HALLMAN, D. F. : Babcock & Wilcox Co.

DATE ISS: 82/01/22, 89pp. , 48X: 19086-079, ODI: , TN: 8B06 IRRELEVANT

8306290745 Deposition of DF Hallman on 820615 in New York, NY. Pp 547-687.

HALLMAN, D. F. : Babcock & Wilcox Co.

DATE ISS: 82/06/15, 139pp. , 48X: 19086-168, ODI: , TN: 8B06 IRRELEVANT

8306290741 Deposition of DF Hallman on 820616 in New York, NY. Pp 680-838.

HALLMAN, D. F. : Babcock & Wilcox Co.

DATE ISS: 82/06/16, 151pp. , 48X: 19086-307, ODI: , TN: 8B06 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8306290875 Deposition of RS Harbin on B11001 in New York, NY. Pp 484-558.  
Supporting documentation encl.

HARBIN, R. S. : Metropolitan Edison Co.

DATE ISS: 81/10/01, 84pp. , 48X: 19088-215, ODI: , TN: 8806 IRRELEVANT

8306290867 Deposition of HW Hartman on B20716 in Elizabethtown, PA.  
Pp 1-206.

HARTMAN, H. W. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/6/16, 206pp. , 48X: 19088-299, ODI: , TN: 8806 6.1

8306290873 Deposition of HW Hartman on B20818 in Elizabethtown, PA.  
Pp 207-291.

HARTMAN, H. W. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/08/18, 85pp. , 48X: 19089-142, ODI: , TN: 8806 IRRELEVANT

8306290881 Deposition of JG Herbein on B20630 in New York, N. Y. Pp 1-184.

HERBEIN, J. G. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/06/30, 187pp. , 48X: 19089-227, ODI: , TN: 8806 IRRELEVANT

8306290887 Deposition of JG Herbein on B20701 in New York, N. Y.  
Pp 185-294.

HERBEIN, J. G. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/07/01, 110pp. , 48X: 19090-051, ODI: , TN: 8806 IRRELEVANT

8307270534 Continued deposition of RC Jones on B10702 in New York, NY.  
Pp 278-358.

JONES, R. C. : Babcock & Wilcox Co.

DATE ISS: 81/07/02, 81pp. , 48X: 19788-084, ODI: , TN: 8806 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8306290987 Deposition of SA Karrasch on 810619 in New York, NY.  
Pp 325-398.

KARRASCH, B. A. : Babcock & Wilcox Co.

DATE ISS: 81/06/19, 74pp. , 48X: 19094-276, ODI: , TN: 6806 IRRELEVANT

8306290993 Deposition of SA Karrasch on 810930 in New York, NY.  
Pp 494-594.

KARRASCH, B. A. : Babcock & Wilcox Co.

DATE ISS: 81/09/30, 101pp. , 48X: 19095-086, ODI: , TN: 6806 6.25

8306290994 Deposition of RW Keaten on 820107 in New York, NY.  
Pp 345-485.

KEATEN, R. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/01/07, 142pp. , 48X: 19096-175, ODI: , TN: 6806 IRRELEVANT

8306290900 Deposition of R Keaten on 820108 in New York, NY. Pp 488-626.

KEATEN, R. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/01/08, 137pp. , 48X: 19096-317, ODI: , TN: 6806 IRRELEVANT

8306290913 Deposition of R Keaten on 820120 in New York, NY. Pp 765-904.  
Index of exhibits encl.

KEATEN, R. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/01/20, 140pp. , 48X: 19097-230, ODI: , TN: 6806 IRRELEVANT

8306290918 Deposition of R Keaten on 820121 in New York, NY. Pp 905-  
1,056. Index of exhibits encl.

KEATEN, R. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/01/21, 152pp. , 48X: 19098-009, ODI: , TN: 6806 6.13

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8306290905 Deposition of RK Kennedy on 820127 in New York, NY. Pp 1-102.

KENNEDY, R. K. : Babcock & Wilcox Co.

DATE ISS: 82/01/27, 102pp. .48X: 19100-001, ODI:

, TN: 8806

IRRELEVANT

8306290744 Deposition of RE Kosiba on 810519 in New York, NY. Pp 482-757.

KOSIBA, R. E. : Babcock & Wilcox Co.

DATE ISS: 81/05/19, 76pp. .48X: 19102-052, ODI:

, TN: 8806

IRRELEVANT

8306290785 Deposition of DW LaBelle on 810604 in New York, NY.  
Pp 252-340.

LABELLE, D. W. : Babcock & Wilcox Co.

DATE ISS: 81/06/04, 89pp. .48X: 19104-268, ODI:

, TN: 8806

IRRELEVANT

8306290827 Deposition of LC Lanese on 820325 in New York, NY. Pp 129-302.

LANESE, L. C. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/03/25, 174pp. .48X: 19125-129, ODI:

, TN: 8806

IRRELEVANT

8306290812 Deposition of LC Lanese on 820419 in New York, NY. Pp 469-596.

LANESE, L. C. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/04/19, 129pp. .48X: 19126-113, ODI:

, TN: 8806

IRRELEVANT

8306290800 Deposition of JH MacMillan on 820610 in New York, NY.  
Pp 134-324.

MACMILLAN, J. R. : Babcock & Wilcox Co.

DATE ISS: 82/06/10, 190pp. .48X: 19129-186, ODI:

, TN: 8806

6.8

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8306290825 Deposition of BA Mehler on 810728 in New York, NY. Pp 1-172.

MEHLER, B. A. : Metropolitan Edison Co.

DATE ISS: 81/07/28, 172pp, .48X: 19131-031, ODI: , TN: 8806 IRRELEVANT

8306290799 Deposition of BA Mehler on 810729 in New York, NY. Pp 174-363.

MEHLER, B. A. : Metropolitan Edison Co.

DATE ISS: 81/07/29, 189pp, .48X: 19131-205, ODI: , TN: 8806 IRRELEVANT

8306290806 Deposition of BA Mehler on 810730 in New York, NY. Pp 364-679.

MEHLER, B. A. : Metropolitan Edison Co.

DATE ISS: 81/07/30, 315pp, .48X: 19132-034, ODI: , TN: 8806 IRRELEVANT

8306290842 Deposition of C Michelson on 820318 in Washington, DC. Pp 1-151. Supporting documentation encl.

MICHELSON, C. : Director's Office

DATE ISS: 82/03/18, 152pp, .48X: 19133-079, ODI: , TN: 8806 IRRELEVANT

8306290848 Deposition of C Michelson on 820319 in Washington, DC. Pp 152-308.

MICHELSON, C. : Director's Office

DATE ISS: 82/03/19, 156pp, .48X: 19133-232, ODI: , TN: 8806 IRRELEVANT

8306290885 Deposition of RC Noll on 820714 in New York, NY. Pp 1-138.

NOLL, R. C. : Metropolitan Edison Co.

DATE ISS: 82/07/14, 138pp, .48X: 19137-310, ODI: , TN: 8806 6.12

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8306290889 Deposition of P Perrone on 820624 in New York, NY Pg 1-67.

PERRONE, P. Babcock & Wilcox Co.

DATE ISS 82/06/24. 67pp. ,48X 19138-086, ODI. , TN: 8806

IRRELEVANT

8306290853 Deposition of JD Phinney on 820114 in New York, NY Pg 136-270.

PHINNEY, J. D. Babcock & Wilcox Co.

DATE ISS 82/01/14. 135pp. ,48X 19138-288, ODI. , TN: 8806

IRRELEVANT

8306290846 Deposition of RL Pittman on 820628 in New York, NY Pg 1-142.

PITTMAN, R. L. Babcock & Wilcox Co.

DATE ISS 82/06/28. 142pp. ,48X 19139-061, ODI. , TN: 8806

IRRELEVANT

8306290909 Deposition of WE Potts on 820107 in New York, NY Pg 1-176.

POTTS, W. E. General Public Utilities - GPU Service Corp.

DATE ISS 82/01/07. 176pp. ,48X 19139-203, ODI. , TN: 8806

IRRELEVANT

8306290927 Deposition of WE Potts on 820108 in New York, NY Pg 177-251.

POTTS, W. E. General Public Utilities - GPU Service Corp.

DATE ISS 82/01/08. 77pp. ,48X 19140-018, ODI. , TN: 8806

IRRELEVANT

8306290902 Deposition of F Schelmann on 820223 in New York, NY Pg 1-156.

SCHELMANN, F. General Public Utilities - GPU Service Corp.

DATE ISS 82/02/23. 157pp. ,48X 19143-235, ODI. , TN: 8806

IRRELEVANT



U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8306290965 Deposition of FJ Scheimann on 820401 in New York, NY Pp 400-519.  
  
SCHEIMANN, F. J. : General Public Utilities - GPU Service Corp  
DATE ISS: 82/04/01. 120pp. .48X: 19144-273. ODI: . TN: 6806 IRRELEVANT

8306290866 Deposition of FJ Scheimann on 820402 in New York, NY. Pp 520-556.  
  
SCHEIMANN, F. J. : General Public Utilities - GPU Service Corp  
DATE ISS: 82/04/02. 37pp. .48X: 19145-030. ODI: . TN: 6806 IRRELEVANT

8306290870 Deposition of FJ Scheimann on 820427 in New York, NY. Pp 557-723.  
  
SCHEIMANN, F. J. : General Public Utilities - GPU Service Corp.  
DATE ISS: 82/04/27. 167pp. .48X: 19145-067. ODI: . TN: 6806 IRRELEVANT

8306290878 Deposition of FJ Scheimann on 820428 in New York, NY. Pp 724-801.  
  
SCHEIMANN, F. J. : General Public Utilities - GPU Service Corp  
DATE ISS: 82/04/28. 158pp. .48X: 19145-235. ODI: . TN: 6806 IRRELEVANT

8306290884 Deposition of FJ Scheimann on 820608 in New York, NY. Pp 888-999.  
  
SCHEIMANN, F. J. : General Public Utilities - GPU Service Corp  
DATE ISS: 82/06/08. 112pp. .48X: 19146-032. ODI: . TN: 6806 IRRELEVANT

8306290890 Deposition of FJ Scheimann on 820609 in New York, NY. Pp 1000-1068.  
  
SCHEIMANN, F. J. : General Public Utilities - GPU Service Corp.  
DATE ISS: 82/06/09. 69pp. .48X: 19146-145. ODI: . TN: 6806 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
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8306290937 Deposition of J.L. Seelinger on 811022 in Palm Beach, FL. Pg  
414-539.

SEELINGER, J. L. United Technologies Corp.

DATE ISS 81/10/22. 126pp. .48X 19148-003. ODI: . TN: 6806

IRRELEVANT

8306290830 Deposition of J.R. Shetler on 820423 in New York, NY. Pg 1-146.

SHETLER, J. R. Babcock & Wilcox Co.

DATE ISS 82/04/23. 146pp. .48X 19148-202. ODI: . TN: 6806

IRRELEVANT

8306290839 Deposition of D. Shovlin on 820716 in New York, NY. Pg 1-204.

SHOVLIN, D. General Public Utilities - GPU Service Corp.

DATE ISS 82/07/16. 204pp. .48X 19148-347. ODI: . TN: 6806

6.6, 6.12

8306290861 Deposition of E. Swanson on 820721 in New York, NY. Pg 1-141.

SWANSON, E. Babcock & Wilcox Co.

DATE ISS 82/07/21. 141pp. .48X 19149-189. ODI: . TN: 6806

6.13

8306290874 Deposition of E. Swanson on 820722 in New York, NY. Pg 1-306.

SWANSON, E. Babcock & Wilcox Co.

DATE ISS 82/07/22. 162pp. .48X 19149-331. ODI: . TN: 6806

IRRELEVANT

8306290790 Deposition of J.H. Taylor on 810519 in New York, NY. Pg 1-148.

TAYLOR, J. H. Babcock & Wilcox Co.

DATE ISS 81/05/19. 148pp. .48X 19154-067. ODI: . TN: 6806

IRRELEVANT

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8306290813 Deposition of JH Taylor on 810522 in New York, NY.  
Pp 427-552.

TAYLOR, J. H. : Babcock & Wilcox Co.

DATE ISS: 81/05/22, 125pp. , 48X: 19155-132, ODI: , TN: GB06 IRRELEVANT

8306290824 Deposition of RJ Toole on 810623 in New York, NY. Pp 280-506.

TOOLE, R. J. : General Public Utilities - GPU Service Corp.

DATE ISS: 81/06/23, 226pp. , 48X: 19152-345, ODI: , TN: GB06 IRRELEVANT

8306290829 Deposition of RJ Toole on 810706 in New York, NY. Pp 507-726.

TOOLE, R. J. : General Public Utilities - GPU Service Corp.

DATE ISS: 81/07/06, 219pp. , 48X: 19153-208, ODI: , TN: GB06 IRRELEVANT

8306290798 Deposition of RJ Toole on 810707 in New York, NY. Pp 727-909.

TOOLE, R. J. : General Public Utilities - GPU Service Corp.

DATE ISS: 81/07/07, 182pp. , 48X: 19150-133, ODI: , TN: GB06 IRRELEVANT

8306290791 Deposition of RJ Toole on 810708 in New York, NY. Pp  
910-1,070.

TOOLE, R. J. : General Public Utilities - GPU Service Corp.

DATE ISS: 81/07/08, 160pp. , 48X: 19150-316, ODI: , TN: GB06 6.12

8306290754 Deposition of RL Williams on 820812 in New York, NY.  
Pp 1-98.

WILLIAMS, R. L. : Ebasco Services, Inc. (subs. of Enserch Corp.)

DATE ISS: 82/08/12, 100pp. , 48X: 19160-001, ODI: , TN: GB06 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8306290768 Deposition of EA Womack on 801209 in New York, NY.  
Pp 185-360.

WOMACK, E. A. : Babcock & Wilcox Co.

DATE ISS: 80/12/09, 188pp. , 48X: 19161-081, ODI: , TN: GB06

IRRELEVANT

8306290767 Deposition of EA Womack on 810126 in New York, NY. Pp 643-807.

WOMACK, E. A. : Babcock & Wilcox Co.

DATE ISS: 81/01/26, 164pp. , 48X: 19162-178, ODI: , TN: GB06

IRRELEVANT

8306290771 Deposition of EA Womack on 810127 in New York, NY. Pp 808-950.

WOMACK, E. A. : Babcock & Wilcox Co.

DATE ISS: 81/01/27, 142pp. , 48X: 19162-342, ODI: , TN: GB06

IRRELEVANT

8306290761 Deposition of WH Zeve on 820520 in New York, NY. Pp 1-121.

ZEWE, W. H. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/05/20, 121pp. , 48X: 19165-318, ODI: , TN: GB06

IRRELEVANT

8306290766 Deposition of WH Zeve on 820521 in New York, NY. Pp 122-248.

ZEWE, W. H. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/05/21, 126pp. , 48X: 19166-078, ODI: , TN: GB06

IRRELEVANT

8306290770 Deposition of W Zeve on 820524 in New York, NY. Pp 249-350.

ZEWE, W. H. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/05/24, 101pp. , 48X: 19166-207, ODI: , TN: GB06

6.12

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8306290746 Deposition of WH Zeve on 820525 in New York, N.Y. Pp 351-479.

ZEWE, W. H. : General Public Utilities - GPU Service Corp.  
DATE ISS: 82/05/25, 128pp. , 48X: 19166-310, ODI: , TN: Q806 6.1, 6.12

8306290751 Deposition of WH Zeve on 820526 in New York, NY. Pp 480-645.

ZEWE, W. H. : General Public Utilities - GPU Service Corp.  
DATE ISS: 82/05/26, 165pp. , 48X: 19167-079, ODI: , TN: Q806 6.12

8306290756 Deposition of WH Zeve on 820527 in New York, NY. Pp 646-790.

ZEWE, W. H. : General Public Utilities - GPU Service Corp.  
DATE ISS: 82/05/27, 20pp. , 48X: 19168-001, ODI: , TN: Q806 IRRELEVANT

8306290760 Deposition of WH Zeve on 820528 in New York, NY. Pp 791-853.

ZEWE, W. H. : General Public Utilities - GPU Service Corp.  
DATE ISS: 82/05/28, 62pp. , 48X: 19168-028, ODI: , TN: Q806 6.13

000635 RECORDS SCANNED 88 RECORDS PRINTED ( 9 RECORDS, 79 SUPP. )  
ENDING CODE- 186 LAST KEY- ZEWE, W. H. 8205280807

CATEGORY 6

EXHIBITS



U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307020037 "R Trip/Engineered Safeguards Incident,780423."

\* :Babcock & Wilcox Co.  
:  
DATE ISS:81/06/12, 89pp. ,48x:19208-169,ODI:B&W 0079 ,TN:GB06 6.6

8307020053 Discusses addl analysis of plant behavior during loss of load & reactor trip transients,performed in response to questions raised at 830203 meeting w/NRC.Proposed draft ltr to B&W encl.

FINK,H.T. :MPR Associates, Inc.  
FRITZEN,J. :Metropolitan Edison Co.  
DATE ISS:75/03/12, 14pp. ,48x:19209-085,ODI:B&W 0156 ,TN:GB06 6.8

8307020067 "Technical Staff Analysis Rept on Pilot-Operated Relief Valve (PORV) Design & Performance to President's Commission on Accident at TMI."

\* :NRC - No Detailed Affiliation Given  
:  
DATE ISS:79/10/31, 4pp. ,48x:19209-189,ODI:B&W 0160 ,TN:GB06 6.8

8307110014 "Current Events Power Reactors,Operator Error," 770901-1031.

\* :Commissioners  
:  
DATE ISS:77/12/31, 4pp. ,48x:19477-001,ODI:B&W 0161 ,TN:GB06 IRRELEVANT

8307110015 "Current Events Power Reactors,Cracks Discovered in Collet Housing of Control Rod Drives," Aug-Sept 1975.

\* :Commissioners  
:  
DATE ISS:75/09/30, 10pp. ,48x:19477-005,ODI:B&W 0162 ,TN:GB06 IRRELEVANT

8307020069 Discusses failure of Consolidated 5 inch - 1525 Veland electromatic relief valve at Oyster Creek & potential for failure at TMI.Failure partially due to marginal soldering. w/730914 memo to JP Moore re relief valve failure.

\* :Jersey Central Power & Light Co.  
WRIGHT,J.E. :General Public Utilities - GPU Service Corp.  
DATE ISS:73/09/27, 3pp. ,48x:19209-193,ODI:B&W 0163 ,TN:GB06 6.11

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307020074 Field Questionnaire 1577, rev 1 re condensate polishing sys.  
Diagram encl.

\* :Burns & Roe Co.  
: DATE ISS:77/02/19, 5pp. ,48x:19209-229,001:B&W 0164 ,TN:G806 IRRELEVANT

8307110018 TMI startup problem re condensate sys. Based on loss of  
feedwater occurrence, Burns & Roe should reevaluate control  
of COV12.

\* :Metropolitan Edison Co.  
: DATE ISS:77/11/17, 5pp. ,48x:19477-015,001:B&W 0165 ,TN:G806 IRRELEVANT

8307110022 Discusses water in svc air & instrument air.

ZEW, W.H. :Metropolitan Edison Co.  
SEELINGER, J. :Metropolitan Edison Co.  
DATE ISS:78/05/15, 5pp. ,48x:19477-020,001:B&W 0166 ,TN:G806 IRRELEVANT

8307110032 Forwards correspondence from Zew re water in instrument  
air. N/o encl.

SEELINGER, J. :Metropolitan Edison Co.  
BRUMMER, J. :Metropolitan Edison Co.  
DATE ISS:78/05/16, 1c. ,48x:19477-025,001:B&W 0167 ,TN:G806 IRRELEVANT

8307020076 Forwards portions of licensee startup shift test engineer  
Log Books 1 & 2, in response to 791221 request re L. Rodgers  
testimony.

TRAVIESO-DIAZ :Shaw, Pittman, Hotts & Trowbridge  
ASSELSTINE, J.K.:Senate, Environment & Public Works  
DATE ISS:80/01/09, 18pp. ,48x:19209-281,001:B&W 0168 ,TN:G806 IRRELEVANT

8307110034 Advises that review of Current Events - Power Reactors dtd  
770901-1001 has been completed & no action required.

O'TOOLE, R.J. :General Public Utilities - GPU Service Corp.  
:Metropolitan Edison Co.  
DATE ISS:78/01/15, 13pp. ,48x:19477-027,001:B&W 0172 ,TN:G806 6.8

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307020051 RO 7: on 770906, both low nuclear svcs closed cooling water pumps tripped, followed by standby pump trip. Caused by condensate polisher resin migration. Svs to be flushed & internals in check valve DW-V173 to be reinstalled.  
POJE, S.G. : Metropolitan Edison Co.  
DATE ISS: 78/07/17, 4pp. , 48x: 19215-298, ODI: B&W 0178 , TN: G806 IRRELEVANT

8307050350 LER 78-021/03L-0: on 780329, while operating in Mode 2, 120-volt ac vital bus 2-1V became deenergized. Caused by SFAS testing tripping 480-volt alternate source feeder breaker. Power restored by manually closing alternate source feeder.  
MILLER, G.P. : General Public Utilities - GPU Service Corp.  
DATE ISS: 78/04/12, 2pp. , 48x: 19323-075, ODI: B&W 0180 , TN: G806 IRRELEVANT

8307050418 "GPU Startup Problem Rept."

\* : Babcock & Wilcox Co.  
DATE ISS: 78/03/30, 8pp. , 48x: 19323-291, ODI: B&W 0189 , TN: G806 6.8

8307050428 Engineering change description re TMI-2.

\* : Burns & Roe Co.  
: Burns & Roe Co.  
DATE ISS: 78/04/06, 11pp. , 48x: 19323-299, ODI: B&W 0190 , TN: G806 6.12

8307050486 Informs of incident that occurred during preoperational testing of nuclear power plant w/B&W NSSS. On 781015, containment emergency sump isolation valves inadvertently opened allowing water to drain into containment bldg.  
JANIS, J.T. : Babcock & Wilcox Co.  
KLINGMAN, H.M. : General Public Utilities - GPU Service Corp.  
DATE ISS: 77/05/20, 2pp. , 48x: 19324-014, ODI: B&W 0204 , TN: G806 IRRELEVANT

8307050491 Forwards summary of B&W Users Group 790627-28 meetings.

SEELINGER, J.L. : Babcock & Wilcox Co.  
ROSS, M. : Babcock & Wilcox Co.  
DATE ISS: 79/08/21, 17pp. , 48x: 19324-016, ODI: B&W 0205 , TN: G806 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307050510 Advises that licensee did not receive Insp Rept 50-346/78-06 re transient event prior to 790530 hearing. Documents encl illustrate actual notice of info on certain operating problems encountered at other plants.  
ARNOLD, R.C. : General Public Utilities - GPU Service Corp.  
KEMENY, J.G. : President's Commission on the Accident at Three Mile Island  
DATE ISS: 79/08/30, 5pp. , 48x:19324-064, ODI: B&W 0208 , TN: G806 IRRELEVANT

8307070193 Forwards final minutes of Meeting 30 of General Ofc Review board re TMI.  
  
REPPERT, U.H. : General Public Utilities - GPU Service Corp.  
BARTMAN, J.S. : General Public Utilities - GPU Service Corp.  
DATE ISS: 78/10/24, 11pp. , 48x:19325-060, ODI: B&W 0209 , TN: G206 IRRELEVANT

8307020086 Viewgraph of PORV indicator light & controls.  
  
\* : Babcock & Wilcox Co.  
:   
DATE ISS: 81/07/28, 1p. , 48x:19245-119, ODI: B&W 0236 , TN: G806 6.12

8307020095 Transcript of 790425 interview w/B Mehler.  
  
MEHLER, B. : General Public Utilities - GPU Service Corp.  
:   
DATE ISS: 79/04/25, 16pp. , 48x:19245-181, ODI: B&W 0238 , TN: G806 IRRELEVANT

8307020098 Transcript of 790510 interview w/B Mehler.  
  
MEHLER, B. : General Public Utilities - GPU Service Corp.  
:   
DATE ISS: 79/05/10, 45pp. , 48x:19246-004, ODI: B&W 0239 , TN: G806 IRRELEVANT

8307020104 Expresses desire that corrective action be completed on listed major equipment problems prior to restart of test program & power operation.  
  
WARD, E.G. : Babcock & Wilcox Co.  
BARTON, J.J. : General Public Utilities - GPU Service Corp.  
DATE ISS: 78/05/02, 1p. , 48x:19246-050, ODI: B&W 0243 , TN: G806 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307020106 Log of daily operations.

\* :General Public Utilities - GPU Service Corp.  
:   
DATE ISS:78/03/29, 6pp. ,48x:19246-079,ODI:B&W 0244 ,TN:G806 IRRELEVANT

8307020108 Forwards summary of LER 78-022/99X on 780329.

\* :General Public Utilities - GPU Service Corp.  
GRIER, B.H. : Region 1, Philadelphia, Office of the Director  
DATE ISS:81/07/30, 10pp. ,48x:19246-057,ODI:B&W 0245 ,TN:G806 6.12

8307120620 Forwards final rept on 780423 reactor trip/ES of 780423  
incident.

SEELINGER, J.L. :Metropolitan Edison Co.  
MILLER, G.P. :Metropolitan Edison Co.  
DATE ISS:78/05/04, 89pp. ,48x:19501-267,ODI:B&W 0246 ,TN:G806 IRRELEVANT

8307050492 "Adequacy of Existing Temp Detectors on Pressure Relief  
Valve Discharge Lines."

ROGEN, R.M. :General Public Utilities - GPU Service Corp.  
:   
DATE ISS:79/07/03, 8pp. ,48x:19327-018,ODI:B&W 0249 ,TN:G806 6.12

8307050297 Transcript of E Frederick & C Faust 790329 statement of  
events leading up to incident, hand-written copy encl.

FREDERICK, E. :General Public Utilities - GPU Service Corp.  
:   
DATE ISS:79/03/29, 6pp. ,48x:19327-095,ODI:B&W 0257 ,TN:G806 IRRELEVANT

8307050304 TMI staff interview w/C Faust re sequence of events leading  
up to turbine trip.

FAUST, C. :General Public Utilities - GPU Service Corp.  
:   
DATE ISS:79/03/30, 12pp. ,48x:19327-101,ODI:B&W 0258 ,TN:G806 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307120641 "Dresser PORV."

\* :Metropolitan Edison Co.  
: DATE ISS:83/07/12, 1p. ,48x:19502-076,ODI:B&W 0262 ,TN:GB06 IRRELEVANT

8307050320 Suggests areas in which evaluation of 790423 incident could be more accurate & complete. Concentration suggested in areas of malfunctioning safeties, flow testing of Mu-V-16s & poorly-designed alarm svcs.  
FREDERICK, E. :General Public Utilities - GPU Service Corp.  
:Babcock & Wilcox Co.  
DATE ISS:78/05/03, 5pp. ,48x:19327-131,ODI:B&W 0264 ,TN:GB06 6.6, 6.12

8307050526 Preliminary inquiry of TMI incident of 790328.

ZEWE, W.H. :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/04/03, 50pp. ,48x:19327-282,ODI:B&W 0271 ,TN:GB06 6.12

8307080033 Figure 80:TMI-2 LUCA on 790328, pump operating history.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/03/28, 1p. ,48x:19331-002,ODI:B&W 0280 ,TN:GB06 IRRELEVANT

8307080082 Charts showing reactor blade temps on 790329.

\* :Metropolitan Edison Co.  
: DATE ISS:79/03/29, 13pp. ,48x:19333-187,ODI:B&W 0313 ,TN:GB06 6.19

8307070318 Operational log. Summary of notes for 780419-0901.

KEATEL, R.W. :General Public Utilities - GPU Service Corp.  
: DATE ISS:78/09/01, 53pp. ,48x:19319-167,ODI:B&W 0337 ,TN:GB06 6.11



U. S. NUCLEAR REGULATORY COMMISSION  
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8307070342 Rev 0 to "Accident Transient Modeling Analysis," technical  
data rept.

KEATEN, R.W. : General Public Utilities - GPU Service Corp.

DATE ISS: 79/05/18, 50pp. , 48x: 19320-079, OOI: B&W 0341 , TN: GB06

IRRELEVANT

8307070385 Draft transcript of investigative task force meeting w/  
operating crew on duty in control room on morning of 790328.

\* : General Public Utilities - GPU Service Corp.

DATE ISS: 82/01/07, 234pp. , 48x: 19321-015, OOI: B&W 0346 , TN: GB06

IRRELEVANT

8307070397 First draft "GPU Task Force Interim Summary Rept."

\* : General Public Utilities - GPU Service Corp.

DATE ISS: 79/09/28, 56pp. , 48x: 19321-250, OOI: B&W 0347 , TN: GB06

6.6

8308230570 Transcript of TMI Investigative Task Force Taped Interview 1  
(Keaten Tapes) on 790824, Pp 1-44.

\* : General Public Utilities - GPU Service Corp.

DATE ISS: 79/08/24, 45pp. , 48x: 20125-073, OOI: B&W 0347A , TN: GB06

IRRELEVANT

8308230580 Transcript of TMI Investigative Task Force Taped Interview 3  
(Keaten Tapes) on 790824, Pp 1-40.

\* : General Public Utilities - GPU Service Corp.

DATE ISS: 79/08/24, 41pp. , 48x: 20125-157, OOI: B&W 0347C , TN: GB06

IRRELEVANT

8308230612 Transcript of TMI Investigative Task Force Taped Interview 9  
(Keaten Tapes) on 790919, Pp 1-30.

\* : General Public Utilities - GPU Service Corp.

DATE ISS: 79/09/19, 31pp. , 48x: 20126-136, OOI: B&W 0347I , TN: GB06

IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8308230617 Transcript of TMI Investigative Task Force Taped Interview  
10 (Keaten Tapes) on 790920, Po 1-34.

\* :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:79/09/20, 65pp, ,48x:20126-169,ODI:8&W 0347J ,TN:GB06

IRRELEVANT

8308230619 Transcript of TMI Investigative Task Force Taped Interview  
11 (Keaten Tapes) on 790920, Po 1-66.

\* :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:79/09/20, 67pp, ,48x:20126-234,ODI:8&W 0347K ,TN:GB06

IRRELEVANT

8308230623 Transcript of TMI Investigative Task Force Taped Interview  
12 (Keaten Tapes) on 790920, Po 1-59.

\* :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:79/09/20, 60pp, ,48x:20126-301,ODI:8&W 0347L ,TN:GB06

IRRELEVANT

8308230626 Transcript of TMI Investigative Task Force Taped Interview  
13 (Keaten Tapes) on 790924, Po 1-26.

\* :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:79/09/24, 27pp, ,48x:20126-359,ODI:8&W 0347M ,TN:GB06

IRRELEVANT

8307070438 Second draft "GPU Task Force Interim Summary Rept."

KEATEN,R.W. :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:79/10/06, 57pp, ,48x:19322-016,ODI:8&W 0349 ,TN:GB06

IRRELEVANT

8307080673 Forwards "GPU Task Force Interim Summary Rept," third draft  
re TMI-2 accident on 790326.

KEATEN,R.W. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:79/10/17, 1p, ,48x:19402-181,ODI:8&W 0350 ,TN:GB06

6.12, 6.16

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307080681 Forwards "GPU Task Force Interim Summary Rept" re findings & conclusions to date & presenting preliminary recommendations re TMI-2 accident on 790328.

KEATEN, R.W. : General Public Utilities - GPU Service Corp.  
DIECKAMP, H.M. : General Public Utilities - GPU Service Corp.  
DATE ISS: 79/10/29, 1p. , 48x: 19402-339, ODI: B&W 0351 , TN: GB06

IRRELEVANT

8307080688 "GPU Accident Review Task Force Interim Summary Rept."

KEATEN, R.W. : General Public Utilities - GPU Service Corp.  
DATE ISS: 79/11/28, 41pp. , 48x: 19403-019, ODI: B&W 0352 , TN: GB06

6.16

8307080691 Lists items which must be accomplished to complete GPU/Met Ed review of TMI-2 accident & underlying causes.

KEATEN, R.W. : General Public Utilities - GPU Service Corp.  
DATE ISS: 79/12/03, 6pp. , 48x: 19403-061, ODI: B&W 0353 , TN: GB06

IRRELEVANT

8307080693 "GPU Accident Review Task Force Final Summary Rept."

\* : General Public Utilities - GPU Service Corp.  
DATE ISS: 80/03/24, 41pp. , 48x: 19403-068, ODI: B&W 0354 , TN: GB06

6.12, 6.13

8307080695 "GPU Accident Review Task Force Final Summary Rept."

\* : General Public Utilities - GPU Service Corp.  
DATE ISS: 80/05/12, 50pp. , 48x: 19403-112, ODI: B&W 0355 , TN: GB06

6.12

8307080698 "GPU Accident Review Task Force Final Summary Rept."

KEATEN, R.W. : General Public Utilities - GPU Service Corp.  
DATE ISS: 80/12/15, 49pp. , 48x: 19403-161, ODI: B&W 0356 , TN: GB06

6.6, 6.12

U. S. NUCLEAR REGULATORY COMMISSION  
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8307080699 Forwards marked-up task force rept indicating significant differences from interim rept, w/o encl.

KEATEN, R.W. : General Public Utilities - GPU Service Corp.  
DIECKAMP, H.M. : General Public Utilities - GPU Service Corp.  
DATE ISS: 80/09/02, 1p. , 48X: 19404-017, OOI: B&W 0357 , TN: GB06

IRRELEVANT

8307080708 Transcript of task force interviews.

\* : General Public Utilities - GPU Service Corp.  
: :  
DATE ISS: 79/09/19, 109pp. , 48X: 19404-024, OOI: B&W 0361 , TN: GB06

IRRELEVANT

8307080709 Transcript of interview w/util crew not directly involved in 790328 accident.

\* : General Public Utilities - GPU Service Corp.  
: :  
DATE ISS: 82/01/21, 288pp. , 48X: 19404-134, OOI: B&W 0362 , TN: GB06

IRRELEVANT

8307080714 Summary of interview w/B Mehler.

KEATEN, R.W. : General Public Utilities - GPU Service Corp.  
: General Public Utilities - GPU Service Corp.  
DATE ISS: 80/01/29, 1p. , 48X: 19405-063, OOI: B&W 0364 , TN: GB06

IRRELEVANT

8307080717 Forwards results, conclusions & recommendations re Task 1, Subtask 4 & Task 2, Subtasks 5 & 7 concerning TMI-2 accident review.

KITTELSON, L.L. : Metropolitan Edison Co.  
TSAGGARIS, A. : Metropolitan Edison Co.  
DATE ISS: 79/09/28, 21pp. , 48X: 19405-064, OOI: B&W 0365 , TN: GB06

IRRELEVANT

8307080720 "Task 2 Rationale for Operation/Staff Response Subtask 8 - Define why MPI was Modulated."

WALSH, P.S. : General Public Utilities - GPU Service Corp.  
: :  
DATE ISS: 79/08/03, 3pp. , 48X: 19405-084, OOI: B&W 0366 , TN: GB06

6.18

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

- 8307080722 Comments on "Technical Assessment of Operating, Abnormal & Emergency Procedures." Some results consistent w/GPU findings while some are inaccurate, misleading & technically incorrect, Procedures listed incorrect.  
KEATEN, R.W. :General Public Utilities - GPU Service Corp.  
DIECKAMP, H.M. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/11/02, 3pp. ,48x:19405-087, ODI:B&W 0367 ,TN:G806 IRRELEVANT
- 8307080726 Summary of 800120 telcon w/J Birt re solenoids on condensate polisher valves. Valves either wired improperly or disconnected & could not perform design function.  
\* :General Public Utilities - GPU Service Corp.  
KEATEN, R. :General Public Utilities - GPU Service Corp.  
DATE ISS:80/01/31, 1p. ,48x:19405-090, ODI:b&w 0368 ,TN:G806 IRRELEVANT
- 8307080727 Summary of 790813 interview w/RCA.  
\* :General Public Utilities - GPU Service Corp.  
DATE ISS:79/08/13, 1p. ,48x:19405-091, ODI:B&W 0369 ,TN:G806 IRRELEVANT
- 8307080063 Excerpt from "Lessons Learned From TMI In Reactor Instrumentation & Diagnostics."  
\* :Babcock & Wilcox Co.  
DATE ISS:83/07/06, 1p. ,48x:19334-004, ODI:B&W 0376 ,TN:G806 6.12
- 8307080064 Procedure 054 "Analysis of TMI-2 Operator Response."  
WALSH, P.S. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/10/19, 43pp. ,48x:19334-005, ODI:B&W 0377 ,TN:G806 6.12
- 8307080074 LER 79-014/011: on 790502, reactor high pressure scram occurred. Caused by lack of procedural direction to operators w/reactor scrambled & recirculation pumps tripped. Procedures reviewed & changed. n/790516 ltr.  
FOSS, D.A. :Jersey Central Power & Light Co.  
GRIER, B.H. :Region 1, Office of Director  
DATE ISS:79/05/16, 6pp. ,48x:19334-078, ODI:B&W 0379 ,TN:G806 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307080103 Telcon w/Fred to discuss facility cooldowns. Caused by  
electromagnetic relief valve stuck open.

POTTS, W.E. :Metropolitan Edison Co.  
:Toledo Edison Co.

DATE ISS:78/11/08, 1p. ,48x:19334-129, ODI:B&W 0384 ,TN:GB06

IRRELEVANT

8307080103 Telcon w/Fred to discuss facility cooldowns. Caused by  
electromagnetic relief valve stuck open.

POTTS, W.E. :Metropolitan Edison Co.  
:Toledo Edison Co.

DATE ISS:78/11/08, 1p. ,48x:19334-129, ODI:B&W 0384 ,TN:GB06

IRRELEVANT

8307080120 Small break LUCA flow chart.

\* :Babcock & Wilcox Co.  
:

DATE ISS:83/07/07, 1p. ,48x:19334-075, ODI:B&W 0385 ,TN:GB06

IRRELEVANT

8307080633 "Root on Primary Safety Valve Leakage."

KUNDER, G.A. :General Public Utilities - GPU Service Corp.  
:

DATE ISS:74/12/02, 28pp. ,48x:19394-066, ODI:B&W 0422 ,TN:GB06

IRRELEVANT

8307080634 Figure 51, "TMI-2 LUCA 790328 Reactor Bldg Temp & Pressure."

\* :Babcock & Wilcox Co.  
:

DATE ISS:82/02/12, 1p. ,48x:19394-178, ODI:B&W 0423 ,TN:GB06

IRRELEVANT

8307080639 Resume of W Billingsley.

BILLINGSLEY, W. :General Public Utilities - GPU Service Corp.  
:

DATE ISS:82/02/18, 1p. ,48x:19394-159, ODI:B&W 0427 ,TN:GB06

IRRELEVANT



U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307110636 "Investigation of TMI-2 Pressurizer PORV Discharge Pipe  
Temps."

BILLINGSLEY, W. : General Public Utilities - GPU Service Corp.

DATE ISS: 80/02/28, 56pp., 48x:19440-001, ODI: B&W 0428 , TN: G806

IRRELEVANT

8307110642 Submits results of investigation of pressurizer relief valve  
leakage path prior to 790328. Pilot operated relief valve  
RC-r2 was not leaking. Possibility of small leakage past  
RC-R1A as early as Nov 1978 does exist.

STUBBS, J.M. : General Public Utilities - GPU Service Corp.

WALLACE, E.G. : General Public Utilities - GPU Service Corp.

DATE ISS: 80/04/17, 3pp., 48x:19440-113, ODI: B&W 0429 , TN: G806

IRRELEVANT

8307110644 Analyzes TMI-2 computer data re pressurizer relief valves.  
Changes in downstream tailpipe temps after Jan 1979 for  
each relief valve indicates that valve leakage present.

STUBBS, J.M. : Metropolitan Edison Co.

: Metropolitan Edison Co.

DATE ISS: 80/03/17, 18pp., 48x:19440-116, ODI: B&W 0430 , TN: G806

IRRELEVANT

8307110650 Identifies data from radwaste disposal/reactor coolant  
leakage temp multipoint recorder, to be used in analysis of  
pressurizer relief valve leakage prior to 790328. Data  
indicates leakage was through pressurizer code relief valve.

STUBBS, J.M. : General Public Utilities - GPU Service Corp.

WALLACE, E.G. : General Public Utilities - GPU Service Corp.

DATE ISS: 80/02/22, 31pp., 48x:19440-134, ODI: B&W 0431 , TN: G806

IRRELEVANT

8307110653 Identifies problem areas in analyzing data taken from  
radwaste disposal/reactor coolant leakoff temp multipoint  
recorder installed in Panel 10 of TMI-2 control room.  
Listing of parameters monitored encl.

STUBBS, J.M. : Metropolitan Edison Co.

: Metropolitan Edison Co.

DATE ISS: 80/02/15, 19pp., 48x:19440-193, ODI: B&W 0432 , TN: G806

IRRELEVANT

8307110657 Reviews reactor coolant leakage test data results prior to  
790328. Graphs & table of test data encl.

STUBBS, J.M. : General Public Utilities - GPU Service Corp.

: General Public Utilities - GPU Service Corp.

DATE ISS: 80/03/26, 14pp., 48x:19440-128, ODI: B&W 0433 , TN: G806

IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
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- 8307110665 Informs that wA & purchase order records pertinent to  
electromatic relief valve investigation found. Addl info  
needed includes failure data, maint & surveillance records  
& valve installation locations.  
BILLINGSLEY, Q. :General Public Utilities - GPU Service Corp.  
LONG, R.L. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/07/25, 3pp. ,48x:19440-290, ODI:B&W 0435 ,TN:GB06 IRRELEVANT
- 8307110669 Outlines task for electromatic relief valve.
- \* :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/07/11, 2pp. ,48x:19440-293, ODI:B&W 0436 ,TN:GB06 IRRELEVANT
- 8307110672 Operational log, Summary of mod to electromatic relief valve.
- \* :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/08/22, 2pp. ,48x:19440-295, ODI:B&W 0437 ,TN:GB06 IRRELEVANT
- 8307110675 Operational log, Summary of valve failures from 770817-  
780803.
- \* :General Public Utilities - GPU Service Corp.  
: DATE ISS:78/08/03, 6pp. ,48x:19440-297, ODI:B&W 0438 ,TN:GB06 IRRELEVANT
- 8307110679 Informs that w/exception of pressurizer relief valve  
upstream temps, radwaste disposal/reactor coolant temp  
recorder data cannot be relied on. Charts encl.
- STUBBS, J. :General Public Utilities - GPU Service Corp.  
BILLINGSLEY, W. :General Public Utilities - GPU Service Corp.  
DATE ISS:80/01/23, 38pp. ,48x:19440-303, ODI:B&W 0439 ,TN:GB06 IRRELEVANT
- 8307110683 Operational log, Summary of reactor coolant drain tank  
pumping for 790204-790327.
- \* :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/10/16, 3pp. ,48x:19441-007, ODI:B&W 0440 ,TN:GB06 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307110684 Operational log, Summary of block valve operation for  
electromatic relief for Oct 1974 - Jul 1977.

\* :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:77/07/31, 200. ,48x:19441-010,ODI:B&W 0441 ,TN:G806 IRRELEVANT

8307110701 Rev 3 to Surveillance Procedure 2301-301, "RCS Inventory."

\* :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:79/02/05, 300. ,48x:19441-012,ODI:B&W 0442 ,TN:G006 IRRELEVANT

8307110704 Discusses two possible causes of failure of electromatic  
relief valve, including distortion of solenoid coil &  
distortion of valve due to stresses caused by differential  
thermal movement between valve & discharge piping.

\* :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:82/02/10, 200. ,48x:19441-015,ODI:B&W 0443 ,TN:G806 IRRELEVANT

8307110706 Abstract of technical data report re PORV operation & failure  
at TMI-2.

\* :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:82/02/19, 2100. ,48x:19441-017,ODI:B&W 0444 ,TN:G806 6.12

8307110708 Forwards preliminary list of reactor trips which caused  
PORV actuation at TMI-1, per 790921 request. Complete list  
will be provided by 791110.

HARDING, L.W. :Metropolitan Edison Co.  
SHORT, P.J. :Babcock & Wilcox Co.  
DATE ISS:79/10/15, 300. ,48x:19441-038,ODI:B&W 0445 ,TN:G806 6.8

8307110710 Discusses alternative solutions to pressurized relief valve  
operation.

\* :Metropolitan Edison Co.  
:Metropolitan Edison Co.  
DATE ISS:77/03/11, 300. ,48x:19441-069,ODI:B&W 0446 ,TN:G806 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307110713 Forwards summary of test procedures & equipment for  
electromatic relief valve RC-RC2, Early meeting to discuss  
other problems requested.

BOLGER, F.P. : Dresser Industries, Inc.  
COTTER, W.W. : Metropolitan Edison Co.  
DATE ISS: 7/03/29, 5pp. , 48x: 19441-072, ODI: B&W 0447 , TN: GB06

IRRELEVANT

8307110715 Certifies that valves furnished on Order U20190LS, inspected  
& tested & comply w/required specs. Component insp repts  
encl.

\* : Dresser Industries, Inc.  
: Babcock & Wilcox Co.  
DATE ISS: 6/9/12/01, 11pp. , 48x: 19441-077, ODI: B&W 0448 , TN: GB06

IRRELEVANT

8307110716 Field Questionnaire 2529 re RCS electromatic relief valve  
operation.

\* : Burns & Roe Co.  
: :  
DATE ISS: 7/8/04/06, 10pp. , 48x: 19441-116, ODI: B&W 0449 , TN: G006

IRRELEVANT

8307110640 Field Questionnaire 1374 re Drawing 3079 Sheet 14, Rev 14  
concerning fuse installation.

\* : Burns & Roe Co.  
: :  
DATE ISS: 7/7/05/25, 5pp. , 48x: 19441-126, ODI: B&W 0450 , TN: GB06

IRRELEVANT

8307110646 Field Change Request FCR-188 re electromatic relief valve.

CODY, J.P. : Burns & Roe Co.  
: :  
DATE ISS: 7/7/02/02, 32pp. , 48x: 19441-131, ODI: B&W 0451 , TN: GB06

IRRELEVANT

8307110651 Certifies that valve furnished on Order 022330LS inspected,  
tested & found in accordance w/specs, drawings &  
requirements.

THOMAS, R.R. : Dresser Industries, Inc.  
: Babcock & Wilcox Co.  
DATE ISS: 7/2/01/24, 3pp. , 48x: 19441-191, ODI: B&W 0452 , TN: GB06

IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307110659 Confirms 761004 telcon re deviation in functional testing of  
electromatic relief valve KC-RV-2, S/M 3M04233. Engineering  
instruction PT-31 encl.

BESSON, J.R. : Dresser Industries, Inc.

STUHRKE, S. : Burns & Roe Co.

DATE ISS: 76/10/05, 4pp. , 48X: 19441-110, ODI: B&W 0453 , TN: G806

IRRELEVANT

8307110663 Forwards QA data sheet for electromatic relief valves.

\* : Babcock & Wilcox Co.

: Babcock & Wilcox Co.

DATE ISS: 70/01/07, 2pp. , 48X: 19441-22b, ODI: B&W 0454 , TN: Gd06

IRRELEVANT

8307110668 Forwards summaries of recent correspondence re TMI-1 PORV  
& excerpts from TMI-1 restart rept, NUREG-0578 & NUREG-0560.

HARBIN, R.S. : Metropolitan Edison Co.

: Metropolitan Edison Co.

DATE ISS: 80/02/01, 3pp. , 48X: 19441-228, ODI: B&W 0455 , TN: G806

IRRELEVANT

8307110673 "TMI-2 PORV Investigation."

KEATEN, R.W. : General Public Utilities - GPU Service Corp.

:

DATE ISS: 80/07/15, 201pp. , 48X: 19441-231, ODI: B&W 0456 , TN: G806

IRRELEVANT

8307110676 Operation log. Summary of things to be added to rept,  
including design change & pump operation on engineered  
safeguards sys.

\* : General Public Utilities - GPU Service Corp.

:

DATE ISS: 82/02/19, 12pp. , 48X: 19442-072, ODI: B&W 0457 , TN: G806

IRRELEVANT

8307110680 Draft "TMI-2 Makeup Pump Operation."

BILLINGSLEY, Q. : General Public Utilities - GPU Service Corp.

:

DATE ISS: 79/10/01, 34pp. , 48X: 19442-084, ODI: B&W 0458 , TN: G806

IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307110685 Requests review of draft rept re reactor coolant makeup  
pump computer indicator.

WALLACE, E. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:82/02/19, 2pp. ,48x:19442-174,00I:B&W 0459 ,TN:GB06

IRRELEVANT

8307090258 Forwards current list of outstanding questions on  
operational sequence of events.

ANKRUM, A.R. :Stafco, Inc.  
MCEWEN, J. :Stafco, Inc.  
DATE ISS:79/11/26, 9pp. ,48x:19413-130,00I:B&W 0511 ,TN:GB06

IRRELEVANT

8307060620 Drawings of interrelated control sys subsystems, including  
reactor demand subsystem & feedwater subsystem.

\* :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:82/02/25, 500pp. ,48x: - ,00I:B&W 0525 ,TN:GB06

IRRELEVANT

8307060615 "Horse Book Update."

\* :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:82/02/25, 1133pp. ,48x:19305-302,00I:B&W 0526 ,TN:GB06

6.22

8307090317 "Integrated Control Sys," videotape training manual.

\* :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:82/02/25, 982pp. ,48x:19413-235,00I:B&W 0527 ,TN:GB06

6.22

8307060605 "Reactor Theory Review:1978-79 Recual Review Course."

\* :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:79/12/31, 715pp. ,48x:19303-307,00I:B&W 0529 ,TN:GB06

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U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307060508 Documentation of plant sys.

\* :babcock & wilcox Co.  
: DATE ISS:82/02/25, 866pp. ,48x:19277-296,ODI:B&W 0531 ,TN:GB06 IRRELEVANT

8307060562 "Sys Descriptions:Primary sys."

\* :babcock & wilcox Co.  
: DATE ISS:83/07/06, 66pp. ,48x:19308-355,ODI:B&W 0532 ,TN:GB06 IRRELEVANT

8307060612 Rev 0 to nuclear power plant operations manual,Vol 2.

ALBERT,J.R. :babcock & wilcox Co.  
: DATE ISS:75/01/16, 649pp. ,48x:19285-077,ODI:B&W 0535 ,TN:GB06 6.1,6.22

8307080576 Continued deposition of FJ Scheimann in Harrisburg,PA,Pa  
129-241.

SCHEIMANN,F.J. :Metropolitan Edison Co.  
: DATE ISS:79/07/25, 263pp. ,48x:19416-081,ODI:B&W 0537 ,TN:GB06 IRRELEVANT

8307080705 Discusses capability of proposed Yellow Creek nuclear plant  
to withstand small LOCA.Mid-Aug meeting proposed to resolve  
preliminary concerns re transient analysis.Response  
requested by 770805.

PATTERSON,D.R. :Tennessee Valley Authority  
LUMPKIN,R.L. :Combustion Engineering, Inc.  
DATE ISS:77/07/22, 5pp. ,48x:19418-012,ODI:B&W 0542 ,TN:GB06 IRRELEVANT

8307080711 Forwards response to util concerns re very small break LOCA.  
Small break post-LOCA, long-term cooling analyses &  
procedures based on methodologies undergoing NRC review.NRC  
review will not be completed prior to 780401.

LUMPKIN,R.L. :Combustion Engineering, Inc.  
PATTERSON,D.R. :Tennessee Valley Authority  
DATE ISS:77/10/14, 6pp. ,48x:19418-017,ODI:B&W 0543 ,TN:GB06 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

- 8307080719 Forwards App b to "Evaluation of Transient Behavior & Small  
RCS Breaks in 177 Fuel Assembly Plant," in response to  
780427,790123 & 0208 ltrs. Response to NRC request for addl  
info to be submitted shortly, completing record.  
LIGHTLE, R.E. :Babcock & Wilcox Co.  
PATTERSON, D.K. :Tennessee Valley Authority  
DATE ISS:79/05/29, 1p. ,48x:19418-023, ODI:B&W 0544 ,TN:GB06 IRRELEVANT
- 8307080742 Reviews sequence of events & causes of TMI-2 accident.
- \* :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:83/07/08, 8pp. ,48x:19418-070, ODI:B&W 0553 ,TN:GB06 IRRELEVANT
- 8307090391 Forwards updated status of TMI-2 "Outstanding NRC Licensing  
Issues."
- LANESE, L.C. :General Public Utilities - GPU Service Corp.  
BARTON, J.J. :General Public Utilities - GPU Service Corp.  
DATE ISS:75/11/19, 11pp. ,48x:19395-308, ODI:B&W 0604 ,TN:GB06 6.2
- 8307210306 "Three Mile Island Unit 2 Control Room Layout & Location of  
Critical Indications."
- \* :Babcock & Wilcox Co.  
:  
DATE ISS:82/04/01, 1p. ,48x:19694-318, ODI:B&W 0609 ,TN:GB06 IRRELEVANT
- 8307090388 Transcript of 790423 IE TMI investigation interview w/FJ  
Scheimann. Pp 1-54.
- \* :Metropolitan Edison Co.  
:  
DATE ISS:79/04/23, 55pp. ,48x:19443-048, ODI:B&W 0610 ,TN:GB06 6.1, 6.12
- 8307090392 Summary of B&W Owners Group Reactor Vessel Supports  
Subcommittee 771117 meeting re C-E Users Group licensing  
experience.
- \* :Babcock & Wilcox Co.  
:Florida Power Corp.  
DATE ISS:77/11/17, 2pp. ,48x:19443-188, ODI:B&W 0611 ,TN:GB06 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307110741 Chart for reactor bldg pressure wide & narrow ranges.

\* :Idacocock & Wilcox Co.  
: DATE ISS:82/04/28, 2pp. ,48x:19478-053,ODI:B&W 0616 ,TN:GB06 IRRELEVANT

8307110079 Loas re discharges to environ for 790323-27.

\* :Metropolitan Edison Co.  
: DATE ISS:79/03/27, 4pp. ,48x:19444-171,ODI:B&W 0644 ,TN:GB06 IRRELEVANT

8307090163 Testimony of E Frederick re accident at TMI-2.

FREDERICK,E. :Metropolitan Edison Co.  
: DATE ISS:79/05/10, 79pp. ,48x:19398-037,ODI:B&W 0654 ,TN:GB06 6.12

8307110750 Vol 5 to FSAH for TMI Unit 2.

\* :Metropolitan Edison Co.  
: DATE ISS:82/05/12, 4pp. ,48x:19477-356,ODI:B&W 0664 ,TN:GB06 IRRELEVANT

8307110753 Forwards marked-up copy of annotated sequence of events re TMI accident of 790328. Comments resulted from PURC meetings on 790514, 16 & 17.

MILLER,G.P. :Metropolitan Edison Co.  
:Metropolitan Edison Co.  
: DATE ISS:79/05/21, 38pp. ,48x:19478-001,ODI:B&W 0666 ,TN:GB06 6.12

8307090214 Forwards marked-up "Annotated Sequence of Events," resulting from TMI-2 PURC 790514, 16-17 meetings. Comments addressed on Page 8 should be reviewed & appropriately considered when preparing future versions.

MILLER,G.P. :Metropolitan Edison Co.  
VANWITBECK,T. :Metropolitan Edison Co.  
: DATE ISS:79/05/21, 45pp. ,48x:19399-021,ODI:B&W 0667 ,TN:GB06 6.12

U. S. NUCLEAR REGULATORY COMMISSION  
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8307090256 Marked-up copy of rept re TMI-2 incident possible causes & solutions.

\* Babcock & Wilcox Co.  
1  
DATE ISS:79/04/07, 13pp. ,48x:19399-175,00I:B&W 0674 ,TN:G806 6.1, 6.12

8307090334 Comments on Rev 1 to preliminary annotated sequence of events for 790328 accident.

CORNEAN, W.R. Burns & Roe Co.  
LUNG, K.L. General Public Utilities - GPU Service Corp.  
DATE ISS:79/07/20, 1p. ,48x:19400-343,00I:B&W 0690 ,TN:G806 IRRELEVANT

8307110724 Requests formation of fire member task force to complete investigation of encl seven specific issues re 790328 incident.

ARNOLD, R.C. General Public Utilities - GPU Service Corp.  
KEATE, R.W. General Public Utilities - GPU Service Corp.  
DATE ISS:79/06/27, 5pp. ,48x:19445-169,00I:B&W 0694 ,TN:G806 IRRELEVANT

8307110732 Submits questions re TMI-2 incident on 790328.

\* Babcock & Wilcox Co.  
Babcock & Wilcox Co.  
DATE ISS:79/06/13, 3pp. ,48x:19445-177,00I:B&W 0697 ,TN:G806 IRRELEVANT

8307110735 Submits tasks & subtasks for task teams.

\* Babcock & Wilcox Co.  
Babcock & Wilcox Co.  
DATE ISS:79/07/09, 16pp. ,48x:19445-180,00I:B&W 0698 ,TN:G806 IRRELEVANT

8307110739 Forwards first rough draft, "GPU Task Force Interim Summary Rept."

KEATON, R.W. General Public Utilities - GPU Service Corp.  
General Public Utilities - GPU Service Corp.  
DATE ISS:79/09/28, 1p. ,48x:19446-002,00I:B&W 0699 ,TN:G806 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307110744 Requests copy of encl package re task force draft rept.

LONG, R. L.           Idacocox & Wilcox Co.  
                          ;General Public Utilities - GPU Service Corp.  
DATE ISS:79/10/07,   5pp.       ,48x119446-060,001:8&N 0700       ,TN:G806       IRRELEVANT

8307110752 "GPU Task Force Investigative Rept."

BROUGHTON, T. G.   ;General Public Utilities - GPU Service Corp.  
                          ;  
DATE ISS:79/11/27,   4pp.       ,48x119446-154,001:8&N 0702       ,TN:G806       IRRELEVANT

8307110757 "GPU Accident Review Task Force Final Summary Rept."

KEATEN, R. W.       ;General Public Utilities - GPU Service Corp.  
                          ;  
DATE ISS:80/03/24,   43pp.      ,48x119446-346,001:8&N 0703       ,TN:G806       IRRELEVANT

8307110763 Forwards TOR TMI-111, "Analysis of TMI-2 Operator Response,"  
for review. Comments requested by 790625.

BROUGHTON, T. G.   ;General Public Utilities - GPU Service Corp.  
LONG, R.           ;General Public Utilities - GPU Service Corp.  
DATE ISS:79/06/21,   32pp.      ,48x119447-062,001:8&N 0705       ,TN:G806       IRRELEVANT

8307110769 "Analysis of TMI-2 Operator Response."

WALSH, P. S.       ;General Public Utilities - GPU Service Corp.  
                          ;  
DATE ISS:82/05/20,   3pp.       ,48x119447-066,001:8&N 0706       ,TN:G806       IRRELEVANT

8307090353 Forwards response to 791025 notice of violation & notice of  
proposed issuance of civil penalties based on IE  
investigation of 790328 accident.

ARNOLO, R. C.       ;Metropolitan Edison Co.  
STELLO, V.         ;Office of Inspection & Enforcement, Office of the Director  
DATE ISS:79/12/05,   97pp.      ,48x119492-019,001:8&N 0707       ,TN:G806       IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307090022 Forwards draft "Loss of Feedwater Flow Leading to Accident at 790328," for master task force presentation.

LUCIEN, K.           :Energy Incorporated  
                  :Energy Incorporated  
DATE ISS:79/09/01; 263pp. ,4x119448=128,001:B&W 0718 ,TN:G806

IRRELEVANT

8307120252 Discusses items & assignment of responsibilities needed to address NRC IE investigation draft report findings. Initial response requested by 790822 & final response by 790912.

WALLACE, E.G.       :General Public Utilities - GPU Service Corp.  
BEHRLE, W.H.       :General Public Utilities - GPU Service Corp.  
DATE ISS:79/08/08; 3pp. ,4x119454=130,001:B&W 0730 ,TN:G806

IRRELEVANT

8307120285 Transcript of a Zewe on 791115 in Harrisburg, PA before US Senate Subcommittee on Nuclear Regulation of Committee on Environ & Public Works, Pp 1-40.

ZEW, E.            :Metropolitan Edison Co.  
                  :  
DATE ISS:79/11/15; 44pp. ,4x119455=227,001:B&W 0740 ,TN:G806

6.12

8307120288 Procedures 10.4.6 & 10.4.7 re condensate polishing sys & condensate & feedwater sys.

\*                   :Idacox & Wilcox Co.  
                  :  
DATE ISS:82/05/25; 11pp. ,4x119455=299,001:B&W 0742 ,TN:G806

IRRELEVANT

8307090366 Diagram of T-1=2 Control Room Layout & Location of Critical Indications.

\*                   :General Public Utilities - GPU Service Corp.  
                  :  
DATE ISS:82/05/25; 1p. ,4x119492=187,001:B&W 0745 ,TN:G806

IRRELEVANT

8307120301 draft transcript of 790412 interview w/r Zewe.

ZEW, E.            :Metropolitan Edison Co.  
                  :  
DATE ISS:79/04/12; 67pp. ,4x119456=003,001:B&W 0748 ,TN:G806

IRRELEVANT



U. S. NUCLEAR REGULATORY COMMISSION  
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8307120304 Transcript of 790406 interview of w/w Zewe.

ZEW, w. : Metropolitan Edison Co.  
: DATE ISS: 79/04/06, 100p., 48x: 19456-125, ODI: B&W 0749, TN: GB06 IRRELEVANT

8307120319 Graph SCA=0005 from 790328.

\* : Metropolitan Edison Co.  
: DATE ISS: 79/03/28, 1p., 48x: 19504-260, ODI: B&W 0750, TN: GB06 IRRELEVANT

8307120322 "Reactor Coolant System Pressure, Saturation Pressure and Pressurizer Level."

\* : Babcock & Wilcox Co.  
: DATE ISS: 79/03/28, 1p., 48x: 19456-170, ODI: B&W 0751, TN: GB06 IRRELEVANT

8307120325 General calculations.

\* : Babcock & Wilcox Co.  
: DATE ISS: 82/05/26, 1p., 48x: 19456-171, ODI: B&W 0752, TN: GB06 IRRELEVANT

8307120332 Transcript of 790330 interview w/w Zewe.

ZEW, w. : Metropolitan Edison Co.  
: DATE ISS: 79/03/30, 90p., 48x: 19456-088, ODI: B&W 0753, TN: GB06 6.12

8307120336 Transcript of w Zewe interview on 790423-24 in Middletown, PA.

ZEW, w. : Metropolitan Edison Co.  
: DATE ISS: 79/04/24, 800p., 48x: 19456-097, ODI: B&W 0754, TN: GB06 6.12

U. S. NUCLEAR REGULATORY COMMISSION  
IRC SPECIAL REPORT

8307130323 Transcript of ACRS 230th general meeting on 790615 in Washington, DC. Pp 262-576. Transcript incomplete.

\* :ACRS = Advisory Committee on Reactor Safeguards  
: DATE ISS:79/06/15, 22pp. ,4Rx:19500-337,ODI:B&W 0760 ,TN:GB06

IRRELEVANT

8307120341 Transcript of interview w/w Zewe.

ZEW, W. :Metropolitan Edison Co.  
: DATE ISS:82/05/28, 16pp. ,4Rx:19456-177,ODI:B&W 0761 ,TN:GB06

IRRELEVANT

8307130326 Requests approval of encl Change Mod 2-0298, to connecting open light for unit 2 RCS RC=RV2 to limit switch.

SHOVLIN, D.M. :Metropolitan Edison Co.  
KLINGAMAN, R.M. :Metropolitan Edison Co.  
DATE ISS:79/01/30, 17pp. ,4Rx:19501-001,ODI:B&W 0767 ,TN:GB06

6.6, 6.12

8307090135 Category H Exam Reactory Theory.

SHERMAN, F.J. :Babcock & Wilcox Co.  
: DATE ISS:78/04/05, 64pp. ,4Rx:19453-030,ODI:B&W 0790 ,TN:GB06

IRRELEVANT

8307090139 Notes discussing heat transfer.

\* :Babcock & Wilcox Co.  
: DATE ISS:82/06/09, 7pp. ,4Rx:19453-097,ODI:B&W 0792 ,TN:GB06

IRRELEVANT

8307090170 Comments on 781120 memo re several items concerning 781107 event for consideration. No addl actions identified prior to resumption of power.

ARNOLD, R.C. :General Public Utilities - GPU Service Corp.  
HERBEIN, J.G. :General Public Utilities - GPU Service Corp.  
DATE ISS:78/11/27, 6pp. ,4Rx:19454-032,ODI:B&W 0834 ,TN:GB06

IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307090175 Forwards addl items for consideration re 781107 TMI-2 trip event.

ARNOLD, R.C. :General Public Utilities - GPU Service Corp.  
HERBEIN, J.G. :General Public Utilities - GPU Service Corp.  
DATE ISS:78/11/20, 13pp. ,48x:19454-038, ODI:B&W 0835 ,TN:GB06

IRRELEVANT

8307080687 Testimony of GA Kunder on 790511, Pp 1-36 & 1-21.

KUNDER, G.A. :Metropolitan Edison Co.  
:   
DATE ISS:79/05/11, 58pp. ,48x:19409-137, ODI:B&W 0862 ,TN:GB06

IRRELEVANT

8307120154 Resume of RC Null.

NULL, R.C. :Metropolitan Edison Co.  
:   
DATE ISS:82/07/14, 1p. ,48x:19459-138, ODI:B&W 0896 ,TN:GB06

IRRELEVANT

8307120163 Ltr summary of 740621-28.

GATTO, C.E. :Metropolitan Edison Co.  
:   
DATE ISS:74/06/21, 9pp. ,48x:19459-084, ODI:B&W 0898 ,TN:GB06

IRRELEVANT

8307120174 Presents Generation Engineering recommendations re adjustment of pressurizer discharge piping per JG Herbein 760227 request. Nothing should be done to change cold spring settings on any of three discharge lines.

BAILEY, S.H. :Metropolitan Edison Co.  
SHOVLIN, D.M. :Metropolitan Edison Co.  
DATE ISS:76/02/12, 2pp. ,48x:19459-102, ODI:B&W 0902 ,TN:GB06

IRRELEVANT

8307090340 Forwards viewgraphs presented at last prime movers committee meeting on 1/41.

WILLIAMS, R.L. :General Public Utilities - GPU Service Corp.  
HIGGINS, P. :Edison Electric Institute  
DATE ISS:79/12/06, 9pp. ,48x:19400-344, ODI:B&W 0906 ,TN:GB06

IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307090342 Forwards third draft investigative task force summary report on TMI accident. Report reflects news discussed during 791011-12 meetings. Comments requested by 791022.

KEATE, R.W. : General Public Utilities - GPU Service Corp.  
: General Public Utilities - GPU Service Corp.  
DATE ISS: 79/10/17, 77pp., 48x:19400-185, OOI: B&W 0907 , TN: G806

IRRELEVANT

8307090351 "Pressurizer, Lecture Outline."

HAWKINS, T. : Babcock & Wilcox Co.  
:   
DATE ISS: 82/08/17, 13pp., 48x:19401-126, OOI: B&W 0910 , TN: G806

IRRELEVANT

8307090355 "DHR Sys, Lecture Outline."

POJE, S.G. : Babcock & Wilcox Co.  
:   
DATE ISS: 82/08/17, 6pp., 48x:19401-083, OOI: B&W 0911 , TN: G806

IRRELEVANT

8307090359 "ESF, Shift Technical Engineer Briefing Notes."

PERRY, M.J. : Babcock & Wilcox Co.  
:   
DATE ISS: 82/08/17, 36pp., 48x:19401-089, OOI: B&W 0912 , TN: G806

6.3

8307090384 Transcript of IE interview of H Hartman on 790522.

HARTMAN, H. : General Public Utilities - GPU Service Corp.  
:   
DATE ISS: 79/05/22, 61pp., 48x:19486-275, OOI: B&W 1021 , TN: G806

IRRELEVANT

8307130382 Transcript of H Hartman 791029 deposition in Lancaster, PA by NRC Special Inquiry Group.

HARTMAN, H.W. : General Public Utilities - GPU Service Corp.  
:   
DATE ISS: 79/10/09, 59pp., 48x:19501-209, OOI: B&W 1022 , TN: G806

IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307110782 Deposition of HW Hartman on 800427 in Elizabethtown, PA.  
Pd 1-140.

HARTMAN, H.W. : Metropolitan Edison Co.  
:

DATE ISS: 80/04/27, 143pp., 4RX: 19479-050, OOI: B&W 1023 , TN: G806 IRRELEVANT

8307090389 Transcript of HW Hartman 800429 voluntary statement in  
Elizabeth, PA. Pd 141-272.

HARTMAN, H.W. : General Public Utilities - GPU Service Corp.  
:

DATE ISS: 80/04/29, 133pp., 4RX: 19486-334, OOI: B&W 1024 , TN: G806 IRRELEVANT

8307090269 Deposition of WE Zewe on 790426 in Harrisburg, PA. Pd 1-183.

ZEW, W.E. : Metropolitan Edison Co.  
:

DATE ISS: 79/07/26, 180pp., 4RX: 19488-001, OOI: B&W 4006 , TN: G806 IRRELEVANT

8307110794 Deposition of WM Zewe on 790726 in Harrisburg, PA. Pd 1-187.

ZEW, W.M. : Metropolitan Edison Co.  
:

DATE ISS: 79/07/26, 187pp., 4RX: 19479-193, OOI: B&W 4006 , TN: G806 IRRELEVANT

8307120777 Discharge line temps for 781201-790115.

\* : Babcock & Wilcox Co.  
:

DATE ISS: 83/07/12, 2pp., 4RX: 19461-322, OOI: B&W 4009 , TN: G806 IRRELEVANT

8307120780 Daily plant status report for 781201-790115.

\* : Babcock & Wilcox Co.  
:

DATE ISS: 78/12/01, 46pp., 4RX: 19461-324, OOI: B&W 4009A , TN: G806 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307120786 Discharge line temps for 790131-0327.

\* :Babcock & Wilcox Co.  
: DATE ISS:83/07/12, 2pp. ,4Rx:19462-008,ODI:B&W 4010 ,TN:GB06 IRRELEVANT

8307120790 Daily plant status report for 790131-0327.

\* :Babcock & Wilcox Co.  
: DATE ISS:79/01/31, 5pp. ,4Rx:19462-010,ODI:B&W 4010A ,TN:GB06 IRRELEVANT

8307090279 Transcript of ACRS Subcommittee on TMI-2 790606 meeting in Middletown, PA. Pp 1-192.

\* :ACRS - Advisory Committee on Reactor Safeguards  
: DATE ISS:79/06/06, 227pp. ,4Rx:19467-104,ODI:B&W 4012 ,TN:GB06 IRRELEVANT

8307120646 Submits questions re automatic valve remaining open.

ZEWEL, W.H. :Metropolitan Edison Co.  
:Metropolitan Edison Co.  
: DATE ISS:83/07/11, 3pp. ,4Rx:19462-295,ODI:B&W 4013 ,TN:GB06 IRRELEVANT

8307120750 Testimony of C Michelson on 790906 in Bethesda, MD. Pp 1-63.

MICHELSON, C. :Tennessee Valley Authority  
: DATE ISS:79/09/06, 63pp. ,4Rx:19463-061,ODI:B&W 4029 ,TN:GB06 IRRELEVANT

8307090301 Request for transfer of 2 1/2 x 4 inch press safety valve tagged RC-R2 from Unit 2 to Unit 1 to maintain commercial operation.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:74/09/26, 1p. ,4Rx:19467-333,ODI:B&W 4031 ,TN:GB06 IRRELEVANT



U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307120773 Requests written quotation for performing insp, refurbishing,  
disket replacement, assembly & testing of electromatic relief  
valve RC-RV2.

HOWARD, R.W. :General Public Utilities - GPU Service Corp.  
COX, C. :Dresser Industries, Inc.  
DATE ISS:75/11/25, 1p. ,48x:19463-149, ODI:B&W 4032 ,TN:G806 IRRELEVANT

8307120781 Summary of valve problem in RCS.

\* :Metropolitan Edison Co.  
: :  
DATE ISS:77/11/03, 1p. ,48x:19463-150, ODI:B&W 4033 ,TN:G806 IRRELEVANT

8307120630 Partial deposition of Mr Keaten on 820105 in New York, NY.

KEATEN, R.W. :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:82/01/02, 7pp. ,48x:19495-254, ODI:B&W 4035 ,TN:G806 IRRELEVANT

8307120656 Advises that following review of purchase order, sys requires  
replacement valve. Drawing for review will be sent. Valve  
design features approved.

FREET, G.W. :Dresser Industries, Inc.  
LANCE, W.C. :Metropolitan Edison Co.  
DATE ISS:79/01/25, 2pp. ,48x:19495-264, ODI:B&W 4037 ,TN:G806 IRRELEVANT

8307120664 Requests reply to 790125 ltr re design of 31533VX-30  
electromatic relief valve. Acceptability of new design  
advised.

RESSON, J. :Dresser Industries, Inc.  
LANCE, W.C. :Metropolitan Edison Co.  
DATE ISS:79/03/27, 1p. ,48x:19495-266, ODI:B&W 4038 ,TN:G806 IRRELEVANT

8307120671 Forwards Dresser Industries correspondence recommending  
design changes in spare pressurizer electromatic relief  
valve. Due to long lead time & costs, response to Dresser  
requested. n/o encl.

SIGGLITZ, R.E. :Metropolitan Edison Co.  
CRUNEBERGER, D. :Metropolitan Edison Co.  
DATE ISS:79/10/22, 1p. ,48x:19495-267, ODI:B&W 4039 ,TN:G806 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307120691 Results of tests & special operations in progress during  
780411-19, including TP 800/21 & TP 710/1 FP physics testing  
re installing steam line from MFAP to 13th stage to supply  
Fw heating & filling main generator w/hydrogen, respectively.  
MITZ, G.A. :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:78/04/19, 10pp. ,48x:19495-268,ODI:B&N 4040 ,TN:G806 IRRELEVANT

8307120700 Deposition of JB Logan on 790805 in Harrisburg, PA. Pp 113-  
116.  
LOGAN, J.B. :Metropolitan Edison Co.  
:  
DATE ISS:79/08/05, 5pp. ,48x:19495-278,ODI:B&N 4041 ,TN:G806 IRRELEVANT

8307120711 Deposition of JB Logan on 790806 in Harrisburg, PA.  
Pp 145 & 166-167.  
LOGAN, J.B. :Metropolitan Edison Co.  
:  
DATE ISS:79/08/06, 3pp. ,48x:19495-283,ODI:B&N 4042 ,TN:G806 IRRELEVANT

8307120722 Deposition of D Shovlin on 820716 in New York, NY. Pp 149-152.  
SHOVLIN, D. :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:82/07/16, 5pp. ,48x:19495-286,ODI:B&N 4043 ,TN:G806 IRRELEVANT

8307090323 Continued deposition of RC Arnold on 820630 in New York, NY.  
Pp 146 & 224-228.  
ARNOLD, R.C. :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:82/06/30, 7pp. ,48x:19487-342,ODI:B&N 4044 ,TN:G806 IRRELEVANT

8307120744 \*Reactor Building Summ.\*  
\* :Habeck & Wilcox Co.  
:  
DATE ISS:83/07/11, 1p. ,48x:19495-297,ODI:B&N 4049 ,TN:G806 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307130046 Transcript of 790525 util group discussion.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/05/25, 300. ,48x:19496-346,00I:B&W 5000AA ,TN:GB06 IRRELEVANT

8307130054 Transcript of 790525 util group discussion.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/05/25, 300. ,48x:19496-349,00I:B&W 500088 ,TN:GB06 IRRELEVANT

8307130078 Transcript of 790412 interview w/util.

\* :Director's Office, Office of Inspection and Enforcement  
: DATE ISS:79/04/12, 10. ,48x:19496-355,00I:B&W 5001AA ,TN:GB06 IRRELEVANT

8307130088 Transcript of 790406 util interview.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/04/06, 10. ,48x:19496-358,00I:B&W 5002AA ,TN:GB06 IRRELEVANT

8307130093 Transcript of 790423 interview w/util.

\* :Director's Office, Office of Inspection and Enforcement  
: DATE ISS:79/04/23, 300. ,48x:19496-361,00I:B&W 5003AA ,TN:GB06 IRRELEVANT

8307130099 Transcript of 790403 interview w/util.

\* :Director's Office, Office of Inspection and Enforcement  
: DATE ISS:79/04/03, 300. ,48x:19497-001,00I:B&W 5004AA ,TN:GB06 6.11

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8307130108 Transcript of 790403 interview w/util.

\* :Director's Office, Office of Inspection and Enforcement  
:  
DATE ISS:79/04/03, 3pp. ,48x:19497-004,ODI:B&W 500488 ,TN:GB06 IRRELEVANT

8307090337 Interview w/Frederick on 790406.

FREDERICK :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:79/04/06, 1p. ,48x:19487-356,ODI:B&W 500786 ,TN:GB06 IRRELEVANT

8307010268 "Interim Rept of TMI-2 Occurrence, Technical Review  
Committee."

\* :Babcock & Wilcox Co.  
:  
DATE ISS:79/05/25, 118pp. ,48x:19179-127,ODI:GPU 0004 ,TN:GB06 6.1, 6.12

8307010270 "Interim Rept of TMI-2 Occurrence, Technical Review  
Committee."

\* :Babcock & Wilcox Co.  
:  
DATE ISS:79/06/08, 61pp. ,48x:19179-244,ODI:GPU 0005 ,TN:GB06 6.1, 6.12

8307010274 "Final Rept of TMI-2 Occurrence, Technical Review  
Committee."

\* :Babcock & Wilcox Co.  
:  
DATE ISS:79/07/31, 234pp. ,48x:19179-316,ODI:GPU 0006 ,TN:GB06 6.1, 6.9, 6.12

8307020007 "Final Rept of TMI-2 Occurrence, Technical Review Committee."

\* :Babcock & Wilcox Co.  
:  
DATE ISS:83/06/30, 54pp. ,48x:19228-221,ODI:GPU 0007 ,TN:GB06 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307120310 Forwards response to questions re B&W rept, "Evaluation of  
Transient Behavior & Small RCS breaks in 177 Fuel Assembly  
Plant."

TAYLOR, J.H. : Babcock & Wilcox Co.  
NOVAK, T.M. : Reactor Systems Branch  
DATE ISS: 79/05/10, 4pp. , 48x: 19512-289, OOI: GPU 0008 , TN: GB06

IRRELEVANT

8307020032 Forwards info on event sequences to aid witnesses at  
hearings. Event tree constructed on fifth day of accident  
identified addl options to cold shutdown beyond WASH=1400.

WEAVER, W.W. : Babcock & Wilcox Co.  
KULYNYCH, G.E. : Babcock & Wilcox Co.  
DATE ISS: 79/04/23, 17pp. , 48x: 19228-336, OOI: GPU 0018 , TN: GB06

IRRELEVANT

8307020040 Presents Analysis Branch contribution to task group formed  
to assess protection of operating B&W plants against  
feedwater transients. Info usually provided on feedwater  
transients insufficient to show regulation compliance.

RUSZTOCZY, Z.R. : Analysis Branch  
TEDESCO, R.L. : Assistant Director for Reactor Safety  
DATE ISS: 79/04/10, 9pp. , 48x: 19228-357, OOI: GPU 0020 , TN: GB06

IRRELEVANT

8307020043 Forwards paper estimating probability of PORV sticking open  
due to loss of main feedwater or other malfunction.

WOMACK, W.A. : Babcock & Wilcox Co.  
: Babcock & Wilcox Co.  
DATE ISS: 79/07/19, 17pp. , 48x: 19229-004, OOI: GPU 0021 , TN: GB06

6.8

8307020088 Discusses use of pilot operated relief valves & ASME code  
safety valves w/water as flow media. Valves were designed &  
tested w/saturated steam as only flow media.

TACY, W. : Dresser Industries, Inc.  
DIECKAMP, H.M. : General Public Utilities - GPU Service Corp.  
DATE ISS: 80/04/01, 3pp. , 48x: 19229-046, OOI: GPU 0027 , TN: GB06

6.11

8307020092 Spec CS-3-79/HSS-6/0170 for electrically actuated relief  
valves for RCS svc.

BENETTE, M.J. : Babcock & Wilcox Co.  
:  
DATE ISS: 70/01/10, 7pp. , 48x: 19229-049, OOI: GPU 0028 , TN: GB06

IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307020105 "Safety Aspects of Muehle-Karlich Plant in View of TMI-2 Accident."

\* :Babcock & Wilcox Co.

DATE ISS:79/05/31, 300pp. ,48x:19229-061,ODI:GPU 0032 ,TN:GB06

IRRELEVANT

8307010202 Discusses proposed positions re high point vents, primary svs water level measurements & void fraction monitoring.

RAMBO,G.E. :Babcock & Wilcox Co.

TAYLOR,J.H. :Babcock & Wilcox Co.

DATE ISS:79/12/20, 17pp. ,48x:19178-107,ODI:GPU 0033 ,TN:GB06

6.25

8307070548 Submits preliminary report of Safety Concern PSC 18-79 re plant operators panel instrumentation readout limited to 2500 psia, below Tech Spec limit. Analysis concludes condition not reportable per 10CFR50.55e or 10CFR21.

TAYLOR,J.H. :Babcock & Wilcox Co.

:Babcock & Wilcox Co.

DATE ISS:79/07/05, 3pp. ,48x:19337-219,ODI:GPU 0071 ,TN:GB06

IRRELEVANT

8307070552 Submits preliminary report of Safety Concern PSC 25-79 re sequence of events identified during simulator training which could lead to saturated conditions in reactor core. Concern not reportable per 10CFR50.55e or 10CFR21.

ELLIOTT,W.S. :Babcock & Wilcox Co.

TAYLOR,J.H. :Babcock & Wilcox Co.

DATE ISS:79/09/06, 5pp. ,48x:19337-222,ODI:GPU 0072 ,TN:GB06

IRRELEVANT

8307120331 Recommends guidelines for customers re HPIG operation in light of recent events at Toledo site.

KELLY,J.J. :Babcock & Wilcox Co.

KARRASCH,B.A. :Babcock & Wilcox Co.

DATE ISS:77/11/01, 4pp. ,48x:19512-330,ODI:GPU 0076 ,TN:GB06

IRRELEVANT

8307120343 Comments on recommended change in B&W philosophy for HPI svs during low pressure transients.

HALLMAN,D.F. :Babcock & Wilcox Co.

KARRASCH,B.A. :Babcock & Wilcox Co.

DATE ISS:78/08/03, 2pp. ,48x:19512-339,ODI:GPU 0080 ,TN:GB06

IRRELEVANT



U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

- 8307120348 Minutes of 781127 meeting w/Toledo Edison Co in Lynchburg, VA re design & requirements for Davis-Besse Unit 1 auxiliary feedwater sys operation. List of attendees & meeting agenda encl.  
CARTIN, L.R. :Babcock & Wilcox Co.  
KARRASCH, B.A. :Babcock & Wilcox Co.  
DATE ISS:78/11/29, 15pp. ,4Rx:19512-341,00I:GPU 0082A ,TN:G806 IRRELEVANT
- 8307120829 Forwards preliminary draft study re small break LOCA for review & comment. Proposes meeting in Knoxville, TN to discuss entire question of very small break LOCA & resolution.  
PATTERSON, D.R. :Tennessee Valley Authority  
MCFARLAND, J. :Babcock & Wilcox Co.  
DATE ISS:78/04/27, 4pp. ,4Rx:19464-218,00I:GPU 0110 ,TN:G806 IRRELEVANT
- 8307120868 Discusses operation of high pressure injection sys during 771101 transient. Actions taken by operator correct.  
WALTERS, J.F. :Babcock & Wilcox Co.  
KELLY, J.J. :Babcock & Wilcox Co.  
DATE ISS:77/11/10, 3pp. ,4Rx:19464-314,00I:GPU 0132 ,TN:G806 IRRELEVANT
- 8307120868 Discusses operation of high pressure injection sys during 771101 transient. Actions taken by operator correct.  
WALTERS, J.F. :Babcock & Wilcox Co.  
KELLY, J.J. :Babcock & Wilcox Co.  
DATE ISS:77/11/10, 3pp. ,4Rx:19464-314,00I:GPU 0132 ,TN:G806 IRRELEVANT
- 8307120871 Site problem report re Davis-Besse 1.  
\* :Babcock & Wilcox Co.  
: :  
DATE ISS:77/10/11, 85pp. ,4Rx:19464-334,00I:GPU 0133 ,TN:G806 IRRELEVANT
- 8307020212 Submits operating instructions for stuck open PORV. PORV not used in safety analysis calculations. Increasing PORV setpoint will result in decrease in plant flexibility.  
KANE, E.R. :Babcock & Wilcox Co.  
WOMACK, E.A. :Babcock & Wilcox Co.  
DATE ISS:79/04/09, 1p. ,4Rx:19225-111,00I:GPU 0135 ,TN:G806 6.8

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

- 8307020250 Lists 10 lessons learned from TMI-2 incident. Total product, hardware, software & svcs, not adequate to prevent long duration loss of control of plant & most severe damage to core first lesson learned.  
KOSIBA, R.E. Babcock & Wilcox Co.  
MACMILLAN, J.H. Babcock & Wilcox Co.  
DATE ISS: 7/9/06/11, 2pp. , 4RX: 19225-185, OOI: GPU 0147 , TN: GB06 IRRELEVANT
- 8307080582 Lists top ten lessons learned from TMI-2.  
KOSIBA, R.E. Babcock & Wilcox Co.  
MACMILLAN, J.H. Babcock & Wilcox Co.  
DATE ISS: 7/9/06/11, 2pp. , 4RX: 19469-314, OOI: GPU 0213 , TN: GB06 6.6
- 8307080591 Requests draft task descriptions for top ten lessons learned from TMI-2 by 790618.  
ROY, D.M. Babcock & Wilcox Co.  
FAHLAND, F.R. Babcock & Wilcox Co.  
DATE ISS: 7/9/06/14, 5pp. , 4RX: 19489-318, OOI: GPU 0215 , TN: GB06 6.9, 6.12, 6.13
- 8307080729 Minutes of 791108 & 30 staff meetings to review findings & recommendations of Technical Review Committee established after TMI-2 accident.  
BALL, R.M. Babcock & Wilcox Co.  
MACMILLAN, J.H. Babcock & Wilcox Co.  
DATE ISS: 7/9/12/07, 29pp. , 4RX: 19490-014, OOI: GPU 0232 , TN: GB06 6.19
- 8307080734 Submits action/info items resulting from JH MacMillan 791130.1201 staff meeting at Nintergreen.  
KOSIBA, R.E. Babcock & Wilcox Co.  
Babcock & Wilcox Co.  
DATE ISS: 7/9/12/10, 3pp. , 4RX: 19490-044, OOI: GPU 0233 , TN: GB06 IRRELEVANT
- 8307120660 Discusses lack of prompt notification to TMI re substantial safety hazard. Proper customer notification will be provided by licensing.  
TAYLOR, J.H. Babcock & Wilcox Co.  
MACMILLAN, J.H. Babcock & Wilcox Co.  
DATE ISS: 7/8/02/10, 3pp. , 4RX: 19493-124, OOI: GPU 0254 , TN: GB06 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307080782 "Top Ten Issues Stemming From TMI."

TAYLOR, J.H. Babcock & Wilcox Co.

DATE ISS:79/06/11, 300, ,48X:19490-073,00I:GPU 0260 ,TN:GB06

IRRELEVANT

8307080785 Forwards DC Holt 800320 memo to GD Qvale which contains summary of changes that occurred in licensing area resulting from post-TMI activities during past yr.

TAYLOR, J.H. Babcock & Wilcox Co.

DATE ISS:80/03/25, 600, ,48X:19490-076,00I:GPU 0261 ,TN:GB06

IRRELEVANT

8307080788 Forwards JJ Haddell 800306 memo re B&W positions on potential NRC/ACRS questions re comparative features of Mulheim Kaerlich Plant & domestic PWRs.

TAYLOR, J.H. Babcock & Wilcox Co.

DATE ISS:80/03/18, 1800, ,48X:19490-082,00I:GPU 0263 ,TN:GB06

IRRELEVANT

8307080790 Responds to 790914 request for info re probability studies by B&W. Probability analysis on failure of PORV to reclose based on historical reactor trip & turbine trip data.

TAYLOR, J.H. Babcock & Wilcox Co.

FRALEY, R.F. IACHS - Advisory Committee on Reactor Safeguards

DATE ISS:79/12/10, 200, ,48X:19490-100,00I:GPU 0265 ,TN:GB06

6.22

8307080795 Discusses design of pressurizer safety valves. Recommends that PORV be eliminated from valve arrangement. Unlikely that safety valves will be required to lift.

BUTT, W.C. Babcock & Wilcox Co.

DATE ISS:87/06/22, 800, ,48X:19490-105,00I:GPU 0267 ,TN:GB06

IRRELEVANT

8307090059 "Potential Lessons to be Learned From TMI-2."

LABELLE, D.W. Babcock & Wilcox Co.

DATE ISS:79/05/25, 200, ,48X:19490-225,00I:GPU 0287 ,TN:GB06

IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307090066 Responds to 790405 questions re analyses of LUMFW flow for 177 & 205 PA plants based on analytical results obtained from CADDIS simulation studies of TMI-2 event.

LABELLE, D.W. :Babcock & Wilcox Co.  
ROY, D.H. :Babcock & Wilcox Co.  
DATE ISS:79/04/30, 400. ,48x:19490-227,00I:GPU 0288 ,TN:G806 6.8

8307090093 Discusses problem of once-through steam generator dry out in 1-2 minutes following loss of feedwater. New safety criteria requiring all plants to have turbine trip initiated by loss of feedwater indication recommended solution.

LABELLE, D.W. :Babcock & Wilcox Co.  
WOMACK, E.A. :Babcock & Wilcox Co.  
DATE ISS:79/05/08, 10. ,48x:19490-296,00I:GPU 0293 ,TN:G806 IRRELEVANT

8307090097 Comments on proposed A/S paper. Reader must work too hard to get message.

\* :Babcock & Wilcox Co.  
LABELLE, D.W. :Babcock & Wilcox Co.  
DATE ISS:80/01/08, 900. ,48x:19490-297,00I:GPU 0294 ,TN:G806 IRRELEVANT

8307090101 Summarizes Pressurizer Level Investigation/Instruction 196. Potential sources of measurement error examined & simulations of accident run.

FAIRBROTHER, D. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:79/04/12, 2800. ,48x:19490-306,00I:GPU 0295 ,TN:G806 IRRELEVANT

8307090104 Requests review of proposed operating instruction re pressurizer relief valve. Procedure should be implemented for all operating reactors if approved.

SWANSON, E.W. :Babcock & Wilcox Co.  
KANE, E.H. :Babcock & Wilcox Co.  
DATE ISS:79/04/05, 10. ,48x:19490-334,00I:GPU 0296 ,TN:G806 IRRELEVANT

8307090121 "Review of Sequence of Events Leading to Incident at TMI-2 on 790328."

LABELLE, D.W. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:81/06/04, 1300. ,48x:19490-344,00I:GPU 0300 ,TN:G806 6.8

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307090124 Comments on 790529 memo re plant computer post-trip requirements.

FAIRBROTHER, D. :Babcock & Wilcox Co.  
LUTZ, R. I. :Babcock & Wilcox Co.  
DATE ISS: 79/06/11, 400. , 48X: 19490-357, OOI: GPU 0301 , TN: G806 6.13

8307090127 Advises that preliminary safety concern re reliability of ESFAS II discussed in DW LaBelle 791207 memo has been closed out.

TAYLOR, J. M. :Babcock & Wilcox Co.  
WOMACK, E. A. :Babcock & Wilcox Co.  
DATE ISS: 80/04/25, 200. , 48X: 19490-361, OOI: GPU 0302 , TN: G806 IRRELEVANT

8307090131 Provides info to be used in preparation of report describing safety aspects of Muelheim-Kaerlich Plant compared to TMI-2 accident.

BOHART, J. R. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS: 79/05/02, 500. , 48X: 19491-001, OOI: GPU 0303 , TN: G806 IRRELEVANT

8307090141 Understands that small group of key designers organized to review SMUD rapid cooldown transient & develop what could have been or could be done to reduce likelihood or limit consequences of recurrence.

WOMACK, E. A. :Babcock & Wilcox Co.  
KARRASCH, B. A. :Babcock & Wilcox Co.  
DATE ISS: 78/08/21, 1000. , 48X: 19491-016, OOI: GPU 0308 , TN: G806 IRRELEVANT

8307120825 "DHR During Very Small Break LUCA for B&W 205-Fuel-Assembly PWR."

MICHELSON, C. :General Public Utilities - GPU Service Corp.  
:  
DATE ISS: 78/01/31, 3400. , 48X: 19494-001, OOI: GPU 0323 , TN: G806 IRRELEVANT

8307020156 "DHR During Very Small Break LOCA for B&W 205-Fuel-Assembly PWR."

MICHELSON, C. :NRC - No Detailed Affiliation Given  
:  
DATE ISS: 78/01/31, 3600. , 48X: 19224-132, OOI: GPU 0324 , TN: G806 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307060484 Forwards scoping plans & schedules for responding to TMI-2 concerns, tasks on verification of as-built data & high point venting.

KARRASCH, B.A. :Babcock & Wilcox Co.  
FAHLAND, F.R. :Babcock & Wilcox Co.  
DATE ISS:79/06/13, 7pp. ,48x:19302-153, ODI:GPU 0382 ,TN:GB06 6.25

8307060505 Summits monthly activities report for Oct 1978.

KARRASCH, B.A. :Babcock & Wilcox Co.  
MUMACK, E.A. :Babcock & Wilcox Co.  
DATE ISS:78/10/31, 5pp. ,48x:19302-187, ODI:GPU 0389 ,TN:GB06 IRRELEVANT

8307060507 Monthly activities report for Aug 1978.

KARRASCH, B.A. :Babcock & Wilcox Co.  
MUMACK, E.A. :Babcock & Wilcox Co.  
DATE ISS:78/09/01, 4pp. ,48x:19302-192, ODI:GPU 0390 ,TN:GB06 IRRELEVANT

8307060528 Part 21 report re visual linear defects in ASME III Class 2 core flooding sys isolation valve & unacceptable indications in six ASME III Class 1 decay heat sys isolation valves at WPPSS. Cause will be investigated.

TAYLOR, J.H. :Babcock & Wilcox Co.  
MACMILLAN, J.H. :Babcock & Wilcox Co.  
DATE ISS:79/12/13, 6pp. ,48x:19302-216, ODI:GPU 0398 ,TN:GB06 IRRELEVANT

8307120706 Forwards recommendation for PORV position indicator. Methods should be tested in lab simulating actual plant installation.

CASTANES, J.A. :Babcock & Wilcox Co.  
KANE, E.R. :Babcock & Wilcox Co.  
DATE ISS:79/05/22, 8pp. ,48x:19461-009, ODI:GPU 0399 ,TN:GB06 6.12

8307120710 Resume of JD Phinney.

PHINNEY, J.D. :Babcock & Wilcox Co.  
DATE ISS:82/01/13, 3pp. ,48x:19461-017, ODI:GPU 0403 ,TN:GB06 IRRELEVANT



U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307120717 Submits weekly rept for 731229-740104 re site activities.

PHINNEY, J.D. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:74/01/04, 18pp. ,4RX:19461-020,ODI:GPU 0411 ,TN:GB06 6.11

8307060574 Submits addl info to Rev 0 of B&W Field Change Package  
NSS-5-183 re mod to installed electromatic relief valve  
RC-RV2. Dresser Corp will supply required hardware &  
personnel to implemet change.

ROGERS, L.C. :Babcock & Wilcox Co.  
HERBEIN, J.G. :Metropolitan Edison Co.  
DATE ISS:76/12/07, 2pp. ,4RX:19302-315,ODI:GPU 0412 ,TN:GB06 IRRELEVANT

8307060578 Submits weekly status rept for wk ending 731228.

PHINNEY, J.D. :Babcock & Wilcox Co.  
BEACH, H.R. :Babcock & Wilcox Co.  
DATE ISS:74/01/02, 2pp. ,4RX:19302-317,ODI:GPU 0413 ,TN:GB06 IRRELEVANT

8307060628 Discusses basis of site advisory to select 20 minute  
restriction on securing HPI. Restriction selected due to  
small cold leg breaks leading to premature indications of  
stabilized condition & insufficient HPI.

BRAZILL, G.J. :Babcock & Wilcox Co.  
HAM, R.E. :Babcock & Wilcox Co.  
DATE ISS:79/04/17, 1p. ,4RX:19340-005,ODI:GPU 0422 ,TN:GB06 IRRELEVANT

8307060640 Discusses site instructions issued to operating plants re  
TMI=2 accident. Info will be used in ACRS presentation. List  
of instructions & corresponding dates sent to plants encl.

HALLMAN, D.F. :Babcock & Wilcox Co.  
KANE, E.R. :Babcock & Wilcox Co.  
DATE ISS:79/05/23, 3pp. ,4RX:19340-011,ODI:GPU 0427 ,TN:GB06 IRRELEVANT

8307060645 Resume of B&W senior engineer RK Kennedy.

\* :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:82/01/27, 1p. ,4RX:19340-016,ODI:GPU 0430 ,TN:GB06 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

- 8307060646 Forwards NRC 770930 ltr to util & B&W 771005 & 07 ltrs re depressurization incident at Davis-Besse. Assigned responsibility & suggested content of sections for incident report inout submitted, NA for man & computer hours requested.  
LAUER, J.A. :Babcock & Wilcox Co.  
DAVIS, R.H. :Babcock & Wilcox Co.  
DATE ISS:77/10/11, 7pp. ,48x:19340-017,ODI:GPU 0431 ,TN:G806 IRRELEVANT
- 8307060649 Forwards 771005 results of 771003 checkout of reactor coolant pumps, 771007 results of 771005 operational checkout & outline of 770924 incident re reactor trip at Davis-Besse. Increase in vertical vibration caused by loose connector.  
DEMPSEY, J.D. :Babcock & Wilcox Co.  
LAUER, J.A. :Babcock & Wilcox Co.  
DATE ISS:77/10/18, 8pp. ,48x:19340-039,ODI:GPU 0432 ,TN:G806 IRRELEVANT
- 8307060651 Outline of "Mixed Flow Test - RC Pumps." Rept will prove capability of pumps to operate within emergency limits under mixed flow conditions.  
STANEK, L.J. :Babcock & Wilcox Co.  
DATE ISS:77/06/15, 2pp. ,48x:19340-047,ODI:GPU 0433 ,TN:G806 IRRELEVANT
- 8307060654 Comments on effect of reactor coolant pump startup under small break LOCA conditions. Proof not conclusive that startup during small break LOCA will occur w/o difficulty. Most info suggests no effect. Calculations of test encl.  
CUDLIN, J.J. :Babcock & Wilcox Co.  
DUNN, B.M. :Babcock & Wilcox Co.  
DATE ISS:79/05/04, 6pp. ,48x:19340-056,ODI:GPU 0435 ,TN:G806 IRRELEVANT
- 8307070014 Summarizes problems in small break operating guidelines & proposes program to rectify problems re reactor coolant pumps. Proposal will be submitted in Mar 1980 if funded in Jan 1980. Rejected 790502 proposal on emergency limits encl.  
KARRASCH, B.A. :Babcock & Wilcox Co.  
HAM, R.E. :Babcock & Wilcox Co.  
DATE ISS:80/01/21, 15pp. ,48x:19340-066,ODI:GPU 0438 ,TN:G806 IRRELEVANT
- 8307070028 Recommends that B&W site residents should be requested to submit immediately notification of PORV operation situations. Promot feedback to JD Carlson requested.  
TAYLOR, J.H. :Babcock & Wilcox Co.  
ELLISON, K.R. :Babcock & Wilcox Co.  
DATE ISS:79/06/08, 1p. ,48x:19340-083,ODI:GPU 0441 ,TN:G806 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307070035 Tech Spec 1079/NSS-14/0370, "Electrically Actuated Relief Valves for RCS Svc." Includes 710531 Tech Spec change to valve tabulation sheet.

\* :Babcock & Wilcox Co.

DATE ISS:70/03/18, 11pp. ,48x:19340-088,001:GPU 0443 ,TN:GB06

IRRELEVANT

8307070040 Responds to 790416 request for estimates of duty requirements for electromagnetic relief valve. Info obtained from review of RCS general functional specs re design transients submitted. Tabulation of requested data encl.

PARK, R.B. :Babcock & Wilcox Co.

LEE, D.E. :Babcock & Wilcox Co.

DATE ISS:79/06/13, 3pp. ,48x:19340-099,001:GPU 0444 ,TN:GB06

IRRELEVANT

8307120772 Handwritten report, "DMH Problems Associated w/Recovery From Very Small Break LUCA for B&W 205 Fuel Assembly PWR."

\* :Babcock & Wilcox Co.

DATE ISS:77/09/01, 73pp. ,48x:19461-109,001:GPU 0471 ,TN:GB06

IRRELEVANT

8307120779 Forwards draft report re ECCS small break LUCA analysis for review.

PATTERSON, D.R. :Tennessee Valley Authority

MCFARLAND, J. :Babcock & Wilcox Co.

DATE ISS:78/04/27, 41pp. ,48x:19461-182,001:GPU 0472 ,TN:GB06

IRRELEVANT

8307120784 "Typical B&W 205 - Fuel Assembly PWR Reactor Coolant Loop."

\* :Babcock & Wilcox Co.

DATE ISS:83/07/12, 2pp. ,48x:19461-223,001:GPU 0478 ,TN:GB06

IRRELEVANT

8307130223 Forwards topical report evaluation of Rev 1 to BAW-10062, Rev 1 to BAW-10074 & Rev 1 to BAW-10075. Reports acceptable for referencing in licensing actions, w/exception of BAW-10075 plant.

\* :NRC - No Detailed Affiliation Given

SURRKE, K.E. :Babcock & Wilcox Co.

DATE ISS:76/01/08, 4pp. ,48x:19503-222,001:GPU 0473 ,TN:GB06

IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

- 8307130176 Submits clarification re small break LOCA analysis  
N4M-2-14(AH), in response to 790125 ltr. Appropriate  
explanation for not requiring "thermal balance" requested by  
790315.  
PATTERSON, D.R. :Tennessee Valley Authority  
MCFARLAND, J. :Babcock & Wilcox Co.  
DATE ISS:79/02/28, 2pp. ,RHx:19503-273,00I:GPU 0476 ,TN:G806 IRRELEVANT
- 8307060458 Summary of 781204 telephone conference w/B&W re ECCS Small  
Break Analysis N4M-2-14 - response to K-5020.  
SIMMONS, R.L. :Tennessee Valley Authority  
:Tennessee Valley Authority  
DATE ISS:79/08/03, 4pp. ,RHx:19340-241,00I:GPU 0480 ,TN:G806 IRRELEVANT
- 8307060518 Compares B&W & TVA positions following 781204 telcon on  
small break LOCA analysis. B&W failed to evaluate Michelson  
root in sufficient detail to respond to TVA 781204 telcon  
questions.  
\* :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:79/09/03, 3pp. ,RHx:19340-248,00I:GPU 0482 ,TN:G806 IRRELEVANT
- 8307060520 Response to questions re effect of double-ended rupture of  
up to three tubes during LOCA on capability to reflood &  
cool core per 10CFR50.400 k requirements.  
\* :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:77/11/30, 11pp. ,RHx:19340-251,00I:GPU 0484 ,TN:G806 IRRELEVANT
- 8307130197 Procedure 67-1003781-00 "Plant Limits & Precautions."  
HARRIS, B. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:78/01/30, 172pp. ,RHx:19504-001,00I:GPU 0485 ,TN:G806 IRRELEVANT
- 8307060524 "Nuclear Site Site Ofc Rept 59 for 770916-1009."  
FAIST, F. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:77/10/10, 5pp. ,RHx:19340-264,00I:GPU 0487 ,TN:G806 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307060526 Summary of 770928 meeting w/dechtel, B&W & NRC at Davis-  
Besse site re 770924 accident.

\* :Toledo Edison Co.  
:Toledo Edison Co.  
DATE ISS:77/09/28, 500, ,48X:19340-269,ODI:GPU 0488 ,TN:GB06 IRRELEVANT

8307060532 Forwards RO re 750613 electromatic relief valve  
malfunction due to lever pin, lever hinge & solenoid bracket  
corrosion. Manual/visual checks for freedom of valve motion  
should be performed.

WANDLING, G.K. :Babcock & Wilcox Co.  
ROGERS, L.C. :Babcock & Wilcox Co.  
DATE ISS:75/07/15, 10, ,48X:19340-274,ODI:GPU 0489 ,TN:GB06 IRRELEVANT

8307060540 Advises that periodic insps for corrosion products of  
pressurizer electromatic relief valve PSV-RC 2, in areas  
of solenoid bracket, link pins & lever & manual/visual checks  
for freedom of motion, necessary to prevent malfunction.

BAKER, R.J. :Babcock & Wilcox Co.  
EVANS, J.G. :Toledo Edison Co.  
DATE ISS:75/07/31, 10, ,48X:19340-276,ODI:GPU 0490 ,TN:GB06 IRRELEVANT

8307060547 Forwards Site Problem Rept 386 re electromatic relief valve  
mod. Mod required due to binding condition causing pilot  
valve stem to stick open due to close tolerance. Pilot  
valve stem diameter reduced.

\* :Babcock & Wilcox Co.  
KLEIN, S.H. :Babcock & Wilcox Co.  
DATE ISS:78/03/27, 1000, ,48X:19340-277,ODI:GPU 0491 ,TN:GB06 IRRELEVANT

8307060589 Discusses pressurizer sys failure - stuck open spray valve.  
Emergency Procedure EP-2202-1.5 should be revised to  
incorporate response actions to valve failure. Unit 1  
procedure should be revised since procedure in error.

SHETLER, J.K. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:76/01/08, 300, ,48X:19340-337,ODI:GPU 0504 ,TN:GB06 IRRELEVANT

8307060593 Forwards draft Rev 0 to Emergency Procedure EP 2202-1.3,  
"Loss of Reactor Coolant/RCS Pressure," for review &  
comment.

ROGERS, L.C. :Babcock & Wilcox Co.  
HILBISH, J.F. :Metropolitan Edison Co.  
DATE ISS:76/02/20, 2500, ,48X:19340-340,ODI:GPU 0505 ,TN:GB06 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

- 8307060598 Summarizes Pressurizer Level Investigation/Instruction 196.  
Memos re pressurizer level measurement, surge line  
configuration & design criteria & level error evaluation,  
encl.  
FAIRBROTHER, D. :Babcock & Wilcox Co.  
CARLTON, J. D. :Babcock & Wilcox Co.  
DATE ISS:79/04/12, 29pp. ,48X:19341-003, ODI:GPU 0507 ,TN:GB06 IRRELEVANT
- 8307070382 Discusses near-term design improvements identified in 790416  
meeting w/ACRS. Mods will provide operators w/more positive  
indication of PORV position & saturated temp condition  
indicator for RCS.  
MACMILLAN, J. H. :Babcock & Wilcox Co.  
DENTON, H. K. :Office of Nuclear Reactor Regulation, Director  
DATE ISS:79/04/26, 1p. ,48X:19341-109, ODI:GPU 0534 ,TN:GB06 6.12, 6.25
- 8307070401 Discusses top 10 lessons learned from TMI-2 accident.
- BERGER, D. W. :Babcock & Wilcox Co.  
MACMILLAN, J. H. :Babcock & Wilcox Co.  
DATE ISS:79/06/05, 10pp. ,48X:19341-112, ODI:GPU 0536 ,TN:GB06 6.25
- 8307070430 Summary of 790723 meeting w/Duke Power Co re B&W NSSS,  
including nuclear & fossil operations, integrated control  
sys, feedwater sys & once-through steam generators.  
ESLEECK, S. H. :Babcock & Wilcox Co.  
EMBNEY, N. S. :Babcock & Wilcox Co.  
DATE ISS:79/07/30, 8pp. ,48X:19341-239, ODI:GPU 0540 ,TN:GB06 6.25
- 8307070447 Forwards surveillance instructions sent to customers re  
previous PORV failures.
- HALLMAN, D. F. :Babcock & Wilcox Co.  
MULLIN, J. G. :Babcock & Wilcox Co.  
DATE ISS:79/09/10, 9pp. ,48X:19341-257, ODI:GPU 0544 ,TN:GB06 IRRELEVANT
- 8307130356 Resume of RL Pittman.
- PITTMAN, R. L. :Babcock & Wilcox Co.  
DATE ISS:83/07/13, 2pp. ,48X:19503-361, ODI:GPU 0572 ,TN:GB06 IRRELEVANT



U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

- 8307060608 Informs that ECCS analysis finds 2-ft level adequate when fed by main feedwater. Response valid for 2 & 3 pump operation. Internal memo from 781128 re interim operating instructions encl.  
DUNN, B.M. : Babcock & Wilcox Co.  
SWANSON, E. : Babcock & Wilcox Co.  
DATE ISS: 78/11/22, 3pp. , 48x: 19343-133, ODI: GPU 0593 , TN: G806 IRRELEVANT
- 8307060611 Requests advice on whether Instruction Action Item 240 re stuck open PORV should be reopened & items assigned to revise procedure. Internal memos from 790409 encl.  
STANEK, L.J. : Babcock & Wilcox Co.  
KONE, E.D. : Babcock & Wilcox Co.  
DATE ISS: 79/04/10, 3pp. , 48x: 19343-136, ODI: GPU 0594 , TN: G806 IRRELEVANT
- 8307060613 Forwards revised general arrangement drawings determining location of level nozzles & measurement range.  
BURRIS, J.W. : Babcock & Wilcox Co.  
RYAN, F. : Babcock & Wilcox Co.  
DATE ISS: 74/09/20, 4pp. , 48x: 19343-139, ODI: GPU 0596 , TN: G806 IRRELEVANT
- 8307060625 Rev 1 to "Reactivity Calculation."  
HOYT, K.K. : General Public Utilities - GPU Service Corp.  
DATE ISS: 77/09/08, 4pp. , 48x: 19343-146, ODI: GPU 0599 , TN: G806 IRRELEVANT
- 8307060488 Possible Significant Deficiency PSC 8-77 re conflict between Tech Spec & startup procedures. Units w/ seal welded feedwater nozzles have startup procedures that require nozzles to be flooded up to 5% power.  
TAYLOR, J.W. : Babcock & Wilcox Co.  
MCKINNEY, A.L. : Babcock & Wilcox Co.  
DATE ISS: 77/06/08, 2pp. , 48x: 19343-218, ODI: GPU 0607 , TN: G806 IRRELEVANT
- 8307120798 Suppl RD NP-32-77-161nn 770924, series of events occurred, resulting in depressurization of primary sys from normal pressure. Caused by steam feedwater rupture control sys spurious half trip.  
MURRAY, T.O. : Toledo Edison Co.  
KEPPLER, J.G. : Region 3, Office of Director  
DATE ISS: 77/11/14, 58pp. , 48x: 19494-103, ODI: GPU 2006 , TN: G806 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

- 8307120819 Facility change request re provision of indication lights in control room to indicate valve or valve lever condition & automatic closure of isolation valve WC=11. Drawings & external ltrs encl.  
STALTER, G. : Toledo Edison Co.  
DATE ISS: 77/09/27, 59pp., 48x:19494-168, OOI:GPU 2008, TN:G806 6.12
- 8307120823 Informs of review of available data re 770924 transient in which reactor coolant pressure dropped. No degradation of safety considered & facility may be operated as designed.  
LAZAR, A.M. : Babcock & Wilcox Co.  
DOMECK, C.H. : Toledo Edison Co.  
DATE ISS: 77/10/05, 2pp., 48x:19494-227, OOI:GPU 2009, TN:G806 IRRELEVANT
- 8307070264 Forwards LHM 77-01b/01T=0 & supplemental info sheet.  
EVANS, J. : Toledo Edison Co.  
KEPPLE, J.G. : Region 3, Chicago, Office of the Director  
DATE ISS: 77/10/07, 1p., 48x:19367-001, OOI:GPU 2010, TN:G806 IRRELEVANT
- 8307120828 Responds to 771006 telcon requesting addl info re basis of conclusions concerning review data of 770924 depressurization event. Considerations which conclusions based on listed.  
LAZAR, A.M. : Babcock & Wilcox Co.  
DOMECK, C.H. : Toledo Edison Co.  
DATE ISS: 77/10/07, 3pp., 48x:19494-229, OOI:GPU 2011, TN:G806 IRRELEVANT
- 8307120833 Provides writeups to substantiate conclusions bwt=1578 & 1579 in 771005 & 07 ltrs, re 770924 depressurization event. Categories in write ups listed.  
LAZAR, A.M. : Babcock & Wilcox Co.  
DOMECK, C.H. : Toledo Edison Co.  
DATE ISS: 77/11/01, 32pp., 48x:19494-232, OOI:GPU 2012, TN:G806 IRRELEVANT
- 8307120837 Supplementals 771101 ltr re input for rept concerning 770924 depressurization event. Write up evaluating reactor coolant components encl.  
LAZAR, A.M. : Babcock & Wilcox Co.  
DOMECK, C.H. : Toledo Edison Co.  
DATE ISS: 77/11/07, 4pp., 48x:19494-264, OOI:GPU 2013, TN:G806 IRRELEVANT

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8307120850 Procedure PP 1101.01 "Nuclear Steam Supply Sys Limit & Precautions."

LINGENFELTER, J.: Toledo Edison Co.

DATE ISS: 74/11/14, 7100, ,48X119494=315,001:GPU 2016 ,TN:G806 IRRELEVANT

8307120792 Emergency Procedure EP 1202.04, "Reactor Trip," nuclear safety-related.

LINGENFELTER, J.: Toledo Edison Co.

DATE ISS: 74/04/20, 1100, ,48X119502=332,001:GPU 2020 ,TN:G806 IRRELEVANT

8307070281 Timed print out of sequence of events.

\* : General Public Utilities - GPU Service Corp.

DATE ISS: 77/09/24, 3400, ,48X119338=074,001:GPU 2021 ,TN:G806 IRRELEVANT

8307120879 Forwards B&W Users Group 781004-05 meeting minutes re onced-through steam generator tube problem, control rod drive mechanism stator program, incore detector experience & plant experience repts. Next B&W group meeting on 790509 & 10.

COBB, W.A. : Babcock & Wilcox Co.

SMITH, J.E. : Duke Power Co.

DATE ISS: 79/02/26, 4500, ,48X119503=038,001:GPU 2033 ,TN:G806 IRRELEVANT

8307070308 Recommends all ethylene-propylene O-rings be replaced w/silicone O-rings during next refueling outage. Insp of stator full-jar bushings emphasized. Procedures for vacuum drying of stators & pre-installation preparation encl.

ROGERS, L.C. : Babcock & Wilcox Co.

LAWLER, L.L. : Metropolitan Edison Co.

DATE ISS: 78/03/20, 700, ,48X119338=160,001:GPU 2039 ,TN:G806 IRRELEVANT

8307120923 Forwards "Current Events - Power Reactors, Sept-Oct 1977," for review for test program & design mod requirements for Unit 2. Review indicates no action required.

TOOLE, R.J. : General Public Utilities - GPU Service Corp.

HEWARD, R.W. : General Public Utilities - GPU Service Corp.

DATE ISS: 78/01/15, 200, ,48X119503=117,001:GPU 2043 ,TN:G806 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307120948 Time vs pressure graph of reactor trip & cooldown on 720423.

\*                    General Public Utilities - GPU Service Corp.  
1  
DATE 188178/04/23, 10, ,48X119503=184.001:GPU 2053 ,TN1G806 IRRELEVANT

8307110725 Rev 4 to Operating Procedure 2101-1.1 for TMI-2, "Nuclear  
Plant Limits & Precautions."

\*                    Idacocks & Wilson Co.  
1  
DATE 188178/08/08, 7200, ,48X119485=179.001:GPU 2049 ,TN1G806 IRRELEVANT

8307110318 Forwards Zewe review of control room alarms vs Tech Spec  
setpoints. Alarm setpoint adjustment to Tech Spec  
conservative requirements requested. Due date on 781201.

SEELINGER, J.L.    General Public Utilities - GPU Service Corp.  
PORTER, J.        General Public Utilities - GPU Service Corp.  
DATE 188178/11/05, 700, ,48X119483=294.001:GPU 2067 ,TN1G806 IRRELEVANT

8307080017 Transcript of President's Commission on Accident at TMI  
third meeting on 790510 in Washington, DC. Pp 1-210, w/o  
Pp 5-112.

\*                    President's Commission on the Accident at Three Mile Island  
1  
DATE 188179/05/30, 10300, ,48X119338=209.001:GPU 2069 ,TN1G806 IRRELEVANT

8307110323 Discusses 771019 incident re water in instrument air lines  
at condensate polisher control panel & regeneration skid  
resulting in loss of feedwater condition. Cause not  
determined. Corrective actions to prevent recurrence listed.

\*                    Metropolitan Edison Co.  
MILLER, G.P.      Metropolitan Edison Co.  
DATE 188177/11/14, 400, ,48X119403=307.001:GPU 2070 ,TN1G806 IRRELEVANT

8307110327 Jan Ticket C1137 (work request) for RC=RV=1A replacement  
due to leakage.

\*                    General Public Utilities - GPU Service Corp.  
1  
DATE 188179/02/09, 500, ,48X119483=311.001:GPU 2072 ,TN1G806 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307080039 Informs of B&W request to minimize all 2 pump RCS operations. Pump operation determined to be probable cause of excessive wear of orifice rods at Davis-Besse. Restriction of RCS operations requested. n/780522 memo from B&W.  
FLOYD, J.R. :Metropolitan Edison Co.  
:Metropolitan Edison Co.  
DATE ISS:78/05/25, 4pp. ,48x:19338-313, ODI:GPU 2073 ,TN:G806 IRRELEVANT

8307110349 "TMI-2 Annotated Sequence of Events, 790328."  
  
VAN WITBECK, T. :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:81/02/06, 152pp. ,48x:19483-340, ODI:GPU 2079 ,TN:G806 IRRELEVANT

8307120001 "Control Room Computer Alarm for 790328-29."  
  
\* :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:79/03/28, 130pp. ,48x:19463-269, ODI:GPU 2084 ,TN:G806 IRRELEVANT

8307120675 "Discharge Line Temp for 781201 - 790115."  
  
\* :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:79/01/15, 3pp. ,48x:19499-314, ODI:GPU 2095 ,TN:G806 IRRELEVANT

8307120661 "Discharge Line Temp for 790131-0327."  
  
\* :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:79/03/27, 2pp. ,48x:19499-317, ODI:GPU 2096 ,TN:G806 IRRELEVANT

8307120884 Forwards work completed in May 1979, investigating methods of detecting operation of PURV.  
  
ROBERTS, R.C. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:79/06/11, 23pp. ,48x:19499-319, ODI:GPU 2097 ,TN:G806 6.12

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307120888 "Steam Tables: Properties of Saturated & Superheated Steam  
From 0.08865 to 15,500 lb Per Square Inch Absolute  
Pressure."

\* : General Public Utilities - GPU Service Corp.

DATE ISS: 83/07/12, 5pp., 48x: 19499-344, OOI: GPU 2098, TN: G806

IRRELEVANT

8307120891 RCS temp & pressure determination of saturation from RCS  
wide range pressure & TAVE charts from 790328.

ZEW, W.H. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/11/30, 1p., 48x: 19499-349, OOI: GPU 2099, TN: G806

IRRELEVANT

8307080071 Forwards IE Insp Repts 50-289/78-23 & 50-320/78-36 on  
781204-08 & 12-14 & notice of violation.

BRUNNER, E.J. : Region 1, Philadelphia, Reactor Operations Nuclear Support

HERBEIN, J.G. : Metropolitan Edison Co.

DATE ISS: 79/01/09, 2pp., 48x: 19358-066, OOI: GPU 2103, TN: G806

6.19

8307080104 Forwards IE Insp Repts 50-289/79-01 & 50-320/79-01 on  
790108-11. No noncompliance noted.

BRUNNER, E.J. : Region 1, Philadelphia, Reactor Operations Nuclear Support

HERBEIN, J.G. : Metropolitan Edison Co.

DATE ISS: 79/01/29, 2pp., 48x: 19339-107, OOI: GPU 2105, TN: G806

IRRELEVANT

8307080127 Forwards IE Insp Rept 50-320/79-02 on 790130-31. No  
noncompliance noted.

BRUNNER, E.J. : Region 1, Philadelphia, Reactor Operations Nuclear Support

HERBEIN, J.G. : Metropolitan Edison Co.

DATE ISS: 79/02/07, 2pp., 48x: 19339-121, OOI: GPU 2106, TN: G806

IRRELEVANT

8307080355 Forwards IE Insp Repts 50-289/79-06 & 50-320/79-07 on  
790319-23 & 26. No noncompliance noted.

BRUNNER, E.J. : Region 1, Philadelphia, Reactor Operations Nuclear Support

HERBEIN, J.G. : Metropolitan Edison Co.

DATE ISS: 79/04/20, 2pp., 48x: 19339-142, OOI: GPU 2108, TN: G806

IRRELEVANT



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NRC SPECIAL REPORT

8307080372 "Investigation of Tri-2 Pressurizer PURV Discharge Pipe  
Temos."

SHELL, J.P. :General Public Utilities - GPU Service Corp.  
:

DATE ISS:80/02/28, 52pp. ,48x:19339-154,001:GPU 2109 ,TN:GB06

IRRELEVANT

8307050470 Engineering change memo re Rev 1 to Procedure S-5934  
concerning signal light.

\* :Burns & Roe Co.  
:

DATE ISS:78/04/17, 5pp. ,48x:19231-058,001:GPU 2174 ,TN:GB06

6.12

8307120939 B&R reviewed electronic relief valve logic. Switch S-1  
should be in deenergized position to alleviate condition re  
valve position on loss of power. Control room indicating  
light, operated from power to solenoid, can be added.

TOOLE, R. :General Public Utilities - GPU Service Corp.  
:

DATE ISS:78/04/03, 3pp. ,48x:19500-302,001:GPU 2177 ,TN:GB06

IRRELEVANT

8307120947 Transcript of TF Scott deposition in New York, NY, Pp  
85-100.

SCOTT, T.F. :Babcock & Wilcox Co.  
:

DATE ISS:82/04/30, 17pp. ,48x:19500-312,001:GPU 2181 ,TN:GB06

IRRELEVANT

8307120953 Submits recommendations resulting from technical evaluation  
of MPI fluid sys upgrade.

\* :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.

DATE ISS:83/07/12, 5pp. ,48x:19500-332,001:GPU 2201 ,TN:GB06

IRRELEVANT

8307120839 Forwards "ECCS Analysis Unit Activities Rept, Dec 1978."

DUNN, B. :Babcock & Wilcox Co.

WDMACK, E.A. :Babcock & Wilcox Co.

DATE ISS:79/01/02, 3pp. ,48x:19497-019,001:GPU 2202 ,TN:GB06

IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
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8307120846 Recommends reduction of natural circulation level setpoint to 50% on operator range.

ROGERS, L.C. :Babcock & Wilcox Co.  
HERBAIN, J.G. :Metropolitan Edison Co.  
DATE ISS:74/07/31, 1p. ,48x:19497-022, ODI:GPU 2208 ,TN:GB06 IRRELEVANT

8307020254 "Analysis of TMI-2 Accident w/Continuous Operation of Reactor Coolant Pumps."

\* :General Public Utilities - GPU Service Corp.  
: ,TN:GB06 IRRELEVANT  
DATE ISS:82/12/31, 22pp. ,48x:19222-023, ODI:GPU 2213

8307120876 Submits final results of preliminary svcs analysis, Task 27 as input to mechanical stress assessment of hardware components. All RCS mass inventory & energy conserved during core uncover & refill.

HIATT, R.M. :Babcock & Wilcox Co.  
VAMES, G.J. :Babcock & Wilcox Co.  
DATE ISS:79/11/16, 52pp. ,48x:19497-074, ODI:GPU 2222 ,TN:GB06 IRRELEVANT

8307130409 Operational log, Summary for 790201.

SMITH, B.G. :General Public Utilities - GPU Service Corp.  
: ,TN:GB06 IRRELEVANT  
DATE ISS:79/02/01, 4pp. ,48x:19497-216, ODI:GPU 2230

8307130010 Operational log, Summary for 790202.

SMITH, B.G. :General Public Utilities - GPU Service Corp.  
: ,TN:GB06 IRRELEVANT  
DATE ISS:79/02/02, 4pp. ,48x:19497-220, ODI:GPU 2231

8307130013 Unit 2 plant svcs operational log for 790202-04.

\* :General Public Utilities - GPU Service Corp.  
: ,TN:GB06 IRRELEVANT  
DATE ISS:79/02/02, 2pp. ,48x:19497-224, ODI:GPU 2232

U. S. NUCLEAR REGULATORY COMMISSION  
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8307130032 Unit 2 plant sys operational lqd for 790206-11.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/02/06, 2pp. ,48x:19497-226,ODI:GPU 2233 ,TN:GB06 IRRELEVANT

8307130044 Operational lqd.Summary for 780420-22.

MILLER,G.P. :General Public Utilities - GPU Service Corp.  
: DATE ISS:78/04/22, 3pp. ,48x:19497-233,ODI:GPU 2237 ,TN:GB06 IRRELEVANT

8307130051 "Nuclear Power Preparatory Training,Core Performance 4,  
Heat Transfer & Heat Generation."

\* :NUS Corp.  
: DATE ISS:69/12/31, 4pp. ,48x:19497-236,ODI:GPU 2250 ,TN:GB06 IRRELEVANT

8307130058 Provides preliminary evaluation of Unit 2 780423 rapid  
cooldown transient.Continued operation of reactor coolant  
pumps recommended.

WANDLING,G.K. :Babcock & Wilcox Co.  
RUGERS,L.C. :Babcock & Wilcox Co.  
DATE ISS:78/05/08, 9pp. ,48x:19497-240,ODI:GPU 2263 ,TN:GB06 IRRELEVANT

8307110746 Restoration of auxiliary feedwater initialized to t=0.

\* :Metropolitan Edison Co.  
: DATE ISS:79/03/28, 1p. ,48x:19482-186,ODI:GPU 2324 ,TN:GB06 IRRELEVANT

8307080032 Figure S.1-2, "RCS Flow at Full Power Steady State  
Condition."

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/05, 1p. ,48x:19360-091,ODI:GPU 2325 ,TN:GB06 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
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8307080037 Graph of temp average for reactor trip in which automatic  
HPI occurred w/Uconee-3 750613 event.

\* :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:78/12/02, 1p. ,48x:19360-092,ODI:GPU 2326 ,TN:G806 IRRELEVANT

8307080043 Graph of temp average for reactor trips in which automatic  
HPI occurred w/Davis Besse-1 770924 event.

\* :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:78/12/02, 1p. ,48x:19360-093,ODI:GPU 2327 ,TN:G806 IRRELEVANT

8307080085 Figure 6.3-2, "Graph of Makeup Pump Characteristics."

\* :Metropolitan Edison Co.  
:  
DATE ISS:76/02/20, 1p. ,48x:19360-097,ODI:GPU 2331 ,TN:G806 IRRELEVANT

8307080128 Procedures 31533VX-30 & 31533VX,w/& w/o bellows,  
respectively, "Instructions for Operating & Repairing  
Consolidated Electromatic Relief Valve."

\* :Dresser Industries, Inc.  
:  
DATE ISS:83/07/05, 31pp. ,48x:19361-042,ODI:GPU 2336 ,TN:G806 IRRELEVANT

8307110758 Engineering change memo revising wiring per encl.

\* :Burns & Roe Co.  
:Burns & Roe Co.  
DATE ISS:78/04/05, 6pp. ,48x:19463-148,ODI:GPU 2340 ,TN:G806 IRRELEVANT

8307080107 "Figure 3, Graph of RCS Pressure, Saturation Pressure &  
Pressurizer."

\* :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:79/03/28, 1p. ,48x:19361-092,ODI:GPU 2341 ,TN:G806 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307080110 "Summary of Operating Problems w/Pressurizer Electromatic  
Relief Valves."

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/07, 4pp. ,48x:19361-093,ODI:GPU 2343 ,TN:GB06 IRRELEVANT

8307120611 Description of reactor vessel & closure.

\* :Babcock & Wilcox Co.  
: DATE ISS:83/07/11, 49pp. ,48x:19495-089,ODI:GPU 2347 ,TN:GB06 IRRELEVANT

8307120615 Transcript re operating procedures for handling HPI, Pp 225-  
232.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/11, 8pp. ,48x:19495-138,ODI:GPU 2348 ,TN:GB06 IRRELEVANT

8307120619 Offer of proof for record on various points re R Marzec  
proposed testimony but excluded by court concerning TMI  
operator actions concerning HPI.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/11, 6pp. ,48x:19495-146,ODI:GPU 2349 ,TN:GB06 IRRELEVANT

8307080140 Engineering Change Memo S-5934 re RC-RVE "on" signal light  
to provide open signal "on" indication for Valve RC-RV12 &  
to revise logic to have valve fail closed on loss of power.

\* :Burns & Roe Co.  
: DATE ISS:76/04/06, 7pp. ,48x:19361-116,ODI:GPU 2401 ,TN:GB06 IRRELEVANT

8307080147 Graph of pressurizer electromatic relief valve for RCS  
RC-RV2 logic.

\* :Babcock & Wilcox Co.  
: DATE ISS:83/07/06, 1p. ,48x:19361-123,ODI:GPU 2402 ,TN:GB06 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
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8307080152 Tech Spec for electrically actuated relief valves for  
RCS svc.

\* :Babcock & Wilcox Co.

DATE ISS:70/01/07, 7pp. ,48X:19361-124,ODI:GPU 2403 ,TN:G806

IRRELEVANT

8307080141 Recommends action to be taken on Contract 3-13 to prevent  
excessive cooldown that plant experienced during loss of  
station power,SPR-158,natural circulation level setpoint  
should be reduced to 50% on operate range.

KARRASCH,B.A. :Babcock & Wilcox Co.

PITTMAN,R.L. :Babcock & Wilcox Co.

DATE ISS:74/02/07, 2pp. ,48X:19361-131,ODI:GPU 2404

,TN:G806

IRRELEVANT

8307080146 Recommends operating guidelines for small breaks.

HALLMAN,D.F. :Babcock & Wilcox Co.

LEMON,J.E. :Babcock & Wilcox Co.

DATE ISS:79/10/09, 1p. ,48X:19361-133,ODI:GPU 2405

,TN:G806

IRRELEVANT

8307080162 Forwards questions re automated pump trip.

HALLMAN,D.F. :Babcock & Wilcox Co.

DUNN,B.M. :Babcock & Wilcox Co.

DATE ISS:79/09/17, 1p. ,48X:19361-143,ODI:GPU 2408

,TN:G806

IRRELEVANT

8307080172 Discusses weekly rept of 740202-08 re RCS.

PHINNEY,J.D. :Babcock & Wilcox Co.

BEACH,R.R. :Babcock & Wilcox Co.

DATE ISS:74/01/11, 2pp. ,48X:19361-144,ODI:GPU 2409

,TN:G806

IRRELEVANT

8307080191 Discusses 740126-0201 weekly rept re RCS.

PHINNEY,J.D. :Babcock & Wilcox Co.

BEACH,H.H. :Babcock & Wilcox Co.

DATE ISS:74/02/04, 2pp. ,48X:19361-146,ODI:GPU 2410

,TN:G806

IRRELEVANT



U. S. NUCLEAR REGULATORY COMMISSION  
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8307080200 Responds to 771006 telcon requesting more info re basis for vendor conclusions on 770924 depressurization event.

LAZAR, A.H. :Babcock & Wilcox Co.  
DOMECK, C. :Toledo Edison Co.  
DATE ISS:77/10/07, 2pp. ,48X:19361-151, ODI:GPU 2412 ,TN:G806 IRRELEVANT

8307080221 Recommends that operating plants include instructions in loss of feedwater emergency procedure for operator to manually initiate HPI.

FAIRBURN, G.T. :Babcock & Wilcox Co.  
MILLEN, G.P. :Metropolitan Edison Co.  
DATE ISS:79/05/16, 1p. ,48X:19361-158, ODI:GPU 2416 ,TN:G806 IRRELEVANT

8307080282 Responds to Embrey request for 790801 draft &/or status of presentation for B&W avs responsiveness & supply 790726 ltr.

ESLEECK, S.H. :Babcock & Wilcox Co.  
EMBREY, N.S. :Babcock & Wilcox Co.  
DATE ISS:79/07/31, 8pp. ,48X:19361-188, ODI:GPU 2423 ,TN:G806 IRRELEVANT

8307080285 Submits info re competitor intelligence for util request to C-E concerning comparison between B&W & C-E.

DEDDENS, J.C. :Babcock & Wilcox Co.  
EMBREY, N.S. :Babcock & Wilcox Co.  
DATE ISS:79/05/03, 2pp. ,48X:19361-196, ODI:GPU 2424 ,TN:G806 IRRELEVANT

8307080291 "Preliminary Generic Plant Comparison."

\* :Combustion Engineering, Inc.  
DATE ISS:83/07/06, 19pp. ,48X:19361-198, ODI:GPU 2425 ,TN:G806 IRRELEVANT

8307080295 Discusses top 10 lessons learned from Unit 2 accident.

KOSIBA, R.E. :Babcock & Wilcox Co.  
MACMILLAN, J.H. :Babcock & Wilcox Co.  
DATE ISS:79/06/11, 4pp. ,48X:19361-217, ODI:GPU 2426 ,TN:G806 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307080310 Requests managers of Plant Integration & QA review  
"Preliminary Rept of Safety Concern," PCS 10-78 re incorrect  
& incomplete LOCA analysis of small breaks.

TAYLOR, J.H. :Babcock & Wilcox Co.  
KARRASCH, B.A. :Babcock & Wilcox Co.  
DATE ISS:78/04/25, 9pp. ,48x:19361-224,00I:GPU 2429 ,TN:G806 IRRELEVANT

8307080313 Draft of .04 square feet pump discharge break.

\* :Babcock & Wilcox Co.  
:   
DATE ISS:78/04/12, 4pp. ,48x:19361-233,00I:GPU 2430 ,TN:G806 IRRELEVANT

8307080318 Forwards Preliminary Rept of Safety Concern PSC 10-78 re  
small breaks at pump discharge on 177FA lowered loop plants.  
Preparation of evaluation & recommendations for corrective  
actions underway.

TAYLOR, J.H. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:78/04/12, 2pp. ,48x:19361-237,00I:GPU 2431 ,TN:G806 IRRELEVANT

8307080351 Feb Monthly Activities Rept.

KARRASCH, B.A. :Babcock & Wilcox Co.  
:   
DATE ISS:79/02/28, 4pp. ,48x:19361-244,00I:GPU 2435 ,TN:G806 6.18

8307080354 Dec 1978 Progress Rept.

KARRASCH, B.A. :Babcock & Wilcox Co.  
:   
DATE ISS:79/01/03, 4pp. ,48x:19361-248,00I:GPU 2436 ,TN:G806 IRRELEVANT

8307080397 Discusses possible solution to reactor coolant pump status  
during small LOCA.

PARKS, C.E. :Babcock & Wilcox Co.  
:   
DATE ISS:79/05/29, 2pp. ,48x:19361-266,00I:GPU 2444 ,TN:G806 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
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- 8307080408 Summary of 790515 telcon w/Z Rosztoczy re request for addl info on expected results of stuck open PORV, small break w/loss of auxiliary feedwater & reactor coolant pumps running.  
DUNN, B.M. :Babcock & Wilcox Co.  
KANE, E.R. :Babcock & Wilcox Co.  
DATE ISS:79/05/29, 2pp. ,48x:19361-269, ODI:GPU 2445 ,TN:G806 IRRELEVANT
- 8307080410 Summary of discussions w/Toledo Edison re need to reduce steam generator level setpoint for natural circulation & B&W need to maintain high level.  
SWANSON, E.W. :Babcock & Wilcox Co.  
SPANGLE, W.H. :Babcock & Wilcox Co.  
DATE ISS:78/11/15, 3pp. ,48x:19361-271, ODI:GPU 2446 ,TN:G806 6.1
- 8307080414 Recommends ECCS analysis of reactor coolant pumps powered case. Analysis should be done on 205 fuel assembly plants.  
JONES, R.C. :Babcock & Wilcox Co.  
CARTIN, L.P. :Babcock & Wilcox Co.  
DATE ISS:78/12/11, 2pp. ,48x:19361-274, ODI:GPU 2447 ,TN:G806 IRRELEVANT
- 8307080438 Forwards response to 780427 ltr re small break LOCA analysis.  
MCFARLAND, J. :Babcock & Wilcox Co.  
PATTERSON, D.R. :Tennessee Valley Authority  
DATE ISS:79/01/23, 3pp. ,48x:19361-276, ODI:GPU 2448 ,TN:G806 IRRELEVANT
- 8307080441 Forwards response to TVA ltr K-5020 re small break LOCA analyses. Response based on qualitative review of concepts presented in "DHR During Very Small Break for B&W 205 Fuel Assembly PWR."  
JONES, R.C. :Babcock & Wilcox Co.  
LIGHTLE, R.E. :Babcock & Wilcox Co.  
DATE ISS:79/01/19, 7pp. ,48x:19361-279, ODI:GPU 2449 ,TN:G806 IRRELEVANT
- 8307080449 Forwards preliminary draft study reflecting thoughts & concerns re ECCS small break LOCA analysis W4M-2-14(AR) for review & comments. Proposes meeting in Knoxville, TN to discuss entire question of very small break LOCA.  
PATTERSON, D.R. :Tennessee Valley Authority  
MCFARLAND, J. :Babcock & Wilcox Co.  
DATE ISS:78/04/27, 6pp. ,48x:19361-287, ODI:GPU 2451 ,TN:G806 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307080472 Field Change Request 122 to modify lever & bracket by installing new bushing type bearings on electromatic relief valve.

\* :Babcock & Wilcox Co.  
:

DATE ISS:77/11/22, 13pp. ,48x:19361-298,ODI:GPU 2454 ,TN:G806

IRRELEVANT

8307080492 Forwards revised applicable sections of limits & precautions for reactor coolant pumps & motors.

ROGERS,L.C. :Babcock & Wilcox Co.  
TOOLE,R.J. :Metropolitan Edison Co.

DATE ISS:77/05/20, 17pp. ,48x:19361-324,ODI:GPU 2458 ,TN:G806

IRRELEVANT

8307080498 Submits recommendations for RCS lo-lo pressure alarm & electromagnetic relief valve reset pressure,per high pressure injection setpoint.

ROGERS,L.C. :Babcock & Wilcox Co.  
TOOLE,R.J. :Metropolitan Edison Co.

DATE ISS:78/09/29, 2pp. ,48x:19361-341,ODI:GPU 2459 ,TN:G806

IRRELEVANT

8307080531 Forwards Dec activities rept for ECCS Analysis Unit.

DUNN,B.M. :Babcock & Wilcox Co.  
WOMACK,E.A. :Babcock & Wilcox Co.

DATE ISS:79/01/02, 3pp. ,48x:19362-018,ODI:GPU 2464 ,TN:G806

IRRELEVANT

8307080573 "Small Break Operating Guidelines - Davis-Besse Unit 1."

WALLMAN,D.F. :Babcock & Wilcox Co.  
:

DATE ISS:79/11/20, 37pp. ,48x:19362-025,ODI:GPU 2467 ,TN:G806

IRRELEVANT

8307070253 Site Problem Rept 366 re electromatic relief valve mod on 771013.valve tested after completion of repairs.Valve closed six times but did not close on seventh test cycle.Caused by close tolerance causing binding condition.

\* :Babcock & Wilcox Co.  
:

DATE ISS:78/03/27, 15pp. ,48x:19339-215,ODI:GPU 2469 ,TN:G806

IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

- 8307070256 Site Problem Rept 3a9 re electromatic relief valve damage on 770924. Steam & feedwater isolated to both steam generators following steam & feedwater rupture control sys actuation. RCS pressure increased above 2255. Caused by missing relay.  
CULBERSON, D.W. :Babcock & Wilcox Co.  
DATE ISS:77/10/06, 9pp. ,48x:19339-230,001:GPU 2470 ,TN:G806 IRRELEVANT
- 8307080666 Discusses concern w/once through steam generator level. Safety analyses & ECCS analyses inconsistent.  
\* :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:77/07/11, 2pp. ,48x:19491-026,001:GPU 2501 ,TN:G806 IRRELEVANT
- 8307080680 Summarizes impact assessment of two auxiliary feedwater level control schemes on LUCA analysis, in response to 780907 memo.  
SHAH, N.H. :Babcock & Wilcox Co.  
CARTIN, L.R. :Babcock & Wilcox Co.  
DATE ISS:78/09/19, 2pp. ,48x:19491-045,001:GPU 2503 ,TN:G806 IRRELEVANT
- 8307080777 Requests withdrawal of 780404 potential safety concern re secondary side auxiliary feedwater control level. Problem w/ 6-ft control not inadvertent, but part of planned effort.  
SHAH, N.H. :Babcock & Wilcox Co.  
TAYLOR, J.H. :Babcock & Wilcox Co.  
DATE ISS:78/11/10, 2pp. ,48x:19491-208,001:GPU 2527 ,TN:G806 IRRELEVANT
- 8307080778 Dismisses validity of potential safety concern (PSC) filed against 205 plants re secondary side auxiliary feedwater control level. Potential obstructions nonexistent.  
DUNN, B.M. :Babcock & Wilcox Co.  
TAYLOR, J.H. :Babcock & Wilcox Co.  
DATE ISS:78/11/03, 1p. ,48x:19491-210,001:GPU 2528 ,TN:G806 IRRELEVANT
- 8307120647 Responses to questions 3 & 4 re operating procedures for loss of feed, loss of reactor coolant/loss of reactor coolant pressure & reactor trip.  
o :General Public Utilities - GPU Service Corp.  
DATE ISS:83/07/11, 7pp. ,48x:19495-180,001:GPU 2619 ,TN:G806 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307120651 Release notice of B&W document 66-1117415-00 re steam generator level adequacy during reflux mode.

ANDERSON, C.E. : Babcock & Wilcox Co.

DATE ISS: 80/02/07, 500, , 48x:19495-187, ODI: GPU 2620 , TN: G806

IRRELEVANT

8307120655 Handwritten notes re RCS temp calculations.

\* : General Public Utilities - GPU Service Corp.

DATE ISS: 83/07/11, 800, , 48x:19495-193, ODI: GPU 2622 , TN: G806

IRRELEVANT

8307120661 Handwritten notes re HPI calculations.

\* : General Public Utilities - GPU Service Corp.

DATE ISS: 83/07/11, 500, , 48x:19495-201, ODI: GPU 2623 , TN: G806

IRRELEVANT

8307080797 Forwards list summarizing plant-specific impact of addition & control of auxiliary feedwater level to 40 ft in steam generators at B&W 205FA plants. Addition of wide range level sensing connections required.

CARTIN, L.W. : Babcock & Wilcox Co.

BURRIS, J.R. : Babcock & Wilcox Co.

DATE ISS: 78/09/13, 700, , 48x:19491-313, ODI: GPU 2702 , TN: G806

IRRELEVANT

8307090001 Summarizes analyses re impact of controlling auxiliary feedwater to 40-ft level within steam generator during accident conditions when main feedwater unavailable. Tables encl.

CARTIN, L.R. : Babcock & Wilcox Co.

KARNASCH, B.A. : Babcock & Wilcox Co.

DATE ISS: 78/11/15, 1000, , 48x:19491-320, ODI: GPU 2703 , TN: G806

IRRELEVANT

8307090002 Discusses potential safety concern (PSC) re secondary side auxiliary feedwater control level. Positive 6-ft control approved in Summer 1977. Return to 40-ft control studied. Potential obstructions nonexistent, PSC should be withdrawn.

DUNN, B.M. : Babcock & Wilcox Co.

TAYLOR, J.H. : Babcock & Wilcox Co.

DATE ISS: 78/11/03, 600, , 48x:19491-330, ODI: GPU 2704 , TN: G806

IRRELEVANT



U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307090004 Notices of 731023 meeting to resolve AEC comments re SMUD  
FSAR & to establish B&W design position on auxiliary  
feedwater sys instrumentation design.

MCBRIDE, A.F. :Babcock & Wilcox Co.  
LESNIAK, L.M. :Babcock & Wilcox Co.  
DATE ISS:73/10/17, 2pp. ,48X:19491-337,00I:GPU 2705 ,TN:GB06 6.1

8307090006 Discusses C Michelson, of TVA, critique of small breaks for  
B&W RCS in May 1978.

DUNN, B.M. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:79/04/14, 9pp. ,48X:19491-339,00I:GPU 2706 ,TN:GB06 IRRELEVANT

8307120732 Drawing depicting steam generator flow.

\* :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:83/07/11, 3pp. ,48X:19495-243,00I:GPU 3016 ,TN:GB06 IRRELEVANT

8307120740 Graph depicting makeup tank & pressurizer levels.

\* :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:83/07/11, 1p. ,48X:19495-246,00I:GPU 3017 ,TN:GB06 IRRELEVANT

8307120746 "Make-Up/Let-Down System, Make-Up Mode."

\* :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:83/07/11, 1p. ,48X:19495-247,00I:GPU 3018 ,TN:GB06 IRRELEVANT

8307120754 "Make-Up/Let-Down System, Make-Up Mode Following Reactor  
Trip."

\* :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:83/07/11, 1p. ,48X:19495-248,00I:GPU 3019 ,TN:GB06 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307120632 "Make-up/Let-down Sys. anual Injection Mode following  
Reactor Trip."

\* :Metropolitan Edison Co.  
: DATE ISS:83/07/12, 1b. ,48x:19504-346,ODI:GPU 3020 ,TN:G806 IRRELEVANT

8307120635 "Make-up/Let-down Sys. automatic Injection Mode."

\* :Metropolitan Edison Co.  
: DATE ISS:83/07/12, 1b. ,48x:19504-347,ODI:GPU 3021 ,TN:G806 IRRELEVANT

8307120640 "Three Mile Island 790328." Graph illustrates points of  
which PORV isolated & sumps pumps & Loops A & B secured in  
values of temp, pressure level & psia against time.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/12, 2pp. ,48x:19504-292,ODI:GPU 3136 ,TN:G806 IRRELEVANT

8307120644 Graph of relation between steam or water PORV flow to one  
or two HPI pumps in flow vs pressure valves. Rept, "Analysis  
of RCS Make-up During TMI-2 Event," encl.

\* :EDS Nuclear, Inc.  
: DATE ISS:82/12/29, 50pp. ,48x:19504-294,ODI:GPU 3136 ,TN:G806 IRRELEVANT

8307120848 "ASME Section III Safety Valve."

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:78/11/01, 1p. ,48x:19504-344,ODI:GPU 3139 ,TN:G806 IRRELEVANT

8307120883 "Analysis of RCS Make-up during TMI-2 Event."

\* :EDS Nuclear, Inc.  
: DATE ISS:82/12/29, 46pp. ,48x:19512-001,ODI:GPU 3148 ,TN:G806 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307120887 Comparative graphs in terms of avg temp, pressurizer level & RCS pressure for 770924 & 790328 events at Davis-Besse 1 & TMI-2, respectively.

\* :General Public Utilities - GPU Service Corp.  
:

DATE ISS:83/07/12, 1p., ,48x:19512-047,001:GPU 3161 ,TN:GB06

IRRELEVANT

8307120902 Excerpt from 790406 taped interview w/B Zewe by investigation team re perspective of time for emergency feed actuation.

\* :General Public Utilities - GPU Service Corp.  
:

DATE ISS:79/04/06, 1p., ,48x:19512-049,001:GPU 6000 88 ,TN:GB06

IRRELEVANT

8307050363 Transcript of 23uth ACRS general meeting on 790615 in Washington, DC, P 325.

\* :ACRS - Advisory Committee on Reactor Safeguards  
:

DATE ISS:79/06/15, 3pp., ,48x:19232-064,001:GPU 6002 ,TN:GB06

6.12

8307120906 Excerpt from IE 790424 interview w/Zewe re identification of possible LUCA, Page 24.

ZEW, E. W. :Director's Office, Office of Inspection and Enforcement  
:

DATE ISS:79/04/24, 2pp., ,48x:19512-054,001:GPU 6005AA ,TN:GB06

IRRELEVANT

8307120907 Excerpt from TMI staff 790330 interview w/Zewe re previous turbine reactor trips, Page 27.

ZEW, E. W. :General Public Utilities - GPU Service Corp.  
:

DATE ISS:79/03/30, 5pp., ,48x:19512-056,001:GPU 6006AA ,TN:GB06

IRRELEVANT

8307120914 Excerpt from deposition of E Swanson on 820722 in New York, NY re pressurizer surge line, Po 211-212.

SWANSON, E. :dabcock & Wilcox Co.  
:

DATE ISS:82/07/22, 3pp., ,48x:19512-187,001:GPU 6011 ,TN:GB06

IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307050387 Transcript of EA Womack deposition on 801208 in New York, NY.  
Pd 295-296.

WOMACK, E. A. : Babcock & Wilcox Co.

DATE ISS: 80/12/08, 300. , 48X: 19232-091, ODI: GPU 6013 , TN: GB06

IRRELEVANT

8307070234 Partial transcript of IE TMI investigation interview of  
C Faust on 790421.

FAUST, C. : General Public Utilities - GPU Service Corp.

DATE ISS: 79/04/21, 8200. , 48X: 19357-289, ODI: GPU 6059A , TN: GB06

IRRELEVANT

8307070237 Partial transcript of IE interview of C Faust on 790421.  
Pd 45-52.

FAUST, C. : General Public Utilities - GPU Service Corp.

DATE ISS: 79/04/21, 800. , 48X: 19358-008, ODI: GPU 6059AA , TN: GB06

IRRELEVANT

8307120920 Excerpt from IE interview of B Mehler on 800327 re RCS  
inventory. Pd 5-12.

MEHLER, B. : General Public Utilities - GPU Service Corp.

DATE ISS: 80/03/27, 800. , 48X: 19312-279, ODI: GPU 6060AA , TN: GB06

IRRELEVANT

OUT OF SEQUENCE EXHIBITS

8307120727 Advises that preliminary rept of Safety Concern PSC  
16-79 will be provided upon completion.

TAYLOR, J. H. : Babcock & Wilcox Co.

KLEIN, S. H. : Babcock & Wilcox Co.

DATE ISS: 79/05/31, 7pp. , 48X: 19493-303, ODI: GPU 0262 , TN: GB06

IRRELEVANT

8307120911 Deposition of JD Agar on 820422 in New York, NY. Pp 1-121.

AGAR, J. D. : Babcock & Wilcox Co.

DATE ISS: 82/04/22, 122pp. , 48X: 19512-066, ODI: GPU 6010 , TN: GB06

IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

OUT OF SEQUENCE EXHIBITS

8307050366 Transcript of Zewe 790919 testimony.

ZEWE. : General Public Utilities - GPU Service Corp.

DATE ISS: 79/09/19, 2pp, 48X 19232-067, ODI: GPU 6003 AA, TN: 0806 6.12

002519 RECORDS SCANNED 420 RECORDS PRINTED ( 192 RECORDS, 228 SUPP.)  
ENDING CODE= 186 LAST KEY= GPU 6060AA 830712092004

CATEGORY 7  
TRIAL TESTIMONY



U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307260284 Testimony of RC Arnold on 821115 in New York, NY, Pd 1,455-1,534.

ARNOLD, R.C. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/11/15, 80pp. , 4RX: 19726-137, OOI: , TN: GB07

7.3

8307260457 Testimony of M Derivan on 821103 in New York, NY, Pd 397-537.

DERIVAN, M. : Toledo Edison Co.

DATE ISS: 82/11/03, 140pp. , 4RX: 19023-036, OOI: , TN: GB07

IRRELEVANT

8306290407 Testimony of MJ Derivan on 821104 in New York, NY, Pd 538-687.

DERIVAN, M.J. : Toledo Edison Co.

DATE ISS: 82/11/04, 150pp. , 4RX: 19023-176, OOI: , TN: GB07

IRRELEVANT

8307260611 Testimony of B Dunn on 821105 in New York, NY, Pd 752-830.

DUNN, B. : Babcock & Wilcox Co.

DATE ISS: 82/11/05, 79pp. , 4RX: 19024-028, OOI: , TN: GB07

IRRELEVANT

8306290427 Testimony of B Dunn on 821109 in New York, NY, Pd 831-964.

DUNN, B. : Babcock & Wilcox Co.

DATE ISS: 82/11/09, 135pp. , 4RX: 19024-107, OOI: , TN: GB07

IRRELEVANT

8307260602 Testimony of BM Dunn on 830119 in New York, NY, Pd 7,156-7,288.

DUNN, B.M. : Babcock & Wilcox Co.

DATE ISS: 83/01/19, 105pp. , 4RX: 19041-208, OOI: , TN: GB07

7.2

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8306290671 Testimony of BM Dunn on 830120 in New York, NY. Pd 7,289-  
7,424.

DUNN, B.M. :Babcock & Wilcox Co.

DATE ISS:83/01/20, 136pp. ,4Rx:19041-313,ODI: ,TN:G807

7.2

8306290499 Testimony of ER Frederick on 821206 in New York, NY. Pd 3,216-  
3,377.

FREDERICK, E.R. :General Public Utilities - GPU Service Corp.

DATE ISS:82/12/06, 161pp. ,4Rx:19030-204,ODI: ,TN:G807

IRRELEVANT

8306290502 Testimony of ER Frederick on 821207 in New York, NY. Pd 3,378-  
3,559.

FREDERICK, E.R. :General Public Utilities - GPU Service Corp.

DATE ISS:82/12/07, 181pp. ,4Rx:19031-004,ODI: ,TN:G807

IRRELEVANT

8306290543 Testimony of ER Frederick on 821209 in New York, NY. Pd 3,734-  
3,906.

FREDERICK, E.R. :General Public Utilities - GPU Service Corp.

DATE ISS:82/12/09, 172pp. ,4Rx:19031-361,ODI: ,TN:G807

IRRELEVANT

8306290560 Testimony of ER Frederick on 821213 in New York, NY. Pd 3,990-  
4085.

FREDERICK, E.R. :General Public Utilities - GPU Service Corp.

DATE ISS:82/12/13, 97pp. ,4Rx:19032-257,ODI: ,TN:G807

IRRELEVANT

8306290631 Testimony of JH Holderness on 830103 in New York, NY. Pd  
5,589-5,701.

HOLDERNESS, J.H. :EUS Nuclear, Inc.

DATE ISS:83/01/03, 113pp. ,4Rx:19037-054,ODI: ,TN:G807

IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307260429 Testimony of E Kane on 821214 in New York, NY, Po 4,370-4,388.

KANE, E. :Babcock & Wilcox Co.

DATE ISS:82/12/14, 19pp. ,4Ax:19033-276,00I: ,TN:G807

IRRELEVANT

8306290586 Testimony of RT Lahey on 821217 in New York, NY, Po 4,747-4,912.

LAHEY, R.T. :Rensselaer Polytechnic Inst.

DATE ISS:82/12/17, 16pp. ,4Ax:19034-292,00I: ,TN:G807

7.2

8306290587 Testimony of RT Lahey on 821220 in New York, NY, Po 4,914-5,102.

LAHEY, R.T. :Rensselaer Polytechnic Inst.

DATE ISS:82/12/20, 18pp. ,4Ax:19035-101,00I: ,TN:G807

7.2

8306290589 Testimony of RT Lahey on 821221 in New York, NY, Po 5,103-5,203.

LAHEY, R.T. :Rensselaer Polytechnic Inst.

DATE ISS:82/12/21, 101pp. ,4Ax:19035-290,00I: ,TN:G807

7.2

8306290591 Testimony of RT Lahey on 821222 in New York, NY, Po 5,280-5,370.

LAHEY, R.T. :Rensselaer Polytechnic Inst.

DATE ISS:82/12/22, 91pp. ,4Ax:19036-105,00I: ,TN:G807

7.2

8306290630 Testimony of RJ Marzec on 830105 in New York, NY, Po 5,950-6,081.

MARZEC, R.J. :Duke Power Co.

DATE ISS:83/01/05, 132pp. ,4Ax:19038-053,00I: ,TN:G807

IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8306290634 Testimony of RJ Marzen on 830106 in New York, NY. Po 6,082-  
6,232.

MARZEC, R.J. :Duke Power Co.

DATE ISS:83/01/06, 151pp. ,4Ax:19038-186,00I: ,TN:G807

IRRELEVANT

8306290638 Testimony of RJ Marzen on 830107 in New York, NY. Po 6,233-  
6,359.

MARZEC, R.J. :Duke Power Co.

DATE ISS:83/01/07, 127pp. ,4Ax:19038-337,00I: ,TN:G807

IRRELEVANT

8307260345 Testimony of B Mehler on 830118 in New York, NY. Po 6,954-  
6,994.

MEHLER, B. :General Public Utilities - GPU Service Corp.

DATE ISS:83/01/18, 41pp. ,4Ax:19040-339,00I: ,TN:G807

IRRELEVANT

8307260613 Testimony of C Michelson on 821223 in New York, NY. Po 5,481-  
5,588.

MICHELSUN, C. :Director's Office

DATE ISS:82/12/23, 108pp. ,4Ax:19036-308,00I: ,TN:G807

7.2

8307260071 Testimony of C Michelson on 830104 in New York, NY. Po 5,912-  
5,921.

MICHELSUN, C. :Director's Office

DATE ISS:83/01/04, 10pp. ,4Ax:19038-015,00I: -TN:G807

IRRELEVANT

8307210407 Testimony of L Rogers on 821212. Po 5371-5446.

ROGERS, L. :dabcock & wilcox Co.

DATE ISS:82/12/12, 76pp. ,4Ax:19695-001,00I: ,TN:G807

IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8306290624 Testimony of L Rogers on 821223 in New York, NY. Pd 5,447-  
5,481.

ROGERS, L. :Babcock & Wilcox Co.

DATE ISS:82/12/23, 36pp. ,48x:19036-273,001: ,TN:G807

IRRELEVANT

8307260420 Testimony of DH Roy on 821214 in New York, NY. Pd 4,284-4,351.

ROY, D.H. :Babcock & Wilcox Co.

DATE ISS:82/12/14, 68pp. ,48x:19033-190,001: ,TN:G807

IRRELEVANT

8306290648 Testimony of GB Wallis on 830113 in New York, NY. Pd  
6,482-6,646.

WALLIS, G.B. :Dartmouth College

DATE ISS:83/01/13, 164pp. ,48x:19039-224,001: ,TN:G807

7.2

8306290652 Testimony of Gd Wallis on 830114 in New York, NY. Pd 6,647-  
6,759.

WALLIS, G.B. :Dartmouth College

DATE ISS:83/01/14, 112pp. ,48x:19040-032,001: ,TN:G807

IRRELEVANT

8306290657 Testimony of Gd Wallis on 830117 in New York, NY. Pd 6,760-  
6,928.

WALLIS, G.B. :Dartmouth College

DATE ISS:83/01/17, 146pp. ,48x:19040-145,001: ,TN:G807

7.2

8306290463 Testimony of WM Zewe on 821201 in New York, NY.  
Pd 2,924-3,040.

ZEWEL, W.H. :General Public Utilities - GPU Service Corp.

DATE ISS:82/12/01, 116pp. ,48x:19029-273,001: ,TN:G807

IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

OUT OF SEQUENCE TESTIMONY

8306290445 Testimony of RC Arnold on 821116 in New York, NY. Pd  
1,535-1,1715.

ARNOLD, R.C. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/11/16, 180pp. , 48x: 19026-089, ODI: , TN: G807 7.3

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CATEGORY 7

DEPOSITIONS

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8306290855 Deposition of G Billingsley on 820218 in New York, N. Y.  
Pp 1-157.

BILLINGSLEY, G. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/02/18, 159pp. , 48X: 19058-087, ODI: , TN: GB07 IRRELEVANT

8306290859 Deposition of G Billingsley on 820219 in New York, N. Y.  
Pp 158-331.

BILLINGSLEY, G. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/02/19, 173pp. , 48X: 19058-246, ODI: , TN: GB07 IRRELEVANT

8306290862 Deposition of G Billingsley on 820225 in New York, N. Y.  
Pp 332-413.

BILLINGSLEY, G. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/02/25, 81pp. , 48X: 19059-058, ODI: , TN: GB07 IRRELEVANT

8306290865 Deposition of TG Broughton on 820202 in New York, NY. Pp  
1-154.

BROUGHTON, G. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/02/02, 154pp. , 48X: 19059-140, ODI: , TN: GB07 IRRELEVANT

8306290850 Deposition of G Broughton on 820203 in New York, NY. Pp 135-  
295.

BROUGHTON, G. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/02/03, 140pp. , 48X: 19061-001, ODI: , TN: GB07 IRRELEVANT

8306290962 Deposition of LR Cartin on 820413 in New York, NY. Pp 1-113.

CARTIN, L. R. : Babcock & Wilcox Co.

DATE ISS: 82/04/13, 113pp. , 48X: 19064-025, ODI: , TN: GB07 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8306290966 Deposition of LR Cartin on 820414 in New York, NY. Pp 114-214.

CARTIN, L. R. : Babcock & Wilcox Co.  
DATE ISS: 82/04/14, 100pp. , 48X: 19064-140, ODI: , TN: GB07 7.2

8306290929 Deposition of BM Dunn on 810319 in New York, NY. Pp 390-499.

DUNN, B. M. : Babcock & Wilcox Co.  
DATE ISS: 81/03/19, 114pp. , 48X: 19066-289, ODI: , TN: GB07 IRRELEVANT

8306290958 Deposition of BM Dunn on 810320 in New York, NY. Pp 500-602.

DUNN, B. M. : Babcock & Wilcox Co.  
DATE ISS: 81/03/20, 102pp. , 48X: 19068-193, ODI: , TN: GB07 7.2

8306290953 Deposition of BM Dunn on 810323 in New York, NY. Pp 603-725.

DUNN, B. M. : Babcock & Wilcox Co.  
DATE ISS: 81/03/23, 122pp. , 48X: 19068-070, ODI: , TN: GB07 IRRELEVANT

8306290950 Deposition of BM Dunn on 810324 in New York, NY. Pp 726-844.

DUNN, B. M. : Babcock & Wilcox Co.  
DATE ISS: 81/03/24, 121pp. , 48X: 19067-309, ODI: , TN: GB07 IRRELEVANT

8306290946 Deposition of BM Dunn on 810407 in New York, NY. Pp 845-968.

DUNN, B. M. : Babcock & Wilcox Co.  
DATE ISS: 81/04/07, 129pp. , 48X: 19695-299, ODI: , TN: GB07 7.2

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8306290936 Deposition of BM Dunn on 820915 in New York, NY. Pp 969-1071.

DUNN, B. M. : Babcock & Wilcox Co.

DATE ISS: 82/09/15, 104pp. , 48X: 19067-040, ODI: , TN: 6B07 IRRELEVANT

8306290704 Deposition of F Faist on 820323 in New York, NY. Pp 1-137.  
Supporting documentation encl.

FAIST, F. : Babcock & Wilcox Co.

DATE ISS: 82/03/23, 148pp. , 48X: 19072-052, ODI: , TN: 6B07 IRRELEVANT

8306290713 Deposition of CC Faust on 810819 in New York, NY. Pp 129-412.

FAUST, C. C. : Metropolitan Edison Co.

DATE ISS: 81/08/19, 283pp. , 48X: 19072-331, ODI: , TN: 6B07 IRRELEVANT

8307060447 Deposition of CC Faust on 810820 in New York, NY. Pp 276-412.

FAUST, C. C. : Metropolitan Edison Co.

DATE ISS: 81/08/20, 13pp. , 48X: 19301-291, ODI: , TN: 6B07 IRRELEVANT

8306290701 Deposition of CC Faust on 810821 in New York, NY. Pp 413-566.

FAUST, C. C. : Metropolitan Edison Co.

DATE ISS: 81/08/21, 153pp. , 48X: 19073-275, ODI: , TN: 6B07 IRRELEVANT

8306290703 Deposition of CC Faust on 810924 in New York, NY. Pp 569-712.

FAUST, C. C. : Metropolitan Edison Co.

DATE ISS: 81/09/24, 143pp. , 48X: 19074-068, ODI: , TN: 6B07 IRRELEVANT

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8306290705 Deposition of CC Faust on 810925 in 810925. Pp 713-898.

FAUST, C. C. : Metropolitan Edison Co.

DATE ISS: 81/09/25, 185pp. , 48X: 19074-212, ODI: , TN: 6B07 IRRELEVANT

8306290727 Deposition of JR Floyd on 820217 in New York, NY. Pp 160-293.  
Supporting documentation encl.

FLOYD, J. R. : Metropolitan Edison Co.

DATE ISS: 82/02/19, 134pp. , 48X: 19076-241, ODI: , TN: 6B07 IRRELEVANT

8306290733 Deposition of JR Floyd on 820428 in New York, NY. Pp 294-422.

FLOYD, J. R. : Metropolitan Edison Co.

DATE ISS: 82/04/28, 128pp. , 48X: 19077-014, ODI: , TN: 6B07 IRRELEVANT

8306290736 Deposition of JR Floyd on 820429 in New York, NY. Pp 433-538.

FLOYD, J. R. : Metropolitan Edison Co.

DATE ISS: 82/04/29, 105pp. , 48X: 19077-144, ODI: , TN: 6B07 IRRELEVANT

8306290738 Deposition of JR Floyd on 820430 in New York, NY. Pp 529-626.

FLOYD, J. R. : Metropolitan Edison Co.

DATE ISS: 82/04/30, 97pp. , 48X: 19077-250, ODI: , TN: 6B07 IRRELEVANT

8306290720 Deposition of ER Frederick on 820507 in New York, NY.  
Pp 421-563.

FREDERICK, E. R. : Metropolitan Edison Co.

DATE ISS: 82/05/07, 142pp. , 48X: 19079-049, ODI: , TN: 6B07 IRRELEVANT

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8306290769 Deposition of ER Frederick on 820510 in New York, NY.  
Pp 564-684.

FREDERICK, E. R. : Metropolitan Edison Co.

DATE ISS: 82/05/10, 120pp. , 48X: 19079-143, ODI: , TN: 6807 IRRELEVANT

8307110113 Deposition of ER Frederick on 820511 in New York, NY. Pp 685-  
774.

FREDERICK, E. R. : Metropolitan Edison Co.

DATE ISS: 82/05/11, 90pp. , 48X: 19488-181, ODI: , TN: 6807 IRRELEVANT

8306290780 Deposition of ER Frederick on 820512 in New York, NY.  
Pp 775-883.

FREDERICK, E. R. : Metropolitan Edison Co.

DATE ISS: 82/05/12, 108pp. , 48X: 19080-042, ODI: , TN: 6807 IRRELEVANT

8306290786 Deposition of ER Frederick on 820513 in New York, NY.  
Pp 884-982.

FREDERICK, E. R. : Metropolitan Edison Co.

DATE ISS: 82/05/13, 98pp. , 48X: 19080-151, ODI: , TN: 6807 IRRELEVANT

8306290833 Deposition of CE Goslow on 820617 in New York, NY. Pp 431-565

GOSLOW, C. E. : Babcock & Wilcox Co.

DATE ISS: 82/06/17, 135pp. , 48X: 19083-254, ODI: , TN: 6807 IRRELEVANT

8306290712 Deposition of DF Hallman on 820118 in New York, NY. Pp 1-32.

HALLMAN, D. F. : Babcock & Wilcox Co.

DATE ISS: 82/01/18, 82pp. , 48X: 19084-344, ODI: , TN: 6807 IRRELEVANT



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8306290881 Deposition of JG Herbein on B20630 in New York, N. Y. Pp 1-184.

HERBEIN, J. G. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/06/30, 187pp. , 48X: 19089-227, ODI: , TN: GB07 7.3

8307270534 Continued deposition of RC Jones on B10702 in New York, NY.  
Pp 278-358.

JONES, R. C. : Babcock & Wilcox Co.

DATE ISS: 81/07/02, 81pp. , 48X: 19788-084, ODI: , TN: GB07 IRRELEVANT

8306290693 Deposition of ER Kane on B11215 in New York, NY. Pp 1-130.

KANE, E. R. : Babcock & Wilcox Co.

DATE ISS: 81/12/15, 131pp. , 48X: 19092-245, ODI: , TN: GB07 IRRELEVANT

8306290698 Deposition of ER Kane on B11217 in New York, NY. Pp 252-373.

KANE, E. R. : Babcock & Wilcox Co.

DATE ISS: 81/12/17, 122pp. , 48X: 19093-134, ODI: , TN: GB07 IRRELEVANT

8306290700 Deposition of ER Kane on B11218 in New York, NY. Pp 376-430.

KANE, E. R. : Babcock & Wilcox Co.

DATE ISS: 81/12/18, 66pp. , 48X: 19093-257, ODI: , TN: GB07 IRRELEVANT

8306290976 Deposition of BA Karrasch on B10616 in New York, NY. Pp 1-98.

KARRASCH, B. A. : Babcock & Wilcox Co.

DATE ISS: 81/06/16, 98pp. , 48X: 19093-313, ODI: , TN: GB07 IRRELEVANT

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8306290987 Deposition of BA Karrasch on B10619 in New York, NY.  
Pp 325-398.

KARRASCH, B. A. : Babcock & Wilcox Co.

DATE ISS: 81/06/19, 74pp. , 48X: 19094-276, ODI: , TN: GB07 IRRELEVANT

8306290990 Deposition of BA Karrasch on B10929 in New York, NY.  
Pp 399-493.

KARRASCH, B. A. : Babcock & Wilcox Co.

DATE ISS: 81/09/29, 104pp. , 48X: 19094-353, ODI: , TN: GB07 IRRELEVANT

8306290993 Deposition of BA Karrasch on B10930 in New York, NY.  
Pp 494-594.

KARRASCH, B. A. : Babcock & Wilcox Co.

DATE ISS: 81/09/30, 101pp. , 48X: 19095-086, ODI: , TN: GB07 IRRELEVANT

8306290918 Deposition of R Keaten on B20121 in New York, NY. Pp 905-  
1,056. Index of exhibits encl.

KEATEN, R. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/01/21, 152pp. , 48X: 19098-009, ODI: , TN: GB07 7.8

8306290905 Deposition of RK Kennedy on B20127 in New York, NY. Pp 1-102.

KENNEDY, R. K. : Babcock & Wilcox Co.

DATE ISS: 82/01/27, 102pp. , 48X: 19100-001, ODI: , TN: GB07 IRRELEVANT

8306290924 Deposition of RE Kosiba on B10428 in New York, NY. Pp 173-353.

KOSIBA, R. E. : Babcock & Wilcox Co.

DATE ISS: 81/04/28, 180pp. , 48X: 19100-276, ODI: , TN: GB07 IRRELEVANT

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8306290776 Deposition of D LaBelle on 810602 in New York, NY. Pp 1-128.

LABELLE, D. : Babcock & Wilcox Co.

DATE ISS: 81/06/02, 128pp. , 48X: 19104-016, ODI:

, TN: GB07

IRRELEVANT

8306290782 Deposition of DW LaBelle on 810603 in New York, NY.  
Pp 129-251A.

LABELLE, D. W. : Babcock & Wilcox Co.

DATE ISS: 81/06/03, 124pp. , 48X: 19104-144, ODI:

, TN: GB07

7.6

8306290785 Deposition of DW LaBelle on 810604 in New York, NY.  
Pp 252-340.

LABELLE, D. W. : Babcock & Wilcox Co.

DATE ISS: 81/06/04, 89pp. , 48X: 19104-268, ODI:

, TN: GB07

IRRELEVANT

8306290836 Deposition of LC Lanese on 820324 in New York, NY. Pp 1-128.

LANESE, L. C. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/03/24, 128pp. , 48X: 19125-001, ODI:

, TN: GB07

IRRELEVANT

8306290827 Deposition of LC Lanese on 820325 in New York, NY. Pp 129-  
302.

LANESE, L. C. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/03/25, 174pp. , 48X: 19125-129, ODI:

, TN: GB07

IRRELEVANT

8306290817 Deposition of LC Lanese on 820326 in New York, NY. Pp 303-  
168.

LANESE, L. C. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/03/26, 169pp. , 48X: 19125-304, ODI:

, TN: GB07

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8306290812 Deposition of LC Lanese on 820419 in New York, NY. Pp 469-596.

LANESE, L. C. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/04/19, 129pp, , 48X: 19126-113, ODI: , TN: 6B07

IRRELEVANT

8306290773 Deposition of RL Long on 820518 in New York, NY. Pp 1-176.

LONG, R. L. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/05/18, 176pp, , 48X: 19696-069, ODI: , TN: 6B07

IRRELEVANT

8306290779 Deposition of RL Long on 820519 in New York, NY. Pp 177-312.

LONG, R. L. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/05/19, 135pp, , 48X: 19696-264, ODI: , TN: 6B07

IRRELEVANT

8306290787 Deposition of RL Long on 820520 in New York, NY. Pp 313-417.

LONG, R. L. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/05/20, 104pp, , 48X: 19695-131, ODI: , TN: 6B07

IRRELEVANT

8306290793 Deposition of RL Long on 820521 in New York, NY. Pp 417A-47B.

LONG, R. L. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/05/21, 61pp, , 48X: 19695-240, ODI: , TN: 6B07

IRRELEVANT

8306290799 Deposition of BA Mehler on 810729 in New York, NY. Pp 174-363.

MEHLER, B. A. : Metropolitan Edison Co.

DATE ISS: 81/07/29, 189pp, , 48X: 19131-205, ODI: , TN: 6B07

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8306290842 Deposition of C Michelson on 820318 in Washington, DC. Pp 1-151. Supporting documentation encl.

MICHELSON, C. : Director's Office

DATE ISS: 82/03/18, 152pp. , 48X: 19133-079, ODI: , TN: GB07 7.2

8306290848 Deposition of C Michelson on 820319 in Washington, DC. Pp 152-308.

MICHELSON, C. : Director's Office

DATE ISS: 82/03/19, 156pp. , 48X: 19133-202, ODI: , TN: GB07 7.2

8306290851 Deposition of AW Miller on 811201 in Middletown, PA. Pp 1-131.

MILLER, A. W. : General Public Utilities - GPU Service Corp.

DATE ISS: 81/12/01, 131pp. , 48X: 19134-028, ODI: , TN: GB07 IRRELEVANT

8306290853 Deposition of JD Phinney on 820114 in New York, NY. Pp 136-270.

PHINNEY, J. D. : Babcock & Wilcox Co.

DATE ISS: 82/01/14, 135pp. , 48X: 19138-288, ODI: , TN: GB07 IRRELEVANT

8306290846 Deposition of RL Pittman on 820628 in New York, NY. Pp 1-142.

PITTMAN, R. L. : Babcock & Wilcox Co.

DATE ISS: 82/06/28, 142pp. , 48X: 19139-061, ODI: , TN: GB07 IRRELEVANT

8306290909 Deposition of WE Potts on 820107 in New York, NY. Pp 1-176.

POTTS, W. E. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/01/07, 176pp. , 48X: 19139-203, ODI: , TN: GB07 IRRELEVANT

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8306290932 Deposition of JL Seelinger on 811023 in Palm Beach, FL. Pp  
540-609.

SEELINGER, J. L. : United Technologies Corp.

DATE ISS: 81/10/23, 74pp. , 48X: 19148-129, ODI: , TN: GB07 IRRELEVANT

8306290861 Deposition of E Swanson on 820721 in New York, NY. Pp 1-141.

SWANSON, E. : Babcock & Wilcox Co.

DATE ISS: 82/07/21, 141pp. , 48X: 19149-189, ODI: , TN: GB07 7.8

8306290874 Deposition of E Swanson on 820722 in New York, NY. Pp 1-306.

SWANSON, E. : Babcock & Wilcox Co.

DATE ISS: 82/07/22, 162pp. , 48X: 19149-331, ODI: , TN: GB07 7.2, 7.11

8306290790 Deposition of JH Taylor on 810519 in New York, NY. Pp 1-148.

TAYLOR, J. H. : Babcock & Wilcox Co.

DATE ISS: 81/05/19, 148pp. , 48X: 19154-067, ODI: , TN: GB07 IRRELEVANT

8306290803 Deposition of JH Taylor on 810520 in New York, NY.  
Pp 149-283.

TAYLOR, J. H. : Babcock & Wilcox Co.

DATE ISS: 81/05/20, 134pp. , 48X: 19154-216, ODI: , TN: GB07 IRRELEVANT

8306290840 Deposition of JF Walters on 810414 in New York, NY.  
Pp 164-289.

WALTERS, J. F. : Babcock & Wilcox Co.

DATE ISS: 81/04/14, 125pp. , 48X: 19155-059, ODI: , TN: GB07 IRRELEVANT



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8306290854 Deposition of JF Walters on B10416 in New York, NY.  
Pp 436-550.

WALTERS, J. F. : Babcock & Wilcox Co.

DATE ISS: 81/04/16, 114pp. , 48X: 19156-332, ODI:

, TN: Q807

IRRELEVANT

8306290765 Deposition of EA Womack on 801208 in New York, NY.  
Pp 1-184.

WOMACK, E. A. : Babcock & Wilcox Co.

DATE ISS: 80/12/08, 188pp. , 48X: 19160-254, ODI:

, TN: Q807

7.2

8306290768 Deposition of EA Womack on 801209 in New York, NY.  
Pp 185-360.

WOMACK, E. A. : Babcock & Wilcox Co.

DATE ISS: 80/12/09, 188pp. , 48X: 19161-081, ODI:

, TN: Q807

7.2

8306290760 Deposition of WH Zewe on 820528 in New York, NY. Pp 791-853.

ZEWE, W. H. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/05/28, 62pp. , 48X: 19168-028, ODI:

, TN: Q807

7.1, 7.8

000635 RECORDS SCANNED 70 RECORDS PRINTED ( 6 RECORDS, 64 SUPP. )  
ENDING CODE- 186 LAST KEY- ZEWE, W. H. 820528Q807

CATEGORY 7

EXHIBITS

U. S. NUCLEAR REGULATORY COMMISSION  
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8307110046 "TMI-2 Transient on 780423:Task Force Rept."

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:78/08/10, 170pp. ,48x:19477-049,00I:B&W 0186 ,TN:GB07 7.3, 7.9

8307050409 "RETRAN Analyses of Rapid Cooldown Transient TMI-2,"

BROUGHTON,T.G. :General Public Utilities - GPU Service Corp.  
: DATE ISS:78/10/13, 91pp. ,48x:19323-059,00I:B&W 0188 ,TN:GB07 IRRELEVANT

8307070193 Forwards final minutes of Meeting 30 of General Ofc Review  
board re TMI.

HEPPERT,D.H. :General Public Utilities - GPU Service Corp.  
BARTMAN,J.S. :General Public Utilities - GPU Service Corp.  
: DATE ISS:78/10/24, 11pp. ,48x:19325-060,00I:B&W 0209 ,TN:GB07 IRRELEVANT

8307020095 Transcript of 790425 interview w/B Mehler.

MEHLER,B. :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/04/25, 16pp. ,48x:19245-181,00I:B&W 0238 ,TN:GB07 IRRELEVANT

8307020098 Transcript of 790510 interview w/B Mehler.

MEHLER,d. :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/05/10, 45pp. ,48x:19246-004,00I:B&W 0239 ,TN:GB07 IRRELEVANT

8307050297 Transcript of E Frederick & C Faust 790329 statement of  
events leading up to incident,hand-written copy encl.

FREDERICK,E. :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/03/29, 6pp. ,48x:19327-095,00I:B&W 0257 ,TN:GB07 IRRELEVANT

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8307050304 TMI staff interview w/C Faust re sequence of events leading  
up to turbine trip.

FAUST, C. : General Public Utilities - GPU Service Corp.  
: |  
DATE ISS: 79/03/30, 12pp. , 48x: 19327-101, OOI: B&W 0258 , TN: G807 IRRELEVANT

8307050526 Preliminary inquiry of TMI incident of 790328.

ZENE, W. H. : General Public Utilities - GPU Service Corp.  
: |  
DATE ISS: 79/04/03, 50pp. , 48x: 19327-282, OOI: B&W 0271 , TN: G807 IRRELEVANT

8307050535 Rev 11 to Emergency Procedure 2202-1.3, "Loss of Reactor  
Coolant/Reactor Coolant Sys Pressure."

WARREN, R. P. : General Public Utilities - GPU Service Corp.  
: |  
DATE ISS: 78/10/06, 26pp. , 48x: 19327-192, OOI: B&W 0272 , TN: G807 IRRELEVANT

8307120662 "Memory Trip Review."

\* : Metropolitan Edison Co.  
: |  
DATE ISS: 81/09/24, 3pp. , 48x: 19502-211, OOI: B&W 0279 , TN: G807 IRRELEVANT

8307080033 Figure 80: TMI-2 LUCA on 790328, pump operating history.

\* : General Public Utilities - GPU Service Corp.  
: |  
DATE ISS: 79/03/26, 1p. , 48x: 19331-002, OOI: B&W 0280 , TN: G807 IRRELEVANT

8307080044 Graph of reactor coolant temp average on 790328.

\* : Babcock & Wilcox Co.  
: |  
DATE ISS: 79/03/28, 1p. , 48x: 19331-003, OOI: B&W 0281 , TN: G807 IRRELEVANT

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8307080653 Radiation monitoring sys operability logs.

\* Metropolitan Edison Co.  
DATE ISS:79/03/28, 900, ,44x119333-129,001:B&N 0308 ,TN:G807 IRRELEVANT

8307080668 Chart for 790328.

\* Metropolitan Edison Co.  
DATE ISS:79/03/28, 300, ,44x119333-174,001:B&N 0310 ,TN:G807 IRRELEVANT

8307080671 Chart for 790328.

\* Babcock & Wilcox Co.  
DATE ISS:79/03/28, 200, ,44x119333-177,001:B&N 0311 ,TN:G807 IRRELEVANT

8307080678 Chart showing pressurizer level on 790330.

\* Metropolitan Edison Co.  
DATE ISS:79/03/30, 800, ,44x119333-179,001:B&N 0312 ,TN:G807 IRRELEVANT

8307080682 Charts showing reactor bldg temps on 790329.

\* Metropolitan Edison Co.  
DATE ISS:79/03/29, 1300, ,44x119333-187,001:B&N 0313 ,TN:G807 IRRELEVANT

8307080686 Charts showing reactor unit temp average on 790328.

\* Metropolitan Edison Co.  
DATE ISS:79/03/28, 200, ,44x119333-228,001:B&N 0314 ,TN:G807 IRRELEVANT

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8307080689 Charts for 790328.

\* :Metropolitan Edison Co.  
:1  
DATE ISS:79/03/28, 21pp. ,48x:19333-230,001:8&W 0315 ,TN:G807 IRRELEVANT

8307070397 First draft "GPU Task Force Interim Summary Rept."

\* :General Public utilities - GPU Service Corp.  
:1  
DATE ISS:79/09/28, 5pp. ,48x:19321-250,001:8&W 0347 ,TN:G807 IRRELEVANT

8308230609 Transcript of TMI Investigative Task Force Taped Interview 8  
(Keaten Tapes) on 790919, Pa 1-64.

\* :General Public utilities - GPU Service Corp.  
:1  
DATE ISS:79/09/19, 65pp. ,48x:20126-073,001:8&W 0347H ,TN:G807 IRRELEVANT

8308230612 Transcript of TMI Investigative Task Force Taped Interview 9  
(Keaten Tapes) on 790919, Pa 1-30.

\* :General Public utilities - GPU Service Corp.  
:1  
DATE ISS:79/09/19, 31pp. ,48x:20126-138,001:8&W 0347I ,TN:G807 IRRELEVANT

8308230623 Transcript of TMI Investigative Task Force Taped Interview  
12 (Keaten Tapes) on 790920, Pa 1-59.

\* :General Public utilities - GPU Service Corp.  
:1  
DATE ISS:79/09/20, 60pp. ,48x:20126-301,001:8&W 0347L ,TN:G807 IRRELEVANT

8307080693 "GPU Accident Review Task Force Final Summary Rept."

\* :General Public utilities - GPU Service Corp.  
:1  
DATE ISS:80/03/24, 41pp. ,48x:119403-068,001:8&W 0354 ,TN:G807 7.1, 7.8



U. S. NUCLEAR REGULATORY COMMISSION  
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8307080695 "GPU Accident Review Task Force Final Summary Rept."

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:80/05/12, 50pp. ,48x:19403-112,ODI:B&W 0355 ,TN:G807 7.1

8307080698 "GPU Accident Review Task Force Final Summary Rept."

KEATEN,R.W. :General Public Utilities - GPU Service Corp.  
: DATE ISS:80/12/15, 49pp. ,48x:19403-161,ODI:B&W 0356 ,TN:G807 7.1

8307080145 Roton 780423,reactor protection sys & turbine generator tripped,feed flow A off scale low,once-through steam generator pressure dropped,reactor protection sys channel pressure low & pressure heater GRP 3/5 tripped.

\* :Metropolitan Edison Co.  
: DATE ISS:78/04/23, 10pp. ,48x:19334-307,ODI:B&W 0388 ,TN:G807 IRRELEVANT

8307080156 Marked-up handwritten rept on RETRAN version of pressurizer study of TMI-2 dual lowered loop,177 fuel assembly.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/07, 64pp. ,48x:19334-177,ODI:B&W 0389 ,TN:G807 IRRELEVANT

8307080164 "Dual Lowered Loop,177 Fuel Assembly," RETRAN version, pressurizer study.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/07, 19pp. ,48x:19335-047,ODI:B&W 0391 ,TN:G807 IRRELEVANT

8307080664 "TMI Accident Analysis."

\* :Babcock & Wilcox Co.  
: DATE ISS:82/02/09, 23pp. ,48x:19393-007,ODI:B&W 0412 ,TN:G807 IRRELEVANT

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NRC SPECIAL REPORT

8307120788 Forwards addl ECCS small break analyses for B&W 177 fuel assembly lowered loop NSS. Analyses are in accordance w/small break model approved in Rev 3 to dAN=10104A, "B&W ECCS Evaluation Model," except two mods proposed in 780526 ltr.

TAYLOR, J.H. : Babcock & Wilcox Co.

VARGA, S.A. : Light Water Reactors Branch 4

DATE ISS:78/07/20, 25pp. ,48x:19502=303,00I:B&W 0419 ,TN:G807

IRRELEVANT

8307080630 Deposition of G Kunder on 790918 in Middletown, PA. Pp 1-119.

KUNDER, G.A. : General Public Utilities - GPU Service Corp.

DATE ISS:79/09/18, 296pp. ,48x:19393=130,00I:B&W 0421 ,TN:G807

IRRELEVANT

8307110676 Operation log. Summary of things to be added to rept, including design change & pump operation on engineered safeguards sys.

\* : General Public Utilities - GPU Service Corp.

DATE ISS:82/02/19, 12pp. ,48x:19442=044,00I:B&W 0457 ,TN:G807

IRRELEVANT

8307110680 Draft "TR1-2 Makeup Pump Operation."

BILLINGSLEY, W. : General Public Utilities - GPU Service Corp.

DATE ISS:79/10/01, 34pp. ,48x:19442=056,00I:B&W 0458 ,TN:G807

IRRELEVANT

8307110685 Requests review of draft rept re reactor coolant makeup pump computer indicator.

WALLACE, E. : General Public Utilities - GPU Service Corp.

: General Public Utilities - GPU Service Corp.

DATE ISS:82/02/19, 2pp. ,48x:19442=090,00I:B&W 0459 ,TN:G807

IRRELEVANT

8307110699 Operational log. Summary of operational sequence of events on 790328 accident.

\* : General Public Utilities - GPU Service Corp.

DATE ISS:82/02/18, 297pp. ,48x:19442=111,00I:B&W 0465 ,TN:G807

IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307090230 Vol II, "Accident."

\* :Babcock & Wilcox Co.  
: DATE ISS:79/11/02, 150pp. ,48x:19412=126,00I:B&W 0466 ,TN:GB07 IRRELEVANT

8307090254 Submits latest notice of events & requests particular attention given to thermal/hydraulics.

BILLINGSLEY,W. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:79/11/26, 1p. ,48x:19413=129,00I:B&W 0510 ,TN:GB07 IRRELEVANT

8307090262 Forwards list of preliminary questions & comments on operational sequence of events & rough form 15 page list of questions & comments from discussions.#/o encls.

ANKRUM,A. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:79/11/09, 2pp. ,48x:19413=139,00I:B&W 0512 ,TN:GB07 IRRELEVANT

8307090264 List sequence of events comments.

\* :Babcock & Wilcox Co.  
: DATE ISS:83/07/08, 5pp. ,48x:19413=169,00I:B&W 0513 ,TN:GB07 IRRELEVANT

8307080705 Discusses capability of proposed Yellow Creek nuclear plant to withstand small LOCA. Mid-Aug meeting proposed to resolve preliminary concerns re transient analysis. Response requested by 770805.

PATTERSON,D.R. :Tennessee Valley Authority  
LUMPKIN,R.L. :Combustion Engineering, Inc.  
DATE ISS:77/07/22, 5pp. ,48x:19418=012,00I:B&W 0542 ,TN:GB07 7.2

8307080719 Forwards App 5 to "Evaluation of Transient Behavior & Small RCS Breaks in 177 Fuel Assembly Plant," in response to 780427,790123 & U208 ltrs. Response to NRC request for addl info to be submitted shortly, completing record.

LIGHTLE,H.E. :Babcock & Wilcox Co.  
PATTERSON,D.R. :Tennessee Valley Authority  
DATE ISS:79/05/29, 1p. ,48x:19418=023,00I:B&W 0544 ,TN:GB07 7.2

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307080725 App 5 to "DHR During Very Small Break LOCA for B&W 205 Fuel  
Assembly PWR."

MICHAELSON, C. :Babcock & Wilcox Co.

DATE ISS:78/01/31, 26pp. ,48X:19418-024,00I:B&W 0544 ,TN:G807

7.2

8307080730 Submits handwritten comments & questions re TMI-2 accident.

\* :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.

DATE ISS:79/11/08, 14pp. ,48X:19418-080,00I:B&W 0550 ,TN:G807

IRRELEVANT

8307080738 Suggests possible misreading by operator.

\* :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.

DATE ISS:82/02/25, 2pp. ,48X:19418-122,00I:B&W 0551 ,TN:G807

IRRELEVANT

8307080740 Sequence of events review for reactor coolant pumps & motor.

\* :Babcock & Wilcox Co.

DATE ISS:83/07/07, 2pp. ,48X:19418-124,00I:B&W 0552 ,TN:G807

IRRELEVANT

8307090395 Forwards Rev 3 to TMI-2 Abnormal Procedure 2203-2.3, "Steam  
Supply Sys Rupture," per request.

BEZILLA, M.B. :General Public utilities - GPU Service Corp.

LANSE, L. :General Public utilities - GPU Service Corp.

DATE ISS:78/04/07, 1p. ,48X:19395-179,00I:B&W 0605 ,TN:G807

IRRELEVANT

8307090402 Rev 5 to TMI-2 Emergency Procedure 2202-1.3, "Loss of  
Reactor Coolant/RCS Pressure."

\* :General Public utilities - GPU Service Corp.

DATE ISS:78/03/01, 25pp. ,48X:19395-001,00I:B&W 0606 ,TN:G807

IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307090408 Forwards calculations which estimate expected pressurizer level for first 70 minutes of TMI-2 LOCA.

LANESE, L. :General Public utilities - GPU Service Corp.  
:General Public utilities - GPU Service Corp.  
DATE ISS:79/05/16, 44pp. ,48X:19396-340, ODI:d&w 0608 ,TN:GB07 IRRELEVANT

8307090396 Forwards response to question raised at 770907 meeting re long term cooling after steam line break accident. Encl demonstrates adequacy of TMI-2 design w/respect to concern.

HERBEIN, J.G. \* :Metropolitan Edison Co.  
VARGA, S.A. : Light water Reactors Branch 4  
DATE ISS:77/12/20, 4pp. ,48X:19443-190, ODI:b&w 0612 ,TN:GB07 IRRELEVANT

8307090396 "Long Term Cooling Following Steam Line Break," attachment to 771220 ltr.

\* :Metropolitan Edison Co.  
:   
DATE ISS:77/12/20, 3pp. ,48X:19443-194, ODI:b&w 0613 ,TN:GB07 IRRELEVANT

8307090163 Testimony of E Frederick re accident at TMI-2.

FREDERICK, E. :Metropolitan Edison Co.  
:   
DATE ISS:79/05/10, 79pp. ,48X:19398-037, ODI:b&w 0654 ,TN:GB07 7.6, 7.11

8307090168 "TMI Staff Interview: Frederick."

VANWHITBECK, T. :General Public utilities - GPU Service Corp.  
:   
DATE ISS:79/04/06, 6pp. ,48X:19398-228, ODI:b&w 0655 ,TN:GB07 IRRELEVANT

8307090193 Draft interview w/E Frederick at TMI site on 790423.

FREDERICK, E. :Metropolitan Edison Co.  
:   
DATE ISS:79/04/23, 67pp. ,48X:19398-129, ODI:b&w 0660 ,TN:GB07 7.11

U. S. NUCLEAR REGULATORY COMMISSION  
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8307090203 Interview w/E Frederick, control room operator at TMI-2 on  
790330.

FREDERICK, E. : Metropolitan Edison Co.

DATE ISS: 79/03/30, 12pp. , 48x: 19399-002, OOI: B&W 0661 , TN: G807

7.2

8307110753 Forwards marked-up copy of annotated sequence of events re  
TMI accident of 790328. Comments resulted from PURC meetings  
on 790514, 16 & 17.

MILLER, G. P. : Metropolitan Edison Co.

DATE ISS: 79/05/21, 3pp. , 48x: 19478-001, OOI: B&W 0666 , TN: G807

7.9, 7.15

8307090214 Forwards marked-up "Annotated Sequence of Events," resulting  
from TMI-2 PURC 790514, 16-17 meetings. Comments addressed on  
Page 8 should be reviewed & appropriately considered when  
preparing future versions.

MILLER, G. P. : Metropolitan Edison Co.

VANWITBECK, T. : Metropolitan Edison Co.  
DATE ISS: 79/05/21, 45pp. , 48x: 19399-021, OOI: B&W 0667 , TN: G807

7.9, 7.15

8307090239 Operational log, Summary of TMI-2 Incident.

\* : General Public Utilities - GPU Service Corp.

DATE ISS: 79/03/28, 11pp. , 48x: 19399-126, OOI: B&W 0671 , TN: G807

IRRELEVANT

8307090248 Minutes from Williams Committee 790329 meeting re TMI-2  
incident. Minutes from Initial Team 790329 meeting also encl.

\* : General Public Utilities - GPU Service Corp.

DATE ISS: 79/03/29, 6pp. , 48x: 19399-137, OOI: B&W 0672 , TN: G807

IRRELEVANT

8307090253 Operational log, Event descriptions.

\* : General Public Utilities - GPU Service Corp.

DATE ISS: 79/06/15, 5pp. , 48x: 19399-171, OOI: B&W 0673 , TN: G807

IRRELEVANT



U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307090256 Marked-up copy of report re TMI-2 incident possible causes & solutions.

\* Babcock & Wilcox Co.  
DATE ISS:79/04/07, 13pp., ,48x:19399=176,OOI:8&W 0674 ,TN:G807 7.1, 7.9

8307090270 Sequence of events:TMI-2 790328 incident.

\* Babcock & Wilcox Co.  
DATE ISS:79/03/28, 4pp., ,48x:19399=189,OOI:8&W 0675 ,TN:G807 IRRELEVANT

8307090275 Incomplete draft of sequence of events at TMI-1 & 2.

\* General Public Utilities - GPU Service Corp.  
DATE ISS:79/04/13, 1p., ,48x:19399=193,OOI:8&W 0676 ,TN:G807 7.6, 7.11

8307090283 Draft preliminary sequence of events.

\* General Public Utilities - GPU Service Corp.  
DATE ISS:79/04/13, 15pp., ,48x:19399=194,OOI:8&W 0677 ,TN:G807 IRRELEVANT

8307090286 Draft preliminary sequence of events.

\* General Public Utilities - GPU Service Corp.  
DATE ISS:79/04/13, 15pp., ,48x:19399=237,OOI:8&W 0678 ,TN:G807 IRRELEVANT

8307090290 Draft preliminary sequence of events.

\* General Public Utilities - GPU Service Corp.  
DATE ISS:79/04/13, 14pp., ,48x:19399=252,OOI:8&W 0679 ,TN:G807 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
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8307090293 Draft preliminary sequence of events.

\* :General Public utilities - GPU Service Corp.  
: :  
DATE ISS:79/04/15, 11pp. ,48x:19399-295,001:B&W 0680 ,TN:G807 IRRELEVANT

8307090297 Forwards draft preliminary sequence of events following  
790328 TMI-2 accident.

LONG,R.L. :General Public utilities - GPU Service Corp.  
ARNOLD,R.C. :General Public utilities - GPU Service Corp.  
DATE ISS:79/04/16, 16pp. ,48x:19399-306,001:B&W 0681 ,TN:G807 IRRELEVANT

8307090302 Provides TMI-2 assessment documentation of Tasks 1 & 6.  
Preliminary chronology of 790328 accident at TMI also encl.

LONG,R.L. :General Public utilities - GPU Service Corp.  
VANWHITBECK,T. :General Public utilities - GPU Service Corp.  
DATE ISS:79/04/17, 8pp. ,48x:19399-350,001:B&W 0682 ,TN:G807 IRRELEVANT

8307090306 Summary of differences between NRC sequence of events & GPU  
re 790328 accident at TMI-2.

VANWHITBECK,T. :General Public utilities - GPU Service Corp.  
: :  
DATE ISS:79/04/19, 4pp. ,48x:19399-356,001:B&W 0683 ,TN:G807 IRRELEVANT

8307090312 Draft sequence of events of TMI-2 accident of 790328 issued  
790416.

\* :General Public utilities - GPU Service Corp.  
: :  
DATE ISS:79/04/21, 15pp. ,48x:19400-001,001:B&W 0684 ,TN:G807 IRRELEVANT

8307090319 Draft annotated sequence of events of TMI-2 accident on  
790328.

\* :General Public utilities - GPU Service Corp.  
: :  
DATE ISS:79/04/27, 29pp. ,48x:19400-016,001:B&W 0685 ,TN:G807 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
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8307090331 Forwards 790510 preliminary annotated sequence of events.

ZODIACO, V.P. :General Public Utilities - GPU Service Corp.  
ARNOLD, R.C. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/05/11, 212pp. ,48x:19400-131,001:B&W 0688 ,TN:G807 IRRELEVANT

8307110755 Preliminary annotated sequence of events for 790328.

\* :Babcock & Wilcox Co.  
: :  
DATE ISS:79/07/16, 122pp. ,48x:19478-288,001:B&W 0689 ,TN:G807 IRRELEVANT

8307090334 Comments on Rev 1 to preliminary annotated sequence of events for 790328 accident.

COBEAN, W.R. :Burns & Roe Co.  
LONG, R.L. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/07/20, 1p. ,48x:19400-343,001:B&W 0690 ,TN:G807 IRRELEVANT

8307110717 Comments on preliminary documents re annotated sequence of events on 790328.

ISAFFARIS, A. :Babcock & Wilcox Co.  
LONG, R. :Babcock & Wilcox Co.  
DATE ISS:82/05/19, 3pp. ,48x:19445-057,001:B&W 0691 ,TN:G807 IRRELEVANT

8307110720 Forwards detailed sequence of events through 790430 to be added to Section I of 790710 submittal.

HERBEIN, J.G. :Metropolitan Edison Co.  
GRIER, B.H. : Region 1, Philadelphia, Office of the Director  
DATE ISS:80/03/18, 184pp. ,48x:19445-060,001:B&W 0692 ,TN:G807 IRRELEVANT

8307110730 Agenda for TMI-2 Investigation Task Force.

\* :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:79/06/12, 2pp. ,48x:19445-175,001:B&W 0696 ,TN:G807 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
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8307110732 Submits questions re TMI-2 incident on 790328.

\* :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:79/06/13, 3pp., ,48x:19445=177,ODI:B&W 0697 ,TN:GB07 IRRELEVANT

8307110735 Submits tasks & subtasks for task teams.

\* :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:79/07/09, 16pp., ,48x:19445=180,ODI:B&W 0698 ,TN:GB07 IRRELEVANT

8307110739 Forwards first rough draft, "GPU Task Force Interim Summary Rept."

KEATON,R.H. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:79/09/28, 1p., ,48x:19446=002,ODI:B&W 0699 ,TN:GB07 IRRELEVANT

8307110742 "GPU Task Force Interim Summary Rept."

\* :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:79/09/28, 52pp., ,48x:19446=003,ODI:B&W 0699 ,TN:GB07 IRRELEVANT

8307110744 Requests copy of encl package re task force draft rept.

LONG,R.L. :Babcock & Wilcox Co.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:79/10/07, 5pp., ,48x:19446=060,ODI:B&W 0700 ,TN:GB07 IRRELEVANT

8307110752 "GPU Task Force Investigative Rept."

BROUGHTON,T.G. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:79/11/27, 46pp., ,48x:19446=134,ODI:B&W 0702 ,TN:GB07 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
4RC SPECIAL REPORT

8307110757 \*GPU Accident Review Task Force Final Summary Rept.\*

KEATEN, R.W. :General Public Utilities - GPU Service Corp.  
1  
DATE ISS:80/03/24, 43pp. ,48x119446-346,001:8&N 0703 ,TN:G807 IRRELEVANT

8307110763 Forwards TOR TMI-111, "Analysis of TMI-2 Operator Response,"  
for review. Comments requested by 790625.

BROUGHTON, T.G. :General Public Utilities - GPU Service Corp.  
LUNG, R. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/06/21, 32pp. ,48x119447-062,001:8&N 0705 ,TN:G807 IRRELEVANT

8307110769 "Analysis of TMI-2 Operator Response."

WALSH, P.S. :General Public Utilities - GPU Service Corp.  
1  
DATE ISS:82/05/20, 3pp. ,48x119447-066,001:8&N 0706 ,TN:G807 IRRELEVANT

8307090353 Forwards response to 791025 notice of violation & notice of  
proposed issuance of civil penalties based on IE  
investigation of 790328 accident.

ARNOLD, R.C. :Metropolitan Edison Co.  
STELLO, V. :Office of Inspection & Enforcement, Office of the Director  
DATE ISS:79/12/05, 97pp. ,48x119492-019,001:8&N 0707 ,TN:G807 IRRELEVANT

8307110777 Presentation at 791003 EEI Prime Movers meeting.

\* :General Public Utilities - GPU Service Corp.  
1  
DATE ISS:79/10/03, 27pp. ,48x119447-241,001:8&N 0710 ,TN:G807 IRRELEVANT

8307110780 \*Development of Technical Support for TMI-2 Accident.\*

\* :General Public Utilities - GPU Service Corp.  
1  
DATE ISS:79/10/31, 2pp. ,48x119447-156,001:8&N 0711 ,TN:G807 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
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8307110783 Draft A-3 paper re TMI-2 onsite technical support group activities to identify & solve problems by priority.

\* Babcock & Wilcox Co.  
1  
DATE ISS:79/10/23, 12pp., ,48x119447=158,001:0&N 0712 ,TN:G807 IRRELEVANT

8307110785 Draft "Analysis of Technical Support Following TMI-2 Accident."

\* Babcock & Wilcox Co.  
1  
DATE ISS:79/10/29, 24pp., ,48x119447=170,001:0&N 0713 ,TN:G807 IRRELEVANT

8307110787 Draft of "Analysis of Technical Support Following TMI-2 Accident."

\* Babcock & Wilcox Co.  
1  
DATE ISS:79/10/29, 12pp., ,48x119447=194,001:0&N 0714 ,TN:G807 IRRELEVANT

8307110788 Draft of Technical Support Resources & Organization."

\* Babcock & Wilcox Co.  
1  
DATE ISS:82/05/20, 9pp., ,48x119447=012,001:0&N 0715 ,TN:G807 IRRELEVANT

8307110791 Draft "Organization for Technical Support."

\* Babcock & Wilcox Co.  
1  
DATE ISS:82/05/20, 7pp., ,48x119447=021,001:0&N 0716 ,TN:G807 IRRELEVANT

8307090017 Draft Rev 0 to "Accident Transient Modeling Analysis."

BROUGHTON, F.G. General Public Utilities - GPU Service Corp.  
1  
DATE ISS:79/06/12, 212pp., ,48x119446=028,001:0&N 0717 ,TN:G807 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
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8307090026 Forwards TMI staff interview of H McGovern dtd 790504 &  
OA berry notes on 790329 re 790328 incident.

ZODIACO, V.P. :General Public Utilities - GPU Service Corp.  
BLAKE, E.L. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/05/10, 447pp. ,48x:19449-031, OOI:8&W 0714 ,TN:G807 IRRELEVANT

8307090054 Notes on operational aspects of 790328 event.

\* :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:79/07/17, 17pp. ,48x:19450-134, OOI:8&W 0726 ,TN:G807 IRRELEVANT

8307090009 Draft IE investigation rept of certain aspects of accident  
at TMI-2 on 790328.

\* :Office of Inspection & Enforcement, Office of the Director  
: :  
DATE ISS:79/07/16, 933pp. ,48x:19450-151, OOI:8&W 0727 ,TN:G807 IRRELEVANT

8307090014 "NRC Sequence of Events:Miscellaneous Notes."

\* :Office of Inspection & Enforcement, Office of the Director  
: :  
DATE ISS:79/06/22, 2pp. ,48x:19453-022, OOI:8&W 0729 ,TN:G807 IRRELEVANT

8307120252 Discusses items & assignment of responsibilities needed to  
address NRC IE investigation draft rept findings. Initial  
response requested by 790622 & final response by 790912.

WALLACE, E.G. :General Public Utilities - GPU Service Corp.  
BEHRLE, W.H. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/08/06, 3pp. ,48x:19454-130, OOI:8&W 0731 ,TN:G807 IRRELEVANT

8307120265 Forwards comments on NRC radiological sequence of events on  
790328-30 & IE testimony to NRC.

WOODARD, K. :Pickard, Lowe & Garrick, Inc.  
LONG, R. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/07/12, 66pp. ,48x:19454-245, OOI:8&W 0731 ,TN:G807 IRRELEVANT



U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307120301 Draft transcript of 790412 interview w/n Zewe.

ZEW E, W. : Metropolitan Edison Co.  
:   
DATE ISS: 79/04/12, 67pp. , 48x: 19456-003, ODI: B&W 0748 , TN: GB07 7.1

8307080687 Testimony of GA Kunder on 790511. Pp 1-3b & 1-21.

KUNDER, G. A. : Metropolitan Edison Co.  
:   
DATE ISS: 79/05/11, 58pp. , 48x: 19409-137, ODI: B&W 0862 , TN: GB07 IRRELEVANT

8307090342 Forwards third draft investigative task force summary report re TMI accident. Report reflects revs discussed during 791011-12 meetings. Comments requested by 791022.

KEATEN, R. W. : General Public Utilities - GPU Service Corp.  
: General Public Utilities - GPU Service Corp.  
DATE ISS: 79/10/17, 77pp. , 48x: 19400-165, ODI: B&W 0907 , TN: GB07 IRRELEVANT

8307090362 "Transient Analysis, Lecture Outline."

NELSON, M. A. : Babcock & Wilcox Co.  
:   
DATE ISS: 82/08/17, 67pp. , 48x: 19401-125, ODI: B&W 0913 , TN: GB07 IRRELEVANT

8307120646 Submits questions re electromatic valve remaining open.

ZEW E, W. H. : Metropolitan Edison Co.  
: Metropolitan Edison Co.  
DATE ISS: 83/07/11, 3pp. , 48x: 19462-295, ODI: B&W 4013 , TN: GB07 IRRELEVANT

8307120657 RCS temp, pressure & pressurizer level data for 780423 & 790328.

\* : Metropolitan Edison Co.  
:   
DATE ISS: 79/03/28, 1p. , 48x: 19462-298, ODI: B&W 4014 , TN: GB07 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307120687 Transcript of E. Frederick interview on 790510 before  
President's Commission.

FREDERICK, E. : General Public Utilities - GPU Service Corp.

DATE ISS: 79/05/10, 79pp., 48x: 19462-306, OOI: B&W 4020, TN: GB07

IRRELEVANT

8307120704 Graph of "Makeup Tank Level Response During Known MPI  
Actuation."

\* : Babcock & Wilcox Co.

DATE ISS: 79/03/28, 1p., 48x: 19463-039, OOI: B&W 4022, TN: GB07

IRRELEVANT

8307090284 Graph of PWRV steam flow vs pressure from one &/or two  
pumps.

\* : Babcock & Wilcox Co.

DATE ISS: 83/07/09, 1p., 48x: 19487-332, OOI: B&W 4028, TN: GB07

IRRELEVANT

8307120750 Testimony of C. Michelson on 790906 in Bethesda, MD, Pp 1-63.

MICHELSON, C. : Tennessee Valley Authority

DATE ISS: 79/09/06, 63pp., 48x: 19463-061, OOI: B&W 4029, TN: GB07

IRRELEVANT

8307120759 "Analysis of TMI-2 Accident w/Continuous Operation of  
Reactor Coolant Pumps."

\* : General Public Utilities - GPU Service Corp.

DATE ISS: 82/12/31, 23pp., 48x: 19463-124, OOI: B&W 4030, TN: GB07

IRRELEVANT

8307120640 Ack receipt of preventive maint job index-by component  
(RC-R-0002), Change/Mod Request form 20267 & work Request  
C-0055 on 790921.

HAYNES, R. C. : NRC - no Detailed Affiliation Given

GUERIN, J. : Metropolitan Edison Co.

DATE ISS: 79/09/21, 2pp., 48x: 19495-261, OOI: B&W 4036, TN: GB07

IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
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8307120755 Handwritten Test Log, book 3.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:78/03/30, 3pp. ,48x:19495-298,001:B&W 4050 ,TN:GB07 IRRELEVANT

8307120768 Computerized list of memory trip review.

\* :Babcock & Wilcox Co.  
: DATE ISS:78/06/29, 3pp. ,48x:19495-301,001:B&W 4051 ,TN:GB07 IRRELEVANT

8307120762 Handwritten Test Log, book 2.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:77/09/08, 6pp. ,48x:19495-304,001:B&W 4052 ,TN:GB07 IRRELEVANT

8307120774 Publications section of GB Wallis resume.

WALLIS,G.B. :Affiliation Unknown  
: DATE ISS:82/05/14, 9pp. ,48x:19495-312,001:B&W 4053 ,TN:GB07 IRRELEVANT

8307120789 Graph of drain tank pressure time after turbine trip.

\* :Babcock & Wilcox Co.  
: DATE ISS:83/07/11, 1p. ,48x:19495-321,001:B&W 4054 ,TN:GB07 IRRELEVANT

8307120808 Graph of heat generation rate for accident.

\* :Babcock & Wilcox Co.  
: DATE ISS:83/07/11, 1p. ,48x:19495-322,001:B&W 4055 ,TN:GB07 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
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8307120815 "RCS Temp, Pressure & Pressurizer Level for 780423, 1107, 1202  
& Accident."

\* :Metropolitan Edison Co.  
: DATE ISS:83/07/11, 1200. ,48x:19495-323,001:B&W 4057 ,TN:GB07 IRRELEVANT

8307120820 "TMI-2 Reactimeter Data (790328)."

\* :Babcock & Wilcox Co.  
: DATE ISS:79/03/28, 7200. ,48x:19495-335,001:B&W 4058 ,TN:GB07 IRRELEVANT

8307120873 TMI-2 Unidentified Leakage Calculation."

\* :Babcock & Wilcox Co.  
: DATE ISS:79/03/19, 10. ,48x:19496-232,001:B&W 4067 ,TN:GB07 IRRELEVANT

8307120877 "Subcooled & Natural Circulation."

\* :Babcock & Wilcox Co.  
: DATE ISS:83/07/11, 10. ,48x:19496-233,001:B&W 4068 ,TN:GB07 IRRELEVANT

8307120882 "Prior to Interruption."

\* :Babcock & Wilcox Co.  
: DATE ISS:83/07/11, 10. ,48x:19496-234,001:B&W 4069 ,TN:GB07 IRRELEVANT

8307120886 "Just After Interruption."

\* :Babcock & Wilcox Co.  
: DATE ISS:83/07/11, 10. ,48x:19496-235,001:B&W 4070 ,TN:GB07 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
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8307120892 "Loop Draining."

\* :Babcock & Wilcox Co.  
: DATE ISS:83/07/11, 1p., 48x:19496-236, ODI:B&W 4071 , TN:GB07 IRRELEVANT

8307130016 "Boiling Pot."

\* :Babcock & Wilcox Co.  
: DATE ISS:83/07/11, 1p., 48x:19496-237, ODI:B&W 4072 , TN:GB07 IRRELEVANT

8307120800 Discusses question of potential safety concern filed against 205 plants re secondary side auxiliary feedwater control level. Engaged in studies at present to decide appropriate action.

DUNN, B.M. :Babcock & Wilcox Co.  
TAYLOR, J.H. :Babcock & Wilcox Co.  
DATE ISS:78/11/16, 2pp., 48x:19462-293, ODI:B&W 4073 , TN:GB07 IRRELEVANT

8307130020 Computerized list re sequence of events.

\* :Babcock & Wilcox Co.  
: DATE ISS:79/03/28, 1p., 48x:19496-238, ODI:B&W 4111 , TN:GB07 IRRELEVANT

8307130026 Computerized list of sequence of events.

\* :Babcock & Wilcox Co.  
: DATE ISS:79/03/28, 1p., 48x:19496-239, ODI:B&W 4112 , TN:GB07 IRRELEVANT

8307130046 Transcript of 790525 util group discussion.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/05/25, 3pp., 48x:19496-346, ODI:B&W 5000AA , TN:GB07 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
ARC SPECIAL REPORT

8307130054 Transcript of 790525 util group discussion.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/05/25, 3pp. ,48x:19496-349,00I:B&W 50008d ,TN:G807 IRRELEVANT

8307130060 Transcript of 790525 util group discussion.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/05/25, 3pp. ,48x:19496-352,00I:B&W 5000CC ,TN:G807 IRRELEVANT

8307130078 Transcript of 790412 interview w/util.

\* :Director's Office, Office of Inspection and Enforcement  
: DATE ISS:79/04/12, 1p. ,48x:19496-355,00I:d&w 5001AA ,TN:G807 IRRELEVANT

8307130088 Transcript of 790406 util interview.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/04/06, 1p. ,48x:19496-35d,00I:B&W 5002AA ,TN:G807 IRRELEVANT

8307130119 Transcript of 790421 interview w/util.

\* :Director's Office, Office of Inspection and Enforcement  
: DATE ISS:79/04/21, 1p. ,48x:19497-010,00I:B&W 5006AA ,TN:G807 IRRELEVANT

8307130126 Transcript of 790406 interview w/util.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/04/06, 3pp. ,48x:19497-011,00I:B&W 5007AA ,TN:G807 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
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8307010268 "Interim Rept of TMI-2 Occurrence, Technical Review  
Committee."

\* :Babcock & Wilcox Co.

DATE ISS:79/05/25, 118pp. ,48x:19179-127,ODI:GPU 0004 ,TN:GB07 7.2, 7.6, 7.9, 7.11

8307010270 "Interim Rept of TMI-2 Occurrence, Technical Review  
Committee."

\* :Babcock & Wilcox Co.

DATE ISS:79/06/08, 61pp. ,48x:19179-244,ODI:GPU 0005 ,TN:GB07 7.2, 7.6, 7.9, 7.11

8307010274 "Final Rept of TMI-2 Occurrence, Technical Review  
Committee."

\* :Babcock & Wilcox Co.

DATE ISS:79/07/31, 234pp. ,48x:19179-316,ODI:GPU 0006 ,TN:GB07 7.2, 7.6, 7.7, 7.9, 7.11

8307020007 "Final Rept of TMI-2 Occurrence, Technical Review Committee."

\* :Babcock & Wilcox Co.

DATE ISS:83/06/30, 54pp. ,48x:19228-221,ODI:GPU 0007 ,TN:GB07 7.11

8307020032 Forwards info on event sequences to aid witnesses at  
hearings. Event tree constructed on fifth day of accident  
identified addl options to cold shutdown beyond WASH-1400.

WEAVER, W.W. :Babcock & Wilcox Co.

KULYNYCH, G.E. :Babcock & Wilcox Co.

DATE ISS:79/04/23, 17pp. ,48x:19228-336,ODI:GPU 0018 ,TN:GB07 7.11

8307020040 Presents Analysis Branch contribution to task group formed  
to assess protection of operating B&W plants against  
feedwater transients. Info usually provided on feedwater  
transients insufficient to show regulation compliance.

ROSZTUCZY, Z.R. : Analysis Branch

TEDESCO, R.L. : Assistant Director for Reactor Safety

DATE ISS:79/04/10, 9pp. ,48x:19228-357,ODI:GPU 0020 ,TN:GB07 IRRELEVANT



U. S. NUCLEAR REGULATORY COMMISSION  
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- 8307020105 "Safety Aspects of Mulheim-Karlich Plant in View of TMI-2 Accident."  
\* :Babcock & Wilcox Co.  
: :  
DATE ISS:79/05/31, 300pp. ,48x:19229-061,UDI:GPU 0032 ,TN:GB07 7.2
- 8307120340 Recommends procedure for termination HPI following LOCA Scheme acceptable from standpoint of preventing adverse long adverse long range problems & easier to implement.  
DUNN,B.M. :Babcock & Wilcox Co.  
TAYLOR,J. :Babcock & Wilcox Co.  
DATE ISS:78/02/16, 2pp. ,48x:19512-337,UDI:GPU 0079 ,TN:GB07 7.2
- 8307120348 Minutes of 781127 meeting w/Toledo Edison Co in Lynchburg, VA re design & requirements for Davis-Besse Unit 1 auxiliary feedwater sys operation.List of attendees & meeting agenda encl.  
CARTIN,L.R. :Babcock & Wilcox Co.  
KARRASCH,B.A. :Babcock & Wilcox Co.  
DATE ISS:78/11/29, 15pp. ,48x:19512-341,UDI:GPU 0082A ,TN:GB07 7.9
- 8307120378 Rev 3 to "ECCS Analysis of B&W 177-FA Lowered-Loop NSS."  
JONES,R.C. :Babcock & Wilcox Co.  
: :  
DATE ISS:77/07/31, 315pp. ,48x:19513-001,UDI:GPU 0088 ,TN:GB07 IRRELEVANT
- 830708005b Rev 1 to "Multinode Analysis of Small Breaks for B&W 2568-Muc Nuclear Plants."  
\* :Babcock & Wilcox Co.  
: :  
DATE ISS:75/10/31, 34pp. ,48x:19337-281,UDI:GPU 0089 ,TN:GB07 IRRELEVANT
- 8307120775 Forwards reported concern re small breaks at pump discharge on 177FA lowered loop plants.Preliminary indication is that concern will be reportable per Part 21.Evaluations & recommendations for possible corrective action initiated.  
TAYLOR,J.H. :Babcock & Wilcox Co.  
JONES,R.C. :Babcock & Wilcox Co.  
DATE ISS:78/04/12, 4pp. ,48x:19464-124,UDI:GPU 0090 ,TN:GB07 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
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8307120783 Part 21 rept re small break LOCA at reactor coolant pump discharge. Initially reported on 780412. Potential solutions being evaluated. Normal plant operation should continue until investigation & solution complete.

TAYLOR, J.H. : Babcock & Wilcox Co.  
VOLGENAU, E. : Office of Inspection & Enforcement, Office of the Director  
DATE ISS: 78/04/14, 9pp. , 48x: 19464-128, ODI: GPU 0091 , TN: GB07

IRRELEVANT

8307120803 Forwards "Analysis of Small Breaks in Reactor Coolant Discharge Piping for B&W Lowered Loop 177 FA Plants."

TAYLOR, J.H. : Babcock & Wilcox Co.  
BAER, R.L. : Reactor Safety Branch  
DATE ISS: 78/05/01, 18pp. , 48x: 19464-138, ODI: GPU 0092 , TN: GB07

IRRELEVANT

8307080062 Discusses ECCS evaluation of 04 ft pump discharge break analysis. Acceptable power will require 9 1/2 ft min water level w/ore situation. Calculations are consistent & will not be altered if numbers change.

DUNN, B.M. : Babcock & Wilcox Co.  
TAYLOR, J. : Babcock & Wilcox Co.  
DATE ISS: 78/04/19, 2pp. , 48x: 19337-320, ODI: GPU 0099 , TN: GB07

IRRELEVANT

8307080066 Submits hand written draft memo re small break analysis for reactor coolant pump discharge piping for B&W lowered loop 177 FA plants.

DUNN, B.M. : Babcock & Wilcox Co.  
RUSSELL, C. : Babcock & Wilcox Co.  
DATE ISS: 81/03/20, 3pp. , 48x: 19337-322, ODI: GPU 0100 , TN: GB07

IRRELEVANT

8307120824 "DHR During very Small break LOCA for B&W 205 Fuel Assembly P&R."

MICHELSON, C. : Tennessee Valley Authority  
DATE ISS: 78/01/31, 36pp. , 48x: 19464-182, ODI: GPU 0102 , TN: GB07

7.2

8307080076 Forwards commitments resulting from various meetings & correspondence responsive re to NRC safety concerns identified in NRR 790425 status report on feedwater transients in B&W plants.

TAYLOR, J.H. : Babcock & Wilcox Co.  
MATISON, R.J. : Division of Systems Integration (post 811005)  
DATE ISS: 79/04/30, 44pp. , 48x: 19337-326, ODI: GPU 0103 , TN: GB07

7.2, 7.6, 7.11

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8307080081 Forwards "ECCS Analysis Activities Report for Apr 1977."

DUNN, B.M. :Babcock & Wilcox Co.  
ROY, D.H. :Babcock & Wilcox Co.  
DATE ISS:77/04/29, 4pp. ,48x:19338-010, ODI:GPU 0104 ,TN:GB07 IRRELEVANT

8307010200 "Evaluation of Transient Behavior & Small RCS breaks in 177  
Fuel Assembly Plant," vol 1.

BAILEY, H.A. :Babcock & Wilcox Co.  
DATE ISS:79/05/07, 48pp. ,48x:19175-338, ODI:GPU 0109 ,TN:GB07 7.2, 7.6

8307120829 Forwards preliminary draft study re small break LOCA for  
review & comment. Proposes meeting in Knoxville, TN to discuss  
entire question of very small break LUCA & resolution.

PATTERSON, U.R. :Tennessee Valley Authority  
MCFARLAND, J. :Babcock & Wilcox Co.  
DATE ISS:78/04/27, 4pp. ,48x:19464-218, ODI:GPU 0110 ,TN:GB07 7.2

8307120836 Forwards response to TVA ltr re small break LOCA analyses.

LICHTLE, P.E. :Babcock & Wilcox Co.  
JONES, M.C. :Babcock & Wilcox Co.  
DATE ISS:79/01/19, 4pp. ,48x:19464-225, ODI:GPU 0112 ,TN:GB07 7.2

8307120843 Summary of 790515 telcon w/Z Rosztoczy re stuck open PORV  
w/pumps running & no auxiliary feedwater. No problems found  
w/reactor coolant pumps running in high void sys.

KANE, E.H. :Babcock & Wilcox Co.  
DUNN, B.M. :Babcock & Wilcox Co.  
DATE ISS:79/05/29, 3pp. ,48x:19464-232, ODI:GPU 0116 ,TN:GB07 IRRELEVANT

8307020186 Discusses status of activities initiated to assist  
Technology for Energy Corp in attempt to resolve NRC  
concerns re AFW actuation & control.

CARTIN, L.H. :Babcock & Wilcox Co.  
LUKEN, R.C. :Babcock & Wilcox Co.  
DATE ISS:78/12/19, 3pp. ,48x:19225-080, ODI:GPU 0122A ,TN:GB07 IRRELEVANT

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8307120868 Discusses operation of high pressure injection sys during  
771101 transient. Actions taken by operator correct.

WALTERS, J.F. :Babcock & Wilcox Co.  
KELLY, J.J. :Babcock & Wilcox Co.  
DATE ISS:77/11/10, 3pp. ,48x:19464-314,UDI:GPU 0132 ,TN:G807

IRRELEVANT

8307120868 Discusses operation of high pressure injection sys during  
771101 transient. Actions taken by operator correct.

WALTERS, J.F. :Babcock & Wilcox Co.  
KELLY, J.J. :Babcock & Wilcox Co.  
DATE ISS:77/11/10, 3pp. ,48x:19464-314,UDI:GPU 0132 ,TN:G807

IRRELEVANT

8307020211 Log of events & actions re facilities,790312-29.

\* :Babcock & Wilcox Co.  
:;  
DATE ISS:81/04/16, 4pp. ,48x:19225-107,UDI:GPU 0134 ,TN:G807

7.9

8307020212 Submits operating instructions for stuck open PORV. PORV not  
used in safety analysis calculations. Increasing PORV  
setpoint will result in decrease in plant flexibility.

KANE, E.R. :Babcock & Wilcox Co.  
WOMACK, E.A. :Babcock & Wilcox Co.  
DATE ISS:79/04/09, 1p. ,48x:19225-111,UDI:GPU 0135 ,TN:G807

7.6

8307020216 Forwards info re transient which occurred at plant on  
790326 as received. Info should be used w/caution. Possibility  
info incorrect as reported, contradictory w/other repts or  
incorrect as recorded.

HANDLING, G.K. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:79/03/29, 13pp. ,48x:19225-123,UDI:GPU 0138 ,TN:G807

IRRELEVANT

8307020257 Supplemental to NP-32-77-16; on 770924, main turbine shut down  
to repair leak in pressure sensing connection on steam line  
while spurious half drip occurred in steam feedwater rupture  
control sys. Cause unknown.

MURRAY, T.D. :Toledo Edison Co.  
KEPPLER, J.G. : Region 3, Chicago, Office of the Director  
DATE ISS:77/11/14, 59pp. ,48x:19226-013,UDI:GPU 0153 ,TN:G807

IRRELEVANT

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8307020259 Forwards LER 77-016/0L1-0.

EVANS, J. : Toledo Edison Co.  
KESSLER, J. G. : Region 3, Chicago, Office of the Director  
DATE ISS: 77/10/07, 1p., 48X: 19226-072, OOI: GPU 0154 , TN: GB07 IRRELEVANT

8307080591 Requests draft task descriptions for top ten lessons learned from TMI-2 by 790618.

ROY, D. H. : Babcock & Wilcox Co.  
FAHLAND, F. H. : Babcock & Wilcox Co.  
DATE ISS: 79/06/14, 5pp., 48X: 19489-318, OOI: GPU 0215 , TN: GB07 7.8

8307080729 Minutes of 791108 & 30 staff meetings to review findings & recommendations of Technical Review Committee established after TMI-2 accident.

BALL, H. M. : Babcock & Wilcox Co.  
MACMILLAN, J. H. : Babcock & Wilcox Co.  
DATE ISS: 79/12/07, 29pp., 48X: 19490-014, OOI: GPU 0232 , TN: GB07 7.2, 7.11, 7.16

8307120660 Discusses lack of prompt notification to TMI re substantial safety hazard. Proper customer notification will be provided by licensing.

TAYLOR, J. H. : Babcock & Wilcox Co.  
MACMILLAN, J. H. : Babcock & Wilcox Co.  
DATE ISS: 78/02/10, 3pp., 48X: 19493-124, OOI: GPU 0254 , TN: GB07 IRRELEVANT

8307080757 Forwards rept on startup & shutdown procedures for steam generators w/seal-welded feedwater nozzles resulting from safety concern reported in June 1977.

TAYLOR, J. H. : Babcock & Wilcox Co.  
MACMILLAN, J. H. : Babcock & Wilcox Co.  
DATE ISS: 78/02/02, 5pp., 48X: 19490-068, OOI: GPU 0259 , TN: GB07 IRRELEVANT

8307080788 Forwards JJ Hapbell 800306 memo re B&W positions on potential NRC/ACRS questions re comparative features of Mulheim Kerlich Plant & domestic PWRs.

TAYLOR, J. H. : Babcock & Wilcox Co.  
: Babcock & Wilcox Co.  
DATE ISS: 80/03/18, 18pp., 48X: 19490-082, OOI: GPU 0263 , TN: GB07 IRRELEVANT

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8307120801 Emphasizes need for PRA capability. Related info encl.

TAYLOR, J.M. :Babcock & Wilcox Co.  
ROY, D.M. :Babcock & Wilcox Co.  
DATE ISS: 79/12/14, 8pp., 48x:19493-349, OOI:GPU 0264 , TN:GB07 IRRELEVANT

8307080793 Lists items to be understood re pumps off - pumps on before discussion w/NRC.

\* :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS: 79/07/05, 3pp., 48x:19490-102, OOI:GPU 0266 , TN:GB07 7.2

8307090043 Resume of Dr. Ladelle.

LABELLE, D.W. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS: 81/06/02, 1p., 48x:19490-215, OOI:GPU 0282 , TN:GB07 IRRELEVANT

8307090059 "Potential Lessons to be Learned From TMI-2."

LABELLE, D.W. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS: 79/05/25, 2pp., 48x:19490-225, OOI:GPU 0287 , TN:GB07 7.2, 7.11

8307090066 Responds to 790405 questions re analyses of LUMFA flow for 177 & 205 FA plants based on analytical results obtained from CAUDS simulation studies of TMI-2 event.

LABELLE, D.W. :Babcock & Wilcox Co.  
ROY, D.M. :Babcock & Wilcox Co.  
DATE ISS: 79/04/30, 4pp., 48x:19490-227, OOI:GPU 0288 , TN:GB07 7.6

8307090069 Requests craft analysis of TMI-2 left transient, including analysis of reactor trip at time of turbine trip. Analyses encl.

LABELLE, D.W. :Babcock & Wilcox Co.  
BILLEN, J. :Babcock & Wilcox Co.  
DATE ISS: 79/04/07, 5pp., 48x:19490-231, OOI:GPU 0289 , TN:GB07 IRRELEVANT

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8307090073 Forwards Safety Analysis Div CAODS deck which simulates first 6 minutes of TMI-2 loss of feedwater incident.

HANWARTH, C.S. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.

DATE ISS:79/04/12, 7pp. ,48x:19490-236,00I:GPU 0290 ,TN:GB07

IRRELEVANT

8307090078 Summary of 790426 meeting w/NRC re review of analytical methods & results which support ability to predict small LOCA reactor sys responses.

LABELLE, D.W. :Babcock & Wilcox Co.  
WOMACK, E.A. :Babcock & Wilcox Co.

DATE ISS:79/04/26, 4pp. ,48x:19490-243,00I:GPU 0291 ,TN:GB07

IRRELEVANT

8307090083 Forwards safety evaluation supporting CAODS analysis commitments described in 790430 ltr. 4at1 addresses items II.B.1, II.B.2, II.B.3, II.D.4, II.B.5 & II.E.

LABELLE, D.W. :Babcock & Wilcox Co.  
TAYLOR, J.N. :Babcock & Wilcox Co.

DATE ISS:79/05/04, 49pp. ,48x:19490-247,00I:GPU 0292 ,TN:GB07

7.6

8307090093 Discusses problem of once-through steam generator dry out in 1-2 minutes following loss of feedwater. New safety criteria requiring all plants to have turbine trip initiated by loss of feedwater indication recommended solution.

LABELLE, D.W. :Babcock & Wilcox Co.  
WOMACK, E.A. :Babcock & Wilcox Co.

DATE ISS:79/05/06, 1p. ,48x:19490-296,00I:GPU 0293 ,TN:GB07

IRRELEVANT

8307090097 Comments on proposed A/S paper. Reader must work too hard to get message.

\* :Babcock & Wilcox Co.  
LABELLE, D.W. :Babcock & Wilcox Co.

DATE ISS:80/01/08, 9pp. ,48x:19490-297,00I:GPU 0294 ,TN:GB07

IRRELEVANT

8307090101 Summarizes Pressurizer Level Investigation/Instruction 196. Potential sources of measurement error examined & simulations of accident run.

FAIRBROT ER, D. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.

DATE ISS:79/04/12, 28pp. ,48x:19490-306,00I:GPU 0295 ,TN:GB07

IRRELEVANT



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8307090107 Forwards operating instructions for isolation of stuck open PORV for review. Instruction should be forwarded to operating plant customers as changes to operating/emergency procedure.

NEWTUN, D.G. :Babcock & Wilcox Co.  
FAIRBURN, G.T. :Babcock & Wilcox Co.  
DATE ISS:79/04/06, 4pp. ,48x:19490-335, OOI:GPU 0297 ,TN:GB07 7.11

8307090112 Forwards operating instructions for stuck open PORV, per 790407 request.

NEWTUN, D.G. :Babcock & Wilcox Co.  
WOMACK, E.A. :Babcock & Wilcox Co.  
DATE ISS:79/04/06, 4pp. ,48x:19490-339, OOI:GPU 0298 ,TN:GB07 7.11

8307090117 Discusses operating instructions for stuck open PORV.

KANE, E.R. :Babcock & Wilcox Co.  
WOMACK, E.A. :Babcock & Wilcox Co.  
DATE ISS:79/04/09, 1p. ,48x:19490-343, OOI:GPU 0299 ,TN:GB07 7.6

8307090121 "Review of Sequence of Events Leading to Incident at TMI-2 on 790326."

LABELLE, D.W. :Babcock & Wilcox Co.  
:  
DATE ISS:81/06/04, 13pp. ,48x:19490-344, OOI:GPU 0300 ,TN:GB07 7.6

8307090127 Advises that preliminary safety concern re reliability of ESFAS II discussed in Dr LaBelle 791207 memo has been closed out.

TAYLOR, J.H. :Babcock & Wilcox Co.  
WOMACK, E.A. :Babcock & Wilcox Co.  
DATE ISS:80/04/25, 2pp. ,48x:19490-311, OOI:GPU 0302 ,TN:GB07 IRRELEVANT

8307090131 Provides info to be used in preparation of report describing safety aspects of Muelheim-Kaerlich Plant compared to TMI-2 accident.

BOHART, J.R. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:79/05/02, 5pp. ,48x:19491-001, OOI:GPU 0303 ,TN:GB07 IRRELEVANT

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- 8307090141 Understands that small group of key designers organized to review SMUD rapid cooldown transient & develop what could have been or could be done to reduce likelihood or limit consequences of recurrence.  
WOMACK, E.A. :Babcock & Wilcox Co.  
KARRASCH, B.A. :Babcock & Wilcox Co.  
DATE ISS:78/08/21, 10pp. ,48x:19491-016,DDI:GPU 0308 ,TN:GB07 7.15
- 8307120825 "DHR During Very Small Break LUCA for B&W 205-Fuel-Assembly PWR."  
MICHELSON, C. :General Public Utilities - GPU Service Corp.  
DATE ISS:78/01/31, 34pp. ,48x:19494-001,DDI:GPU 0323 ,TN:GB07 7.2
- 830702015b "DHR During Very Small Break LUCA for B&W 205-Fuel-Assembly PWR."  
MICHELSON, C. :NRC - No Detailed Affiliation Given  
DATE ISS:78/01/31, 36pp. ,48x:19224-132,DDI:GPU 0324 ,TN:GB07 7.2
- 8307120830 Recommends small break analyses w/reactor coolant pumps powered.  
JONES, R.C. :Babcock & Wilcox Co.  
CARTIN, L.R. :Babcock & Wilcox Co.  
DATE ISS:78/12/11, 3pp. ,48x:19493-357,DDI:GPU 0330 ,TN:GB07 7.2
- 8307130014 Forwards description of personal statement re contribution toward reestablishment of stable plant conditions following trip & subsequent transient experienced at Unit 2, beginning w/790328 turbine/reactor trip.  
ROGERS, L.C. :Babcock & Wilcox Co.  
DATE ISS:79/06/12, 34pp. ,48x:19498-152,DDI:GPU 0335 ,TN:GB07 IRRELEVANT
- 8307130023 Operating Plant Svc bulletin, vol 2, Number 39.  
\* :Babcock & Wilcox Co.  
DATE ISS:77/09/30, 2pp. ,48x:19498-190,DDI:GPU 0337 ,TN:GB07 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
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8307130033 Operating Plant Svc Bulletin, vol 2, Number 41.

\* :Babcock & Wilcox Co.  
: DATE ISS:77/10/14, 2pp. ,48X:19498-192,UDI:GPU 0338 ,TN:GB07 IRRELEVANT

8307060484 Forwards scoping plans & schedules for responding to TMI-2 concerns, tasks on verification of as-built data & high point venting.

KARRASCH, B.A. :Babcock & Wilcox Co.  
FAHLAND, F.R. :Babcock & Wilcox Co.  
DATE ISS:79/06/13, 7pp. ,48X:19302-153,UDI:GPU 0382 ,TN:GB07 7.2, 7.6, 7.11, 7.16

8307060486 Sketching of hot leg.

\* :Babcock & Wilcox Co.  
: DATE ISS:81/09/30, 1p. ,48X:19302-160,UDI:GPU 0383 ,TN:GB07 IRRELEVANT

8307060486 Sketching of hot leg.

\* :Babcock & Wilcox Co.  
: DATE ISS:81/09/30, 1p. ,48X:19302-160,UDI:GPU 0383 ,TN:GB07 IRRELEVANT

8307060492 Outlines implications of incident including summarization of incident, BSW assessment of primary message from site & required short term actions. Detailed summary of site message encl.

\* :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:81/09/30, 6pp. ,48X:19302-161,UDI:GPU 0384 ,TN:GB07 IRRELEVANT

8307060504 Preliminary rept of safety concerns, forwarding memos in response to NRC concern re possible transient overfill. Progress on corrective actions to complete overfill program & fix all plants not made since Nov 1978. 1/0 encls.

BROCKMAN, R.J. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:79/08/15, 1p. ,48X:19302-166,UDI:GPU 0388 ,TN:GB07 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
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8307060507 Monthly activities report for Aug 1975.

KERRASCH, B.A. :Babcock & Wilcox Co.  
WDMACK, E.A. :Babcock & Wilcox Co.  
DATE ISS:78/09/01, 4pp. ,4RX:19302-192,00I:GPU 0390 ,TN:G607 IRRELEVANT

8307060521 Forwards draft repts on small break scenarios to be used in  
small break cooldown procedure. Comments requested.  
Descriptions of RCS leaks w/auxiliary feedwater & w/o  
feedwater & small breaks in pressurizer encl.  
JONES, R.C. :Babcock & Wilcox Co.  
KANE, E.H. :Babcock & Wilcox Co.  
DATE ISS:79/05/02, 13pp. ,4RX:19302-203,00I:GPU 0397 ,TN:G607 7.2

8307120710 Resume of JO Phinney.

PHINNEY, J.O. :Babcock & Wilcox Co.  
DATE ISS:82/01/13, 3pp. ,4RX:19461-017,00I:GPU 0403 ,TN:G607 IRRELEVANT

8307060645 Resume of d&w senior engineer RK Kennedy.

\* :Babcock & Wilcox Co.  
DATE ISS:82/01/27, 1p. ,4RX:19340-016,00I:GPU 0430 ,TN:G607 IRRELEVANT

8307060646 Forwards NRC 770930 ltr to util & d&w 771005 & 07 ltrs re  
depressurization incident at Davis-Besse. Assigned  
responsibility & suggested content of sections for incident  
rept input submitted. AA for man & computer hours requested.  
LAUER, J.A. :Babcock & Wilcox Co.  
DAVIS, R.D. :Babcock & Wilcox Co.  
DATE ISS:77/10/11, 7pp. ,4RX:19340-017,00I:GPU 0431 ,TN:G607 IRRELEVANT

8307060649 Forwards 771005 results of 771003 checkout of reactor  
coolant pumps, 771007 results of 771005 operational checkout  
& outline of 770924 incident re reactor trip at Davis-Besse.  
Increase in vertical vibration caused by loose connector.  
DEMPSEY, J.D. :Babcock & Wilcox Co.  
LAUER, J.A. :Babcock & Wilcox Co.  
DATE ISS:77/10/18, 8pp. ,4RX:19340-039,00I:GPU 0432 ,TN:G607 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
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8307060651 Outline of "Mixed Flow Test - RC Pumps." Rept will prove capability of pumps to operate within emergency limits under mixed flow conditions.

STANEK, L.J. :Babcock & Wilcox Co.

DATE ISS:77/06/15, 2pp. ,48x:19340-047,UDI:GPU 0433 ,TN:GB07

IRRELEVANT

8307060652 Forwards technical program outline for proposed mixed flow test of reactor coolant pump.Damage risk assessment encl.

CHIPMAN, E.E. :Babcock & Wilcox Co.

FERNANDEZ, T. :Electric Power Research Institute

DATE ISS:79/07/03, 7pp. ,48x:19340-049,UDI:GPU 0434 ,TN:GB07

IRRELEVANT

8307070009 Comments on NUREG-057A, "TMI-2 Lessons Learned Task Force Status Rept & Short-term Recommendations." Maint of pump auxiliaries to avoid premature tripping recommended.

KENNEDY, R.K. :Babcock & Wilcox Co.

STANEK, L.J. :Babcock & Wilcox Co.

DATE ISS:79/08/28, 2pp. ,48x:19340-064,UDI:GPU 0437 ,TN:GB07

IRRELEVANT

8307070014 Summarizes problems in small break operating guidelines & proposes program to rectify problems re reactor coolant pumps.Proposal will be submitted in Mar 1980 if funded in Jan 1980.Rejected 790502 proposal on emergency limits encl.

KARRASCH, B.A. :Babcock & Wilcox Co.

HAM, R.E. :Babcock & Wilcox Co.

DATE ISS:80/01/21, 15pp. ,48x:19340-066,UDI:GPU 0438 ,TN:GB07

IRRELEVANT

8307070409 Forwards minutes of 780425 meeting w/NRC in Bethesda,MD re results of reevaluation of lowered loop small break analysis (PSC 10-78).

BAILEY, H.A. :Babcock & Wilcox Co.

JONES, J.P. :Babcock & Wilcox Co.

DATE ISS:78/04/26, 8pp. ,48x:19340-231,UDI:GPU 0469 ,TN:GB07

IRRELEVANT

8307120764 Handwritten rept, "DNR Problem Associated w/Recovery From Very Small break LOCA for C-E Sys 80 PWR."

\* :Combustion Engineering, Inc.

DATE ISS:77/05/15, 50pp. ,48x:19461-056,UDI:GPU 0470 ,TN:GB07

7.2

U. S. NUCLEAR REGULATORY COMMISSION  
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8307120772 Handwritten rept, "DHR Problems Associated w/Recovery From Very Small break LOCA for B&W 205 Fuel Assembly PWR."

\* :Babcock & Wilcox Co.  
: DATE ISS:77/09/01, 73pp. ,48x:19461-109,ODI:GPU 0471 ,TN:G807 7.2

8307120779 Forwards draft rept re ECCS small break LOCA analysis for review.

PATTERSON,D.R. :Tennessee Valley Authority  
MCFARLAND,J. :Babcock & Wilcox Co.  
DATE ISS:78/04/27, 41pp. ,48x:19461-182,ODI:GPU 0472 ,TN:G807 IRRELEVANT

8307120784 "Typical B&W 205 - Fuel Assembly PWR Reactor Coolant Loop."

\* :Babcock & Wilcox Co.  
: DATE ISS:83/07/12, 2pp. ,48x:19461-223,ODI:GPU 0472B ,TN:G807 IRRELEVANT

8307130223 Forwards topical rept evaluation of Rev 1 to BAW=10062, Rev 1 to BAW=10074 & Rev 1 to BAW=10075. Repts acceptable for referencing in licensing actions, w/exception of BAW=10075 plant.

\* :NRC - No Detailed Affiliation Given  
SUMRKE,K.E. :Babcock & Wilcox Co.  
DATE ISS:76/01/06, 4pp. ,48x:19503-222,ODI:GPU 0473 ,TN:G807 7.2

8307130163 Emergency Operating Spec 69-1001168-00, "Loss of Reactor Coolant/RCS Pressure."

VEENSTRA,J. :Babcock & Wilcox Co.  
: DATE ISS:77/01/05, 8pp. ,48x:19503-257,ODI:GPU 0474 ,TN:G807 7.2

8307130171 Responds to 780427 ltr re ECCS small break LOCA analysis. Use of pressurizer indication will provide sufficient guidance for operator action.

MCFARLAND,J. :Babcock & Wilcox Co.  
PATTERSON,D.R. :Tennessee Valley Authority  
DATE ISS:79/01/23, 7pp. ,48x:19503-265,ODI:GPU 0475 ,TN:G807 7.2

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NRC SPECIAL REPORT

8307130170 Submits clarification re small break LUCA analysis  
W4M-2-14(AR), in response to 790125 ltr. Appropriate  
explanation for not requiring "thermal balance" requested by  
790315.

PATTERSON, D.R. :Tennessee Valley Authority

MCFARLAND, J. :Haddock & Wilcox Co.

DATE ISS:79/02/28, 2pp. ,4RX:19503-273,ODI:GPU 0476 ,TN:GB07

IRRELEVANT

8307130184 Forwards "Adequacy of TMI-2 Procedures for Case of Loss of  
Reactor Coolant at Top of Pressurizer." Emergency Procedures  
2202-1.5 & 2202-1.3 not adequate for mitigating effects of  
loss of coolant at top of pressurizer.

MICHELSON, C. :ACRS - Advisory Committee on Reactor Safeguards

ETHERINGTON, H. :ACRS - Advisory Committee on Reactor Safeguards

DATE ISS:79/11/06, 1p. ,4RX:19503-278,ODI:GPU 0478 ,TN:GB07

IRRELEVANT

8307060458 Summary of 781204 telephone conference w/B&W re ECCS Small  
Break Analysis W4M-2-14 - response to K-5020.

SIMMONS, R.L. :Tennessee Valley Authority

:Tennessee Valley Authority

DATE ISS:79/08/03, 4pp. ,4RX:19340-241,ODI:GPU 0480 ,TN:GB07

7.2

8307060461 Summarizes 781204 telcon w/B&W re small LOCA.

THICKMAN, S. :Tennessee Valley Authority

:Tennessee Valley Authority

DATE ISS:79/08/03, 3pp. ,4RX:19340-245,ODI:GPU 0481 ,TN:GB07

7.2

8307060518 Compares B&W & TVA positions following 781204 telcon on  
small break LUCA analysis. B&W failed to evaluate Michelson  
rept in sufficient detail to respond to TVA 781204 telcon  
questions.

\* :General Public Utilities - GPU Service Corp.

:General Public Utilities - GPU Service Corp.

DATE ISS:79/09/03, 3pp. ,4RX:19340-248,ODI:GPU 0482 ,TN:GB07

7.2

8307130191 Requests clarification of BAN-10074A, Rev 1 re small break  
LUCA analysis. Clarification should address inability of very  
small breaks to remove decay heat from RCS as fast as heat  
generated in core.

MICHELSON, C. :ACRS - Advisory Committee on Reactor Safeguards

:Haddock & Wilcox Co.

DATE ISS:79/12/06, 6pp. ,4RX:19503-287,ODI:GPU 0483 ,TN:GB07

7.2



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8307060520 Response to questions re effect of double-ended rupture of up to three tubes during LUCA on capability to refill & cool core per 10CFR50.400 k requirements.

\* :Babcock & Wilcox Co.  
: DATE ISS:77/11/30, 11pp., 48x:19340-251,001:GPU 0484 ,TN:G807 7.2

8307060524 "Nuclear Site Ufc Rept 59 for 770916-1009."

FAIST,F. :Babcock & Wilcox Co.  
: DATE ISS:77/10/10, 5pp., 48x:19340-264,001:GPU 0487 ,TN:G807 7.2

8307060526 Summary of 770928 meeting w/Dechtel,B&W & NRC at Davis-Besse site re 770924 accident.

\* :Toledo Edison Co.  
:Toledo Edison Co.  
DATE ISS:77/09/28, 5pp., 48x:19340-269,001:GPU 0488 ,TN:G807 7.2

8307060532 Forwards RU re 750613 electromatic relief valve malfunction due to lever pin,lever hinge & solenoid bracket corrosion.Manual/visual checks for freedom of valve motion should be performed.

WANDLING,G.K. :Babcock & Wilcox Co.  
ROGERS,L.C. :Babcock & Wilcox Co.  
DATE ISS:75/07/15, 1p., 48x:19340-274,001:GPU 0489 ,TN:G807 IRRELEVANT

8307060540 Advises that periodic insos for corrosion products of pressurizer electromatic relief valve PSV-RC 2, in areas of solenoid bracket,link pins & lever & manual/visual checks for freedom of motion,necessary to prevent malfunction.

BAKER,R.J. :Babcock & Wilcox Co.  
EVANS,J.G. :Toledo Edison Co.  
DATE ISS:75/07/31, 1p., 48x:19340-276,001:GPU 0490 ,TN:G807 IRRELEVANT

8307060547 Forwards Site Problem Rept 36 re electromatic relief valve mod.Mod required due to binding condition causing pilot valve stem to stick open due to close tolerance.Pilot valve stem diameter reduced.

\* :Babcock & Wilcox Co.  
KLEIN,S.H. :Babcock & Wilcox Co.  
DATE ISS:78/03/27, 10pp., 48x:19340-277,001:GPU 0491 ,TN:G807 IRRELEVANT

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8307130203 Forwards responses to NRC 770318 request for info re selected technical issues for vendor participation published in NUREG-0136 & NUREG-0153, per 770822 ltr.

TAYLOR, J.H. : Babcock & Wilcox Co.  
MAZETIS, G.M. : Reactor Systems Branch  
DATE ISS: 78/07/28, 13pp., 48x: 19503-336, ODI: GPU 0494 , TN: GB07

IRRELEVANT

8307060555 "Break in Instrument Line or Lines From Primary Sys That Penetrate Containment" & "Loss of Nonemergency AC Power to Station Auxiliaries," supplemental info to FSAR Figures 15E.6.2 & 15E.2.6, respectively.

\* : General Public Utilities - GPU Service Corp.  
DATE ISS: 82/04/14, 4pp., 48x: 19340-289, ODI: GPU 0495 , TN: GB07

IRRELEVANT

8307060556 Operating instruction for stuck-open PORV, per IE Bulletin 79-05.

NEWTON, D.G. : Babcock & Wilcox Co.  
DATE ISS: 79/04/06, 4pp., 48x: 19340-293, ODI: GPU 0496 , TN: GB07

IRRELEVANT

8307130288 Expresses concern w/ECCS analysis re operator interruption of HPI following initial stage of LOCA. Operating Procedures to allow termination of HPI under stated conditions should be written.

DUNN, B.M. : Babcock & Wilcox Co.  
TAYLOR, J. : Babcock & Wilcox Co.  
DATE ISS: 78/02/09, 3pp., 48x: 19503-354, ODI: GPU 0550 , TN: GB07

7.2

8307130296 Discusses acceptable procedure for terminating HPI following LOCA. Procedure requested in 780209 memo will be modified accordingly.

DUNN, B.M. : Babcock & Wilcox Co.  
TAYLOR, J. : Babcock & Wilcox Co.  
DATE ISS: 78/02/16, 2pp., 48x: 19503-357, ODI: GPU 0551 , TN: GB07

7.2

8307070505 Forwards draft writeups on small break scenarios to be used in small break cooldown procedure. Comments in procedure form requested.

JONES, R.C. : Babcock & Wilcox Co.  
KANE, E.R. : Babcock & Wilcox Co.  
DATE ISS: 79/05/02, 9pp., 48x: 19341-350, ODI: GPU 0556 , TN: GB07

7.2

U. S. NUCLEAR REGULATORY COMMISSION  
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8307070509 Discusses LUCA-type accidents.

GOSLOW, C.E. :Babcock & Wilcox Co.  
HALLMAN, D.F. :Babcock & Wilcox Co.  
DATE ISS:79/04/10, 1p. ,48x:19341-359, ODI:GPU 0557 ,TN:GB07 7.11

8307130356 Resume of RL Pittman.

PITTMAN, R.L. :Babcock & Wilcox Co.  
DATE ISS:83/07/13, 2pp. ,48x:19503-361, ODI:GPU 0572 ,TN:GB07 IRRELEVANT

8307060608 Informs that ECCS analysis finds 2-ft level adequate when fed by main feedwater, response valid for 2 & 3 pump operation. Internal memo from 781128 re interim operating instructions encl.

DUNN, B.M. :Babcock & Wilcox Co.  
SWANSON, E. :Babcock & Wilcox Co.  
DATE ISS:78/11/22, 3pp. ,48x:19343-133, ODI:GPU 0593 ,TN:GD07 IRRELEVANT

8307060611 Requests advice on whether Instruction Action Item 240 re stuck open PURV should be reopened & items assigned to revise procedure. Internal memos from 790409 encl.

STANEK, L.J. :Babcock & Wilcox Co.  
KONE, E.D. :Babcock & Wilcox Co.  
DATE ISS:79/04/10, 3pp. ,48x:19343-136, ODI:GPU 0594 ,TN:GB07 IRRELEVANT

8307120798 Suppl RU NP-32-77-16:nn 770924, series of events occurred, resulting in depressurization of primary sys from normal pressure. Caused by steam feedwater rupture control sys spurious half trip.

MURRAY, T.D. :Toledo Edison Co.  
KEPPLER, J.G. :Region 3, Office of Director  
DATE ISS:77/11/14, 58pp. ,48x:19494-103, ODI:GPU 2006 ,TN:GB07 IRRELEVANT

8307120814 Graphs re 770924 reactor trip.

\* :Toledo Edison Co.  
DATE ISS:77/09/24, 3pp. ,48x:19494-165, ODI:GPU 2007 ,TN:GB07 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
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8307120852 Graph re pressure & temp limitations for cooldown.

\* :General Public Utilities - GPU Service Corp.  
: 1  
DATE ISS:83/07/12, 3pp. ,48x:19495-023,ODI:GPU 2016A ,TN:GB07 IRRELEVANT

8307120860 Forwards Rev 1 to BAW-10075A "Multinode Analysis of Small  
breaks for B&W 177-FA Nuclear Plants w/Raised Loop  
Arrangement & Internal Vent Valves."

SUHRKE, K.E. :Babcock & Wilcox Co.  
STOLZ, J.F. : Licensing Branch 4  
DATE ISS:76/03/09, 1p. ,48x:19495-029,ODI:GPU 2018 ,TN:GB07 IRRELEVANT

8307110320 Graphs re pressurizer levels, reactor coolant pressure &  
steam generator A operating level.

\* :General Public Utilities - GPU Service Corp.  
: 1  
DATE ISS:83/07/09, 6pp. ,48x:19483-301,ODI:GPU 2068 ,TN:GB07 IRRELEVANT

8307080017 Transcript of President's Commission on Accident at TMI  
third meeting on 790530 in Washington, DC. Pp 1-210. W/o  
Pp 5-112.

\* :President's Commission on the Accident at Three Mile Island  
: 1  
DATE ISS:79/05/30, 103pp. ,48x:19338-209,ODI:GPU 2069 ,TN:GB07 IRRELEVANT

8307110349 "TMI-2 Annotated Sequence of Events, 790328."

VAN WITBECK, T. :General Public Utilities - GPU Service Corp.  
: 1  
DATE ISS:81/02/06, 152pp. ,48x:19483-340,ODI:GPU 2079 ,TN:GB07 IRRELEVANT

8307080041 Printout listing for 790328 sequence of events review.

\* :Metropolitan Edison Co.  
: 1  
DATE ISS:79/03/26, 67pp. ,48x:19338-317,ODI:GPU 2083 ,TN:GB07 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
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8307080049 Time indexed printout of 790328 sequence of events.

\* :Metropolitan Edison Co.  
:   
DATE ISS:79/03/28, 44pp., ,48x:19339-051,00I:GPU 2085 ,TN:G807 IRRELEVANT

8307080054 Submits suppl to previously transmitted info re actions to be implemented due to 790328 loss of main feedwater flow. Continued operation recommended if HPI actuated due to low pressure condition.

FAIRBURN,G.T. :Bacock & Wilcox Co.  
MILLER,G.P. :Metropolitan Edison Co.  
DATE ISS:79/04/04, 1p., ,48x:19339-068,00I:GPU 2100 ,TN:G807 IRRELEVANT

8307080372 "Investigation of TMI-2 Pressurizer PORV Discharge Pipe Temos."

SHELL,J.P. :General Public Utilities - GPU Service Corp.  
:   
DATE ISS:80/02/28, 52pp., ,48x:19339-154,00I:GPU 2109 ,TN:G807 IRRELEVANT

8307120922 Forwards LER 78-069/99x=0.

KUNDER,G. :Metropolitan Edison Co.  
TRUFFER,G.J. :NRC - no Detailed Affiliation Given  
DATE ISS:79/12/31, 1p., ,48x:19500-177,00I:GPU 2159 ,TN:G807 IRRELEVANT

8307120932 LER 78-065/99x=0: on 7/11/07, reduction in feedwater flow led to reactor trip & subsequent safety injection actuation. Caused by reduction in feedwater flow during physics testing testing, which requires operating at elevated tave.

STAIR,J.R. :Metropolitan Edison Co.  
: Region 1, Philadelphia, Office of the Director  
DATE ISS:79/01/30, 3pp., ,48x:19500-182,00I:GPU 2160 ,TN:G807 IRRELEVANT

8307120934 Transcript of 790423 TMI-2 investigation interview w/E Frederick, Pd 1-101.

FREDERICK,E. :General Public Utilities - GPU Service Corp.  
:   
DATE ISS:79/06/28, 102pp., ,48x:19500-165,00I:GPU 2161 ,TN:G807 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
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830712093b Rev 3 to Operating Procedure OP 1209.29, "OFR Unit 1  
Pressurizer Abnormal Operations."

\* :General Public Utilities - GPU Service Corp.  
:   
DATE ISS:73/01/25, 15pp. ,48x:19500-287,ODI:GPU 2165 ,TN:GB07 IRRELEVANT

8307120941 Lists of control room indications.

\* :General Public Utilities - GPU Service Corp.  
:   
DATE ISS:83/07/12, 6pp. ,48x:19500-305,ODI:GPU 2178 ,TN:GB07 IRRELEVANT

8307120951 Forwards lists of items for reactor vendor analysis re  
27 technical issues identified in NUREGs 0138 & 0163 per  
ACRS request. Analysis needed to confirm judgements reached  
in NRC analyses.

ROSS, D.F. : Division of Systems Safety  
SUHRKE, K. : Babcock & Wilcox Co.  
DATE ISS:77/03/18, 3pp. ,48x:19500-329,ODI:GPU 2200 ,TN:GB07 IRRELEVANT

8307120953 Submits recommendations resulting from technical evaluation  
of HPI fluid sys upgrade.

\* :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:83/07/12, 5pp. ,48x:19500-332,ODI:GPU 2201 ,TN:GB07 IRRELEVANT

8307050504 Summary of 790515 telcon w/Z Rosztoczy re stuck open PORV  
w/pumps running & no auxiliary feed. No core uncover  
will take place even if reactor pumps trip at most  
unfavorable time.

DUNN, B.M. : Babcock & Wilcox Co.  
KANE, E.H. : Babcock & Wilcox Co.  
DATE ISS:79/05/29, 2pp. ,48x:19231-293,ODI:GPU 2203 ,TN:GB07 7.2

8307050508 Vol II Part 2 "IMI:Rept to Commissioners & to Public."

ROGQVIN, M. : NRC Three Mile Island Task Force  
:   
DATE ISS:79/12/31, 59pp. ,48x:19231-295,ODI:GPU 2204 ,TN:GB07 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307050509 "Analysis of TMI-Unit 2 Accident."

\* :Nuclear Safety Analysis Center  
: DATE ISS:80/03/31, 59pp. ,48x:19231-354,001:GPU 2205 ,TN:G807 IRRELEVANT

8307020216 Requests man & computer hour costs & schedules for development support & implementation of new fuel assembly concept.w/MK-CZX design description encl.

JACKS,G.M. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:78/09/22, 53pp. ,48x:19226-141,001:GPU 2206 ,TN:G807 IRRELEVANT

8307020235 Vol 1 of "Evaluation of Transient Behavior & Small RCS breaks in 177 Fuel Assembly Plant."

\* :Babcock & Wilcox Co.  
: DATE ISS:79/05/07, 362pp. ,48x:19226-328,001:GPU 2207 ,TN:G807 7.2, 7.6

8307120846 Recommends reduction of natural circulation level setpoint to 50% on operator range.

ROGERS,L.C. :Babcock & Wilcox Co.  
HERBAIN,J.G. :Metropolitan Edison Co.  
DATE ISS:74/07/31, 1p. ,48x:19497-022,001:GPU 2208 ,TN:G807 IRRELEVANT

8307020236 Questions re OTSG level concern.

\* :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:77/07/11, 2pp. ,48x:19227-330,001:GPU 2209 ,TN:G807 IRRELEVANT

8307020238 Discusses small break-auxiliary feedwater level for plants.

CARTIN,L.R. :Babcock & Wilcox Co.  
DUERSON,S.H. :Babcock & Wilcox Co.  
DATE ISS:78/08/01, 32pp. ,48x:19228-001,001:GPU 2210 ,TN:G807 IRRELEVANT



U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307020254 "Analysis of TMI-2 Accident w/Continuous Operation of  
Reactor Coolant Pumps."

\* :General Public Utilities - GPU Service Corp.

DATE ISS:82/12/31, 22pp. ,48x:19222-023,ODI:GPU 2213 ,TN:G807

IRRELEVANT

8307120853 Forwards Suppls 1 & 2 to "Evaluation of Transient Behavior  
& Small RCS Breaks in 177 Fuel Assembly Plant," Vol 1,  
Section 6.0.

TAYLOR, J.H. :Babcock & Wilcox Co.

MATTSON, R.J. :Office of Nuclear Regulatory Research, Director

DATE ISS:79/05/12, 20p. ,48x:19497-023,ODI:GPU 2214 ,TN:G807

7.2

8307120867 Summarizes analysis core requirements & verification  
project, Action Item 5 on CRAFT2 simulations of small  
break transients.

CULLIN, J.J. :Babcock & Wilcox Co.

MORGAN, C.D. :Babcock & Wilcox Co.

DATE ISS:79/09/04, 40p. ,48x:19497-065,ODI:GPU 2215 ,TN:G807

7.16

8307020256 Requests that B&W 77-1125999-01 describing ECCS analysis  
performed as part of EFW upgrade program be forwarded to  
customers as committed.

VANSCOOTER, W.E. :Babcock & Wilcox Co.

BEALE, G.O. :Babcock & Wilcox Co.

DATE ISS:81/07/17, 1p. ,48x:19222-045,ODI:GPU 2216 ,TN:G807

IRRELEVANT

8307020258 Submits evaluation of reduced steam generator level.

ANDERSON, G.E. :Babcock & Wilcox Co.

SCOOTER, W.E. :Babcock & Wilcox Co.

DATE ISS:81/01/15, 40p. ,48x:19222-046,ODI:GPU 2217 ,TN:G807

IRRELEVANT

8307020260 Certificate of authenticity records of Roll 2038.

\* :Superior International Microfilm Corp.

DATE ISS:82/03/18, 90p. ,48x:19222-050,ODI:GPU 2219 ,TN:G807

IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
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- 8307120876 Submits final results of preliminary sys analysis, Task 27 as input to mechanical stress assessment of hardware components. All RCS mass inventory & energy conserved during core uncover & refill.  
HIATT, R.M. :Babcock & Wilcox Co.  
VAMES, G.J. :Babcock & Wilcox Co.  
DATE ISS:79/11/16, 52pp. ,48x:19497-074,UDI:GPU 2222 ,TN:GB07 IRRELEVANT
- 8307120894 "Analysis of RCS Makeup During TMI-2 Event."  
\* :EDS Nuclear, Inc.  
DATE ISS:82/12/29, 90pp. ,48x:19497-126,UDI:GPU 2223 ,TN:GB07 IRRELEVANT
- 8307130076 "Spec for Nuclear Power Plant Training Simulator."  
\* :Babcock & Wilcox Co.  
DATE ISS:69/01/15, 263pp. ,48x:19497-249,UDI:GPU 2310 ,TN:GB07 IRRELEVANT
- 8307110738 Resume of RJ Marzec.  
MARZEC, R.J. :Affiliation Unknown  
DATE ISS:83/07/09, 3pp. ,48x:19482-183,UDI:GPU 2322 ,TN:GB07 IRRELEVANT
- 8307110754 "Reactor Bldg Sump."  
\* :Metropolitan Edison Co.  
DATE ISS:77/08/26, 1p. ,48x:19483-146,UDI:GPU 2338 ,TN:GB07 IRRELEVANT
- 8307110756 "Potential Sources of Nonprimary Sys water in TMI-2 Reactor Bldg Sump."  
\* :General Public Utilities - GPU Service Corp.  
DATE ISS:77/08/26, 1p. ,48x:19483-147,UDI:GPU 2339 ,TN:GB07 IRRELEVANT

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8307080107 "Figure 3, Graph of RCS Pressure, Saturation Pressure & Pressurizer."

\* :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:79/03/26, 1p. ,48x:19361-092,00I:GPU 2341 ,TN:G807 IRRELEVANT

8307080146 Recommends operating guidelines for small breaks.

HALLMAN, D.F. :Babcock & Wilcox Co.  
LEMON, J.E. :Babcock & Wilcox Co.  
DATE ISS:79/10/09, 1p. ,48x:19361-133,00I:GPU 2405 ,TN:G807 IRRELEVANT

8307080200 Responds to 771006 telcon requesting more info re basis for vendor conclusions on 770924 depressurization event.

LAZAR, A.H. :Babcock & Wilcox Co.  
DOMECK, C. :Toledo Edison Co.  
DATE ISS:77/10/07, 2pp. ,48x:19361-151,00I:GPU 2412 ,TN:G807 IRRELEVANT

8307080216 Problem re loss of feedwater while operating at 98% power.

\* :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:79/03/26, 1p. ,48x:19361-157,00I:GPU 2415 ,TN:G807 IRRELEVANT

8307080291 "Preliminary Generic Plant Comparison."

\* :Combustion Engineering, Inc.  
: :  
DATE ISS:83/07/06, 19pp. ,48x:19361-196,00I:GPU 2425 ,TN:G807 IRRELEVANT

8307080295 Discusses top 10 lessons learned from Unit 2 accident.

KOSIBA, R.E. :Babcock & Wilcox Co.  
MACMILLAN, J.H. :Babcock & Wilcox Co.  
DATE ISS:79/06/11, 4pp. ,48x:19361-217,00I:GPU 2426 ,TN:G807 IRRELEVANT

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8307080313 Draft of .04 square feet pump discharge break.

\* :Babcock & Wilcox Co.  
:   
DATE ISS:78/04/12, 4pp. ,48x:19361-233,OOI:GPU 2430 ,TN:GB07 IRRELEVANT

8307080318 Forwards Preliminary Rpt of Safety Concern PSC 10-78 re  
small breaks at pump discharge on 177FA lowered load plants.  
Preparation of evaluation & recommendations for corrective  
actions underway.

TAYLOR, J.H. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:78/04/12, 2pp. ,48x:19361-237,OOI:GPU 2431 ,TN:GB07 IRRELEVANT

8307080408 Summary of 790515 telcon w/Z Rosztoczy re request for addl  
info on expected results of stuck open PORV, small break  
w/loss of auxiliary feedwater & reactor coolant pumps  
running.

DUNN, B.M. :Babcock & Wilcox Co.  
KANE, E.H. :Babcock & Wilcox Co.  
DATE ISS:79/05/29, 2pp. ,48x:19361-269,OOI:GPU 2445 ,TN:GB07 IRRELEVANT

8307080449 Forwards preliminary draft study reflecting thoughts &  
concerns re ECCS small break LOCA analysis N4M-2-14(AR) for  
review & comments. Proposes meeting in Knoxville, TN to  
discuss entire question of very small break LOCA.

PATTERSON, D.R. :Tennessee Valley Authority  
MCFARLAND, J. :Babcock & Wilcox Co.  
DATE ISS:78/04/27, 6pp. ,48x:19361-287,OOI:GPU 2451 ,TN:GB07 7.2

8307080483 "Emergency & Abnormal Procedures Quiz - Senior Reactor  
Operator."

KUNDER, S.A. :General Public Utilities - GPU Service Corp.  
:   
DATE ISS:76/10/20, 3pp. ,48x:19361-313,OOI:GPU 2456 ,TN:GB07 IRRELEVANT

8307080520 Forwards IE Inso Rpt 50-269/79-06 on 790221-23 & 26-28. No  
noncompliance noted.

BRUNNER, E.J. : Region 1, Philadelphia, Reactor Operations Nuclear Support  
HERBEIN, J.G. :Metropolitan Edison Co.  
DATE ISS:79/03/21, 2pp. ,48x:19361-356,OOI:GPU 2462 ,TN:GB07 IRRELEVANT

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8307080531 Forwards Dec activities rept for ECCS Analysis Unit.

DUNN, B.M. :Babcock & Wilcox Co.  
WOMACK, E.A. :Babcock & Wilcox Co.  
DATE ISS:79/01/02, 3pp. ,48x:19362-018,ODI:GPU 2464 ,TN:G807 IRRELEVANT

8307080680 Summarizes impact assessment of two auxiliary feedwater level control schemes on LOCA analysis, in response to 780907 memo.

SHAH, N.H. :Babcock & Wilcox Co.  
CARTIN, L.R. :Babcock & Wilcox Co.  
DATE ISS:78/09/19, 2pp. ,48x:19491-045,ODI:GPU 2503 ,TN:G807 IRRELEVANT

8307080694 Forwards B&W input to rept to NRC concerning 770924 depressurization event at Davis Besse. Input includes description of event, evaluation of reactor coolant components & evaluation of fuel.

LAZAR, A.H. :Babcock & Wilcox Co.  
DGRECK, C.R. :Toledo Edison Co.  
DATE ISS:77/11/01, 31pp. ,48x:19491-055,ODI:GPU 2507 ,TN:G807 IRRELEVANT

8307080701 IE Insp Rept 50-289/79-06 on 790221-23 & 25-28. No noncompliance noted. Major areas inspected: preparation for refueling, refueling activities, selected LERs & pipe supports & restraints.

KEIMIG, K.R. : Region 1, Philadelphia, Office of the Director  
DATE ISS:79/03/20, 17pp. ,48x:19491-088,ODI:GPU 2508 ,TN:G807 IRRELEVANT

8307080771 "Analysis of TMI-2 Accident w/Continuous Operation of Reactor Coolant Pumps."

\* :General Public Utilities - GPU Service Corp.  
DATE ISS:82/12/31, 22pp. ,48x:19491-178,ODI:GPU 2523 ,TN:G807 IRRELEVANT

8307120636 Operational log for 770905-11.

\* :General Public Utilities - GPU Service Corp.  
DATE ISS:77/09/11, 17pp. ,48x:19495-159,ODI:GPU 2612 ,TN:G807 IRRELEVANT

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8307120653 Graph depicting PURV RCS flows vs pressure for TMI-2 (two  
HPI pumps).

\* :General Public Utilities - GPU Service Corp.  
:   
DATE ISS:83/07/11, 1p. ,48x:19495-192,00I:GPU 2621 ,TN:G807 IRRELEVANT

8307120655 Handwritten notes re RCS temp calculations.

\* :General Public Utilities - GPU Service Corp.  
:   
DATE ISS:83/07/11, 8pp. ,48x:19495-193,00I:GPU 2622 ,TN:G807 IRRELEVANT

8307120661 Handwritten notes re HPI calculations.

\* :General Public Utilities - GPU Service Corp.  
:   
DATE ISS:83/07/11, 5pp. ,48x:19495-201,00I:GPU 2623 ,TN:G807 IRRELEVANT

8307080792 General calculations: Task 27 sys analysis of TMI-2 790328  
accident.

\* :General Public Utilities - GPU Service Corp.  
:   
DATE ISS:79/12/05, 10pp. ,48x:19491-301,00I:GPU 2700 ,TN:G807 IRRELEVANT

8307090006 Discusses C Michelson, of TVA, critique of small breaks for  
B&W RCS in May 1978.

DUNN, B.M. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:79/04/14, 9pp. ,48x:19491-339,00I:GPU 2706 ,TN:G807 IRRELEVANT

8307090007 Summary of 790416 meeting re operational limits which should  
govern operator actions to secure or terminate HPI.

CARTIN, L.R. :Babcock & Wilcox Co.  
BRAZILL, G.J. :Babcock & Wilcox Co.  
DATE ISS:79/04/18, 4pp. ,48x:19491-348,00I:GPU 2707 ,TN:G807 IRRELEVANT

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8307090013 "Makeup/Letdown Sys, Makeup Mode Using Pump 1-B."

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/06, 3pp. ,48x:19491-353,ODI:GPU 3018A ,TN:GB07 IRRELEVANT

8307090016 "Makeup/Letdown Sys, Makeup Mode Following Reactor Trip."

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/06, 2pp. ,48x:19491-355,ODI:GPU 3019A ,TN:GB07 IRRELEVANT

8307090018 "Makeup/Letdown Sys, Manual Injection Mode Following Reactor Trip."

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/06, 2pp. ,48x:19491-356,ODI:GPU 3020A ,TN:GB07 IRRELEVANT

8307090023 "Makeup/Letdown Sys, Automatic Injection Mode."

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/06, 2pp. ,48x:19491-357,ODI:GPU 3021A ,TN:GB07 IRRELEVANT

8307120639 "Make-up Tank Level," for FMI-2 790328 LOCA.

\* :Babcock & Wilcox Co.  
: DATE ISS:83/07/12, 1p. ,48x:19504-348,ODI:GPU 3022 ,TN:GB07 IRRELEVANT

8307120654 Diagram of initial conditions at t=0, for loops A & B on 790328 Sys steady at 97% power & main feedwater flow tripped at t.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/03/28, 2pp. ,48x:19504-354,ODI:GPU 3100 ,TN:GB07 IRRELEVANT



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- 8307120675 Diagram of steam generator loops A & B at t=1 minute 45 s on 790328. PURV stuck open, both steam generators dry & 1700 psia due to post scram coolant shrink.
- \* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/12, 1a. ,48x:19504-261,UDI:GPU 3101 ,TN:GB07 IRRELEVANT
- 8307120680 Diagram of steam generator loops A & B at t=8 minute 18 s on 790328. Primary sys nearly liquid solid, liquid expanding w/increasing temps, auxiliary feedwater block valves opened & pressure decreased to 1500 psia.
- \* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/12, 1a. ,48x:19504-262,UDI:GPU 3102 ,TN:GB07 IRRELEVANT
- 8307120680 Diagram of steam generator loops A & B at t=8 minute 18 s on 790328. Primary sys nearly liquid solid, liquid expanding w/increasing temps, auxiliary feedwater block valves opened & pressure decreased to 1500 psia.
- \* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/12, 1a. ,48x:19504-262,UDI:GPU 3102 ,TN:GB07 IRRELEVANT
- 8307120685 Diagram of steam generator loops A & B at t=20 minute. Primary sys cooling down via steam generators, primary sys voids increasing & pressure at 1100 psia.
- \* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/12, 1a. ,48x:19504-263,UDI:GPU 3103 ,TN:GB07 IRRELEVANT
- 8307120689 Diagram of steam generator loops A & B at t=90 minute. Loop A pumps operating, loop B stagnant after shutdown of pumps, primary sys voids increasing & pressure at 1051 psia.
- \* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/12, 1a. ,48x:19504-264,UDI:GPU 3104 ,TN:GB07 IRRELEVANT
- 8307120693 Diagram of steam generator loops A & B at t=100 minute on 830328. Loop A pumps off, steam generator A secondary level increasing, pressurizer surge line flooded & pressure at 920 psia.
- \* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/12, 1a. ,48x:19504-265,UDI:GPU 3105 ,TN:GB07 IRRELEVANT

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8307120701 Diagram of steam generator loops A & B at t=125 minute on  
790328. All pumps off, reactor core drying out & heating up,  
superheated steam formed in core & pressure at 750 psia.

\* :General Public Utilities - GPU Service Corp.  
:

DATE ISS:83/07/12, 1p. ,48x:19504-266,ODI:GPU 3106 ,TN:G807

IRRELEVANT

8307120708 Diagram of steam generator loops A & B at t=139 minute on  
790328. PORV block valve closed, core dryout & heatup  
continuing & pressure at 750 psia.

\* :General Public Utilities - GPU Service Corp.  
:

DATE ISS:83/07/12, 1p. ,48x:19504-267,ODI:GPU 3107 ,TN:G807

IRRELEVANT

8307120708 Diagram of steam generator loops A & B at t=139 minute on  
790328. PORV block valve closed, core dryout & heatup  
continuing & pressure at 750 psia.

\* :General Public Utilities - GPU Service Corp.  
:

DATE ISS:83/07/12, 1p. ,48x:19504-267,ODI:GPU 3107 ,TN:G807

IRRELEVANT

8307120715 Diagram of steam generator loops A & B at t=150 minute on  
790328. Primary pressure increased to 820 psia, core dryout &  
heatup continuing, clad ballooning & rupture & hydrogen  
generation by zirconium/water reaction begins.

\* :General Public Utilities - GPU Service Corp.  
:

DATE ISS:83/07/12, 1p. ,48x:19504-268,ODI:GPU 3108 ,TN:G807

IRRELEVANT

8307120720 Diagram of steam generator loops A & B at t=180 minute on  
790328. Fuel embrittled, core partially quenched by fluid  
subsequent to Loop d pump start & pressure increased to  
2,050 psia.

\* :General Public Utilities - GPU Service Corp.  
:

DATE ISS:83/07/13, 1p. ,48x:19504-269,ODI:GPU 3109 ,TN:G807

IRRELEVANT

8307120743 "Hypothetical Conditions Assuming Dunn's Instructions," at  
t=150 minute.

\* :General Public Utilities - GPU Service Corp.  
:

DATE ISS:83/07/12, 1p. ,48x:19504-274,ODI:GPU 3114 ,TN:G807

7.2

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8307120745 "Hypothetical Conditions Assuming Dunn's Instructions," at  
t=0.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/11, 1a. ,48x:19504-275,00I:GPU 3115 ,TN:G807 7.2

8307120752 "Small Break LOCA in B&W 205 FA PWR," at t=0 & pressure at  
2,195 psia.Svs depressurizing.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/11, 1a. ,48x:19504-276,00I:GPU 3116 ,TN:G807 IRRELEVANT

8307120757 "Small break LOCA in B&W 205 FA PWR," diagram when pressure  
exceeds 1,600 psia but less than 2,150 psia.Natural  
circulation occurring,svs voiding & svs depressurization  
continuing.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/11, 1a. ,48x:19504-277,00I:GPU 3117 ,TN:G807 IRRELEVANT

8307120761 "Small break LOCA in B&W 205 FA PWR," at pressure less than  
1,600 psia.Natural circulation ceased,svs repressurization  
begins,once-through steam generator loss & MPI on.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/11, 1a. ,48x:19504-278,00I:GPU 3118 ,TN:G807 IRRELEVANT

8307120763 "Small break LOCA in B&W 205 FA PWR," at pressure less than  
1,600 psia.Svs drainage occurring & svs repressurizing  
continues.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/11, 1a. ,48x:19504-279,00I:GPU 3119 ,TN:G807 IRRELEVANT

8307120770 Diagram 5 of "Small Break LOCA in B&W 205 FA PWR," Svs  
depressurizing,svs drainage continues,condensation heat  
transfer in steam generators & MPI off due to high pressure  
& level.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/11, 1a. ,48x:19504-280,00I:GPU 3120 ,TN:G807 IRRELEVANT

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8307120776 Diagram of "Small break LOCA in B&W 205 FA PWR." Primary pressure controlled by secondary side & core uncovered.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/11, 1p., ,48x:19504-281,00I:GPU 3121 ,TN:GB07

IRRELEVANT

8307120782 Graph of pressure vs time & graph of two-phase level vs time indicating turn around point.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/11, 1p., ,48x:19504-282,00I:GPU 3122 ,TN:GB07

IRRELEVANT

8307120787 Graph of HPI relation to break flow indicating turn around point.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/11, 1p., ,48x:19504-283,00I:GPU 3123 ,TN:GB07

IRRELEVANT

8307120791 Graph of small break relation to very small break in two-phase level condition & graph of small break relation to very small break at pressure values.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/11, 1p., ,48x:19504-284,00I:GPU 3124 ,TN:GB07

IRRELEVANT

8307120793 "Hypothetical Conditions at TM1=2 Assuming Higher Auxiliary Feedwater Level," at t=150 minute. Pressurizer drains due to differential pressure, core covered, conditions stable & sys refills w/HPI on.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/11, 1p., ,48x:19504-285,00I:GPU 3125 ,TN:GB07

7.2

8307120797 "Hypothetical Conditions at TM1=2 Assuming Vertical Pressurizer Surge Line," at t=150 minute. Core covered, pressurizer drains due to counter-current flow in surge line & sys refills w/HPI on.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/11, 1p., ,48x:19504-286,00I:GPU 3126 ,TN:GB07

IRRELEVANT

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- 8307120802 "Hypothetical Conditions at TMI-2 Assuming Vertical Reactor Coolant Pumps Left On," at t=150 minutes, Pressurizer will drain due to differential pressure, core adequately cool & HPI will be initiated on low pressurizer level.  
\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/11, 10, ,48X:19504=287,00I:GPU 3127 ,TN:G807 IRRELEVANT
- 8307120805 "Hypothetical Conditions at TMI-2 Assuming Early Block Valve Closure," high pressurizer level, reactor coolant pumps tripped & svs depressurizing.  
\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/11, 10, ,48X:19504=288,00I:GPU 3128 ,TN:G807 7.2
- 8307120806 "Hypothetical Conditions at TMI-2 Assuming Early Block Valve Closure," high pressurizer level, PORV block valve closed & svs repressurizing.  
\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/11, 10, ,48X:19504=289,00I:GPU 3129 ,TN:G807 7.2
- 8307120812 Diagram 3 of "Hypothetical Conditions at TMI-2 Assuming Early Block Valve Closure," Open code safety valves svs losing mass, auxiliary feedwater off at 50% level & high pressurizer level.  
\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/11, 10, ,48X:19504=290,00I:GPU 3130 ,TN:G807 7.2
- 8307120832 Diagram 4 of "Hypothetical Conditions of TMI-2, Assuming Early Block Valve Closure," Core uncovered & damaged & inventory continues to be lost.  
\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/11, 10, ,48X:19504=291,00I:GPU 3131 ,TN:G807 7.2
- 8307090030 Graph representing temp & pressure vs time at TMI on 790326.  
\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/03/26, 10, ,48X:19491=359,00I:GPU 3132 ,TN:G807 IRRELEVANT

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8307090032 Graph representing temp & pressure levels vs time at  
Davis-Besse on 770924.

\* :General Public Utilities - GPU Service Corp.  
: 1  
DATE ISS:77/09/24, 1p., ,48x:19491-360,00I:GPU 3133 ,TN:G807 IRRELEVANT

8307090036 Graph representing temp & pressure levels at TMI on 790328.

\* :General Public Utilities - GPU Service Corp.  
: 1  
DATE ISS:79/03/28, 1p., ,48x:19491-361,00I:GPU 3137 ,TN:G807 IRRELEVANT

8307120644 Graph of relation between steam or water PURV flow to one  
or two MPI pumps in flow vs pressure valves.Rept, "Analysis  
of RCS Make-up During TMI-2 Event," encl.

\* :EDS Nuclear, Inc.  
: 1  
DATE ISS:82/12/29, 50pp., ,48x:19504-294,00I:GPU 3138 ,TN:G807 IRRELEVANT

8307090039 Figure 2, "Makeup Tank Pressure Operating Limit."

\* :General Public Utilities - GPU Service Corp.  
: 1  
DATE ISS:83/07/06, 1p., ,48x:19491-362,00I:GPU 3141 ,TN:G807 IRRELEVANT

8307090041 Figure 3, "Lumped Flow Resistance Model."

\* :General Public Utilities - GPU Service Corp.  
: 1  
DATE ISS:83/07/06, 1p., ,48x:19492-001,00I:GPU 3142 ,TN:G807 IRRELEVANT

8307090044 Figure 4, "FAAST Model of TMI-2 Makeup Sys."

\* :General Public Utilities - GPU Service Corp.  
: 1  
DATE ISS:83/07/06, 1p., ,48x:19492-002,00I:GPU 3143 ,TN:G807 IRRELEVANT

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8307090047 Figure S-1, "Flow Regime 1."

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/06, 1b. ,48X:19492-003,ODI:GPU 3144 ,TN:GB07 IRRELEVANT

8307090049 Figure S-2, "Flow Regime 2."

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/06, 1b. ,48X:19492-004,ODI:GPU 3145 ,TN:GB07 IRRELEVANT

8307090052 Figure S-3, "Flow Regime 3."

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/06, 1b. ,48X:19492-005,ODI:GPU 3146 ,TN:GB07 IRRELEVANT

8307090055 Figure 6, "Makeup Tank Flow Regimes."

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/06, 1b. ,48X:19492-006,ODI:GPU 3147 ,TN:GB07 IRRELEVANT

8307120883 "Analysis of RCS Make-up during TM1=2 Event."

\* :EDS Nuclear, Inc.  
: DATE ISS:82/12/29, 400b. ,48X:19512-001,ODI:GPU 3148 ,TN:GB07 IRRELEVANT

8307090060 Figure 6, "Calculated Makeup Tank Level."

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/06, 1b. ,48X:19492-007,ODI:GPU 3149 ,TN:GB07 IRRELEVANT



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8307090063 Figure 9, "Makeup Tank Level."

\* :General Public Utilities - GPU Service Corp.  
: |  
DATE ISS:83/07/06, 1p. ,48x:19492-008,00I:GPU 3150 ,TN:G807 IRRELEVANT

8307090064 Figure 10, "Calculated Makeup Tank Level."

\* :General Public Utilities - GPU Service Corp.  
: |  
DATE ISS:83/07/06, 1p. ,48x:19492-009,00I:GPU 3151 ,TN:G807 IRRELEVANT

8307090068 Figure 11, "Makeup Tank Level,780423."

\* :General Public Utilities - GPU Service Corp.  
: |  
DATE ISS:83/07/06, 1p. ,48x:19492-010,00I:GPU 3152 ,TN:G807 IRRELEVANT

8307090072 Figure 12, "Calculated Makeup Tank Level,780423."

\* :General Public Utilities - GPU Service Corp.  
: |  
DATE ISS:83/07/06, 1p. ,48x:19492-011,00I:GPU 3153 ,TN:G807 IRRELEVANT

8307090074 Figure 13, "Makeup Tank Level."

\* :General Public Utilities - GPU Service Corp.  
: |  
DATE ISS:83/07/06, 1p. ,48x:19492-012,00I:GPU 3154 ,TN:G807 IRRELEVANT

8307090075 Figure 14, "Calculated Makeup Tank Level."

\* :General Public Utilities - GPU Service Corp.  
: |  
DATE ISS:83/07/05, 1p. ,48x:19492-013,00I:GPU 3155 ,TN:G807 IRRELEVANT

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8307090079 Graph of heat removal potential for TMI-2 (water heated to  
RCS temp).

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/06, 1p., ,48x:19492-014,ODI:GPU 3160 ,TN:G807 7.2

8307090080 Graph Db-1 re pressurizer level & RCS pressure sig.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:77/09/24, 1p., ,48x:19492-015,ODI:GPU 3162 ,TN:G807 IRRELEVANT

8307090084 Graph of Davis Besse reactor trip from 9% full power. Drawing  
of PWR & Toledo Edison organization chart encl.

\* :Toledo Edison Co.  
: DATE ISS:77/09/24, 3pp., ,48x:19492-016,ODI:GPU 3170 ,TN:G807 IRRELEVANT

8307050366 Transcript of Zewe 790919 testimony.

8307050331 Transcript of 790406 interview w/Zewe, Pd 14.

ZEWE :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/04/06, 1p., ,48x:19232-051,ODI:GPU 6000 AA ,TN:G807 IRRELEVANT

8307050334 Transcript of 790406 interview, Pd 14-15.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/04/06, 3pp., ,48x:19232-052,ODI:GPU 6000 CC ,TN:G807 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307050343 Transcript of Zewe 790824-25 testimony.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/08/24, 2pp. ,48x:19232-056,UDI:GPU 6001 AA ,TN:G807 IRRELEVANT

8307050346 Transcript of Zewe 790824-25 testimony.P 19.

ZEW E :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/08/24, 2pp. ,48x:19232-058,UDI:GPU 6001 BB ,TN:G807 IRRELEVANT

8307050348 Transcript of Zewe 790824-25 testimony.P 17.

ZEW E :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/08/24, 2pp. ,48x:19232-060,UDI:GPU 6001 CC ,TN:G807 IRRELEVANT

8307050353 Transcript of Zewe 790824-25 testimony.P 18.

ZEW E :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/08/24, 2pp. ,48x:19232-062,UDI:GPU 6001 DD ,TN:G807 IRRELEVANT

8307050363 Transcript of 230th ACRS general meeting on 790615 in Washington,DC.P 325.

\* :ACRS - Advisory Committee on Reactor Safeguards  
: DATE ISS:79/06/15, 3pp. ,48x:19232-064,UDI:GPU 6002 ,TN:G807 IRRELEVANT

8307050370 Transcript of 790423 interview w/Hunter & Zewe.P 11.

\* :Office of Inspection & Enforcement, Office of the Director  
: DATE ISS:79/04/23, 1p. ,48x:19232-069,UDI:GPU 6007 AA ,TN:G807 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307050404 Transcript of BM Dunn 791004 deposition. Pp 22, 26, 7, 11, 17-18,  
21 & 23-27.

DUNN, B.M. : General Public Utilities - GPU Service Corp.  
:

DATE ISS: 79/10/04, 54pp. , 48x: 19232-131, 001: GPU 6020 , TN: G807

IRRELEVANT

8307050411 Transcript of BM Dunn 790630 deposition. Pp 30-34, 43-45, 47,  
52-55, 65-66, 69-75, 78, 81-82 & 98-99.

DUNN, B.M. : General Public Utilities - GPU Service Corp.  
:

DATE ISS: 79/06/30, 29pp. , 48x: 19232-185, 001: GPU 6021 , TN: G807

IRRELEVANT

8307050419 Transcript of BM Dunn 790702 deposition. Pp 104-105, 157,  
164-167, 169, 171-172, 175-176, 179-182, 199, 203-206, 208-212 &  
219-220.

DUNN, B.M. : General Public Utilities - GPU Service Corp.  
:

DATE ISS: 79/07/02, 30pp. , 48x: 19232-214, 001: GPU 6022 , TN: G807

IRRELEVANT

8307050431 Transcript of WS Elliott 791017 deposition. Pp 9-10, 13-15,  
17-19 & 22-28.

ELLIOTT, W.S. : General Public Utilities - GPU Service Corp.  
:

DATE ISS: 79/10/17, 16pp. , 48x: 19232-270, 001: GPU 6025 , TN: G807

IRRELEVANT

8307050436 Transcript of FR Faist 791019 deposition. Pp 7-30, 34 & 38-39.

FAIST, F.R. : General Public Utilities - GPU Service Corp.  
:

DATE ISS: 79/10/19, 28pp. , 48x: 19232-286 001: GPU 6026 , TN: G807

IRRELEVANT

8307070165 Partial deposition of JF Walters on 790706.

WALTERS, J.F. : Babcock & Wilcox Co.  
:

DATE ISS: 79/07/06, 17pp. , 48x: 19357-027, 001: GPU 6047 , TN: G807

IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307070183 Partial deposition of EA womack on 791015.

WOMACK, E.A. : Babcock & Wilcox Co.  
:   
DATE ISS: 79/10/15, 4pp. , 48X: 19357-069, ODI: GPU 6053 , TN: GB07 IRRELEVANT

8307070185 Partial deposition of EA womack on 790630.

WOMACK, E.A. : Babcock & Wilcox Co.  
:   
DATE ISS: 79/06/30, 30pp. , 48X: 19357-116, ODI: GPU 6054 , TN: GB07 IRRELEVANT

OUT OF SEQUENCE EXHIBITS

8307090124 Comments on 790529 memo re plant computer post-trip requirements.

FAIRBROTHER, D. : Babcock & Wilcox Co.  
LUTZ, R. I. : Babcock & Wilcox Co.  
DATE ISS: 79/06/11, 4pp. , 48X: 19490-357, ODI: GPU 0301 , TN: GB07 7.8

8307080794 Operational log. Summary of 790328 accident at TMI-2.

\* : Babcock & Wilcox Co.  
:   
DATE ISS: 79/03/28, 2pp. , 48X: 19491-311, ODI: GPU 2701 , TN: GB07 IRRELEVANT

8307050366 Transcript of Zewe 790919 testimony.

ZEWE, : General Public Utilities - GPU Service Corp.  
:   
DATE ISS: 79/09/19, 2pp. , 48X: 19232-067, ODI: GPU 6003 AA , TN: GB07 IRRELEVANT

002519 RECORDS SCANNED 382 RECORDS PRINTED ( 183 RECORDS, 229 SUPP.)  
ENDING CODE= 186 LAST KEY= GPU 6060AA 830712092004

CATEGORY 8  
TRIAL TESTIMONY

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8306290543 Testimony of ER Frederick on 821209 in New York, NY, Pd 3,734-  
3,906.

FREDERICK, E.R. :General Public Utilities - GPU Service Corp.

DATE ISS:82/12/09, 172pp. ,48X:19031-361,001: ,TN:G808

IRRELEVANT

8306290437 Testimony of DF Hallman on 821112 in New York, NY, Pd 1,267-  
1,337.

HALLMAN, D.F. :Babcock & Wilcox Co.

DATE ISS:82/11/12, 71pp. ,48X:19025-183,001: ,TN:G808

IRRELEVANT

8307260345 Testimony of B Mehler on 830118 in New York, NY, Pd 6,954-  
6,994.

MEHLER, B. :General Public Utilities - GPU Service Corp.

DATE ISS:83/01/18, 41pp. ,48X:19040-339,001: ,TN:G808

IRRELEVANT

8306290450 Testimony of WH Zewe on 821119 in New York, NY, Pd 2,040-  
2,137, Pd 2,040-2,061 withheld.

ZEW, W.H. :General Public Utilities - GPU Service Corp.

DATE ISS:82/11/19, 75pp. ,48X:19027-233,001: ,TN:G808

IRRELEVANT

003037 RECORDS SCANNED 4 RECORDS PRINTED ( 0 RECORDS, 4 SUPP.)  
ENDING CODE= 186 LAST KEY= ZODIACO,V.P. 790511G807



CATEGORY 8  
DEPOSITIONS

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8306290728 Deposition of NL Beers on 820708 in New York, NY. Pp 152-308.

\* BEERS, M. L. : General Public Utilities - GPU Service Corp.  
DATE ISS: 82/07/08, 159pp. , 48X: 19057-289, ODI: , TN: 6B08 IRRELEVANT

8306290879 Deposition of TG Broughton on 820205 in New York, NY.  
Pp 400-551.

BROUGHTON, T. G. : General Public Utilities - GPU Service Corp.  
DATE ISS: 82/02/05, 151pp. , 48X: 19060-098, ODI: , TN: 6B08 IRRELEVANT

8306290872 Deposition of TG Broughton on 820209 in New York, NY.  
Pp 553-714.

BROUGHTON, T. G. : General Public Utilities - GPU Service Corp.  
DATE ISS: 82/02/09, 163pp. , 48X: 19059-293, ODI: , TN: 6B08 IRRELEVANT

8306290954 Deposition of J Brummer on 820310 in New York, NY. Pp 1-156.

BRUMMER, J. A. : General Public Utilities - GPU Service Corp.  
DATE ISS: 82/03/10, 156pp. , 48X: 19063-135, ODI: , TN: 6B08 IRRELEVANT

8306290713 Deposition of CC Faust on 810819 in New York, NY. Pp 129-412.

FAUST, C. C. : Metropolitan Edison Co.  
DATE ISS: 81/08/19, 283pp. , 48X: 19072-331, ODI: , TN: 6B08 IRRELEVANT

8306290701 Deposition of CC Faust on 810821 in New York, NY. Pp 413-566.

FAUST, C. C. : Metropolitan Edison Co.  
DATE ISS: 81/08/21, 153pp. , 48X: 19073-275, ODI: , TN: 6B08 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT.

8306290703 Deposition of CC Faust on 810924 in New York, NY. Pp 569-712.

FAUST, C. C. : Metropolitan Edison Co.

DATE ISS: 81/09/24, 143pp. , 48X: 19074-068, ODI: , TN: 6808 IRRELEVANT

8306290786 Deposition of ER Frederick on 820513 in New York, NY.  
Pp 884-982.

FREDERICK, E. R. : Metropolitan Edison Co.

DATE ISS: 82/05/13, 98pp. , 48X: 19080-151, ODI: , TN: 6808 IRRELEVANT

8306290823 Deposition of C Goslow on 820108 in New York, NY. Pp 154-306.

GOSLOW, C. : Babcock & Wilcox Co.

DATE ISS: 82/01/08, 153pp. , 48X: 19082-338, ODI: , TN: 6808 IRRELEVANT

8306290764 Deposition of DF Hallman on 820120 in New York, NY. Pp 210-  
353.

HALLMAN, D. F. : Babcock & Wilcox Co.

DATE ISS: 82/01/20, 144pp. , 48X: 19085-192, ODI: , TN: 6808 IRRELEVANT

8306290900 Deposition of R Keaten on 820108 in New York, NY. Pp 488-626.

KEATEN, R. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/01/08, 137pp. , 48X: 19096-317, ODI: , TN: 6808 IRRELEVANT

8306290918 Deposition of R Keaten on 820121 in New York, NY. Pp 905-  
1,056. Index of exhibits encl.

KEATEN, R. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/01/21, 152pp. , 48X: 19098-009, ODI: , TN: 6808 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8306290793 Deposition of RL Long on 820521 in New York, NY. Pp 417A-478.

LONG, R. L. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/05/21, 61pp. , 48X: 19695-240, ODI: , TN: 0808

IRRELEVANT

8306290831 Deposition of AW Miller on 811201 in Middletown, PA. Pp 1-131.

MILLER, A. W. : General Public Utilities - GPU Service Corp.

DATE ISS: 81/12/01, 131pp. , 48X: 19134-028, ODI: , TN: 0808

IRRELEVANT

8306290909 Deposition of WE Potts on 820107 in New York, NY. Pp 1-176.

POTTS, W. E. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/01/07, 176pp. , 48X: 19139-203, ODI: , TN: 0808

8.1

8306290878 Deposition of FJ Scheimann on 820428 in New York, NY. Pp 724-881.

SCHEIMANN, F. J. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/04/28, 158pp. , 48X: 19145-235, ODI: , TN: 0808

IRRELEVANT

8306290751 Deposition of WH Zewe on 820526 in New York, NY. Pp 480-645.

ZEWE, W. H. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/05/26, 165pp. , 48X: 19167-079, ODI: , TN: 0808

IRRELEVANT

000635 RECORDS SCANNED 17 RECORDS PRINTED ( 2 RECORDS, 15 SUPP. )  
ENDING CODE- 186 LAST KEY- ZEWE, W. H. 8205280807

CATEGORY 8

EXHIBITS

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307020095 Transcript of 790425 interview w/B Mehler.

MEHLER, B. : General Public Utilities - GPU Service Corp.  
:   
DATE ISS: 79/04/25, 16pp. , 48x119245-161, 001: B&W 0238 , TN: GB08 IRRELEVANT

8307020098 Transcript of 790510 interview w/B Mehler.

MEHLER, B. : General Public Utilities - GPU Service Corp.  
:   
DATE ISS: 79/05/10, 45pp. , 48x119246-004, 001: B&W 0239 , TN: GB08 IRRELEVANT

8307020104 Expresses desire that corrective action be completed on listed major equipment problems prior to restart of test program & power operation.

WARD, E.G. Babcock & Wilcox Co.  
BARTON, J.J. : General Public Utilities - GPU Service Corp.  
DATE ISS: 78/05/02, 1p. , 48x119246-050, 001: B&W 0243 , TN: GB08 IRRELEVANT

8307050290 Rev 8 to Administrative Procedure 1012, "Shift Relief & Log Entries."

\* : General Public Utilities - GPU Service Corp.  
:   
DATE ISS: 77/11/04, 12pp. , 48x119327-061, 001: B&W 0253 , TN: GB08 IRRELEVANT

8307050304 TMI staff interview w/C Faust re sequence of events leading up to turbine trip.

FAUST, C. : General Public Utilities - GPU Service Corp.  
:   
DATE ISS: 79/03/30, 12pp. , 48x119327-101, 001: B&W 0258 , TN: GB08 IRRELEVANT

8307050526 Preliminary inquiry of TMI incident of 790328.

ZERE, W.H. : General Public Utilities - GPU Service Corp.  
:   
DATE ISS: 79/04/03, 50pp. , 48x119327-282, 001: B&W 0271 , TN: GB08 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307050535 Rev 11 to Emergency Procedure 2202-1.3, "Loss of Reactor  
Coolant/Reactor Coolant Sys Pressure."

WARREN, R.P. : General Public Utilities - GPU Service Corp.  
:   
DATE ISS: 78/10/06, 2pp., 48x:19327-192,001:B&W 0272 ,TN:GB08 IRRELEVANT

8307050537 Forwards LER 79-0147, 1x-0, updating LER 79-014/01L-0.

HOVEY, G.K. : General Public Utilities - GPU Service Corp.  
GRIER, B.M. : Region 1, Philadelphia, Office of the Director (81/03/01)  
DATE ISS: 81/05/11, 2pp., 48x:19328-023,001:B&W 0275 ,TN:GB08 IRRELEVANT

8307080653 Radiation monitoring sys operability logs.

\* : Metropolitan Edison Co.  
:   
DATE ISS: 79/03/28, 9pp., 48x:19333-073,001:B&W 0308 ,TN:GB08 IRRELEVANT

8307080659 work request issue logs for 771221-790433.

\* : Metropolitan Edison Co.  
:   
DATE ISS: 79/04/03, 8pp., 48x:19333-138,001:B&W 0309 ,TN:GB08 IRRELEVANT

8307080689 Charts for 790328.

\* : Metropolitan Edison Co.  
:   
DATE ISS: 79/03/28, 21pp., 48x:19333-110,001:B&W 0315 ,TN:GB08 IRRELEVANT

8308230601 Transcript of TMI Investigative Task Force Taped Interview 6  
(Keaten Tapes) on 790419, Pgs 1-60.

\* : General Public Utilities - GPU Service Corp.  
:   
DATE ISS: 79/09/19, 61pp., 48x:20125-307,001:B&W 0347F ,TN:GB08 IRRELEVANT



U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8308230623 Transcript of TMI Investigative Task Force Taped Interview  
12 (Keaten Tapes) on 790920, Po 1-59.

\* :General Public utilities - GPU Service Corp.  
: 1  
DATE ISS:79/09/20, 60pp. ,48x:20126-301,ODI:B&W 0347L ,TN:GB08 IRRELEVANT

8307080691 Lists items which must be accomplished to complete GPU/Met  
Ed review of TMI-2 accident & underlying causes.

KEATEN,R.W. :General Public utilities - GPU Service Corp.  
:General Public utilities - GPU Service Corp.  
DATE ISS:79/12/03, 6pp. ,48x:19403-061,ODI:B&W 0353 ,TN:GB08 IRRELEVANT

8307080706 Transcript of task force interviews.

\* :General Public utilities - GPU Service Corp.  
: 1  
DATE ISS:79/09/19, 110pp. ,48x:19404-024,ODI:B&W 0361 ,TN:GB08 IRRELEVANT

8307080709 Transcript of interview w/util crew not directly involved in  
790328 accident.

\* :General Public utilities - GPU Service Corp.  
: 1  
DATE ISS:82/01/21, 26pp. ,48x:19404-134,ODI:B&W 0362 ,TN:GB08 IRRELEVANT

8307080664 Procedure 054 "Analysis of TMI-2 Operator Response."

WALSH,P.S. :General Public utilities - GPU Service Corp.  
: 1  
DATE ISS:79/10/19, 43pp. ,48x:19334-005,ODI:B&W 0377 ,TN:GB08 IRRELEVANT

8307080241 Second draft of GPU Task Force "Interim Summary Rept."

KEATE,R.W. :General Public utilities - GPU Service Corp.  
: 1  
DATE ISS:79/10/06, 6pp. ,48x:19335-190,ODI:B&W 0402 ,TN:GB08 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307080244 Forwards third draft to, "Interim Summary Rept."

KEATEN, R.W. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:79/10/17, 10. ,48x:19336-118, ODI:B&W 0403 ,TN:G808 IRRELEVANT

8307080247 Third draft of "Interim Summary Rept."

\* :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:79/10/17, 73pp. ,48x:19336-119, ODI:B&W 0403 ,TN:G808 IRRELEVANT

8307080660 "TMI II Transient Outline" covering loss of feedwater,  
alternate scenarios & radioactive releases.

\* :Babcock & Wilcox Co.  
:  
DATE ISS:82/02/09, 65pp. ,48x:19392-065, ODI:B&W 0410 ,TN:G808 IRRELEVANT

8307080630 Deposition of G Kunder on 790918 in Middletown, PA. Pp 1-119.

KUNDER, G.A. :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:79/09/18, 296pp. ,48x:19393-130, ODI:B&W 0421 ,TN:G808 IRRELEVANT

8307090168 "TMI Staff Interview: E Frederick."

VANWHITBECK, T. :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:79/04/06, 6pp. ,48x:19398-116, ODI:B&W 0655 ,TN:G808 IRRELEVANT

8307110747 Transcript of oversight hearings on 790509, 10, 11 & 13 before  
Task Force of Subcommittee on Energy & Environ of Committee  
on Interior & Insular Affairs, in Washington, DC re accident  
at TMI.

\* :Babcock & Wilcox Co.  
:  
DATE ISS:82/05/11, 88pp. ,48x:19477-265, ODI:B&W 0662 ,TN:G808 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307110724 Requests formation of fire member task force to complete investigation of encl seven soecific issues re 790328 incident.

ARNOLD,R.C. :General Public utilities - GPU Service Corp.  
KEATEN,R.W. :General Public utilities - GPU Service Corp.  
DATE ISS:79/06/27, 5pp. ,48X:19445-169,00I:B&W 0694 ,TN:GB08 IRRELEVANT

8307110732 Submits questions re TMI-2 incident on 790328.

\* :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:79/06/13, 3pp. ,48X:19445-177,00I:B&W 0697 ,TN:GB08 IRRELEVANT

8307110735 Submits tasks & subtasks for task teams.

\* :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:79/07/09, 1pp. ,48X:19445-180,00I:B&W 0698 ,TN:GB08 IRRELEVANT

8307110739 Forwards first rough draft, "GPU Task Force Interim Summary Rept."

KEATON,R.W. :General Public utilities - GPU Service Corp.  
:General Public utilities - GPU Service Corp.  
DATE ISS:79/09/28, 1p. ,48X:19446-002,00I:B&W 0699 ,TN:GB08 IRRELEVANT

8307110744 Requests copy of encl package re task force draft rept.

LONG,R.L. :Babcock & Wilcox Co.  
:General Public utilities - GPU Service Corp.  
DATE ISS:79/10/07, 6pp. ,48X:19446-060,00I:B&W 0700 ,TN:GB08 IRRELEVANT

8307110752 "GPU Task Force Investigative Rept."

BROUGHTON,T.G. :General Public utilities - GPU Service Corp.  
:General Public utilities - GPU Service Corp.  
DATE ISS:79/11/27, 46pp. ,48X:19446-134,00I:B&W 0702 ,TN:GB08 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307110757 "GPU Accident Review Task Force Final Summary Rept."

KEATEH, R.W. :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:80/03/24, 43pp. ,48X:19446-346,001:8&W 0703 ,TN:GB08 IRRELEVANT

8307110763 Forwards TDR TMI-111, "Analysis of TMI-2 Operator Response,"  
for review. Comments requested by 790625.

BROUGHTON, T.G. :General Public Utilities - GPU Service Corp.  
LONG, R. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/06/21, 32pp. ,48X:19447-062,001:8&W 0705 ,TN:GB08 IRRELEVANT

8307110769 "Analysis of TMI-2 Operator Response."

WALSH, P.S. :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:82/05/20, 36pp. ,48X:19447-066,001:8&W 0706 ,TN:GB08 IRRELEVANT

8307090353 Forwards response to 791025 notice of violation & notice of  
proposed issuance of civil penalties based on IE  
investigation of 790328 accident.

ARNOLD, R.C. :Metropolitan Edison Co.  
STELLU, V. :Office of Inspection & Enforcement, Office of the Director  
DATE ISS:79/12/05, 97pp. ,48X:19492-019,001:8&W 0707 ,TN:GB08 IRRELEVANT

8307090026 Forwards TMI staff interview of H McGovern dtd 790504 &  
DA deny notes on 790329 re 790328 incident.

ZODIACO, V.P. :General Public Utilities - GPU Service Corp.  
BLANE, E.L. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/05/10, 447pp. ,48X:19449-031,001:8&W 0719 ,TN:GB08 IRRELEVANT

8307090054 Notes on operational aspects of 790328 event.

\* :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:79/07/17, 17pp. ,48X:19450-134,001:8&W 0726 ,TN:GB08 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307090012 "IE Radiological Sequence of Events."

\* :Office of Inspection & Enforcement, Office of the Director  
: DATE ISS:79/07/19, 18pp. ,48x:19453-004,00I:B&W 0728 ,TN:G808 IRRELEVANT

8307090014 "NRC Sequence of Events:Miscellaneous Notes."

\* :Office of Inspection & Enforcement, Office of the Director  
: DATE ISS:79/06/22, 2pp. ,48x:19453-022,00I:B&W 0729 ,TN:G808 IRRELEVANT

8307120252 Discusses items & assignment of responsibilities needed to address NRC IE investigation draft rept findings,Initial response requested by 790622 & final response by 790912.

WALLACE,E.G. :General Public Utilities - GPU Service Corp.  
BEHRLE,W.H. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/08/06, 3pp. ,48x:19454-130,00I:B&W 0730 ,TN:G808 IRRELEVANT

8307120265 Forwards comments on NRC radiological sequence of events on 790328-30 & IE testimony to NRC.

WOODARD,K. :Pickard, Lowe & Garrick, Inc.  
LONG,R. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/07/12, 66pp. ,48x:19454-133,00I:B&W 0731 ,TN:G808 IRRELEVANT

8307120301 Draft transcript of 790412 interview w/w Zewe.

ZEW,E,w. :Metropolitan Edison Co.  
: DATE ISS:79/04/12, 67pp. ,48x:19456-003,00I:B&W 0748 ,TN:G808 IRRELEVANT

8307120304 Transcript of 790406 interview of w/w Zewe.

ZEW,E,w. :Metropolitan Edison Co.  
: DATE ISS:79/04/06, 16pp. ,48x:19456-069,00I:B&W 0749 ,TN:G808 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307120336 Transcript of a Zewe interview on 790423-24 in  
Middletown, PA.

ZEW, E. : Metropolitan Edison Co.

DATE ISS: 79/04/24, 80pp., 48x: 19456-097, OOI: B&W 0754, TN: G808

IRRELEVANT

8307130376 Ack receipt of 791205 ltr in response to NRC 791025 ltr  
transmitting notice of violation & proposed imposition of  
civil penalties in amount of \$155,000 re inoperability of  
flow paths to steam generator.

STELLO, V. : Director's Office, Office of Inspection and Enforcement

ARNOLD, R.C. : Metropolitan Edison Co.

DATE ISS: 80/01/23, 35pp., 48x: 19501-066, OOI: B&W 0833, TN: G808

IRRELEVANT

8307090342 Forwards third draft investigative task force summary re  
re TMI accident. Rept reflects revs discussed during  
791011-12 meetings. Comments requested by 791022.

KEATEN, R.W. : General Public Utilities - GPU Service Corp.

: General Public Utilities - GPU Service Corp.

DATE ISS: 79/10/17, 77pp., 48x: 19400-185, OOI: B&W 0907, TN: G808

IRRELEVANT

8307090384 Transcript of IE interview of H Hartman on 790522.

HARTMAN, H. : General Public Utilities - GPU Service Corp.

DATE ISS: 79/05/22, 61pp., 48x: 19486-275, OOI: B&W 1021, TN: G808

IRRELEVANT

8307090279 Transcript of ACRS Subcommittee on TMI-2 790606 meeting in  
Middletown, PA, Pp 1-192.

\* : ACRS - Advisory Committee on Reactor Safeguards

DATE ISS: 79/06/06, 227pp., 48x: 19467-104, OOI: B&W 4012, TN: G808

IRRELEVANT

8307120700 Deposition of JB Logan on 790805 in Harrisburg, PA, Pp 113-  
116.

LOGAN, J.B. : Metropolitan Edison Co.

DATE ISS: 79/08/05, 5pp., 48x: 19495-276, OOI: B&W 4041, TN: G808

IRRELEVANT



U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307130088 Transcript of 790408 util interview.

\* :General Public Utilities - GPU Service Corp.  
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DATE ISS:79/04/06, 1p. ,48x:19496-358,ODI:B&W 5002AA ,TN:GB08 IRRELEVANT

8307010274 "Final Rept of TMI-2 Occurrence, Technical Review  
Committee."

\* :Babcock & Wilcox Co.  
:  
DATE ISS:79/07/31, 234pp. ,48x:19179-316,ODI:GPU 0006 ,TN:GB08 IRRELEVANT

8307020007 "Final Rept of TMI-2 Occurrence, Technical Review Committee."

\* :Babcock & Wilcox Co.  
:  
DATE ISS:83/06/30, 54pp. ,48x:19228-221,ODI:GPU 0007 ,TN:GB08 IRRELEVANT

8307020218 Forwards info re transient which occurred at plant on  
790328 as received. Info should be used w/caution. Possibility  
info incorrect as reported, contradictory w/other repts or  
incorrect as recorded.

WANDLING, G.K. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:79/03/29, 13pp. ,48x:19225-123,ODI:GPU 0138 ,TN:GB08 IRRELEVANT

8307080729 Minutes of 791108 & 30 staff meetings to review findings &  
recommendations of Technical Review Committee established  
after TMI-2 accident.

BALL, H.M. :Babcock & Wilcox Co.  
MACMILLAN, J.H. :Babcock & Wilcox Co.  
DATE ISS:79/12/07, 29pp. ,48x:19490-014,ODI:GPU 0232 ,TN:GB08 IRRELEVANT

8307130163 Emergency Operating Spec 69-1001168-00, "Loss of Reactor  
Coolant/RCS Pressure."

VEENSTRA, J. :Babcock & Wilcox Co.  
:  
DATE ISS:77/01/05, 8pp. ,48x:19503-257,ODI:GPU 0474 ,TN:GB08 IRRELEVANT



U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

- 8307070382 Discusses near-term design improvements identified in 790416 meeting w/ACRS. Mods will provide operators w/more positive indication of PORV position & saturated temp condition indicator for RCS.  
MACMILLAN, J.H. :Babcock & Wilcox Co.  
DENTON, H.H. :Office of Nuclear Reactor Regulation, Director  
DATE ISS:79/04/26, 1p. ,48x:19341-109,ODI:GPU 0534 ,TN:GB08 IRRELEVANT
- 8307070292 Speech entitled "B&W Capabilities & Experience Supporting Plant Startup, Operations & Maint.," presented at 780306-07 nuclear operating experience seminar in Hershey, PA.  
BAKER, R.J. :Babcock & Wilcox Co.  
DATE ISS:78/03/06, 37pp. ,48x:19338-118,ODI:GPU 2027 ,TN:GB08 IRRELEVANT
- 8307080071 Forwards IE Insp Repts 50-289/78-23 & 50-320/78-36 on 781204-08 & 12-14 & notice of violation.  
BRUNNER, E.J. : Region 1, Philadelphia, Reactor Operations Nuclear Support  
HERBEIN, J.G. :Metropolitan Edison Co.  
DATE ISS:79/01/09, 2pp. ,48x:19358-066,ODI:GPU 2103 ,TN:GB08 IRRELEVANT
- 8307080104 Forwards IE Insp Repts 50-289/79-01 & 50-320/79-01 on 790108-11. No noncompliance noted.  
BRUNNER, E.J. : Region 1, Philadelphia, Reactor Operations Nuclear Support  
HERBEIN, J.G. :Metropolitan Edison Co.  
DATE ISS:79/01/29, 2pp. ,48x:19339-107,ODI:GPU 2105 ,TN:GB08 IRRELEVANT
- 8307080333 Forwards IE Insp Repts 50-289/79-03 & 50-320/79-04 on 790213-15, 24-25, 26 & 0301-02 & notice of violation.  
GRIER, B.H. : Region 1, Philadelphia, Office of the Director  
HERBEIN, J.G. :Metropolitan Edison Co.  
DATE ISS:79/04/14, 3pp. ,48x:19339-128,ODI:GPU 2107 ,TN:GB08 IRRELEVANT
- 8307120934 Transcript of 790423 TMI-2 investigation interview w/E Frederick, PD 1-101.  
FREDERICK, E. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/06/28, 102pp. ,48x:19500-185,ODI:GPU 2161 ,TN:GB08 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307080216 Problem re loss of feedwater while operating at 98% power.

\* :General Public Utilities - GPU Service Corp.  
: 1  
DATE ISS:79/03/28, 1p., 48x:19361-157,ODI:GPU 2415 ,TN:G808 IRRELEVANT

8307080295 Discusses top 10 lessons learned from Unit 2 accident.

KOSIBA,R.E. :Babcock & Wilcox Co.  
MACMILLAN,J.H. :Babcock & Wilcox Co.  
DATE ISS:79/06/11, 4pp., 48x:19361-217,ODI:GPU 2426 ,TN:G808 IRRELEVANT

8307080520 Forwards IE Insp Rept 50-289/79-06 on 790221-23 & 26-28.No noncompliance noted.

BRUNNER,E.J. : Region 1, Philadelphia, Reactor Operations Nuclear Support  
HERBEIN,J.G. :Metropolitan Edison Co.  
DATE ISS:79/03/21, 2pp., 48x:19361-356,ODI:GPU 2462 ,TN:G808 IRRELEVANT

8307070234 Partial transcript of IE TMI investigation interview of C Faust on 790421.

FAUST,C. :General Public Utilities - GPU Service Corp.  
: 1  
DATE ISS:79/04/21, 82pp., 48x:19357-289,ODI:GPU 6059A ,TN:G808 IRRELEVANT

002519 RECORDS SCANNED 64 RECORDS PRINTED ( 2 RECORDS, 62 SUPP.)  
ENDING CODE= 186 LAST KEY= GPU 6060AA 830712092004

CATEGORY 9  
TRIAL TESTIMONY

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8306290450 Testimony of Mr Zewe on 821119 in New York, NY. Pg 2,040-  
2,137. Pg 2,040-2,061 withheld.

ZEW, W.H. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/11/19, 75pp. , 48X: 19027-233,001: , TN: G809

9.1

003037 RECORDS SCANNED 1 RECORDS PRINTED ( 0 RECORDS, 1 SUPP.)  
ENDING CODE= 186 LAST KEY= ZODIACO, V.P. 790511G807

CATEGORY 9  
DEPOSITIONS

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8306290704 Deposition of F Faist on B20323 in New York, NY. Pp 1-137.  
Supporting documentation encl.

FAIST, F : Babcock & Wilcox Co.

DATE ISS: 82/03/23, 148pp. , 48X: 19072-052, ODI: , TN: 8B09

IRRELEVANT

8307060447 Deposition of CC Faust on B10820 in New York, NY. Pp 276-412.

FAUST, C. C. : Metropolitan Edison Co.

DATE ISS: 81/08/20, 136pp. , 48X: 19301-291, ODI: , TN: 8B09

IRRELEVANT

8306290703 Deposition of CC Faust on B10924 in New York, NY. Pp 569-712.

FAUST, C. C. : Metropolitan Edison Co.

DATE ISS: 81/09/24, 143pp. , 48X: 19074-068, ODI: , TN: 8B09

IRRELEVANT

8306290733 Deposition of JR Floyd on B20428 in New York, NY. Pp 294-422.

FLOYD, J. R. : Metropolitan Edison Co.

DATE ISS: 82/04/28, 128pp. , 48X: 19077-014, ODI: , TN: 8B09

9.1

8306290786 Deposition of ER Frederick on B20513 in New York, NY.  
Pp 884-982.

FREDERICK, E. R. : Metropolitan Edison Co.

DATE ISS: 82/05/13, 98pp. , 48X: 19080-151, ODI: , TN: 8B09

9.1

8306290793 Deposition of RL Long on B20521 in New York, NY. Pp 417A-478.

LONG, R. L. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/05/21, 61pp. , 48X: 19695-240, ODI: , TN: 8B09

IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8306290878 Deposition of FJ Scheimann on 820428 in New York, NY. Pp 724-  
881.

SCHEIMANN, F. J. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/04/28. 158pp. , 48X: 19145-235. ODI: , TN: 6809 9.1

000635 RECORDS SCANNED 7 RECORDS PRINTED ( 0 RECORDS, 7 SUPP. )  
ENDING CODE- 186 LAST KEY- ZEWE, W. H. 8205280807



CATEGORY 9

EXHIBITS

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307020095 Transcript of 790425 interview w/B Menler.

MEHLER, B. :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:79/04/25, 100p. ,48x:19245-181,001:B&W 0238 ,TN:GB09 9.1

8307120620 Forwards final rept on 780423 reactor trip/ES of 780423 incident.

SEELINGER, J.L. :Metropolitan Edison Co.  
MILLER, G.P. :Metropolitan Edison Co.  
DATE ISS:78/05/04, 890p. ,48x:19501-267,001:B&W 0246 ,TN:GB09 IRRELEVANT

8307050297 Transcript of E Frederick & C Faust 790329 statement of events leading up to incident. Hand-written copy encl.

FREDERICK, E. :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:79/03/29, 00p. ,48x:19327-095,001:B&W 0257 ,TN:GB09 IRRELEVANT

8307050304 TMI staff interview w/C Faust re sequence of events leading up to turbine trip.

FAUST, C. :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:79/03/30, 120p. ,48x:19327-101,001:B&W 0258 ,TN:GB09 9.1

8307050320 Suggests areas in which evaluation of 790423 incident could be more accurate & complete. Concentration suggested in areas of malfunctioning safeties, flow testing of Mu-V-108 & poorly designed alarm sys.

FREDERICK, E. :General Public Utilities - GPU Service Corp.  
:Babcock & Wilcox Co.  
DATE ISS:78/05/03, 500p. ,48x:19327-131,001:B&W 0264 ,TN:GB09 IRRELEVANT

8307050526 Preliminary inquiry of TMI incident of 790328.

ZEW, H.H. :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:79/04/03, 500p. ,48x:19327-282,001:B&W 0271 ,TN:GB09 9.1

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307050535 Rev 11 to Emergency Procedure 2202-1.3, "Loss of Reactor  
Coolant/Reactor Coolant Sys Pressure."

WARREN, R.P. :General Public Utilities - GPU Service Corp.

DATE ISS:78/10/06, 2pp. ,48x:19327-192,00I:B&W 0272 ,TN:GB09

IRRELEVANT

8307050537 Forwards LER 79-014/01X=0, updating LER 79-014/01L=0.

HOVEY, G.K. :General Public Utilities - GPU Service Corp.

GRIER, B.H. :Region 1, Philadelphia, Office of the Director (81/03/01)  
DATE ISS:81/05/11, 2pp. ,48x:19328-023,00I:B&W 0275 ,TN:GB09

IRRELEVANT

8307070397 First draft "GPU Task Force Interim Summary Rept."

\* :General Public Utilities - GPU Service Corp.

DATE ISS:79/09/26, 5pp. ,48x:19321-250,00I:B&W 0347 ,TN:GB09

9.1

8308230601 Transcript of TMI Investigative Task Force Taped Interview 6  
(Keaten Tapes) on 790919. Pp 1-6v.

\* :General Public Utilities - GPU Service Corp.

DATE ISS:79/09/19, 61pp. ,48x:20125-307,00I:B&W 0347F ,TN:GB09

9.1

8308230619 Transcript of TMI Investigative Task Force Taped Interview  
11 (Keaten Tapes) on 790920. Pp 1-6b.

\* :General Public Utilities - GPU Service Corp.

DATE ISS:79/09/20, 67pp. ,48x:20126-234,00I:B&W 0347K ,TN:GB09

9.1

8308230623 Transcript of TMI Investigative Task Force Taped Interview  
12 (Keaten Tapes) on 790920. Pp 1-59.

\* :General Public Utilities - GPU Service Corp.

DATE ISS:79/09/20, 60pp. ,48x:20126-301,00I:B&W 0347L ,TN:GB09

9.1

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307070438 Second draft "GPU Task Force Interim Summary Rept."

KEATEN, R.W. :General Public Utilities - GPU Service Corp.  
1  
DATE ISS:79/10/06, 57pp. ,48x:19322-016,001:8&W 0349 ,TN:G809 9.1

8307080673 Forwards "GPU Task Force Interim Summary Rept," third draft  
re TH1-2 accident on 790326.

KEATEN, R.W. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:79/10/17, 1p. ,48x:19402-181,001:8&W 0350 ,TN:G809 9.1

8307080681 Forwards "GPU Task Force Interim Summary Rept" re findings &  
conclusions to date & presenting preliminary recommendations  
re TH1-2 accident on 790328.

KEATE, R.W. :General Public Utilities - GPU Service Corp.  
DIECKAMP, H.M. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/10/29, 1p. ,48x:19402-339,001:8&W 0351 ,TN:G809 9.1

8307080688 "GPU Accident Review Task Force Interim Summary Rept."

KEATEN, R.W. :General Public Utilities - GPU Service Corp.  
1  
DATE ISS:79/11/28, 41pp. ,48x:19403-019,001:8&W 0352 ,TN:G809 9.1

8307080691 Lists items which must be accomplished to complete GPU/Met  
to review of TH1-2 accident & underlying causes.

KEATEN, R.W. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:79/12/03, 6pp. ,48x:19403-061,001:8&W 0353 ,TN:G809 9.1

8307080693 "GPU Accident review Task Force Final Summary Rept."

\* :General Public Utilities - GPU Service Corp.  
1  
DATE ISS:80/03/24, 41pp. ,48x:19403-068,001:8&W 0354 ,TN:G809 9.1

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307080695 "GPU Accident Review Task Force Final Summary Rept."

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:80/05/12, 50pp., 48x:19403-112, ODI:B&W 0355 ,TN:GB09 9.1

8307080698 "GPU Accident Review Task Force Final Summary Rept."

KEATEN, R.W. :General Public Utilities - GPU Service Corp.  
: DATE ISS:80/12/15, 49pp., 48x:19403-161, ODI:B&W 0356 ,TN:GB09 9.1

8307080699 Forwards marked-up task force rept indicating significant differences from interim rept. w/o encl.

KEATEN, R.W. :General Public Utilities - GPU Service Corp.  
DIECKAMP, H.M. :General Public Utilities - GPU Service Corp.  
: DATE ISS:80/09/02, 1p., 48x:19404-017, ODI:B&W 0357 ,TN:GB09 IRRELEVANT

8307080708 Transcript of task force interviews.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/09/19, 110pp., 48x:19404-024, ODI:B&W 0361 ,TN:GB09 9.1

8307080709 Transcript of interview w/util crew not directly involved in 790328 accident.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:82/01/21, 288pp., 48x:19404-134, ODI:B&W 0362 ,TN:GB09 9.1

8307080717 Forwards results, conclusions & recommendations re Task 1, Subtask 4 & Task 2, Subtasks 5 & 7 concerning TMI 2 accident review.

KITTELSON, L.L. :Metropolitan Edison Co.  
TSAGGARIS, A. :Metropolitan Edison Co.  
: DATE ISS:79/09/28, 21pp., 48x:19405-064, ODI:B&W 0365 ,TN:GB09 9.1

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307080064 Procedure 054 "Analysis of TMI-2 Operator Response."

WALSH, P.S. :General Public Utilities - GPU Service Corp.  
:   
DATE ISS:79/10/19, 43pp. ,48x:19334-005,00I:B&W 0377 ,TN:GB09 IRRELEVANT

8307080227 Forwards first draft "Interim Summary Rept."

KEATEN, R.W. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:79/09/28, 1p. ,48x:19335-127,00I:B&W 0400 ,TN:GB09 9.1

8307080241 Second draft of GPU Task Force "Interim Summary Rept."

KEATEN, R.W. :General Public Utilities - GPU Service Corp.  
:   
DATE ISS:79/10/06, 66pp. ,48x:19335-190,00I:B&W 0402 ,TN:GB09 9.1

8307080244 Forwards third draft to: "Interim Summary Rept."

KEATEN, R.W. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:79/10/17, 1p. ,48x:19336-118,00I:B&W 0403 ,TN:GB09 9.1

8307080247 Third draft of "Interim Summary Rept."

\* :General Public Utilities - GPU Service Corp.  
:   
DATE ISS:79/10/17, 73pp. ,48x:19336-119,00I:B&W 0403 ,TN:GB09 9.1

8307080630 Deposition of G Kunder on 790916 in Middletown, PA, Pp 1-119.

KUNDER, G.A. :General Public Utilities - GPU Service Corp.  
:   
DATE ISS:79/09/18, 296pp. ,48x:19393-130,00I:B&W 0421 ,TN:GB09 9.1

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307090163 Testimony of E. Frederick re accident at TMI-2.

FREDERICK, E. : Metropolitan Edison Co.

DATE ISS: 79/05/10, 79pp., ,48x:19398-037, ODI: B&W 0654 , TN: G809 9.1

8307110747 Transcript of oversight hearings on 790509, 10, 11 & 13 before Task Force of Subcommittee on Energy & Environment of Committee on Interior & Insular Affairs, in Washington, DC re accident at TMI.

\* : Babcock & Wilcox Co.

DATE ISS: 82/05/11, 48pp., ,48x:19477-265, ODI: B&W 0662 , TN: G809 9.1

8307110724 Requests formation of fire member task force to complete investigation of end seven specific issues re 790328 incident.

ARNOLD, R.C. : General Public Utilities - GPU Service Corp.

KEATEN, R.W. : General Public Utilities - GPU Service Corp.

DATE ISS: 79/06/27, 5pp., ,48x:19445-169, ODI: B&W 0694 , TN: G809 9.1

8307110732 Submits questions re TMI-2 incident on 790328.

\* : Babcock & Wilcox Co.

: Babcock & Wilcox Co.

DATE ISS: 79/06/13, 3pp., ,48x:19445-177, ODI: B&W 0697 , TN: G809 IRRELEVANT

8307110735 Submits tasks & subtasks for task teams.

\* : Babcock & Wilcox Co.

: Babcock & Wilcox Co.

DATE ISS: 79/07/09, 16pp., ,48x:19445-180, ODI: B&W 0698 , TN: G809 9.1

8307110739 Forwards first rough draft, "GPU Task Force Interim Summary Rept."

KEATON, R.W. : General Public Utilities - GPU Service Corp.

: General Public Utilities - GPU Service Corp.

DATE ISS: 79/09/28, 1p., ,48x:19446-002, ODI: B&W 0699 , TN: G809 9.1



U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307110744 Requests copy of encl package re task force draft rept.

LUNG, H.L. :Babcock & Wilcox Co.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:79/10/07, 6pp. ,48x:19446-060, OOI:B&W 0700 ,TN:G809 IRRELEVANT

8307110752 "GPU Task Force Investigative Rept."

BROUGHTON, T.G. :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:79/11/27, 4pp. ,48x:19446-134, OOI:B&W 0702 ,TN:G809 9.1

8307110757 "GPU Accident Review Task Force Final Summary Rept."

KEATEN, R.W. :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:80/03/24, 43pp. ,48x:19446-346, OOI:B&W 0703 ,TN:G809 9.1

8307090353 Forwards response to 791025 notice of violation & notice of proposed issuance of civil penalties based on IE investigation of 790328 accident.

ARNOLD, R.C. :Metropolitan Edison Co.  
STELLO, V. :Office of Inspection & Enforcement, Office of the Director  
DATE ISS:79/12/05, 97pp. ,48x:19492-019, OOI:B&W 0707 ,TN:G809 9.1

8307110760 "Development of Technical Support for TMI-2 Accident."

\* :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:79/10/31, 2pp. ,48x:19447-156, OOI:B&W 0711 ,TN:G809 9.1

8307110783 Draft AHS paper re TMI-2 onsite technical support group activities to identify & solve problems by priority.

\* :Babcock & Wilcox Co.  
:  
DATE ISS:79/10/23, 12pp. ,48x:19447-158, OOI:B&W 0712 ,TN:G809 9.1

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307110785 Draft "Analysis of Technical Support Following TMI-2  
Accident."

\* :Babcock & Wilcox Co.  
: ;  
DATE ISS:79/10/29, 24pp. ,48x:19447-170,001:B&W 0713 ,TN:G809 9.1

8307110787 Draft of "Analysis of Technical Support Following TMI-2  
Accident."

\* :Babcock & Wilcox Co.  
: ;  
DATE ISS:79/10/29, 12pp. ,48x:19447-194,001:B&W 0714 ,TN:C309 9.1

8307110788 Draft of Technical Support Resources & Organization."

\* :Babcock & Wilcox Co.  
: ;  
DATE ISS:82/05/20, 9pp. ,48x:19447-012,001:B&W 0715 ,TN:G809 9.1

8307110791 Draft "Organization for Technical Support."

\* :Babcock & Wilcox Co.  
: ;  
DATE ISS:82/05/20, 7pp. ,48x:19447-021,001:B&W 0716 ,TN:G809 9.1

830709002b Forwards TMI staff interview of H McGovern dtd 790504 &  
DA servv notes on 790324 re 790328 incident.

ZODIACO,V.P. :General Public Utilities - GPU Service Corp.  
BLAKE,E.C. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/05/10, 447pp. ,48x:19449-031,001:B&W 0719 ,TN:G809 9.1

8307090054 Notes on operational aspects of 790328 event.

\* :General Public Utilities - GPU Service Corp.  
: ;  
DATE ISS:79/07/17, 17pp. ,48x:19450-134,001:B&W 0726 ,TN:G809 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

- 8307120252 Discusses items & assignment of responsibilities needed to address NRC IE investigation draft rept findings. Initial response requested by 790822 & final response by 790912.
- WALLACE, E.G. :General Public Utilities - GPU Service Corp.  
BEHRLE, W.H. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/08/06, 3pp. ,48x:19454-130,00I:8&W 0730 ,TN:G809 9.1
- 8307120265 Forwards comments on NRC radiological sequence of events on 790328-30 & IE testimony to NRC.
- WOODARD, K. :Pickard, Lowe & Garrick, Inc.  
LONG, R. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/07/12, 6pp. ,48x:19454-133,00I:8&W 0731 ,TN:G809 9.1
- 8307090147 Interview of GP Miller re TMI-2 event on 790328.
- MILLER, G.P. :Metropolitan Edison Co.  
:  
DATE ISS:82/06/11, 31pp. ,48x:19453-148,00I:8&W 0800 ,TN:G809 9.1
- 8307130376 Ack receipt of 791205 ltr in response to NRC 791025 ltr transmitting notice of violation & proposed imposition of civil penalties in amount of \$155,000 re inoperability of flow paths to steam generator.
- STELLO, V. :Director's Office, Office of Inspection and Enforcement  
ARNOLD, R.C. :Metropolitan Edison Co.  
DATE ISS:80/01/23, 35pp. ,48x:19501-066,00I:8&W 0833 ,TN:G809 9.1
- 8307120056 Investigation interview w/GA Kunder on 790425 in Middletown, PA.
- KUNDER, G.A. :Metropolitan Edison Co.  
:  
DATE ISS:79/04/25, 59pp. ,48x:19457-150,00I:8&W 0864 ,TN:G809 9.1
- 8307090342 Forwards third draft investigative task force summary rept re TMI accident. Rept reflects revs discussed during 791011-12 meetings. Comments requested by 791022.
- KEATEN, R.W. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:79/10/17, 77pp. ,48x:19400-185,00I:8&W 0907 ,TN:G809 9.1

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307090279 Transcript of ACRS Subcommittee on TMI-2 790606 meeting in  
Middletown, PA. Po 1-192.

\* :ACRS - Advisory Committee on Reactor Safeguards  
:  
DATE ISS:79/06/06, 227pp. ,48x:19467-104,UDI:B&W 4012 ,TN:GB09 9.1

8307120687 Transcript of E. Frederick interview on 790510 before  
President's Commission.

FREDERICK, E. :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:79/05/10, 79pp. ,48x:19462-308,UDI:B&W 4020 ,TN:GB09 9.1

8307010274 "Final Rept of TMI-2 Occurrence, Technical Review  
Committee."

\* :Babcock & Wilcox Co.  
:  
DATE ISS:79/07/31, 234pp. ,48x:19179-316,UDI:GPU 0006 ,TN:GB09 9.1

8307020007 "Final Rept of TMI-2 Occurrence, Technical Review Committee."

\* :Babcock & Wilcox Co.  
:  
DATE ISS:83/06/30, 54pp. ,48x:19228+221,UDI:GPU 0007 ,TN:GB09 IRRELEVANT

8307080702 Forwards draft of recommended emergency response plan  
developed by AIF subcommittee. Plan will be submitted to AIF  
Steering Committee on TMI by 790801.

MACMILLAN, J.H. :Babcock & Wilcox Co.  
KOSIBA, R.E. :Babcock & Wilcox Co.  
DATE ISS:79/07/23, 7pp. ,48x:19490-001,UDI:GPU 0226 ,TN:GB09 9.1

8307080729 Minutes of 791106 & 30 staff meetings to review findings &  
recommendations of Technical Review Committee established  
after TMI-2 accident.

BALL, W.M. :Babcock & Wilcox Co.  
MACMILLAN, J.H. :Babcock & Wilcox Co.  
DATE ISS:79/12/07, 29pp. ,48x:19490-014,UDI:GPU 0232 ,TN:GB09 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
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8307050403 Revised Chapter 13 to FSAW, "Conduct of Operations."

\* :General Public Utilities - GPU Service Corp.  
:   
DATE ISS:78/04/07, 67pp. ,48x:19230-001,001:GPU 2156 ,TN:GB09 9.1

8307120934 Transcript of 790423 T-1=2 investigation interview w/E  
Frederick, Pd 1=101.

FREDERICK, E. :General Public Utilities - GPU Service Corp.  
:   
DATE ISS:79/06/28, 102pp. ,48x:19500-185,001:GPU 2161 ,TN:GB09 9.1

8307080483 "Emergency & Abnormal Procedures Quiz - Senior Reactor  
Operator."

KUNDER, S.A. :General Public Utilities - GPU Service Corp.  
:   
DATE ISS:76/10/20, 3pp. ,48x:19361-313,001:GPU 2456 ,TN:GB09 IRRELEVANT

8307080487 "Emergency & Abnormal Procedures Quiz - Senior Reactor  
Operator."

KUNDER, G. :General Public Utilities - GPU Service Corp.  
:   
DATE ISS:77/01/09, 8pp. ,48x:19361-316,001:GPU 2457 ,TN:GB09 IRRELEVANT

8307080498 Submits recommendations for RCS low-low pressure alarm &  
electromagnetic relief valve reset pressure, per high  
pressure injection setpoint.

ROGERS, L.C. :Babcock & Wilcox Co.  
TOOLE, K.J. :Metropolitan Edison Co.  
DATE ISS:78/09/29, 2pp. ,48x:19361-341,001:GPU 2459 ,TN:GB09 IRRELEVANT

8307080520 Forwards to Insp Rept 50-269/79-06 on 790221-23 & 26-28, 4-  
noncompliance noted.

BRUNNER, E.J. : Region 1, Philadelphia, Reactor Operations Nuclear Support  
HERBEIN, J.G. :Metropolitan Edison Co.  
DATE ISS:79/03/21, 2pp. ,48x:19361-356,001:GPU 2462 ,TN:GB09 IRRELEVANT

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307080573 "Small Break Operating Guidelines - Davis-Besse Unit 1."

WALLMAN, D.F. :Babcock & Wilcox Co.

DATE ISS:79/11/20, 37pp. ,48x:19362-025,ODI:GPU 2467 ,TN:GB09 IRRELEVANT

8307080581 "Operating Guidelines for Small Breaks for Oconee 1,2 & 3,  
TMI-1 & TMI-2, Crystal River 3 & Rancho Seco 1."

\* :Babcock & Wilcox Co.

DATE ISS:83/07/06, 48pp. ,48x:19362-066,ODI:GPU 2468 ,TN:GB09 IRRELEVANT

8307070132 Partial deposition of LC Rogers on 790504.

ROGERS, L.C. :Babcock & Wilcox Co.

DATE ISS:79/05/04, 43pp. ,48x:19356-179,ODI:GPU 6040 ,TN:GB09 9.1

8307070183 Partial deposition of EA Womack on 791015.

WOMACK, E.A. :Babcock & Wilcox Co.

DATE ISS:79/10/15, 46pp. ,48x:19357-069,ODI:GPU 6053 ,TN:GB09 9.1

8307070234 Partial transcript of IE TMI investigation interview of  
C Faust on 790421.

FAUST, C. :General Public Utilities - GPU Service Corp.

DATE ISS:79/04/21, 82pp. ,48x:19357-289,ODI:GPU 6059A ,TN:GB09 9.1

002519 RECORDS SCANNED 71 RECORDS PRINTED ( 2 RECORDS, 69 SUPP.)  
ENDING CODE= 186 LAST KEY= GPU 6060AA 830712092004

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CATEGORY 10  
TRIAL TESTIMONY



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U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8306290419 Transcript of 821101 trial between util & B&W in  
New York, NY, Pp 1-189.

\* :U.S. District Court, Southern District of New York  
:   
DATE ISS:82/11/01, 189pp. ,48x:19022-001,001: ,TN:GB10

BACKGROUND

8307260284 Testimony of HC Arnold on 821115 in New York, NY, Pp 1,455-  
1,534.

ARNOLD, H.C. :General Public Utilities - GPU Service Corp.  
:   
DATE ISS:82/11/15, 80pp. ,48x:19726-137,001: ,TN:GB10

10.6, 10.9

8306290445 Testimony of HC Arnold on 821116 in New York, NY, Pp  
1,535-1,1715.

ARNOLD, H.C. :General Public Utilities - GPU Service Corp.  
:   
DATE ISS:82/11/16, 180pp. ,48x:19026-089,001: ,TN:GB10

10.2, 10.3, 10.6, 10.9

8306290439 Testimony of HC Arnold on 821117 in New York, NY, Pp 1,716-  
1,792.

ARNOLD, H.C. :General Public Utilities - GPU Service Corp.  
:   
DATE ISS:82/11/17, 77pp. ,48x:19026-270,001: ,TN:GB10

10.5

8306290671 Testimony of DM Dunn on 830120 in New York, NY, Pp 7,289-  
7,424.

DUNN, D.M. :Duncock & Wilcox Co.  
:   
DATE ISS:83/01/20, 136pp. ,48x:19041-313,001: ,TN:GB10

IRRELEVANT

8306290502 Testimony of EK Frederick on 821207 in New York, NY, Pp 3,378-  
3,559.

FREDERICK, E.K. :General Public Utilities - GPU Service Corp.  
:   
DATE ISS:82/12/07, 181pp. ,48x:19031-004,001: ,TN:GB10

10.7

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U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8306290543 Testimony of ER Frederick on 821209 in New York, NY, Pp 3,734-3,906.

FREDERICK, E.R. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/12/09, 172pp. , 48x: 19031-361, ODI: , TN: GB10

10.7

1306290557 Testimony of ER Frederick on 821210 in New York, NY, Pp 3,907-3,989.

FREDERICK, E.R. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/12/10, 83pp. , 48x: 19032-173, ODI: , TN: GB10

10.1, 10.4.1

1306290560 Testimony of ER Frederick on 821213 in New York, NY, Pp 3,990-4085.

FREDERICK, E.R. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/12/13, 97pp. , 48x: 19032-257, ODI: , TN: GB10

IRRELEVANT

1506290440 Testimony of DF Hallman on 821115 in New York, NY, Pp 1,338-1395.

HALLMAN, D.F. : Spadcock & Wilcox Co.

DATE ISS: 82/11/15, 68pp. , 48x: 19025-254, ODI: , TN: GB10

IRRELEVANT

1307260362 Testimony of HW Hartman on 830118 in New York, NY, Pp 7,007-7,095.

HARTMAN, H.W. : Metropolitan Edison Co.

DATE ISS: 83/01/18, 89pp. , 48x: 19041-030, ODI: , TN: GB10

10.1, 10.9

1306290600 Testimony of JG Herbein on 830119 in New York, NY, Pp 7,124-7,156.

HERBEIN, J.G. : General Public Utilities - GPU Service Corp.

DATE ISS: 83/01/19, 62pp. , 48x: 19041-147, ODI: , TN: GB10

10.5

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U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8306290631 Testimony of JH Holderness on 830103 in New York, NY, Pp  
5,589-5,701.

HOLDERNESS, J.H.: EDS Nuclear, Inc.

DATE ISS: 05/01/03, 113pp., 48x:19037-054,001: , TN:GB10 10.7

8307260277 Testimony of DA Karrasch on 821115 in New York, NY, Pp 1,396-  
1,454.

KARRASCH, D.A.: Babcock & Wilcox Co.

DATE ISS: 02/11/05, 69pp., 48x:19025-312,001: , TN:GB10 IRRELEVANT

8306290422 Testimony of RT Lahey on 821102 in New York, NY, Pp 190-361.

LAHEY, R.T.: Rensselaer Polytechnic Inst.

DATE ISS: 02/11/02, 171pp., 48x:19022-191,001: , TN:GB10 IRRELEVANT

8306290587 Testimony of RT Lahey on 821220 in New York, NY,  
Pp 4,914-5,102.

LAHEY, R.T.: Rensselaer Polytechnic Inst.

DATE ISS: 02/12/20, 169pp., 48x:19035-101,001: , TN:GB10 IRRELEVANT

8306290589 Testimony of RT Lahey on 821221 in New York, NY, Pp 5,103-  
5,203.

LAHEY, R.T.: Rensselaer Polytechnic Inst.

DATE ISS: 02/12/21, 101pp., 48x:19035-290,001: , TN:GB10 IRRELEVANT

8306290591 Testimony of RT Lahey on 821222 in New York, NY, Pp 5,280-  
5,370.

LAHEY, R.T.: Rensselaer Polytechnic Inst.

DATE ISS: 02/12/22, 91pp., 48x:19036-105,001: , TN:GB10 IRRELEVANT

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U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

3306290638 Testimony of RJ Marzec on 830107 in New York, NY, Pp 6,233-  
6,359.

MARZEC, R.J. :Dukn Power Co.

DATE ISS:83/01/07, 127pp. ,48x:19038-337,001: ,TN:GB10

IRRELEVANT

3306290430 Testimony of JP O'Hanlon on 821110 in New York, NY,  
Pp 1,031-1,130.

O'HANLON, J.P. :Institute of Nuclear Power Operations

DATE ISS:82/11/10, 99pp. ,48x:19024-308,001: ,TN:GB10

10.6

3306290434 Testimony of JP O'Hanlon on 821111 in New York, NY, Pp 1,131-  
1,183.

O'HANLON, J.P. :Institute of Nuclear Power Operations

DATE ISS:82/11/11, 54pp. ,48x:19025-046,001: ,TN:GB10

10.6

3306290637 Testimony of R Sieglitz on 830104 in New York, NY, Pp 5,754-  
5911.

SIEGLITZ, R. :General Public Utilities - GPU Service Corp.

DATE ISS:83/01/04, 147pp. ,48x:19037-219,001: ,TN:GB10

10.4.2

3306290452 Testimony of WH Zewe on 821122 in New York, NY, Pp 2,138-  
2,311.

ZEW, W.H. :General Public Utilities - GPU Service Corp.

DATE ISS:82/11/22, 173pp. ,48x:19027-311,001: ,TN:GB10

10.4.1

3306290453 Testimony of WH Zewe on 821123 in New York, NY, Pp 2,312-  
2,574.

ZEW, W.H. :General Public Utilities - GPU Service Corp.

DATE ISS:82/11/23, 162pp. ,48x:19028-123,001: ,TN:GB10

10.4.1

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306290462 Testimony of Wm Zewe on 821124 in New York, NY, Pp 2,575-2,680.

ZEW, W.M. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/11/24, 105pp, 48x:19028-285, ODI: , TN:GB10 10.7

306290466 Testimony of Wm Zewe on 821129 in New York, NY, Pp 2,681-2,830.

ZEW, W.M. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/11/29, 149pp, 48x:19029-030, ODI: , TN:GB10 10.7

306290475 Testimony of Wm Zewe on 821130 in New York, NY, Pp 2,831-2,923.

ZEW, W.M. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/11/30, 92pp, 48x:19029-180, ODI: , TN:GB10 10.4.1

306290472 Testimony of Wm Zewe on 821202 in New York, NY, Pp 3,041-3,180.

ZEW, W.M. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/12/02, 140pp, 48x:19030-029, ODI: , TN:GB10 10.4.1

00234 RECORDS SCANNED 28 RECORDS PRINTED ( 1 RECORDS, 27 SUPP.)  
ENDING CODE= 186 LAST KEY= ZEW, W.M. 830711GB10

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CATEGORY 10

DEPOSITIONS



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U. S. NUCLEAR REGULATORY COMMISSION  
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307090323 Continued deposition of RC Arnold on 820630 in New York, NY,  
Pa 146 & 224-228.

ARNOLD, R.C. :General Public Utilities - GPU Service Corp.

DATE ISS:82/06/30, 7pp. ,48x:19487-342, OOI: ,TN:GB10

10.2, 10.4.1, 10.6, 10.8,  
10.9

307120726 Continued deposition of RC Arnold on 820701 in New York, NY,  
Pa 288-471.

ARNOLD, R.C. :General Public Utilities - GPU Service Corp.

DATE ISS:82/07/01, 184pp. ,48x:19465-070, OOI: ,TN:GB10

10.2, 10.4.2, 10.5

306290724 Deposition of HL Beers on 820707 in New York, NY, Pa 1-151.

BEERS, H.L. :General Public Utilities - GPU Service Corp.

DATE ISS:82/07/07, 151pp. ,48x:19057-138, OOI: ,TN:GB10

IRRELEVANT

306290728 Deposition of HL Beers on 820708 in New York, NY, Pa 152-308.

BEERS, H.L. :General Public Utilities - GPU Service Corp.

DATE ISS:82/07/08, 159pp. ,48x:19057-289, OOI: ,TN:GB10

10.5

306290865 Deposition of TG Broughton on 820202 in New York, NY, Pa  
1-154.

BROUGHTON, G. :General Public Utilities - GPU Service Corp.

DATE ISS:82/02/02, 154pp. ,48x:19059-140, OOI: ,TN:GB10

10.6, 10.8

306290850 Deposition of G Broughton on 820203 in New York, NY, Pa 155-  
295.

BROUGHTON, G. :General Public Utilities - GPU Service Corp.

DATE ISS:82/02/03, 140pp. ,48x:19061-001, OOI: ,TN:GB10

10.6



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U. S. NUCLEAR REGULATORY COMMISSION  
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306290879 Deposition of TG Droughton on 820205 in New York, NY.  
Pd 400-551.

DROUGHTON, T.G. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/02/05, 151pp., 48x: 19060-098, ODI: , TN: G810 10.2, 10.4.1

306290872 Deposition of TG Droughton on 820209 in New York, NY.  
Pd 553-714.

DROUGHTON, T.G. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/02/09, 163pp., 48x: 19059-293, ODI: , TN: G810 10.4.1

306290966 Deposition of LR Cartin on 820414 in New York, NY. Pd 114-214.

CARTIN, L.R. : Babcock & Wilcox Co.

DATE ISS: 82/04/14, 100pp., 48x: 19064-140, ODI: , TN: G810 IRRELEVANT

306290701 Deposition of CC Faust on 810821 in New York, NY. Pd 413-566.

FAUST, C.C. : Metropolitan Edison Co.

DATE ISS: 81/08/21, 153pp., 48x: 19073-275, ODI: , TN: G810 10.7

306290705 Deposition of CC Faust on 810925 in 810925. Pd 713-896.

FAUST, C.C. : Metropolitan Edison Co.

DATE ISS: 81/09/25, 185pp., 48x: 19074-212, ODI: , TN: G810 10.1

306290723 Deposition of JK Floyd on 820218 in New York, NY. Pd 1-159.

FLOYD, J.K. : Metropolitan Edison Co.

DATE ISS: 82/02/18, 159pp., 48x: 19076-082, ODI: , TN: G810 IRRELEVANT

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306290733 Deposition of JR Floyd on 820428 in New York, NY, Pd 294-422.

FLOYD, J.R. :Metropolitan Edison Co.  
:;  
DATE ISS:82/04/28, 128pp. ,48x:19077-014,ODI: ,TN:GB10 10.4.2

306290738 Deposition of JR Floyd on 820430 in New York, NY, Pd 529-626.

FLOYD, J.R. :Metropolitan Edison Co.  
:;  
DATE ISS:82/04/30, 97pp. ,48x:19077-250,ODI: ,TN:GB10 10.5

306290867 Deposition of HR Hartman on 820716 in Elizabethtown, PA.  
Pd 1-206.

HARTMAN, H.A. :General Public Utilities - GPU Service Corp.  
:;  
DATE ISS:82/07/16, 206pp. ,48x:19088-299,ODI: ,TN:GB10 10.1

306290873 Deposition of HR Hartman on 820818 in Elizabethtown, PA.  
Pd 207-291.

HARTMAN, H.A. :General Public Utilities - GPU Service Corp.  
:;  
DATE ISS:82/08/18, 85pp. ,48x:19089-142,ODI: ,TN:GB10 10.1

306290887 Deposition of JG Herbein on 820701 in New York, N.Y.  
Pd 185-294.

HERBEIN, J.G. :General Public Utilities - GPU Service Corp.  
:;  
DATE ISS:82/07/01, 110pp. ,48x:19090-051,ODI: ,TN:GB10 10.4.2, 10.9

306290892 Deposition of JG Herbein on 820702 in New York, N.Y.  
Pd 295-395.

HERBEIN, J.G. :General Public Utilities - GPU Service Corp.  
:;  
DATE ISS:82/07/02, 124pp. ,48x:19090-161,ODI: ,TN:GB10 10.5

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U. S. NUCLEAR REGULATORY COMMISSION  
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306290729 Deposition of TF Illjes on 820810 in New York, NY, Po 1-156.

ILLJES, T.F. : General Public Utilities - GPU Service Corp.  
: I  
DATE ISS: 82/08/10, 157pp. , 48x: 19091-092,001: , TN: G810 10.1, 10.4.1

306290983 Deposition of BA Karrasch on 810618 in New York, NY,  
Po 220-324.

KARRASCH, B.A. : Babcock & Wilcox Co.  
: I  
DATE ISS: 81/05/18, 104pp. , 48x: 19094-170,001: , TN: G810 IRRELEVANT

306290987 Deposition of BA Karrasch on 810619 in New York, NY,  
Po 325-398.

KARRASCH, B.A. : Babcock & Wilcox Co.  
: I  
DATE ISS: 81/06/19, 74pp. , 48x: 19094-276,001: , TN: G810 IRRELEVANT

306290990 Deposition of BA Karrasch on 810929 in New York, NY,  
Po 399-493.

KARRASCH, B.A. : Babcock & Wilcox Co.  
: I  
DATE ISS: 81/09/29, 104pp. , 48x: 19094-353,001: , TN: G810 IRRELEVANT

306290964 Deposition of RW Keaten on 820104 in New York, NY, Po 1-90.

KEATEN, R. : General Public Utilities - GPU Service Corp.  
: I  
DATE ISS: 82/01/04, 90pp. , 48x: 19095-187,001: , TN: G810 10.6

306290974 Deposition of RW Keaten on 820105 in New York, NY, Po 92-201.

KEATEN, R. : General Public Utilities - GPU Service Corp.  
: I  
DATE ISS: 82/01/05, 116pp. , 48x: 19095-277,001: , TN: G810 10.6

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U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

306290994 Deposition of R Keaten on 820107 in New York, NY.  
Pd 345-485.

KEATEN, R. : General Public Utilities - GPU Service Corp.  
: :  
DATE ISS: 82/01/07, 142pp. , 48x: 19096-175, 001: , TN: G810 10.2

306290907 Deposition of R Keaten on 820119 in New York, NY. Pd 628-764.  
Index of exhibits encl.

KEATEN, R. : General Public Utilities - GPU Service Corp.  
: :  
DATE ISS: 82/01/19, 137pp. , 48x: 19097-093, 001: , TN: G810 10.2, 10.4.1

306290913 Deposition of R Keaten on 820120 in New York, NY. Pd 765-904.  
Index of exhibits encl.

KEATEN, R. : General Public Utilities - GPU Service Corp.  
: :  
DATE ISS: 82/01/20, 140pp. , 48x: 19097-230, 001: , TN: G810 10.9

306290918 Deposition of R Keaten on 820121 in New York, NY. Pd 905-  
1,050. Index of exhibits encl.

KEATEN, R. : General Public Utilities - GPU Service Corp.  
: :  
DATE ISS: 82/01/21, 152pp. , 48x: 19098-009, 001: , TN: G810 10.4.1

306290805 Deposition of G Kunder on 820210 in New York, NY. Pd 1-83.

KUNDER, G. : General Public Utilities - GPU Service Corp.  
: :  
DATE ISS: 82/02/10, 83pp. , 48x: 19102-128, 001: , TN: G810 IRRELEVANT

306290809 Deposition of G Kunder on 820211 in New York, NY. Pd 84-184.

KUNDER, G. : General Public Utilities - GPU Service Corp.  
: :  
DATE ISS: 82/02/11, 102pp. , 48x: 19102-211, 001: , TN: G810 IRRELEVANT

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U. S. NUCLEAR REGULATORY COMMISSION  
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506290819 Deposition of G Kunder on 820701 in New York, NY, Pp 345-437.

KUNDER, G. : General Public Utilities - GPU Service Corp.  
: :  
DATE ISS: 82/07/01, 94pp. , 48x:19103-111,001: , TN:G810 IRRELEVANT

506290802 Deposition of G Kunder on 820702 in New York, NY, Pp 438-610.

KUNDER, G. : General Public Utilities - GPU Service Corp.  
: :  
DATE ISS: 82/07/02, 163pp. , 48x:19103-205,001: , TN:G810 IRRELEVANT

506290773 Deposition of RL Long on 820518 in New York, NY, Pp 1-176.

LONG, R.L. : General Public Utilities - GPU Service Corp.  
: :  
DATE ISS: 82/05/18, 170pp. , 48x:19696-069,001: , TN:G810 IRRELEVANT

506290779 Deposition of RL Long on 820519 in New York, NY, Pp 177-312.

LONG, R.L. : General Public Utilities - GPU Service Corp.  
: :  
DATE ISS: 82/05/19, 135pp. , 48x:19696-264,001: , TN:G810 10.2, 10.7

506290795 Deposition of JH MacMillan on 820609 in New York, NY, Pp 1-133.

MACMILLAN, J.H. : Spadcock & Wilcox Co.  
: :  
DATE ISS: 82/06/09, 133pp. , 48x:19129-053,001: , TN:G810 IRRELEVANT

506290800 Deposition of JH MacMillan on 820610 in New York, NY, Pp 134-324.

MACMILLAN, J.H. : Spadcock & Wilcox Co.  
: :  
DATE ISS: 82/06/10, 190pp. , 48x:19129-186,001: , TN:G810 IRRELEVANT

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U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

506290825 Deposition of SA Mehler on 810728 in New York, NY, Pp 1-172.

MEHLER, B.A. :Metropolitan Edison Co.  
: DATE ISS:81/07/28, 172pp. ,48x:19131-031,00I: ,TN:GB10 10.9

506290799 Deposition of SA Mehler on 810729 in New York, NY, Pp 174-363.

MEHLER, B.A. :Metropolitan Edison Co.  
: DATE ISS:81/07/29, 189pp. ,48x:19131-205,00I: ,TN:GB10 10.4.1

506290800 Deposition of SA Mehler on 810730 in New York, NY, Pp 364-679.

MEHLER, B.A. :Metropolitan Edison Co.  
: DATE ISS:81/07/30, 315pp. ,48x:19132-034,00I: ,TN:GB10 IRRELEVANT

507110121 Deposition of SA Mehler on 810731 in New York, NY, Pp 565-679.

MEHLER, B.A. :Metropolitan Edison Co.  
: DATE ISS:81/07/31, 115pp. ,48x:19488-271,00I: ,TN:GB10 10.1

506290885 Deposition of RC Hall on 820714 in New York, NY, Pp 1-138.

HALL, R.C. :Metropolitan Edison Co.  
: DATE ISS:82/07/14, 138pp. ,48x:19137-310,00I: ,TN:GB10 10.4.2

506290902 Deposition of F Scheimann on 820223 in New York, NY, Pp 1-156.

SCHEIMANN, F. :General Public Utilities - GPU Service Corp.  
: DATE ISS:82/02/23, 157pp. ,48x:19143-235,00I: ,TN:GB10 IRRELEVANT

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NRC SPECIAL REPORT

506290942 Deposition of FJ Scheimann on 820225 in New York, NY, Pp 157-287.

SCHEIMANN, F. J. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/02/25, 131pp., 48x: 19144-030, ODI: , TN: GB10

IRRELEVANT

506300009 Deposition of JL Seelinger on 811019 in Palm Beach, FL, Pp 1-101.

SEELINGER, J. L. : United Technologies Corp.

DATE ISS: 81/10/19, 101pp., 48x: 19146-316, ODI: , TN: GB10

IRRELEVANT

506290937 Deposition of JL Seelinger on 811022 in Palm Beach, FL, Pp 414-539.

SEELINGER, J. L. : United Technologies Corp.

DATE ISS: 81/10/22, 126pp., 48x: 19148-003, ODI: , TN: GB10

10.1

506290839 Deposition of U Shovlin on 820716 in New York, NY, Pp 1-204.

SHOVLIN, U. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/07/16, 204pp., 48x: 19148-347, ODI: , TN: GB10

10.4.1

506290759 Deposition of JF Wilson on 810721 in New York, NY, Pp 1-145.

WILSON, J. F. : General Public Utilities - GPU Service Corp.

DATE ISS: 81/07/21, 152pp., 48x: 19160-103, ODI: , TN: GB10

IRRELEVANT

506290781 Deposition of Hx Zechman on 820311 in New York, NY, Pp 157-272.

ZECHMAN, H. X. : General Public Utilities - GPU Service Corp.

DATE ISS: 82/03/11, 115pp., 48x: 19163-280, ODI: , TN: GB10

10.3



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U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

06290749 Deposition of R. W. Zechman on 820326 in New York, NY, Pp 642-728.

ZECHEMAN, R. W. : General Public Utilities - GPU Service Corp.  
DATE ISS: 82/03/26, 86pp., 48x: 19165-042, OOI: , TN: G810 10.5

06290766 Deposition of W. H. Zewe on 820521 in New York, NY, Pp 122-248.

ZEW, W. H. : General Public Utilities - GPU Service Corp.  
DATE ISS: 82/05/21, 126pp., 48x: 19166-078, OOI: , TN: G810 10.4.1

06290770 Deposition of W. H. Zewe on 820524 in New York, NY, Pp 249-350.

ZEW, W. H. : General Public Utilities - GPU Service Corp.  
DATE ISS: 82/05/24, 101pp., 48x: 19166-207, OOI: , TN: G810 10.4.2

06290746 Deposition of W. H. Zewe on 820525 in New York, NY, Pp 351-479.

ZEW, W. H. : General Public Utilities - GPU Service Corp.  
DATE ISS: 82/05/25, 128pp., 48x: 19166-310, OOI: , TN: G810 10.4.2

BT OF SEQUENCE

17110145 Deposition of R. C. Arnold on 820629 in New York, NY, Pp 1-287.

ARNOLD, R. C. : General Public Utilities - GPU Service Corp.  
DATE ISS: 82/06/29, 289pp., 48x: 19489-024, OOI: , TN: G810 10.4.2

1239 RECORDS SEARCHED 52 RECORDS PRINTED ( 5 RECORDS, 47 SUPP.)  
ENDING CODE= 186 LAST KEY= ZEW, W. H. 830711G810

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CATEGORY 10

EXHIBITS

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U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

07020022 Discusses incorporation of Unit 1 & other operating experience into Unit 2 training effort.

SEELINGER, J. :Metropolitan Edison Co.  
TSAGGARIS, L. :Metropolitan Edison Co.  
DATE ISS:77/04/06, 1p. ,46x:19208-296, UOI:8&W 0072 ,TN:GB10 10.6

07020025 Advises that min 1 h training program being prepared to cover industry experience, Unit 1 experience & RUs from similar units, per J Seelinger 770406 request.

GOODMAN, D. A. :Metropolitan Edison Co.  
TSAGGARIS, A. :Metropolitan Edison Co.  
DATE ISS:77/04/12, 1p. ,46x:19208-297, UOI:8&W 0073 ,TN:GB10 10.6

07110011 Forwards response to action item re changes which should be made for acquisition & use of info about incidents at other plants as means to forecast & avoid radiation safety problems at TMI.

LANTER, L. L. :Metropolitan Edison Co.  
:Metropolitan Edison Co.  
DATE ISS:78/06/15, 3pp. ,46x:19476-360, UOI:8&W 0074 ,TN:GB10 10.6

07110018 TMI startup problem re condensate sys. Based on loss of feedwater occurrence, burns & Koe should reevaluate control of CUV12.

\* :Metropolitan Edison Co.  
:Metropolitan Edison Co.  
DATE ISS:77/11/17, 5pp. ,46x:19477-015, UOI:8&W 0165 ,TN:GB10 10.9

07110022 Discusses water in svc air & instrument air.

ZEWI, R. H. :Metropolitan Edison Co.  
SEELINGER, J. :Metropolitan Edison Co.  
DATE ISS:78/05/15, 5pp. ,46x:19477-020, UOI:8&W 0166 ,TN:GB10 10.9

07110032 Forwards correspondence from Zewi re water in instrument air, w/o encl.

SEELINGER, J. :Metropolitan Edison Co.  
GRUMBER, J. :Metropolitan Edison Co.  
DATE ISS:78/05/16, 1p. ,46x:19477-025, UOI:8&W 0167 ,TN:GB10 10.9

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U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

07050350 LER 78-021/03L-0: on 780329, while operating in Mode 2, 120-volt ac vital bus 2-1V became deenergized. Caused by SFAS testing tripping 480-volt alternate source feeder breaker. Power restored by manually closing alternate source feeder.  
MILLER, G.P. : General Public Utilities - GPU Service Corp.  
DATE ISS: 78/04/12, 2pp., 48x:19323-075, OOI: B&W 0180, TN: GB10 10.6

07110036 Forwards LER 78-021/03L-0.  
SEELINGER, J.L. : Metropolitan Edison Co.  
THOFFER, G.J. : Metropolitan Edison Co.  
DATE ISS: 78/04/14, 4pp., 48x:19477-045, OOI: B&W 0181, TN: GB10 10.6

07110041 Forwards Unit 2 plant operations review committee input for special rept required by Tech Spec 3.5.2 for ECCS actuation that occurred on 780329.  
SEELINGER, J.L. : Metropolitan Edison Co.  
THOFFER, G.J. : Metropolitan Edison Co.  
DATE ISS: 78/06/12, 5pp., 48x:19477-040, OOI: B&W 0184, TN: GB10 10.6

07110046 "FMI-2 transient on 780423: Task Force Rept."  
\* : General Public Utilities - GPU Service Corp.  
DATE ISS: 78/08/10, 170pp., 48x:19477-049, OOI: B&W 0186, TN: GB10 10.6, 10.8

07050418 "GPU Startup Problem Rept."  
\* : Babcock & Wilcox Co.  
DATE ISS: 78/03/30, 8pp., 48x:19323-291, OOI: B&W 0189, TN: Gd10 10.4.2

07050439 Forwards LER 78-065/99x-0.  
BERGEIN, J.G. : General Public Utilities - GPU Service Corp.  
WILKINSON, J.M. : Region 1, Philadelphia, Office of the Director  
DATE ISS: 79/01/30, 1p., 48x:19324-003, OOI: B&W 0193, TN: Gd10 10.3

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U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

07050446 LER 78-065/99X-0: on 781107, reduction in feedwater flow led to reactor trip. Caused by elevated RCS temp due to physics testing.

STAIR, J. P. : General Public Utilities - GPU Service Corp.

DATE ISS: 79/01/30, 3pp, , 48X: 19324-004, ODI: B&W 0193 , TN: G810

10.6

07050480 IMI-1 organization chart.

\* : General Public Utilities - GPU Service Corp.

DATE ISS: 80/01/30, 1p, , 48X: 19324-013, ODI: B&W 0203 , TN: G810

IRRELEVANT

07070294 Draft ltr to B&W authorizing entry upon util property to perform Task V portion of PWR radiation control & study on Unit 1.

WILSON, J. F. : Metropolitan Edison Co.

JAVIS, J. F. : Babcock & Wilcox Co.

DATE ISS: 78/02/28, 6pp, , 48X: 19325-338, ODI: B&W 0218 , TN: G810

IRRELEVANT

07070298 Forwards, for execution, proposed Ltr of Content representing mod of 78022d draft. Draft should be returned for presentment to mat for execution.

WILSON, J. F. : Metropolitan Edison Co.

MULLIN, J. G. : Babcock & Wilcox Co.

DATE ISS: 78/03/20, 1p, , 48X: 19325-344, ODI: B&W 0219 , TN: G810

IRRELEVANT

07070302 Comments on 79022d draft. W/ stated changes, B&W can sign agreement.

MULLIN, J. G. : Babcock & Wilcox Co.

WILSON, J. P. : Metropolitan Edison Co.

DATE ISS: 78/03/06, 1p, , 48X: 19325-345, ODI: B&W 0220 , TN: G810

IRRELEVANT

07070306 Ack receipt of 770106 ltr re "Radiation Control in Primary Loop of PWR Plants." Proposed alternative agreement re conduct of subj study encl.

JONES, J. P. : Babcock & Wilcox Co.

ARNOLD, R. C. : Metropolitan Edison Co.

DATE ISS: 77/02/25, 6pp, , 48X: 19325-239, ODI: B&W 0221 , TN: G810

IRRELEVANT

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U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

07210355 Provides formal authorization to enter property to perform Task V portion of PWR radiation control study in response to 761201 ltr, contingent upon listed conditions.

ARNOLD, R.C. :Metropolitan Edison Co.  
JANIS, J.T. :Babcock & Wilcox Co.  
DATE ISS: 81/07/21, 3pp. , 48x: 19694-314, OOI: B&W 0222 , TN: GB10

IRRELEVANT

07070310 "Proposal for Supply of Long-Term Contract for TMI Nuclear Station Operator Training."

\* :Babcock & Wilcox Co.  
DATE ISS: 74/10/23, 14pp. , 48x: 19325-247, OOI: B&W 0223 , TN: GB10

IRRELEVANT

07070320 Proposes long-term training svc contract for continued support of training program, Proposal A4-61 Rev C encl.

HELLER, F.C. :Babcock & Wilcox Co.  
GUERIN, J.E. :Metropolitan Edison Co.  
DATE ISS: 75/03/07, 17pp. , 48x: 19325-348, OOI: B&W 0226 , TN: GB10

IRRELEVANT

07070324 Recommends prompt action in approving d&w simulator training Contract Proposal A4-61 Rev d.

HETRICK, D.E. :General Public Utilities - GPU Service Corp.  
ARNOLD, R.C. :General Public Utilities - GPU Service Corp.  
DATE ISS: 75/02/28, 2pp. , 48x: 19326-003, OOI: B&W 0227 , TN: GB10

IRRELEVANT

07070329 Submits questions re proposed training contract.

\* :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS: 81/07/21, 2pp. , 48x: 19326-005, OOI: B&W 0228 , TN: GB10

IRRELEVANT

07070333 Comments on proposed training svc contract.

HETRICK :Metropolitan Edison Co.  
:Metropolitan Edison Co.  
DATE ISS: 81/07/21, 11pp. , 48x: 19326-007, OOI: B&W 0229 , TN: GB10

IRRELEVANT

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U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

07020070 "Proposal for Long-term Contract for TMI Nuclear Station  
Units 1 & 2 Operator Training."

\* Babcock & Wilcox Co.

DATE ISS:75/02/24, 32pp., 48x119243-079,001:B&W 0230 ,TN:GB10

IRRELEVANT

07020098 Transcript of 790510 interview w/d Mohler.

\* Mohler, D. :General Public Utilities - GPU Service Corp.

DATE ISS:79/05/10, 45pp., 48x119246-004,001:B&W 0239 ,TN:GB10

IRRELEVANT

07020104 Expresses desire that corrective action be completed on  
listed major equipment problems prior to restart of test  
program & power operation.

\* Ward, E.G. :Babcock & Wilcox Co.

\* Martin, J.J. :General Public Utilities - GPU Service Corp.

DATE ISS:78/05/02, 1p., 48x119246-078,001:B&W 0243 ,TN:GB10

10.4.1

07020108 Forwards summary of LER 78-022/99x on 780329.

\* Mohler, D.H. :General Public Utilities - GPU Service Corp.

\* Mohler, D.H. :Region 1, Philadelphia, Office of the Director

DATE ISS:81/07/30, 10pp., 48x119246-057,001:B&W 0245 ,TN:GB10

10.4.2

07050287 Forwards IE Insp Rept 50-346/78-06 on 771206-08 & 780306-08.  
Effective presentation of info re transients at other plants  
suggested to enhance nuclear industry communications.

\* Arnold, H.C. :General Public Utilities - GPU Service Corp.

\* Emery, J.G. :President's Commission on the Accident at Three Mile Island

DATE ISS:79/08/30, 5pp., 48x119320-018,001:B&W 0247 ,TN:G010

10.6

07120625 Tech Specs Pages 3/4 4-13, 3/4 4-14, 3/4 4-15 & 3/4 4-16 re  
HCS leakage.

\* Metropolitan Edison Co.

DATE ISS:78/05/04, 5pp., 48x119501-356,001:B&W 0251 ,TN:GB10

10.1



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U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

07120028 Rev 3 to "Unit 2 Surveillance Procedure 2301-301, RCS Inventory."

\* :Metropolitan Edison Co.  
:1  
DATE ISS:79/02/05, 33pp. ,48x:19502-001,001:B&W 0252 ,TN:G810 10.1

07050291 Temporary Change Notice 2-79-070 for Procedure 2301-301, "RCS Inventory."

\* :General Public Utilities - GPU Service Corp.  
:1  
DATE ISS:79/03/11, 5pp. ,48x:19327-129,001:B&W 0255 ,TN:G810 10.1

07050320 Suggests areas in which evaluation of 790423 incident could be more accurate & complete. Concentration suggested in areas of malfunctioning safeties, flow testing of Mu-v-ies & poorly-designed alarm sys.

FREDERICK, E. :General Public Utilities - GPU Service Corp.  
:1  
:Bacock & Wilcox Co.  
DATE ISS:78/05/03, 5pp. ,48x:19327-131,001:B&W 0264 ,TN:G810 10.6, 10.4.2

07030520 Preliminary inquiry of TMI incident of 790328.

ZARE, H. H. :General Public Utilities - GPU Service Corp.  
:1  
DATE ISS:79/04/03, 50pp. ,48x:19327-282,001:B&W 0271 ,TN:G810 10.7

07080179 "Reactor Coolant Leakage Test."

\* :Metropolitan Edison Co.  
:1  
DATE ISS:78/10/18, 8pp. ,48x:19332-006,001:B&W 0299 ,TN:G810 10.1

07120096 Rev 3 to "Unit 2 Emergency Procedure 2202-1.5, Pressurizer Sys Failure."

\* :Metropolitan Edison Co.  
:1  
DATE ISS:78/09/29, 12pp. ,48x:19502-218,001:B&W 0305 ,TN:G810 10.4.1

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U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

07070312 Resume of Rn Keaten.

KEATEN, R.W. :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:02/01/04, 4pp. ,48x:19319-303, OOI:B&W 0336 ,TN:GB10 IRRELEVANT

07070318 Operational log. Summary of notes for 780419-0901.

KEATEN, R.W. :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:78/09/01, 53pp. ,48x:19319-167, OOI:B&W 0337 ,TN:GB10 10.4.1, 10.6

07070331 Discusses TMI-2 incident on 790329.

\* :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:02/01/07, 2pp. ,48x:19320-026, OOI:B&W 0338 ,TN:GB10 10.2

07070338 Forwards specific action plan developed by investigative task force, in response to seven items of investigation in 790702 memo. Encl plan, if approved, will be used as basis for 790801 review of investigation.

KEATEN, R.W. :General Public Utilities - GPU Service Corp.  
ARNOLD, R.C. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/07/20, 12pp. ,48x:19320-067, OOI:B&W 0340 ,TN:GB10 10.2

07070342 Rev 0 to "Accident Transient Modeling Analysis," technical data rept.

KEATEN, R.W. :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:74/05/10, 50pp. ,48x:19320-079, OOI:B&W 0341 ,TN:GB10 10.2

07070300 Forwards draft rept on polishing/condensate/air sys for investigative task force. Rev to draft, for consistency w/ forthcoming master task force rept, requested. n/o encl.

LUCIEN, K. :Energy Incorporated  
:Energy Incorporated  
DATE ISS:02/01/07, 1p. ,48x:19321-013, OOI:B&W 0344 ,TN:GB10 10.2, 10.9

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U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

07070374 Discusses addl questions to be addressed by investigative task force, including feedwater/condensate sys, emergency plan & possibility of water hammer.

KEATEN, R.W. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:79/08/03, 1p. ,48x:19321-014,001:8&W 0345 ,TN:GB10 10.2

07070390 Forwards first draft "GPU Task Force Interim Summary Rept," Comments requested by 791005.

KEATEN, R.W. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:79/09/28, 1p. ,48x:19321-249,001:8&W 0347 ,TN:GB10 10.2, 10.4.1

08230570 Transcript of IMI Investigative Task Force Taped Interview 1 (Keaten Tapes) on 790824, Pp 1-44.

\* :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:79/08/24, 45pp. ,48x:20125-073,001:8&W 0347A ,TN:GB10 10.4.1, 10.9

08230580 Transcript of IMI Investigative Task Force Taped Interview 3 (Keaten Tapes) on 790824, Pp 1-40.

\* :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:79/08/24, 41pp. ,48x:20125-157,001:8&W 0347C ,TN:GB10 10.4.1

08230585 Transcript of IMI Investigative Task Force Taped Interview 4 (Keaten Tapes) on 790824, Pp 1-45.

\* :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:79/08/24, 46pp. ,48x:20125-198,001:8&W 0347D ,TN:GB10 10.4.1

08230597 Transcript of IMI Investigative Task Force Taped Interview 5 (Keaten Tapes) on 790919, Pp 1-61.

\* :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:79/09/19, 62pp. ,48x:20125-244,001:8&W 0347E ,TN:GB10 10.2, 10.4.1, 10.8

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U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

08230006 Transcript of TMI Investigative Task Force Taped Interview 7  
(Keaten Tapes) on 790919, Pa 1-63.

\* :General Public utilities = GPU Service Corp.  
: :  
DATE ISS:79/09/19, 64pp. ,48x:20126-007,00I:B&W 0347G ,TN:G610 10.2, 10.7

08230009 Transcript of TMI Investigative Task Force Taped Interview 8  
(Keaten Tapes) on 790919, Pa 1-64.

\* :General Public utilities = GPU Service Corp.  
: :  
DATE ISS:79/09/19, 65pp. ,48x:20126-073,00I:B&W 0347H ,TN:G810 10.2, 10.9

08230012 Transcript of TMI Investigative Task Force Taped Interview 9  
(Keaten Tapes) on 790919, Pa 1-30.

\* :General Public Utilities = GPU Service Corp.  
: :  
DATE ISS:79/09/19, 31pp. ,48x:20126-138,00I:B&W 0347I ,TN:G810 10.2, 10.9

08230023 Transcript of TMI Investigative Task Force Taped Interview  
12 (Keaten Tapes) on 790920, Pa 1-59.

\* :General Public utilities = GPU Service Corp.  
: :  
DATE ISS:79/09/20, 60pp. ,48x:20126-301,00I:B&W 0347L ,TN:G810 10.8

08230026 Transcript of TMI Investigative Task Force Taped Interview  
13 (Keaten Tapes) on 790924, Pa 1-26.

\* :General Public utilities = GPU Service Corp.  
: :  
DATE ISS:79/09/24, 27pp. ,48x:20126-359,00I:B&W 0347M ,TN:G810 10.2, 10.9, 10.8

08230030 Transcript of TMI Investigative Task Force Taped Interview  
14 (Keaten Tapes) on 791018, Pa 1-34.

\* :General Public utilities = GPU Service Corp.  
: :  
DATE ISS:79/10/18, 35pp. ,48x:20127-024,00I:B&W 0347N ,TN:G810 10.2, 10.4.1, 10.9

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NRC SPECIAL REPORT

06230636 Transcript of TMI Investigative Task Force Taped Interview  
15 (Heaten Tapes) on 791016, Pa 1-26.

KEATEL, H.A. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/10/16, 27pp., 46x120127-059,001:8&# 13470 ,TNI:G810 10.2, 10.4.1, 10.9

07070412 Excerpt from speech entitled "Analysis of TMI-2 Sequence  
of Events & Operator Response," presented on 791112.

KEATEL, H.A. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/11/12, 10pp., 46x119321-362,001:8&# 0348 ,TNI:G810 10.4.1

07070438 second draft "GPU Task Force Interim Summary Rept."

KEATEL, H.A. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/10/06, 57pp., 46x119322-016,001:8&# 0349 ,TNI:G810 10.2, 10.4.1

07080673 Forwards "GPU Task Force Interim Summary Rept," third draft  
re TMI-2 accident on 790326.

KEATEL, H.A. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/10/17, 10., 46x119402-161,001:8&# 0350 ,TNI:G810 10.2, 10.4.1

07080681 Forwards "GPU Task Force Interim Summary Rept" re findings &  
conclusions to date & presenting preliminary recommendations  
re TMI-2 accident on 790326.

KEATEL, H.A. :General Public Utilities - GPU Service Corp.  
HECKAMP, H.M. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/10/29, 10., 46x119402-339,001:8&# 0351 ,TNI:G810 10.2, 10.4.1

07080688 "GPU accident Review Task Force Interim Summary Rept."

KEATEL, H.A. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/11/28, 41pp., 46x119403-019,001:8&# 0352 ,TNI:G810 10.2, 10.4.1

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U. S. NUCLEAR REGULATORY COMMISSION  
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07080691 Lists items which must be accomplished to complete GPU/Met  
ed review of IMI-2 accident & underlying causes.

KEATEN, R.W. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:79/12/03, 6pp. ,48x:19403-061,001:8&W 0353 ,TN:G810 10.2

07080693 "GPU Accident Review Task Force Final Summary Rept."

\* :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:80/03/24, 41pp. ,48x:19403-068,001:8&W 0354 ,TN:G810 10.2, 10.4.1

07080695 "GPU Accident Review Task Force Final Summary Rept."

\* :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:80/05/12, 50pp. ,48x:19403-112,001:8&W 0355 ,TN:G810 10.2, 10.4.1

07080698 "GPU Accident Review Task Force Final Summary Rept."

KEATEN, R.W. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:80/12/15, 49pp. ,48x:19403-161,001:8&W 0356 ,TN:G810 10.2, 10.4.1, 10.9

07080699 Forwards marked-up task force rept indicating significant  
differences from interim rept, w/o encl.

KEATEN, R.W. :General Public Utilities - GPU Service Corp.  
DIECKAMP, R.A. :General Public Utilities - GPU Service Corp.  
DATE ISS:80/09/02, 1p. ,48x:19404-017,001:8&W 0357 ,TN:G810 10.2

07080726 Summary of 800120 telcon w/J dirt re solenoids on condensate  
polisher valves. Valves either wired improperly or  
disconnected & could not perform design function.

\* :General Public Utilities - GPU Service Corp.  
KEATEN, R. :General Public Utilities - GPU Service Corp.  
DATE ISS:80/01/31, 1p. ,48x:19405-090,001:8&W 0368 ,TN:G810 10.9

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U. S. NUCLEAR REGULATORY COMMISSION  
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07080727 Summary of 790813 interview w/RCA.

\* :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:79/08/15, 1p. ,48x:19405-091,ODI:B&W 0369 ,TN:G810 10.4.2

07080055 Forwards draft TMI-111, "Analysis of TMI-2 Operator Response."

WALSH, P.S. :General Public Utilities - GPU Service Corp.  
ARNOLD, R.C. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/07/18, 1p. ,48x:19333-139,ODI:B&W 0374 ,TN:G810 10.2, 10.4.1

07080064 Procedure 054 "Analysis of TMI-2 Operator Response."

WALSH, P.S. :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:79/10/19, 43pp. ,48x:19334-005,ODI:B&W 0377 ,TN:G810 10.2

07080103 Telcon w/Fred to discuss facility cooldowns. Caused by electromagnetic relief valve stuck open.

PUTTS, W.E. :Metropolitan Edison Co.  
:Toledo Edison Co.  
DATE ISS:78/11/08, 1p. ,48x:19334-129,ODI:B&W 0384 ,TN:G810 10.6

07080212 Marked-up Procedure TMI-111 "Analysis of TMI-2 Operator Response."

WALSH, P.S. :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:83/07/07, 44pp. ,48x:19335-131,ODI:B&W 0397 ,TN:G810 10.2

07080227 Forwards first draft "Interim Summary Rept."

HEATER, R.W. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:79/09/28, 1p. ,48x:19335-127,ODI:B&W 0400 ,TN:G810 10.2



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U. S. NUCLEAR REGULATORY COMMISSION  
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07080241 Second draft of GPU Task Force "Interim Summary Rept."

KEATEN, R.W. :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:79/10/06, 66pp. ,48x:19335-190,001:B&W 0402 ,TN:G810 10.2

07080244 Forwards third draft for "Interim Summary Rept."

KEATEN, R.W. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:79/10/17, 1p. ,48x:19336-118,001:B&W 0403 ,TN:G810 10.2

07080641 Preliminary Operational log. "Annotated Sequence of Events,  
List of Figures."

\* :Dacocock & Wilcox Co.  
: :  
DATE ISS:82/02/09, 34pp. ,48x:19336-136,001:B&W 0404 ,TN:G810 10.7

07080626 Forwards synopsis of events re 781107 reactor trip during  
power runback from 92% rated thermal power.

HILBISH, J.F. :Metropolitan Edison Co.  
MILLER, G.P. :General Public Utilities - GPU Service Corp.  
DATE ISS:78/11/16, 47pp. ,48x:19393-139,001:B&W 0420 ,TN:G810 10.6

07080630 Deposition of G Kunder on 790918 in Middletown, PA, Pp 1-119.

KUNDER, G.A. :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:79/09/18, 296pp. ,48x:19393-130,001:B&W 0421 ,TN:G810 10.4.2

07080635 Marked-up, incomplete deposition of R Keater, G Kunder,  
L Tsouderis & E Wallace.

KEATER, R. :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:82/02/12, 50pp. ,48x:19394-179,001:B&W 0425 ,TN:G810 10.8

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U. S. NUCLEAR REGULATORY COMMISSION  
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07110704 Discusses two possible causes of failure of electromagnetic relief valve, including distortion of solenoid coil & distortion of valve due to stresses caused by differential thermal movement between valve & discharge piping.  
\* :General Public utilities = GPU Service Corp.  
:General Public utilities = GPU Service Corp.  
DATE ISS:82/02/10, 2pp. ,48x:19441-015, OOI:8&W 0443 ,TN:GB10 10.4.1

07110687 Resume of JR Floyd.

FLOYD, J.R. :Metropolitan Edison Co.  
: :  
DATE ISS:82/02/18, 1p. ,48x:19442-092, OOI:8&W 0460 ,TN:GB10 IRRELEVANT

07110690 Discusses reactor operator training at B&W in Lynchburgh, VA.

\* :General Public utilities = GPU Service Corp.  
HERDEIN :General Public utilities = GPU Service Corp.  
DATE ISS:76/06/24, 3pp. ,48x:19442-093, OOI:8&W 0461 ,TN:GB10 IRRELEVANT

07120795 Summarizes results of 770714 oral exams for Unit 2 licensing candidates.

TSAGGARIS, A. :Metropolitan Edison Co.  
LAWREN, L.L. :Metropolitan Edison Co.  
DATE ISS:77/07/18, 5pp. ,48x:19502-327, OOI:8&W 0463 ,TN:GB10 IRRELEVANT

07080762 Discusses E. Frederick survey of IMI-2 requalification program for 791105-1214. Attendance poor. Support of senior operations personnel lacking.

ZECHMAN, R.A. :Metropolitan Edison Co.  
LAWREN, L.L. :Metropolitan Edison Co.  
DATE ISS:79/12/20, 2pp. ,48x:19418-144, OOI:8&W 0563 ,TN:GB10 10.3

07080764 Forwards JL book 770617 ltr re operator training. Training should be conducted in prof manner. Criticisms should be considered.

J. HANLON, J.P. :Metropolitan Edison Co.  
MILLER, G.P. :Metropolitan Edison Co.  
DATE ISS:77/06/18, 8pp. ,48x:19418-146, OOI:8&W 0564 ,TN:GB10 10.3

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U. S. NUCLEAR REGULATORY COMMISSION  
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07080766 Submits concerns & suggestions for reorganization of operator training dept personnel.

ZECHMAN, R.W. :Metropolitan Edison Co.  
LAWYER L.L. :Metropolitan Edison Co.  
DATE ISS:79/09/17, 8pp. ,48x:19418-154,00I:8&W 0565 ,TN:GB10 10.3

07080768 Discusses training dept organization/staffing. Logical assignment between functional groups should be stressed & operator training section staff should be increased.

MCCORMICK, F.A. :Metropolitan Edison Co.  
ZECHMAN, R.W. :Metropolitan Edison Co.  
DATE ISS:79/09/03, 8pp. ,48x:19418-160,00I:8&W 0566 ,TN:GB10 10.3

070901a3 Testimony of E Frederick re accident at TMI-2.

FREDERICK, E. :Metropolitan Edison Co.  
DATE ISS:79/05/10, 79pp. ,48x:19398-037,00I:8&W 0654 ,TN:GB10 10.4.1

07090203 Interview w/E Frederick, control room operator at TMI-2 on 790330.

FREDERICK, E. :Metropolitan Edison Co.  
DATE ISS:79/03/30, 12pp. ,48x:19399-002,00I:8&W 0661 ,TN:GB10 10.4.1

07090219 Incomplete resume.

\* :General Public Utilities - GPU Service Corp.  
DATE ISS:82/05/1a, 1p. ,48x:19399-122,00I:8&W 0668 ,TN:GB10 IRRELEVANT

07090221 Organizational chart for GPU Svc Corp, Generation Div 30.

\* :General Public Utilities - GPU Service Corp.  
DATE ISS:79/04/01, 1p. ,48x:19399-123,00I:8&W 0669 ,TN:GB10 IRRELEVANT

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07090234 Organizational chart of GPU Nuclear Assurance Div.

\* :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:80/11/10, 2pp. ,48x:19399-124,ODI:B&W 0670 ,TN:G810 IRRELEVANT

07110724 Requests formation of fire member task force to complete investigation of encl seven specific issues re 790328 incident.

ARNOLD,R.C. :General Public Utilities - GPU Service Corp.  
KEATER,R.W. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/06/27, 5pp. ,48x:19445-169,ODI:B&W 0694 ,TN:G810 10.2

07110728 Summary of 790627 meeting of T-1-2 Accident Review Task Force.

KEATER,R. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:79/06/27, 1p. ,48x:19445-174,ODI:B&W 0695 ,TN:G810 10.2

07110735 Submits tasks & subtasks for task teams.

\* :Dabcock & Wilcox Co.  
:Dabcock & Wilcox Co.  
DATE ISS:79/07/09, 10pp. ,48x:19445-180,ODI:B&W 0698 ,TN:G810 10.7

07110748 "GPU Task Force Interim Summary Rept," second draft.

KEATER,R.W. :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:79/10/06, 68pp. ,48x:19446-122,ODI:B&W 0701 ,TN:G810 10.2

07090353 Forwards response to 791025 notice of violation & notice of proposed issuance of civil penalties based on IE investigation of 790328 accident.

ARNOLD,R.C. :Metropolitan Edison Co.  
STELLU,V. :Office of Inspection & Enforcement, Office of the Director  
DATE ISS:79/12/05, 97pp. ,48x:19492-019,ODI:B&W 0707 ,TN:G810 10.4.1, 10.8

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07120285 Transcript of w Zewe on 791115 in Harrisburg, PA before US Senate Subcommittee on Nuclear Regulation of Committee on Environ & Public works. Pp 1-40.

ZEW, W. :Metropolitan Edison Co.

JATE ISS:79/11/15, 44pp. ,48x:19455-227,00I:B&W 0740 ,TN:GB10 10.4.1

07120341 Transcript of interview w/w Zewe.

ZEW, W. :Metropolitan Edison Co.

JATE ISS:82/05/28, 16pp. ,48x:19456-1\*7,00I:B&W 0761 ,TN:GD10 10.4.1

07130326 Requests approval of encl Change Mod 2-0298, to connecting open light for Unit 2 RCS RC-RV2 to limit switch.

SHUVLIN, D.M. :Metropolitan Edison Co.

KLINGAMAN, R.M. :Metropolitan Edison Co.

JATE ISS:79/01/30, 17pp. ,48x:19501-001,00I:B&W 0767 ,TN:GB10 10.4.2

07120684 Commitment info for Unit 2 FSAR.

\* :Metropolitan Edison Co.

JATE ISS:75/10/31, 2pp. ,48x:19457-067,00I:B&W 0778 ,TN:GB10 10.6

07130336 Discusses problems w/operator licensing exams of ltr-designated Individual vV.

\* :Baocock & Wilcox Co.

:Baocock & Wilcox Co.

JATE ISS:81/12/09, 2pp. ,48x:19501-055,00I:B&W 0796 ,TN:GB10 10.5

07090165 Resume of RC Arnold.

ARNOLD, R.C. :Metropolitan Edison Co.

JATE ISS:82/06/29, 2pp. ,48x:19454-058,00I:B&W 0831 ,TN:GB10 IRRELEVANT

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U. S. NUCLEAR REGULATORY COMMISSION  
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07130376 Ack receipt of 791205 ltr in response to NRC 791025 ltr transmitting notice of violation & proposed imposition of civil penalties in amount of \$155,000 re inoperability of flow paths to steam generator.  
STELLO, V. : Director's Office, Office of Inspection and Enforcement  
ARNOLD, R.C. : Metropolitan Edison Co.  
DATE ISS: 80/01/23, 35pp. , 48x:19501-066, OOI: B&W 0833 , TN: GB10 10.8

07090170 Comments on 781120 memo re several items concerning 781107 event for consideration. No add actions identified prior to resumption of power.  
ARNOLD, R.C. : General Public Utilities - GPU Service Corp.  
HERBEIN, J.G. : General Public Utilities - GPU Service Corp.  
DATE ISS: 78/11/27, 6pp. , 48x:19454-032, OOI: B&W 0834 , TN: GB10 10.6

07090175 Forwards addl items for consideration re 781107 TMI-2 trip event.  
ARNOLD, R.C. : General Public Utilities - GPU Service Corp.  
HERBEIN, J.G. : General Public Utilities - GPU Service Corp.  
DATE ISS: 78/11/20, 13pp. , 48x:19454-038, OOI: B&W 0835 , TN: GB10 10.6

07090178 Forwards rept re review of TMI-2 Sept 1977 HFT event. w/o encl.  
HARDING, L.W. : General Public Utilities - GPU Service Corp.  
WALLACE, E.G. : General Public Utilities - GPU Service Corp.  
DATE ISS: 81/10/30, 2pp. , 48x:19454-051, OOI: B&W 0836 , TN: GB10 10.6

07090182 "TMI-2 Sept 1977 HFT Event."  
\* : General Public Utilities - GPU Service Corp.  
DATE ISS: 81/10/30, 22pp. , 48x:19454-053, OOI: B&W 0837 , TN: GB10 10.6

07090188 "Analysis of TMI-2 Sept 1977 Event During Hot Functional Tests."  
HEATON, R.W. : General Public Utilities - GPU Service Corp.  
DATE ISS: 81/10/07, 13pp. , 48x:19454-075, OOI: B&W 0838 , TN: GB10 10.6



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U. S. NUCLEAR REGULATORY COMMISSION  
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07090192 Discusses Unit 2 staffing & licensing.

HERBEIN, J.G. :Metropolitan Edison Co.  
ARNOLD, R.C. :Metropolitan Edison Co.  
DATE ISS:75/03/31, 19pp. ,48x:19454-088, ODI:B&W 0839 ,TN:GB10 IRRELEVANT

07090197 Discusses cross licensing status rept.

SEELINGER, J. :Metropolitan Edison Co.  
HERBEIN, J. :Metropolitan Edison Co.  
DATE ISS:75/04/14, 16pp. ,48x:19454-107, ODI:B&W 0840 ,TN:GB10 IRRELEVANT

07130379 Forwards "TMI Mtg Audit, 780109-20." One major area of concern was practice of bypassing chain of command from top to bottom, resulting in duplication of efforts.

TROFFER, G.J. :Metropolitan Edison Co.  
HERBEIN, J.G. :Metropolitan Edison Co.  
DATE ISS:78/02/14, 6pp. ,48x:19501-104, ODI:B&W 0843 ,TN:GB10 10.2

07090223 Discusses exit remarks of J Duzzy following GP Miller senior reactor exam. Duzzy considers plant dirty & paper appears to be "falling apart" in control room.

ARNOLD, R.C. :Metropolitan Edison Co.  
HERBEIN, J.G. :Metropolitan Edison Co.  
DATE ISS:76/04/20, 4pp. ,48x:19454-124, ODI:B&W 0844 ,TN:GB10 IRRELEVANT

07130385 Suspends ltr-designated Individual VV from work for period 790613-26, for failure to exercise sound judgement during 1978-79 requalification program.

MILLER, G.P. :Metropolitan Edison Co.  
VV :Metropolitan Edison Co.  
DATE ISS:79/08/08, 3pp. ,48x:19501-143, ODI:B&W 0845 ,TN:GB10 10.5

07080690 Review & analysis of 781107 partial loss of feedwater.

\* :General Public Utilities - GPU Service Corp.  
DATE ISS:78/11/21, 2pp. ,48x:19406-097, ODI:B&W 0860 ,TN:GB10 10.6



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07080692 Deposition of GA Kunder on 790802 in Harrisburg, PA, Pp 2-171.

KUNDER, G.A. : Metropolitan Edison Co.

DATE ISS: 79/08/02, 314pp., 48x:19408-183, ODI: B&W 0861 , TN: GB10 IRRELEVANT

07080687 testimony of GA Kunder on 790511, Pp 1-36 & 1-21.

KUNDER, G.A. : Metropolitan Edison Co.

DATE ISS: 79/05/11, 58pp., 48x:19409-137, ODI: B&W 0862 , TN: GB10 IRRELEVANT

07130392 Recommends pressurizer electromagnetic relief valve RC-RV2 be periodically inspected for corrosion products & for freedom of movement of lever pin & lever hinges noting clearance w/ solenoid bracket.

ROGERS, L.C. : Babcock & Wilcox Co.

HERBEIN, J.G. : General Public Utilities - GPU Service Corp.

DATE ISS: 75/07/30, 1p., 48x:19501-153, ODI: B&W 0881 , TN: GB10 10.4.2

07120092 Discusses three problem areas in requalification program. Problems concern poor lesson attendance, inordinate time before matl is returned & not enough scheduled time in control room.

TSAGGARIS, A. : Metropolitan Edison Co.

HERBEIN, J.G. : Metropolitan Edison Co.

DATE ISS: 76/04/27, 1p., 48x:19458-170, ODI: B&W 0886 , TN: GB10 10.3

07120130 Responds to request for addl info re Item 41.17. Response changed to read "NRC Current Event - Power Reactors," as of Amend 28.

\* : Metropolitan Edison Co.

DATE ISS: 75/10/31, 2pp., 48x:19459-026, ODI: B&W 0893 , TN: GB10 IRRELEVANT

07120178 Summary of plant operations from 790214-0401.

\* : Babcock & Wilcox Co.

DATE ISS: 79/02/14, 267pp., 48x:19459-104, ODI: B&W 0903 , TN: GB10 10.1

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07120183 Transcript of IE TMI investigation interview w/TF Illjes on 790523 in Middletown,PA.

ILLJES, T.F. :Metropolitan Edison Co.

DATE ISS:79/05/23, 2000. ,48x:19460-011,ODI:B&W 0904 ,TN:GB10 10.4.1

07090384 Transcript of IE interview of H Hartman on 790522.

HARTMAN, H. :General Public Utilities - GPU Service Corp.

DATE ISS:79/05/22, 6100. ,48x:19480-275,ODI:B&W 1021 ,TN:GB10 10.1

07110789 Informs that proposed task 73, "Computerized Field Change Reporting Sys," closed & no further action anticipated. Proposal for computerized field change reporting sys encl.

GENULER, H.H. :Metropolitan Edison Co.

JANIS, J.T. :Babcock & Wilcox Co.

DATE ISS:78/09/08, 1000. ,48x:19480-029,ODI:B&W 4002 ,TN:GB10 10.6

07090269 Deposition of Mr Zewe on 790426 in Harrisburg,PA,Pp 1-183.

ZEW, W.E. :Metropolitan Edison Co.

DATE ISS:79/07/26, 18000. ,48x:19488-001,ODI:B&W 4006 ,TN:GB10 IRRELEVANT

07110794 Deposition of Mr Zewe on 790726 in Harrisburg,PA,Pp 1-187.

ZEW, W.H. :Metropolitan Edison Co.

DATE ISS:79/07/26, 18700. ,48x:19479-193,ODI:B&W 4006 ,TN:GB10 IRRELEVANT

07120646 Submits questions re electromatic valve remaining open.

ZEW, W.H. :Metropolitan Edison Co.

:Metropolitan Edison Co.

DATE ISS:85/07/11, 300. ,48x:19462-295,ODI:B&W 4013 ,TN:GB10 10.4.1

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07120666 Response to apparent noncompliance w/Rev 9 to Operating Procedure 2104-b.2, "Emergency Diesels & Auxiliaries," on 790328 when diesel generators 1A & B fuel racks manually tripped. Corrective actions discussed.  
\* :General Public Utilities - GPU Service Corp.  
DATE ISS:79/03/28, 3pp., ,48x:19462-299,00I:B&W 4015 ,TN:GB10 10.8

07120713 Log of sequence of events from 790327-28 at TMI-2.  
\* :General Public Utilities - GPU Service Corp.  
DATE ISS:79/03/28, 3pp., ,48x:19463-040,00I:B&W 4023 ,TN:GB10 10.1

07120719 "Reactor Coolant Leakage Test."  
\* :General Public Utilities - GPU Service Corp.  
DATE ISS:79/03/19, 7pp., ,48x:19463-043,00I:B&W 4025 ,TN:GB10 10.1

07120725 "Reactor Coolant Leakage Test."  
\* :General Public Utilities - GPU Service Corp.  
DATE ISS:79/03/25, 9pp., ,48x:19463-050,00I:B&W 4026 ,TN:GB10 10.1

07120739 Response to apparent noncompliance w/Tech Spec 3/4.4.6, "RCS Leakage," due to error in calculational procedure for computations from 790322-28. Corrective action discussed.  
\* :Babcock & Wilcox Co.  
DATE ISS:79/03/28, 2pp., ,48x:19463-059,00I:B&W 4027 ,TN:GB10 10.1, 10.8

07120735 Deposition of RC Arnold on 820630 in New York, NY. Pp 146 & 224-226.  
ARNOLD, R.C. :General Public Utilities - GPU Service Corp.  
DATE ISS:82/06/30, 6pp., ,48x:19495-291,00I:B&W 4044 ,TN:GB10 10.4.1

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U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

07120826 Gracons re 780423 failed open steam safety valves.

\* :Babcock & Wilcox Co.  
: |  
DATE ISS:83/07/11, 1p. ,48x:19496-045,ODI:B&W 4059 ,TN:GB10 10.6

07120869 "Reactor Coolant Leakage Test."

\* :Metropolitan Edison Co.  
: |  
DATE ISS:79/03/25, 30pp. ,48x:19496-052,ODI:B&W 4066 ,TN:GB10 10.1

07090324 TMI-2 unidentified leakage calculation.

\* :Babcock & Wilcox Co.  
: |  
DATE ISS:79/03/19, 1p. ,48x:19487-349,ODI:B&W 4067 ,TN:GB10 10.1

07120873 TMI-2 Unidentified Leakage Calculation."

\* :Babcock & Wilcox Co.  
: |  
DATE ISS:79/03/19, 1p. ,48x:19496-232,ODI:B&W 4067 ,TN:GB10 10.1

07130046 Transcript of 790525 util group discussion.

\* :General Public Utilities - GPU Service Corp.  
: |  
DATE ISS:79/05/25, 3pp. ,48x:19496-346,ODI:B&W 5000AA ,TN:GB10 10.4.1

07130054 Transcript of 790525 util group discussion.

\* :General Public Utilities - GPU Service Corp.  
: |  
DATE ISS:79/05/25, 3pp. ,48x:19496-349,ODI:B&W 5000BB ,TN:GB10 10.7

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U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

07130060 Transcript of 790525 util group discussion.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/05/25, 3pp. ,48x:19496-352,ODI:B&W 5000CC ,TN:GB10 10.7

07130078 Transcript of 790412 interview w/util.

\* :Director's Office, Office of Inspection and Enforcement  
: DATE ISS:79/04/12, 1p. ,48x:19496-355,ODI:B&W 5001AA ,TN:GB10 10.4.1

07130119 Transcript of 790421 interview w/util.

\* :Director's Office, Office of Inspection and Enforcement  
: DATE ISS:79/04/21, 1p. ,48x:19497-010,ODI:B&W 5006AA ,TN:GB10 10.7

07130130 Transcript of 790406 interview w/util.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/04/06, 1p. ,48x:19497-014,ODI:B&W 500788 ,TN:GB10 10.4.1

07130135 Transcript of 800327 interview w/util.

\* :Director's Office, Office of Inspection and Enforcement  
: DATE ISS:80/03/27, 2pp. ,48x:19497-017,ODI:B&W 5008AA ,TN:GB10 10.1

07090359 Transcript of B Mehler testimony, Pp 9-10.

MEHLER, B. :General Public utilities - GPU Service Corp.  
: DATE ISS:83/07/09, 3pp. ,48x:19487-357,ODI:B&W 50088 ,TN:GB10 10.1

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U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

07010274 "Final Rept of TMI-2 Occurrence, Technical Review  
Committee."

\* :Babcock & Wilcox Co.  
:;  
DATE ISS:79/07/31, 234pp. ,48x:19179-316,UDI:GPU 0006 ,TN:GB10 10.7

07090097 Comments on proposed AWS paper, Reader must work too hard  
to get message.

\* :Babcock & Wilcox Co.  
LABELLE, D.W. :Babcock & Wilcox Co.  
DATE ISS:80/01/06, 9pp. ,48x:19490-297,UDI:GPU 0294 ,TN:GB10 IRRELEVANT

07080585 Deposition of FJ Scheimann in Harrisburg, PA, Po 2-127.

SHEIMANN, F.J. :Metropolitan Edison Co.  
:;  
DATE ISS:79/07/24, 130pp. ,48x:19417-004,UDI:GPU 0538 ,TN:GB10 IRRELEVANT

07120879 Forwards d&w Users Group 781004-05 meeting minutes re  
once-through steam generator tube problem, control rod drive  
mechanism stator program, incense detector experience & plant  
experience repts. Next d&w group meeting on 790509 & 10.

CORB, A.A. :Babcock & Wilcox Co.  
SMITH, J.E. :Duke Power Co.  
DATE ISS:79/02/26, 45pp. ,48x:19503-036,UDI:GPU 2033 ,TN:GB10 10.6

07120923 Forwards "Current Events - Power Reactors, Sept-Oct 1977,"  
for review for test program & design mod requirements for  
Unit 2. Review indicates no action required.

TOOLE, R.J. :General Public Utilities - GPU Service Corp.  
HEWARD, M.W. :General Public Utilities - GPU Service Corp.  
DATE ISS:78/01/15, 2pp. ,48x:19503-117,UDI:GPU 2043 ,TN:GB10 10.6

07080017 Transcript of President's Commission on Accident at TMI  
third meeting on 790530 in Washington, DC, Po 1-210, w/o  
Po 5-112.

\* :President's Commission on the Accident at Three Mile Island  
:;  
DATE ISS:79/05/30, 103pp. ,48x:19338-209,UDI:GPU 2069 ,TN:GB10 10.4.1



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U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

307080041 Printout listing for 790328 sequence of events review.

\* :metropolitan Edison Co.  
: :  
DATE ISS:79/03/28, 67pp. ,4dx:19338-317,00I:GPU 2083 ,TN:GB10 10.7

307080071 Forwards IE Insp Repts 50-289/78-23 & 50-320/78-36 on  
781204-08 & 12-14 & notice of violation.

BRUNNER, E.J. : Region 1, Philadelphia, Reactor Operations Nuclear Support  
HERBEIN, J.G. : Metropolitan Edison Co.  
DATE ISS:79/01/09, 2pp. ,4dx:19358-066,00I:GPU 2103 ,TN:GB10 IRRELEVANT

307080372 "Investigation of TMI-2 Pressurizer PORV Discharge Pipe  
Temps."

SHELL, J.P. : General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:80/02/28, 52pp. ,4dx:19339-154,00I:GPU 2109 ,TN:GB10 10.4.1

307050403 Revised Chapter 13 to FSAR, "Conduct of Operations."

\* : General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:78/04/07, 67pp. ,4dx:19230-001,00I:GPU 2156 ,TN:GB10 10.3

307050429 Listing of Generation Div resume for request period 810101-  
0601.

\* : General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:81/06/23, 3pp. ,4dx:19231-027,00I:GPU 2166 ,TN:GB10 IRRELEVANT

307050437 Listing of Generator Div resume for request period 770301 -  
780321.

\* : General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:78/03/23, 4pp. ,4dx:19231-031,00I:GPU 2168 ,TN:GB10 IRRELEVANT



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U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

4307050442 Administrative form listing attendees of training course in Unit 1 requalification.

\* :General Public Utilities - GPU Service Corp.  
: ;  
DATE ISS:78/02/28, 2pp. ,48x:19231-035,ODI:GPU 2169 ,TN:GB10 IRRELEVANT

4307120953 Submits recommendations resulting from technical evaluation of MPI fluid sys upgrade.

\* :General Public Utilities - GPU Service Corp.  
: ;  
DATE ISS:83/07/12, 5pp. ,48x:19500-332,ODI:GPU 2201 ,TN:GB10 IRRELEVANT

4307070247 Forwards results of Unit 2 770413-14 progress exam & comparisons w/results of first exam.

GOODMAN, J.A. :Metropolitan Edison Co.  
MILLER, G.P. :Metropolitan Edison Co.  
DATE ISS:77/05/02, 4pp. ,48x:19372-266,ODI:GPU 2278 ,TN:GB10 10.5

4307070492 Forwards response to notice of violation & proposed issuance of civil penalties from IE investigation of 790328 accident at IMI-2.

ARNOLD, R.C. :Metropolitan Edison Co.  
STELLU, V. :Office of Inspection & Enforcement, Office of the Director  
DATE ISS:79/12/05, 94pp. ,48x:19373-343,ODI:GPU 2317 ,TN:GB10 10.4.1, 10.8

4307080028 "Training & Certification of Licensed Personnel."

\* :Metropolitan Edison Co.  
: ;  
DATE ISS:79/07/18, 104pp. ,48x:19359-347,ODI:GPU 2323 ,TN:GB10 10.3

4307080106 Transcript of 820428 rept of Special Master re reopened restart proceeding. Pp 1-196.

\* :Atomic Safety and Licensing board Panel  
: ;  
DATE ISS:82/04/28, 201pp. ,48x:19360-144,ODI:GPU 2334 ,TN:GB10 10.5

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U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307080115 Power plant exam results summary sheets.

\* :Metropolitan Edison Co.  
:;  
DATE ISS:83/07/07, 59pp. ,48x:19360-345,ODI:GPU 2335 ,TN:GB10 IRRELEVANT

8307080110 "Summary of Operating Problems w/Pressurizer Electromatic Relief Valves."

\* :General Public Utilities - GPU Service Corp.  
:;  
DATE ISS:83/07/07, 4pp. ,48x:19361-093,ODI:GPU 2343 ,TN:GB10 10.6

8307080195 Discusses 731229-740104 weekly rept re hot functional testing.

PHINNEY, J.D. :Babcock & Wilcox Co.  
BEACH, R.R. :Babcock & Wilcox Co.  
DATE ISS:74/01/04, 3pp. ,48x:19361-148,ODI:GPU 2411 ,TN:GB10 10.6

8307080483 "Emergency & Abnormal Procedures Quiz - Senior Reactor Operator."

KUNDER, S.A. :General Public Utilities - GPU Service Corp.  
:;  
DATE ISS:76/10/20, 3pp. ,48x:19361-313,ODI:GPU 2456 ,TN:GB10 IRRELEVANT

8307080487 "Emergency & Abnormal Procedures Quiz - Senior Reactor Operator."

KUNDER, G. :General Public Utilities - GPU Service Corp.  
:;  
DATE ISS:77/01/09, 8pp. ,48x:19361-316,ODI:GPU 2457 ,TN:GB10 IRRELEVANT

8307080520 Forwards IE Insp Rept 50-289/79-06 on 790221-23 & 26-28. No noncompliance noted.

BRUNNER, E.J. : Region 1, Philadelphia, Reactor Operations Nuclear Support  
HERBEIN, J.G. :Metropolitan Edison Co.  
DATE ISS:79/03/21, 2pp. ,48x:19361-356,ODI:GPU 2462 ,TN:GB10 IRRELEVANT

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U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307080581 "Operating Guidelines for Small Breaks for Oconee 1,2 & 3,  
TMI-1 & TMI-2, Crystal River 3 & Rancho Seco I."  
\* :Dabcock & Wilcox Co.  
: :  
DATE ISS:83/07/06, 48pp. ,48x:19362-066,001:GPU 2468 ,TN:G810 IRRELEVANT

8307070265 Reviews "Current Events - Power Reactors, Sept-Oct 1977." No  
action required.  
TOOLE, R.J. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:78/01/15, 12pp. ,48x:19339-282,001:GPU 2473 ,TN:G810 10.6

8307070365 Forwards draft rept on reactor coolant pump discharge  
break, dtd 780412.  
JANIS, J. :Dabcock & Wilcox Co.  
SMYTHE, C. :Metropolitan Edison Co.  
DATE ISS:78/04/13, 5pp. ,48x:19358-239,001:GPU 2490 ,TN:G810 IRRELEVANT

8307050404 Transcript of BM Dunn 791004 deposition. Pp 22, 26, 7, 11, 17-18,  
21 & 23-27.  
DUNN, B.M. :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:79/10/04, 54pp. ,48x:19232-131,001:GPU 6020 ,TN:G810 IRRELEVANT

8307050411 Transcript of BM Dunn 790630 deposition. Pp 30-34, 43-45, 47,  
52-55, 65-66, 69-75, 78, 81-82 & 98-99.  
DUNN, B.M. :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:79/06/30, 29pp. ,48x:19232-185,001:GPU 6021 ,TN:G810 IRRELEVANT

8307050419 Transcript of BM Dunn 790702 deposition. Pp 104-105, 157,  
164-167, 169, 171-172, 175-176, 179-182, 199, 203-206, 208-212 &  
219-220.  
DUNN, B.M. :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:79/07/02, 30pp. ,48x:19232-214,001:GPU 6022 ,TN:G810 IRRELEVANT

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U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

8307050422 Transcript of BM Dunn 790713 deposition. Pp 3A, 5-6 & 9-11.

DUNN, B.M. : General Public Utilities - GPU Service Corp.  
: :  
DATE ISS: 79/07/13, 7pp. , 48x: 19232-244, ODI: GPU 6023 , TN: GB10 IRRELEVANT

8307070165 Partial deposition of JF Walters on 790706.

WALTERS, J.F. : Babcock & Wilcox Co.  
: :  
DATE ISS: 79/07/06, 17pp. , 48x: 19357-027, ODI: GPU 6047 , TN: GB10 IRRELEVANT

8307070185 Partial deposition of EA Romack on 790630.

ROMACK, E.A. : Babcock & Wilcox Co.  
: :  
DATE ISS: 79/06/30, 30pp. , 48x: 19357-116, ODI: GPU 6054 , TN: GB10 IRRELEVANT

8307070245 Transcript of IE interview of B Mehler on 800327. Pp 1-25.

MEHLER, B. : Metropolitan Edison Co.  
: :  
DATE ISS: 80/03/27, 25pp. , 48x: 19358-016, ODI: GPU 6060A , TN: GB10 10.1

8307120920 Excerpt from IE interview of B Mehler on 800327 re RCS inventory. Pp 5-12.

MEHLER, B. : General Public Utilities - GPU Service Corp.  
: :  
DATE ISS: 80/03/27, 8pp. , 48x: 19512-279, ODI: GPU 6060AA , TN: GB10 10.1

8307120920 Excerpt from IE interview of B Mehler on 800327 re RCS inventory. Pp 5-12.

MEHLER, B. : General Public Utilities - GPU Service Corp.  
: :  
DATE ISS: 80/03/27, 8pp. , 48x: 19512-279, ODI: GPU 6060AA , TN: GB10 10.1

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U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

OUT OF SEQUENCE EXHIBITS

8307050451 Forwards LEH 78-069/99x-0.

HERBEIN, J.G. : General Public Utilities - GPU Service Corp.  
GRIER, D.H. : Region 1, Philadelphia, Office of the Director  
DATE ISS: 79/02/28, 1p. , 48x: 19324-007, OOI: B&W 0194 , TH: GB10 1C.6

000180 RECORDS SCANNED 180 RECORDS PRINTED ( 30 RECORDS, 150 SUPP.)  
ENDING CODE= 186 LAST KEY= GPU 6060AA 830712092002

APPENDIX C

LAWSUIT RECORD - CATEGORY LOCATION MATRIX



Note: This report (Category 10, Appendix B10, and Appendix C) may not be disseminated outside the NRC without the permission of the EDO or the Director, OI. Internal access and distribution should be on a "need to know" basis.

GPU V. B&W TRIAL TESTIMONY

NAME	DATE	CATEGORY										COMMENTS
		1	2	3	4	5	6	7	8	9	10	
Agar, James	12/14/82											NA
Arnold, Robert	11/15/82				X			X			X	
	11/16/82			X	X		X	X			X	
	11/17/82				X						X	
Bailey, Henry	12/15/82											NA
Chwastyk, Joseph	01/18/83			X	X							
Davis, Ronald	12/15/82											NA
Derivan, Michael	11/03/82	X	X	X				X				
	11/04/82	X	X	X				X				
Dunn, Bert	11/05/82							X				
	11/09/82							X				
	01/19/83							X				
	01/20/83		X	X			X	X			X	
Fahland, Frank	01/17/83			X								
	01/18/83											NA
Frederick, Edward	12/02/82	X	X									
	12/06/82	X	X	X			X	X				
	12/07/82	X	X	X		X	X	X			X	
	12/08/82	X	X	X	X							
	12/09/82	X	X	X				X	X		X	
	12/10/82		X		X						X	
	12/13/82	X	X	X	X	X		X			X	
Hallman, Donald	11/12/82	X	X	X					X			
	11/15/82	X	X	X	X						X	
Hartman, Harold, Jr.	01/18/83			X	X						X	
Herbein, John	01/18/83	X	X									
	01/19/83	X									X	
Holderness, James	01/03/83			X				X			X	
Jones, Robert	12/15/82				X							
	12/16/82				X							
Kane, Edward	12/14/82	X	X	X	X			X				
	12/15/82		X	X	X	X						



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GPU V. B&W TRIAL TESTIMONY (Continued)

NAME	DATE	CATEGORY										COMMENTS	
		1	2	3	4	5	6	7	8	9	10		
Karrasch, Bruce	11/15/82		X									X	
Kelly, Joseph, Jr.	11/04/82												NA
	11/05/82			X									
Lahey, Richard	11/02/82											X	
	11/03/82			X									
	12/17/82			X				X					
	12/20/82			X			X	X				X	
	12/21/82		X					X				X	
	12/22/82	X	X		X		X	X				X	
Lind, John	12/16/82	X											
	12/21/82	X											
Marzec, Richard	01/05/83	X	X					X					
	01/06/83	X	X	X			X	X					
	01/07/83	X	X	X			X	X				X	
	01/10/83	X	X				X						
McBride, Arthur	12/13/82			X									
Mehler, Brian	01/18/83	X					X	X	X				
Michelson, Carlyle	12/23/82		X				X	X					
	01/04/83		X				X	X					
O'Hanlon, James	11/10/82			X								X	
	11/11/82			X								X	
Phinney, James	12/14/82		X	X			X						
Pittman, Roger	12/14/82						X						
Rogers, Leland	12/12/82		X	X				X					
	12/22/82												NA
	12/23/82		X	X				X					
Roy, Donald	12/14/82			X				X					
Scott, Thomas	12/14/82		X	X									
Seelinger, James	01/04/83	X											
	01/07/83	X		X									
Sieglitz, Richard	01/03/83	X	X				X						
	01/04/83	X	X		X	X	X					X	



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GPU V. B&W LAWSUIT DEPOSITIONS

NAME	DATE	CATEGORY										COMMENTS	
		1	2	3	4	5	6	7	8	9	10		
Agar, James	04/22/82			X			X						
Albert, Jim	04/21/82		X										
Arnold, Robert	06/29/82	X	X	X	X		X					X	
	06/30/82		X		X		X					X	
	07/01/82	X	X	X	X		X					X	
Bailey, Henry	02/23/82												NA
Beers, Marshall	07/07/82						X					X	
	07/08/82								X			X	
Billingsley, Quincy	02/18/82		X	X			X	X					
	02/19/82		X	X			X	X					
	02/25/82		X	X			X	X					
Broughton, T. Gary	02/02/82			X	X			X				X	
	02/03/82							X				X	
	02/04/82			X									
	02/05/82			X					X			X	
	02/09/82	X		X	X				X			X	
Brown, Nelson	06/08/81	X			X								
	06/09/81	X											
	06/10/81	X											
	06/11/81	X											
	06/12/81	X			X								
	07/21/81	X	X	X									
Brummer, John	03/10/82								X				
Carlton, James	01/28/82			X			X						
Cartin, Lucius	04/13/82		X					X					
	04/14/82		X					X				X	
Charnoff, Gerald	06/22/81												NA
	06/23/81												NA
Davis, Ronald	04/27/82				X								
Dominguez, Andre	08/17/82	X	X	X				X					

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GPU V. B&W LAWSUIT DEPOSITIONS (Continued)

NAME	DATE	CATEGORY										COMMENTS	
		1	2	3	4	5	6	7	8	9	10		
Dunn, Bert	03/11/81	X	X										
	03/12/81	X	X										
	03/13/81	X	X										
	03/19/81	X		X			X	X					
	03/20/81						X	X					
	03/23/81			X				X					
	03/24/81							X					
	04/07/81							X					
	09/15/82							X					
	09/16/82												NA
Elliott, Norman	02/05/81	X											
	02/06/81	X											
	02/11/81	X											
	02/12/81	X											
	02/13/81	X											
Faist, Fred	03/23/82	X	X	X			X	X		X			
Faust, Craig	08/18/81	X			X		X						
	08/19/81	X	X	X	X		X	X	X				
	08/20/81	X	X	X		X	X	X		X			
	08/21/81	X	X		X			X	X		X		
	09/24/81	X	X	X	X			X	X	X			
	09/25/81	X	X	X	X			X			X		
Favret, Louis	05/11/81												NA
	05/12/81												NA
	05/13/81												NA
Fels, William	12/03/81						X						
Floyd, James	02/18/82	X			X							X	
	02/19/82	X	X	X			X	X					
	04/28/82	X	X	X			X	X		X	X		
	04/29/82	X	X	X				X					
	04/30/82	X	X		X			X			X		



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GPU V. B&W LAWSUIT DEPOSITIONS (Continued)

NAME	DATE	CATEGORY										COMMENTS	
		1	2	3	4	5	6	7	8	9	10		
Frederick, Edward	05/04/82	X			X								
	05/05/82	X	X	X			X						
	05/06/82	X	X	X		X							
	05/07/82	X		X			X	X					
	05/10/82	X		X			X	X					
	05/11/82			X			X	X					
	05/12/82	X	X	X				X					
	05/13/82	X	X					X	X	X			
Garrison, Jack	06/09/82			X									
Glickman, Frederick	03/18/81												NA
	03/19/81												NA
	03/20/81												NA
	03/24/81												NA
	05/06/81												NA
Goslow, Calvin	01/07/82	X	X										
	01/08/82	X	X	X			X		X				
	01/12/82	X	X				X						
	06/17/82	X	X	X				X					
Haimowitz, Milton	04/22/81				X								
	04/23/81				X								
	04/24/81				X								
Hallman, Donald	01/18/82	X	X	X	X		X	X					
	01/19/82	X	X	X	X								
	01/20/82	X	X						X				
	01/21/82	X	X				X						
	01/22/82	X	X	X		X	X						
	06/15/82	X	X	X			X						
	06/16/82	X	X	X			X						
Harbin, Ronald	07/07/81			X	X								
	07/08/81			X	X								
	07/09/81			X									
	07/10/81			X									
	10/01/81			X	X		X						

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GPU V. B&W LAWSUIT DEPOSITIONS (Continued)

NAME	DATE	CATEGORY										COMMENTS
		1	2	3	4	5	6	7	8	9	10	
Hartman, Harold	07/16/82	X			X		X				X	
	08/18/82				X		X				X	
Herbein, John	06/30/82	X	X	X	X		X	X				
	07/01/82	X	X	X	X		X				X	
	07/02/82	X	X	X	X						X	
Hickey, James	05/13/81											NA
Illjes, Theodore	08/10/82	X			X						X	
Jones, Robert	06/30/81											NA
	07/01/81											NA
	07/02/81		X	X			X	X				
Kane, Edward	12/15/81			X				X				
	12/16/81			X								
	12/17/81		X	X				X				
	12/18/81	X	X	X				X				
Karrasch, Bruce	06/16/81		X					X				
	06/17/81		X									
	06/18/81			X							X	
	06/19/81	X	X	X			X	X			X	
	09/29/81		X	X				X			X	
	09/30/81		X	X			X	X				
Keaten, Robert	01/04/82										X	
	01/05/82	X									X	
	01/06/82			X	X							
	01/07/82	X					X				X	
	01/08/82	X	X	X			X		X			
	01/19/82	X	X	X	X	X					X	
	01/20/82	X	X	X	X		X				X	
	01/21/82	X	X		X	X	X	X	X		X	
Kelly, Joseph, Jr.	05/04/81	X		X								
	05/05/81	X	X	X								
	05/06/81	X	X									
	05/07/81	X	X									

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GPU V. B&W LAWSUIT DEPOSITIONS (Continued)

NAME	DATE	CATEGORY										COMMENTS	
		1	2	3	4	5	6	7	8	9	10		
Kennedy, Robert	01/27/82			X			X	X					
Kosiba, Richard	04/27/81												NA
	04/28/81							X					
	04/29/81												NA
	05/18/81												NA
	05/19/81	X						X					
Kunder, George	02/10/82											X	
	02/11/82											X	
	02/12/82												NA
	06/30/82												NA
	07/01/82				X							X	
	07/02/82		X	X								X	
LaBelle, Danny	06/02/81				X				X				
	06/03/81	X		X					X				
	06/04/81		X					X	X				
Lanese, Louis	03/24/82	X	X	X	X				X				
	03/25/82			X				X	X				
	03/26/82			X					X				
	04/19/82			X				X	X				
Lind, John	06/22/82	X											
	06/23/82	X											
Long, Robert	05/18/82				X				X			X	
	05/19/82				X				X			X	
	05/20/82	X	X	X	X				X				
	05/21/82	X			X				X	X	X		
MacMillan, John	06/09/82											X	
	06/10/82	X	X			X	X					X	
Mazella, John	05/20/81												NA
	05/21/81												NA
McBride, Arthur	08/25/82												NA
	08/26/82												NA
McDaniel, George	05/27/81												NA



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GPU V. B&W LAWSUIT DEPOSITIONS (Continued)

NAME	DATE	CATEGORY										COMMENTS
		1	2	3	4	5	6	7	8	9	10	
Mehler, Brian	07/28/81	X	X	X	X	X	X				X	
	07/29/81			X	X		X	X			X	
	07/30/81	X		X	X	X	X				X	
	07/31/81		X	X	X	X					X	
Mestres, Ricardo, Jr.	06/30/81											NA
Michelson, Carlyle	03/18/82		X				X	X				
	03/19/82	X	X				X	X				
Miller, Adam	12/01/81		X			X		X	X			
Miller, Gary	06/02/82	X	X		X							
	06/03/82		X									
	06/04/82		X	X								
	06/07/82	X	X									
	06/08/82	X	X	X								
	06/09/82			X	X							
	06/10/82	X		X								
	06/11/82		X	X								
Murray, Terry	01/28/82	X	X	X								
Noll, Richard	07/14/82		X		X		X				X	
Perrone, Paul	06/24/82						X					
Phinney, James	01/13/82	X	X	X	X	X						
	01/14/82		X				X	X				
Pittman, Roger	06/28/82			X			X	X				
Potts, William	01/07/82	X	X	X	X	X	X	X	X			
	01/08/82		X	X			X					
Rodriguez, Ronald	08/24/81											NA
Rogers, Leland	08/11/81											NA
	08/12/81											NA
	08/13/81											NA
Ross, Michael	11/17/81	X	X									
	11/18/81											NA
Roy, Donald	02/02/82											NA
	02/03/82											NA

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GPU V. B&W LAWSUIT DEPOSITIONS (Continued)

NAME	DATE	CATEGORY										COMMENTS	
		1	2	3	4	5	6	7	8	9	10		
Scheimann, Frederick	02/23/82	X	X			X	X					X	
	02/25/82	X	X									X	
	02/26/82	X	X	X									
	04/01/82	X	X				X						
	04/02/82		X				X						
	04/27/82	X	X				X						
	04/28/82	X	X				X		X	X			
	06/08/82	X	X	X			X						
	06/09/82	X	X				X						
Scott, Thomas	04/30/82												NA
Seelinger, James	10/19/81	X										X	
	10/20/81	X	X										
	10/21/81	X	X	X									
	10/22/81	X	X	X		X	X					X	
	10/23/81	X	X	X					X				
Shetler, James	04/23/82		X				X						
Shovlin, Daniel	07/16/82		X		X	X	X					X	
Swanson, Eric	07/21/82						X	X					
	07/22/82			X			X	X					
Taylor, James	05/19/81						X	X					
	05/20/81							X					
	05/21/81												NA
	05/ 2/81						X						
Toole, Ronald	06/22/81	X	X	X	X	X							
	06/23/81	X	X	X		X	X						
	07/06/81		X	X			X						
	07/07/81		X	X			X						
	07/08/81			X			X						
Wallace, Edward	05/05/82												NA
	05/06/82												NA

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GPU V. B&W LAWSUIT DEPOSITIONS (Continued)

NAME	DATE	CATEGORY										COMMENTS	
		1	2	3	4	5	6	7	8	9	10		
Walters, James	04/13/81												NA
	04/14/81		X	X					X				
	04/15/81			X									
	04/16/81			X					X				
	04/17/81												NA
	07/08/82												NA
	07/09/82												NA
Wandling, George	07/14/81												NA
Ward, Edwin	05/19/82												NA
Weaver, Douglas	12/02/81												NA
Williams, Ronald	08/12/82	X	X		X		X						
Wilson, John	07/21/81											X	
Womack, Edgar	12/08/80			X					X				
	12/09/80		X					X	X				
	12/10/80												NA
	12/19/80												NA
	01/26/81							X					
	01/27/81							X					
Zechmar, Richard	03/10/82	X			X								
	03/11/82	X			X							X	
	03/12/82	X		X	X								
	03/24/82	X	X	X	X								
	03/25/82	X		X	X								
	03/26/82	X	X		X							X	
	04/29/82	X			X								
Zewe, William	05/20/82	X	X		X		X						
	05/21/82	X	X				X					X	
	05/24/82	X	X	X			X					X	
	05/25/82	X		X		X	X					X	
	05/26/82	X	X			X	X		X				
	05/27/82	X	X				X						
	05/28/82	X					X	X					

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B&W EXHIBITS

EXHIBIT NO.	CATEGORY										COMMENTS	
	1	2	3	4	5	6	7	8	9	10		
1												NA
2												NA
3												NA
4												NA
5												NA
6												NA
7				X								
8												NA
9												NA
10												NA
11												NA
12												NA
13												NA
14												NA
15												NA
16												NA
17												NA
18												NA
19												NA
20												NA
21												NA
22												NA
23				X								
24					X							
25				X								
26				X								
27				X								
28				X								
29				X								
30				X								
31				X								
32				X	X							



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B&W EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS
	1	2	3	4	5	6	7	8	9	10	
33											NA
34											NA
35				X							
36											NA
37											NA
38					X						
39											NA
40											NA
41											NA
42											NA
43											NA
44											NA
45											NA
46											NA
47											NA
48											NA
49											NA
50											NA
51											NA
52											NA
53											NA
54											NA
55	X										
56											NA
57	X										
58	X										
59	X										
60	X										
61											NA
62											NA
63											NA
64											NA

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B&W EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS	
	1	2	3	4	5	6	7	8	9	10		
65												NA
66												NA
67												NA
68												NA
69												NA
70												NA
71												NA
72	X		X	X							X	
73	X		X	X							X	
74											X	
75	X		X	X								
76												NA
77			X									
78	X		X									
79	X	X	X	X		X						
80			X									
81												NA
82												NA
83												NA
84												NA
85												NA
86												NA
87												NA
88												NA
89												NA
90												NA
91												NA
92												NA
93												NA
94												NA
151				X								
152		X										

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B&W EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS	
	1	2	3	4	5	6	7	8	9	10		
153					X							
154												NA
155												NA
156		X	X			X						
157												NA
158					X							
159												NA
160			X			X						
161			X			X						
162			X			X						
163			X			X						
164						X						
165						X				X		
166						X				X		
167						X				X		
168			X			X						
169			X									
170		X										
171			X									
172			X			X						
173		X										
174												NA
175												NA
176												NA
177		X										
178					X	X						
179				X	X							
180			X			X				X		
181			X							X		
182			X									
183			X									
184		X	X							X		



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B&W EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS	
	1	2	3	4	5	6	7	8	9	10		
185			X									
186			X				X				X	
187			X									
188			X				X					
189						X					X	
190						X						
191			X									
192			X									
193			X								X	
194			X								X	
200												NA
201												NA
202												NA
203											X	
204			X			X						
205			X			X						
206		X										
207												NA
208	X	X	X			X						
209	X	X				X	X					
210												Do not duplicate list.
211			X									
212			X									
213												NA
214	X											
215	X											
216	X											
217												NA
218											X	
219											X	
220											X	
221											X	

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B&W EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS
	1	2	3	4	5	6	7	8	9	10	
222										X	
223	X									X	
224	X										
225											NA
226	X									X	
227	X									X	
228										X	
229										X	
230										X	
231											NA
232	X	X									
233	X										
234	X										
235	X			X							
236						X					
237		X			X						
238			X		X	X	X	X	X		
239		X		X	X	X	X	X		X	
240											NA
241											Do not duplicate list.
242											Do not duplicate list.
243				X	X	X		X		X	
244			X			X					
245			X	X		X				X	
246	X	X	X			X			X		
247			X	X	X					X	
248		X									
249						X					
250											NA
251										X	
252		X								X	
253		X			X			X			

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B&W EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS
	1	2	3	4	5	6	7	8	9	10	
254											Do not duplicate list.
255		X		X						X	
256		X									
257		X				X	X		X		
258		X				X	X	X	X		
259											NA
260											NA
261		X									
262						X					
263											NA
264	X		X	X		X			X	X	
265											NA
266											NA
267											NA
268											NA
269											NA
270											NA
271	X	X	X	X		X	X	X	X	X	
272		X		X			X	X	X		
273											Do not duplicate list.
274											Tape recording
275		X		X				X	X		
276	X										
277	X										
278	X										
278A	X										
279			X				X				
280						X	X				
281							X				
282		X									
283											NA
284											NA

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B&W EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS	
	1	2	3	4	5	6	7	8	9	10		
285												NA
286												NA
287												NA
288												NA
289	X											
290	X											
291	X											
292	X											
293	X											
294	X											
295		X			X							
296	X											
297	X		X									
298			X									
299										X		
300												NA
301												NA
302	X											
303												NA
304	X											
305										X		
306												NA
307												NA
308							X	X				
309								X				
310							X					
311							X					
312							X					
313						X	X					
314							X					
315							X	X				
316												NA

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B&W EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS	
	1	2	3	4	5	6	7	8	9	10		
317		X			X							
318												NA
319												NA
320												NA
321												NA
322												NA
323												NA
324												NA
325												NA
326												NA
327												NA
328												NA
329												NA
330												NA
331												NA
332												NA
333												NA
334												NA
335												NA
336											X	
337						X					X	
338											X	
339				X								
340											X	
341						X					X	
342												NA
343				X								
344											X	
345											X	
346		X			X	X	X					
347		X	X	X	X	X	X	X		X	X	
347A					X	X					X	



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B&W EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS
	1	2	3	4	5	6	7	8	9	10	
347B											NA
347C			X			X				X	
347D	X	X			X					X	
347E	X		X							X	
347F	X		X					X	X		
347G	X	X	X	X	X					X	
347H				X	X		X			X	
347I	X	X		X	X	X	X			X	
347J	X	X	X	X	X	X					
347K	X	X	X	X	X	X				X	
347L	X	X	X			X	X	X	X	X	
347M	X	X	X			X				X	
347N				X	X					X	
347O										X	
348										X	
349	X	X	X	X	X	X			X	X	
350	X	X	X	X	X	X			X	X	
351	X	X	X	X	X	X			X	X	
352	X	X	X	X	X	X			X	X	
353		X	X	X	X	X		X	X	X	
354	X	X	X	X	X	X	X		X	X	
355	X	X	X	X	X	X	X		X	X	
356	X	X	X	X	X	X	X		X	X	
357	X	X	X	X		X			X	X	
358											NA
359											NA
360	X	X	X	X	X						
361	X	X				X		X	X		
362	X	X			X	X		X	X		
363											NA
364				X		X					
365	X	X				X			X		

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B&W EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS	
	1	2	3	4	5	6	7	8	9	10		
366	X	X	X			X						
367		X	X	X		X						
368						X					X	
369			X	X		X					X	
370			X									
371												NA
372												NA
373												NA
374	X	X	X								X	
375												NA
376	X					X						
377	X	X	X	X		X		X	X	X		
378												NA
379	X	X	X			X						
380				X								
381												NA
382		X		X	X							
383		X										
384			X			X					X	
385			X			X						
386	X	X	X	X								
387				X								
388							X					
389			X				X					
390												NA
391			X				X					
392			X									
393			X									
394			X									
395			X									
396			X									
397			X								X	



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B&W EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS	
	1	2	3	4	5	6	7	8	9	10		
398			X									
399			X									
400			X	X					X	X		
401			X									
402	X	X	X	X	X			X	X	X		
403	X	X	X	X	X			X	X	X		
404			X								X	
405	X	X										
406	X	X										
407	X	X	X									
408			X									
409												NA
410			X					X				
411			X									
412			X				X					
413												NA
414												Do not duplicate list.
415												Do not duplicate list.
416												NA
417		X										
418												NA
419							X					
420										X		
421					X		X	X	X	X		
422				X		X						
423						X						
424												Do not duplicate list.
425		X			X					X		
426		X										
427			X			X						
428		X	X			X						
429						X						

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B&W EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS
	1	2	3	4	5	6	7	8	9	10	
430						X					
431						X					
432						X					
433		X				X					
434		X									
435						X					
436						X					
437						X					
438						X					
439						X					
440						X					
441						X					
442		X				X					
443						X				X	
444			X		X	X					
445			X			X					
446						X					
447						X					
448						X					
449						X					
450						X					
451						X					
452						X					
453		X				X					
454						X					
455						X					
456						X					
457						X	X				
458						X	X				
459						X	X				
460	X			X							X
461	X			X							X

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B&W EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS	
	1	2	3	4	5	6	7	8	9	10		
462	X			X								
463	X			X							X	
464	X			X								
465	X							X				
466	X							X				
467		X										
468	X	X										
469		X										
470	X	X										
510								X				
511							X					
512								X				
513								X				
514	X			X								
515	X			X								
516	X	X		X								
517	X											
518	X			X								
519				X								
520	X			X								
521			X									
522	X			X								
523	X			X								
524	X	X		X								
525	X						X					
526	X						X					
527	X						X					
528	X											
529	X						X					
530	X											
531	X						X					
532	X						X					

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B&W EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS	
	1	2	3	4	5	6	7	8	9	10		
533	X											
534	X											
535	X	X				X						
536	X											
537	X	X	X			X						
538												NA
539		X										
540		X										
541												NA
542						X	X					
543						X						
544						X	X					
550							X					
551							X					
552							X					
553						X						
554												NA
555												NA
556	X			X								
557	X											
558	X											
559												NA
560	X											
561	X											
562												NA
563	X			X							X	
564	X										X	
565	X			X							X	
566	X			X							X	
567	X											
568	X											
569												NA

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B&W EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS	
	1	2	3	4	5	6	7	8	9	10		
570	X											
571	X											
572												Do not duplicate list.
573		X										
591												NA
592												NA
593												NA
594												NA
595												NA
596												NA
597												NA
598												NA
599												NA
600												NA
601												NA
602												NA
603				X								
604		X	X			X						
605		X					X					
606		X					X					
607												NA
608							X					
609						X						
610		X				X						
611						X						
612							X					
613							X					
614	X	X										
615												Do not duplicate list.
616						X						
617												NA
618												NA

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B&W EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS	
	1	2	3	4	5	6	7	8	9	10		
619												NA
620												NA
621												NA
622												NA
623												NA
624												NA
625												NA
626												NA
627												NA
640		X										
641												Do not duplicate list.
642												Do not duplicate list.
643												Do not duplicate list.
644						X						
645	X											
646	X											
646A	X											
647	X											
648												NA
649	X											
650	X											
651	X											
652	X											
653	X											
654			X			X	X		X	X		
655							X	X				
656			X		X							
657					X							
658												NA
659												NA
659-A												NA
660		X	X				X					



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B&W EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS
	1	2	3	4	5	6	7	8	9	10	
661		X	X				X			X	
662	X		X					X	X		
663											NA
664						X					
665					X						
666			X			X	X				
667			X			X	X				
668				X						X	
669				X						X	
670				X						X	
671							X				
672							X				
673							X				
674						X	X				
675							X				
676							X				
677							X				
678							X				
679							X				
680							X				
681							X				
682							X				
683							X				
684							X				
685							X				
686											NA
687		X									
688							X				
689							X				
690						X	X				
691							X				
692							X				



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B&W EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS	
	1	2	3	4	5	6	7	8	9	10		
693												NA
694	X	X	X	X	X	X		X	X	X		
695		X		X						X		
696				X			X					
697	X	X	X	X		X	X	X	X			
698	X	X	X	X	X	X	X	X	X	X		
699	X	X	X	X	X	X	X	X	X			
700	X	X	X	X	X	X	X	X	X			
701										X		
702	X	X	X	X		X	X	X	X			
703	X	X	X	X	X	X	X	X	X			
704				X								
705	X	X	X	X	X	X	X	X				
706	X	X	X	X	X	X	X	X				
707	X	X	X	X	X	X	X	X	X	X		
708												NA
709		X										
710							X					
711		X		X			X		X			
712		X		X			X		X			
713		X		X			X		X			
714		X		X			X		X			
715		X		X			X		X			
716		X		X			X		X			
717							X					
718	X			X	X	X						
719	X		X		X		X	X	X			
720		X										
721		X										
722		X										
723	X											
724		X										

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B&W EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS	
	1	2	3	4	5	6	7	8	9	10		
725		X										
726	X			X	X		X	X	X			
727	X						X					
728								X				
729	X	X		X			X	X				
730	X	X		X	X	X	X	X	X			
731							X	X	X			
735	X											
736	X											
737		X										
738		X										
739		X										
740						X					X	
741			X									
742						X						
743					X							
744					X							
745						X						
746		X										
747		X										
748					X	X	X	X				
749						X		X				
750						X						
751						X						
752						X						
753		X				X						
754		X				X		X				
755												NA
756												NA
758												NA
759			X									
760						X						

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B&W EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS
	1	2	3	4	5	6	7	8	9	10	
761	X	X				X				X	
762			X	X							
763		X		X							
764		X		X							
765		X									
766			X								
767	X			X		X				X	
768			X								
769		X									
770	X										
771	X										
772	X										
773	X										
774	X										
775	X										
776	X										
777	X										
778	X									X	
779	X										
780	X										
781			X								
782			X								
783				X							
784											NA
785			X								
786			X								
787											NA
788	X										
789	X										
790	X					X					
791		X									
792	X					X					

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B&W EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS	
	1	2	3	4	5	6	7	8	9	10		
793			X									
794												NA
795												NA
796	X			X							X	
797	X			X								
798	X			X								
799	X			X								
800			X	X					X			
801			X	X								
802		X										
803				X								
830												NA
831				X							X	
832												Do not duplicate list.
833				X			X	X	X			
834				X		X					X	
835				X		X					X	
836				X							X	
837				X							X	
838				X							X	
839	X			X							X	
840	X			X							X	
841												NA
842												NA
843	X			X	X						X	
844	X			X							X	
845	X			X							X	
846												NA
860				X	X						X	
861		X		X							X	
862				X	X	X	X				X	
863												NA

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B&W EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS
	1	2	3	4	5	6	7	8	9	10	
864			X						X		
875				X							
876			X								
877			X								
878			X								
879		X									
880		X									
881		X	X		X					X	
882	X	X									
883	X			X							
884	X			X	X						
885	X			X							
886	X			X						X	
887	X			X							
888	X			X							
889											NA
890	X	X	X	X							
891		X									
892		X									
893		X		X						X	
894											NA
895											NA
896						X					
897				X							
898					X	X					
899					X						
900					X						
901		X			X						
902					X	X					
903			X							X	
904	X			X						X	
905	X	X			X						



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B&W EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS	
	1	2	3	4	5	6	7	8	9	10		
906						X						
907	X	X	X		X	X	X	X	X			
908	X											
909			X									
910	X					X						
911	X					X						
912	X					X						
913	X						X					
914	X	X										
915	X											
916	X	X										
1000												NA
1001												NA
1002												NA
1020	X		X									
1021	X			X		X		X		X		
1022	X			X	X	X						
1023				X		X						
1024		X				X						
4000												NA
4000A			X									
4001			X									
4002			X							X		
4003												NA
4004			X									
4005			X									
4006	X	X		X		X				X		
4007			X									
4008			X									
4008A-F			X									
4009			X			X						
4009A			X			X						

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B&W EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS
	1	2	3	4	5	6	7	8	9	10	
4010			X			X					
4010A						X					
4011											NA
4012	X	X	X		X	X		X	X		
4013		X		X		X	X			X	
4014			X				X				
4015		X		X	X					X	
4016	X										
4017	X										
4018					X						
4020			X				X		X		
4021		X									
4022			X				X				
4023			X							X	
4025				X						X	
4026				X						X	
4027				X						X	
4028							X				
4029		X	X			X	X				
4030							X				
4031						X					
4032					X	X					
4033			X		X	X					
4034		X			X						
4035			X			X					
4036				X	X		X				
4037					X	X					
4038					X	X					
4039					X	X					
4040			X			X					
4041		X	X			X		X			
4042			X			X					



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B&W EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS	
	1	2	3	4	5	6	7	8	9	10		
4043					X	X						
4044		X			X	X					X	
4049						X						
4050	X		X				X					
4051							X					
4052	X	X					X					
4053							X					
4054	X		X				X					
4055							X					
4057			X				X					
4058							X					
4059			X	X							X	
4060												NA
4061												NA
4062												NA
4063												NA
4064												NA
4065												NA
4066				X	X						X	
4067			X	X			X				X	
4068							X					
4069							X					
4070							X					
4071							X					
4072							X					
4073							X					
4074												NA
4075			X									
4111							X					
4112			X				X					
4113												NA
5000												Tape recording

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B&W EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS	
	1	2	3	4	5	6	7	8	9	10		
5000A												Tape recording
5000AA		X		X		X	X				X	
5000B												Tape recording
5000BB		X	X	X		X	X				X	
5000C												Tape recording
5000CC			X				X				X	
5001												Tape recording
5001A												Tape recording
5001AA				X		X	X				X	
5002												Tape recording
5002A												Tape recording
5002AA						X	X	X				
5003												Tape recording
5003A												Tape recording
5003AA						X						
5004												Tape recording
5004A												Tape recording
5004AA						X						
5004B												Tape recording
5004BB						X						
5005												Tape recording
5005A												Tape recording
5005AA	X			X								
5006												Tape recording
5006A												Tape recording
5006AA				X			X				X	
5007												Tape recording
5007A												Tape recording
5007AA							X					
5007B												Tape recording
5007BB			X	X	X	X					X	
5008												Tape recording



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GPU EXHIBITS

EXHIBIT NO.	CATEGORY										COMMENTS	
	1	2	3	4	5	6	7	8	9	10		
1												NA
2												NA
3												NA
4	X	X				X	X					
5	X	X				X	X					
6	X	X				X	X	X	X	X		
7	X	X			X	X	X	X	X			
8						X						
9												NA
10												NA
11												NA
12												NA
13												NA
14												NA
15												NA
16												NA
17												NA
18						X	X					
19												NA
20						X	X					
21						X						
22												NA
23												NA
24												NA
25												NA
26												NA
27						X						
28						X						
29												NA
30												NA
31												NA
32						X	X					

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GPU EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS	
	1	2	3	4	5	6	7	8	9	10		
33						X						
34												NA
35												NA
36												NA
37			X									
38												NA
39												NA
40												NA
41												NA
42												NA
43												NA
44												NA
45												NA
46				X								
47												NA
48												NA
49	X											
50	X			X								
51												NA
52	X											
53	X											
54												Do not duplicate list.
55												Do not duplicate list.
56												NA
57	X											
58	X											
59	X											
60	X											
61	X											
62	X											
63												NA
64	X											



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GPU EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS	
	1	2	3	4	5	6	7	8	9	10		
65	X											
66												NA
67	X	X										
68	X	X										
69	X	X										
70	X											
71	X	X		X		X						
72	X	X		X		X						
73												NA
74												NA
75				X								
76	X	X				X						
77												NA
78	X	X	X									
79	X	X	X				X					
80			X			X						
81												NA
82												NA
82A		X				X	X					
83												NA
84												NA
85	X	X										
86			X									
87		X	X									
88							X					
89							X					
90			X				X					
91		X					X					
92							X					
93		X										
94		X										
95			X									

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GPU EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS
	1	2	3	4	5	6	7	8	9	10	
96											NA
97											NA
98											NA
99							X				
100							X				
101											NA
102							X				
103			X				X				
104							X				
105											NA
106											NA
107			X								
108			X								
109							X				
110						X	X				
111											NA
112							X				
113											NA
114											NA
115											NA
116							X				
117											NA
118											NA
119											NA
120											NA
121											NA
122											NA
122A							X				
123											NA
124											NA
125											NA
126											NA



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GPU EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS	
	1	2	3	4	5	6	7	8	9	10		
127												NA
128												NA
129												NA
130												NA
131	X		X									
132	X					X	X					
133			X			X						
134			X				X					
135		X	X			X	X					
136												NA
137												NA
138			X				X	X				
139			X									
140			X									
141												NA
142				X	X							
143												NA
144												NA
145												NA
146												NA
147	X		X			X						
148			X									
149												NA
150	X		X									
151			X									
152			X									
153	X		X				X					
154	X		X				X					
155		X										
156		X										
157	X	X										
158		X										

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GPU EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS	
	1	2	3	4	5	6	7	8	9	10		
159		X										
160		X										
161		X										
162		X										
163		X										
164												NA
165												NA
166												NA
167												NA
168												NA
169												NA
170												NA
171												NA
172												NA
173												NA
174												NA
175												NA
176												NA
177												NA
178												NA
179												NA
180												NA
181												NA
182												NA
183												NA
184												NA
185												NA
186												NA
187												NA
188												NA
189												NA
190												NA

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GPU EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS	
	1	2	3	4	5	6	7	8	9	10		
191												NA
192												NA
193												NA
194												NA
195												NA
196												NA
197												NA
198												NA
199												NA
200												NA
201												NA
202												NA
203												NA
204												NA
205												NA
206												NA
207												NA
208												NA
209												NA
210												NA
211												NA
212												NA
213	X	X	X			X						
214												NA
215						X	X					
216												NA
217												NA
218												NA
219												NA
220	X		X									
221												NA
222												NA

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GPU EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS	
	1	2	3	4	5	6	7	8	9	10		
223												NA
224												NA
225												NA
226									X			
227												NA
228												NA
229												NA
230												NA
231												NA
232		X	X		X	X	X	X	X			
233						X						
234												NA
250												NA
251												NA
252												NA
253			X									
254			X			X	X					
255			X									
256			X									
257			X									
258												NA
259			X				X					
260						X						
261						X						
262			X			X						
263						X	X					
264							X					
265			X			X						
266							X					
267						X						
268												NA
269												NA

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GPU EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS	
	1	2	3	4	5	6	7	8	9	10		
270												NA
271												NA
272												NA
273												NA
274												NA
275	X											
276												NA
277												NA
278												NA
279												NA
280												NA
281												NA
282								X				
283												NA
284												Do not duplicate list.
285			X	X								
286		X	X	X								
287	X	X	X	X	X	X	X					
288						X	X					
289							X					
290							X					
291							X					
292							X					
293			X			X	X					
294						X	X			X		
295						X	X					
296	X	X				X						
297	X	X					X					
298		X					X					
299		X					X					
300						X	X					
301						X	X					



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GPU EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS	
	1	2	3	4	5	6	7	8	9	10		
302			X			X	X					
303						X	X					
304												NA
305												NA
306	X		X									
307												NA
308	X		X			X	X					
309												NA
310												NA
311												NA
312												NA
313												NA
314												NA
315												NA
316												NA
317												NA
318												NA
319												NA
320												NA
321												NA
322												NA
323		X				X	X					
324						X	X					
325												NA
326												NA
327												NA
328												NA
329												NA
330							X					
331												NA
332												NA
333												NA



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GPU EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS
	1	2	3	4	5	6	7	8	9	10	
334											NA
335		X					X				
336											NA
337			X				X				
338			X				X				
339			X								
340			X								
341		X									
342		X									
343		X									
344		X									
345		X									
346		X	X								
347											NA
348											NA
349											NA
350											NA
351											NA
352											NA
353											NA
354		X									
355		X									
356											NA
357											NA
358											NA
359											NA
360											NA
361											NA
362											NA
263											NA
364		X									
365											NA

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GPU EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS
	1	2	3	4	5	6	7	8	9	10	
366											NA
367											NA
368		X									
369					X						
370					X						
371		X	X								
372											Do not duplicate list.
373											NA
374											NA
375					X						
376											NA
377											NA
378											NA
379											NA
380											NA
381			X								
382						X	X				
383							X				
384	X						X				
385											NA
386											NA
387											NA
388							X				
389						X					
390						X	X				
391			X								
392			X								
393			X								
394			X								
395			X								
396	X										
397			X				X				

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GPU EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS	
	1	2	3	4	5	6	7	8	9	10		
398			X			X						
399						X						
400			X									
401												NA
402												NA
403		X				X	X					
404		X					-					
405		X										
406		X										
407		X										
408		X										
409					X							
410			X									
411						X						
412						X						
413						X						
414		X										
415		X										
416		X										
417												NA
418				X								
419												NA
420												NA
421												NA
422						X						
423												NA
424												NA
425			X									
426			X									
427			X			X						
428	X	X										
429	X		X									

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GPU EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS	
	1	2	3	4	5	6	7	8	9	10		
430						X	X					
431						X	X					
432					X	X	X					
433						X	X					
434							X					
435			X			X						
436		X										
437		X					X					
438			X			X	X					
439												NA
440												NA
441			X			X						
442			X									
443						X						
444						X						
445												Do not duplicate list.
446												Do not duplicate list.
447			X									
448												NA
449												NA
450												NA
451												NA
452												NA
453												NA
454												NA
455												NA
456												NA
457												NA
458												NA
459												NA
460												NA
461												NA

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GPU EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS	
	1	2	3	4	5	6	7	8	9	10		
462												NA
463												NA
464												NA
465												NA
466												NA
467												NA
468												NA
469								X				
470	X	X						X				
471							X	X				
472							X	X				
473							X	X				
474		X						X	X			
475								X				
476							X	X				
477												NA
478		X						X				
479												NA
480								X	X			
481									X			
482								X	X			
483									X			
484								X	X			
485								X				
486				X								
487					X	X	X					
488			X				X	X				
489			X		X	X	X					
490			X		X	X	X					
491			X		X	X	X					
492												NA



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GPU EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS
	1	2	3	4	5	6	7	8	9	10	
493											NA
494							X				
495							X				
496	X	X					X				
497			X								
498											NA
499											NA
500											NA
501											NA
502											NA
503											NA
504		X				X					
505		X				X					
506				X							
507						X					
508											NA
509	X										
510											Do not duplicate list.
511											Do not duplicate list.
512											NA
513											NA
514											NA
515											NA
516											NA
517											NA
518											NA
519											NA
520											NA
521											NA
522											NA
523											NA
524											NA



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GPU EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS
	1	2	3	4	5	6	7	8	9	10	
525											NA
526											NA
527											NA
528		X									
529											NA
530											NA
531											NA
532											Do not duplicate list.
533											NA
534	X		X	X		X		X			
535											NA
536		X	X			X					
537											NA
538		X								X	
539	X										
540						X					
541		X	X								
542	X										
543		X									
544	X	X				X					
545		X	X								
546	X	X	X								
547		X									
548		X									
549		X									
550		X	X				X				
551		X	X				X				
552		X									
553		X									
554											NA
555											NA
555A											NA

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GPU EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS
	1	2	3	4	5	6	7	8	9	10	
556		X					X				
557		X					X				
558		X									
559											NA
560											NA
561											NA
562											NA
563	X										
564											NA
565											NA
566											NA
567											NA
568	X										
569	X										
570											NA
571			X								
572			X			X	X				
573											NA
574											NA
575			X								
576											NA
577											NA
578											NA
579											NA
580											NA
581											NA
582											NA
583											NA
584											NA
585											NA
586											NA
587											NA

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GPU EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS
	1	2	3	4	5	6	7	8	9	10	
588											NA
589											NA
590											NA
591											NA
592											NA
593		X				X	X				
594						X	X				
595											NA
596			X			X					
597											NA
598			X								
599		X	X			X					
600		X									
601		X	X								
602											NA
603											NA
604											NA
605											NA
606		X									
607						X					
608											NA
609											NA
610											NA
611											NA
612											NA
613											NA
614											NA
615											NA
616											NA
617											NA
618											NA
619											NA

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GPU EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS	
	1	2	3	4	5	6	7	8	9	10		
620												NA
621												NA
622												NA
1000												NA
1001												NA
1002												NA
1003												NA
1004												NA
1010												NA
1011												NA
1012												NA
1013												NA
1014												NA
1015												NA
1020			X									
1021			X									
2001												NA
2002												NA
2003												NA
2004												NA
2005												NA
2006	X		X		X	X	X					
2007			X				X					
2008			X			X						
2009			X			X						
2010			X			X						
2011			X			X						
2012			X			X						
2013			X			X						
2014		X										
2015		X										
2016		X				X						

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GPU EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS	
	1	2	3	4	5	6	7	8	9	10		
2016A							X					
2016B												NA
2017			X									
2018							X					
2019												NA
2020		X				X						
2021			X			X						
2022	X	X										
2023			X									
2024	X			X								
2025			X									
2026												NA
2027	X		X		X			X				
2028			X									
2029			X									
2030			X									
2031			X									
2032			X									
2033			X			X				X		
2034		X	X									
2035		X										
2036		X	X									
2037			X									
2038		X										
2039						X						
2040		X										
2041		X										
2042		X										
2043			X			X				X		
2046												NA
2047												NA
2048												NA



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GPU EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS	
	1	2	3	4	5	6	7	8	9	10		
2049												NA
2050												NA
2051												NA
2052												NA
2053			X			X						
2054												NA
2055	X											
2056			X		X							
2060	X		X									
2061	X	X		X								
2062	X											
2063	X											
2064		X										
2065		X		X		X						
2066		X										
2067				X		X						
2068			X				X					
2069	X	X	X	X	X	X	X				X	
2070			X		X	X						
2071		X										
2072					X	X						
2073						X						
2074	X	X										
2075	X			X								
2076	X			X								
2077	X			X								
2078	X			X								
2079			X			X	X					
2080		X	X									
2081		X	X									
2082		X	X									
2083				X			X				X	



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GPU EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS	
	1	2	3	4	5	6	7	8	9	10		
2084			X			X						
2085							X					
2086					X							
2087			X		X							
2088			X		X							
2089			X		X							
2090			X		X							
2091			X									
2092			X		X							
2093					X							
2094					X							
2095			X			X						
2096			X			X						
2097	X	X				X						
2098						X						
2099						X						
2100							X					
2101		X										
2102												NA
2103	X	X				X		X		X		
2104												NA
2105						X		X				
2106		X				X						
2107							X					
2108			X			X						
2109	X		X			X	X			X		
2110												NA
2150												NA
2151	X											
2152												NA
2153	X											
2154	X											

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GPU EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS	
	1	2	3	4	5	6	7	8	9	10		
2155	X											
2156	X	X		X	X				X	X		
2157												NA
2158	X			X	X							
2159			X				X					
2160			X				X					
2161			X				X	X	X			
2163	X											
2165		X					X					
2166	X									X		
2167	X											
2168	X									X		
2169	X									X		
2171	X											
2172	X	X	X									
2173	X											
2174						X						
2175		X	X									
2176			X									
2177				X		X						
2178							X					
2179			X		X							
2181	X			X		X						
2182	X			X								
2200				X			X					
2201						X	X			X		
2202			X			X						
2203		X	X				X					
2204			X				X					
2205			X				X					
2206							X					
2207							X					

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GPU EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS	
	1	2	3	4	5	6	7	8	9	10		
2208						X	X					
2209							X					
2210							X					
2211												NA
2212												NA
2213		X	X			X	X					
2214							X					
2215							X					
2216			X				X					
2217			X				X					
2218												NA
2219							X					
2220												NA
2221												NA
2222						X	X					
2223			X				X					
2230			X			X						
2231			X			X						
2232					X	X						
2233					X	X						
2234					X							
2235												NA
2236			X		X							
2237			X			X						
2238			X		X							
2242	X											
2249	X											
2250	X					X						
2251	X											
2252	X											
2253	X											
2254												NA

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GPU EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS	
	1	2	3	4	5	6	7	8	9	10		
2255												NA
2256												NA
2257												NA
2258												NA
2259												NA
2260	X											
2261	X											
2262	X											
2263			X			X						
2264												NA
2265	X											
2266	X											
2267												NA
2268	X											
2269	X											
2270	X											
2271	X											
2272												NA
2273	X											
2274	X											
2275												NA
2276												NA
2277	X											
2278	X									X		
2279												NA
2280	X											
2281	X											
2282	X											
2283	X											
2284	X											
2285	X											
2286												NA



Note: This report (Category 10, Appendix B10, and Appendix C) may not be disseminated outside the NRC without the permission of the EDO or the Director, OI. Internal access and distribution should be on a "need to know" basis.

GPU EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS
	1	2	3	4	5	6	7	8	9	10	
2287											NA
2288											NA
2289	X										
2290	X										
2291	X										
2292	X										
2293	X										
2294	X										
2295	X										
2296											NA
2297											NA
2298											NA
2300											NA
2301											NA
2302	X										
2303											NA
2304											NA
2305	X										
2306											NA
2307											NA
2308											NA
2309											NA
2310	X						X				
2311		X			X						
2312											NA
2313											NA
2314											NA
2316											NA
2317										X	
2318											NA
2319											NA
2320											NA

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GPU EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS	
	1	2	3	4	5	6	7	8	9	10		
2321	X											
2322	X	X						X				
2323	X			X						X		
2324			X			X						
2325						X						
2326						X						
2327			X			X						
2328		X			X							
2329	X											
2330		X										
2331						X						
2332			X									
2333												NA
2334	X			X						X		
2335	X			X						X		
2336		X			X	X						
2337	X											
2338								X				
2339								X				
2340						X						
2341						X	X					
2342					X							
2343			X	X		X				X		
2344			X									
2345					X							
2346			X									
2347						X						
2348		X				X						
2349	X	X				X						
2350												NA
2384			X									
2400			X									



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GPU EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS	
	1	2	3	4	5	6	7	8	9	10		
2401						X						
2402						X						
2403						X						
2404			X			X						
2405		X				X	X					
2406												NA
2407												NA
2408						X						
2409					X	X						
2410					X	X						
2411		X	X	X							X	
2412			X			X	X					
2413		X			X							
2414												Missing
2415							X	X				
2416						X						
2417			X									
2418			X									
2419	X											
2420	X											
2421		X	X									
2422	X											
2423						X						
2424						X						
2425						X	X					
2426	X					X	X	X				
2427												NA
2428												NA
2429						X						
2430						X	X					
2431						X	X					
2432			X									

Note: This report (Category 10, Appendix B10, and Appendix C) may not be disseminated outside the NRC without the permission of the EDO or the Director, OI. Internal access and distribution should be on a "need to know" basis.

GPU EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS	
	1	2	3	4	5	6	7	8	9	10		
2433												NA
2435						X						
2436						X						
2437												NA
2438												NA
2439			X									
2440												NA
2441												NA
2442												NA
2443												NA
2444						X						
2445			X			X	X					
2446						X						
2447						X						
2448						X						
2449						X						
2450												NA
2451						X	X					
2452												NA
2453		X										
2454					X	X						
2455												NA
2456	X	X		X			X		X	X		
2457	X	X		X					X	X		
2458		X				X						
2459		X	X			X			X			
2460	X											
2461	X											
2462	X	X		X			X	X	X	X		
2463												NA
2464						X	X					
2465												NA

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GPU EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS	
	1	2	3	4	5	6	7	8	9	10		
2466		X										
2467		X				X			X			
2468		X		X					X	X		
2469						X						
2470						X						
2471												NA
2472												NA
2473										X		
2474												NA
2475												NA
2476												NA
2477												NA
2478												NA
2479												NA
2480												NA
2481												NA
2482												NA
2483												NA
2484												NA
2485												NA
2486												NA
2487												NA
2488												NA
2489												NA
2490										X		
2491												NA
2492		X										
2493												NA
2494		X										
2495												NA
2496												NA
2501					X	X						

Note: This report (Category 10, Appendix B10, and Appendix C) may not be disseminated outside the NRC without the permission of the EDO or the Director, OI. Internal access and distribution should be on a "need to know" basis.

GPU EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS	
	1	2	3	4	5	6	7	8	9	10		
2502												NA
2503						X	X					
2504			X									
2507			X				X					
2508		X					X					
2509												NA
2510												NA
2511			X									
2512			X									
2513			X									
2514	X			X								
2515												NA
2516												NA
2517												NA
2518												NA
2519												NA
2520												NA
2521												NA
2522												NA
2523							X					
2524												NA
2526												NA
2527						X						
2528						X						
2600			X									
2601			X									
2602												NA
2610			X									
2611			X									
2612							X					
2613			X									
2614			X									



Note: This report (Category 10, Appendix B10, and Appendix C) may not be disseminated outside the NRC without the permission of the EDO or the Director, OI. Internal access and distribution should be on a "need to know" basis.

GPU EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS	
	1	2	3	4	5	6	7	8	9	10		
2615			X									
2616			X									
2617			X									
2618			X									
2619	X	X			X	X						
2620						X						
2621							X					
2622						X	X					
2623						X	X					
2624												NA
2700							X					
2701							X					
2702						X						
2703						X						
2704						X						
2705						X						
2706						X	X					
2707	X	X					X					
3001												NA
3002												NA
3003												NA
3004												Model
3005												NA
3006												NA
3007												Model
3008												NA
3009												NA
3010												NA
3011												NA
3012												NA
3013												NA
3014												NA

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GPU EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS	
	1	2	3	4	5	6	7	8	9	10		
3015												NA
3016						X						
3017						X						
3018						X						
3018A							X					
3019						X						
3019A							X					
3020						X						
3020A							X					
3021						X						
3021A							X					
3022							X					
3023												Photograph
3024												Photograph
3025												Photograph
3026												Photograph
3027												Photograph
3028												Photograph
3029												Photograph
3030	X											
3031	X											
3032												NA
3033												Photograph
3034												Photograph
3035												Photograph
3036												Photograph
3037												NA
3100			X				X					
3101			X				X					
3102			X				X					
3103			X				X					
3104			X				X					



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GPU EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS	
	1	2	3	4	5	6	7	8	9	10		
3105			X				X					
3106			X				X					
3107			X				X					
3108			X				X					
3109			X				X					
3110												NA
3111												NA
3112												NA
3113												NA
3114							X					
3115							X					
3116							X					
3117							X					
3118							X					
3119							X					
3120							X					
3121							X					
3122							X					
3123							X					
3124							X					
3125							X					
3126							X					
3127							X					
3128							X					
3129							X					
3130							X					
3131							X					
3132							X					
3133							X					
3134												Model
3135												NA
3136						X						

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GPU EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS	
	1	2	3	4	5	6	7	8	9	10		
3137							X					
3138						X	X					
3139						X						
3140												NA
3141							X					
3142							X					
3143							X					
3144							X					
3145							X					
3146							X					
3147							X					
3148						X	X					
3149							X					
3150							X					
3151							X					
3152							X					
3153							X					
3154							X					
3155							X					
3160							X					
3161			X			X						
3162							X					
3170							X					
6000A												Tape recording
6000AA			X				X					
6000B												Tape recording
6000BB		X	X			X						
6000C												Tape recording
6000CC			X				X					
6000D												Tape recording
6000DD			X									
6001A												Tape recording

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GPU EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS	
	1	2	3	4	5	6	7	8	9	10		
6001AA			X				X					
6001B												Tape recording
6001BB			X				X					
6001C												Tape recording
6001CC			X				X					
6001D												Tape recording
6001DD			X				X					
6002			X			X	X					
6003												Tape recording
6003A												Tape recording
6003AA	X		X			X	X					
6004A												Tape recording
6004AA												NA
6004B												Tape recording
6004BB												NA
6005A												Tape recording
6005AA			X			X						
6006A												Tape recording
6006AA			X			X						
6007A												Tape recording
6007AA			X				X					
6008												NA
6009												NA
6010			X			X						
6011						X						
6012												NA
6013						X						
6014												NA
6015												NA
6016												NA
6020		X	X	X			X				X	
6021	X	X		X			X				X	

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GPU EXHIBITS (Continued)

EXHIBIT NO.	CATEGORY										COMMENTS
	1	2	3	4	5	6	7	8	9	10	
6022	X		X	X			X			X	
6023				X						X	
6024	X	X									
6025	X						X				
6026			X				X				
6027			X								
6028											NA
6029											NA
6030											NA
6031											NA
6032											NA
6033	X		X								
6034											NA
6035											NA
6036											NA
6037											NA
6038											NA
6039		X	X								
6040									X		
6041											NA
6042											NA
6043											NA
6044											NA
6045											NA
6046											NA
6047			X	X			X			X	
6048											NA
6049		X	X								
6050											NA
6051											NA
6052											NA
6053							X		X		





APPENDIX D

UNCATEGORIZED LAWSUIT RECORD



TRIAL TESTIMONY

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

307270002 Legal arguments from GPU/B&W lawsuit on 821112 in New York,  
NY.Pp 1,236-1,267.

\* :U.S. District Court, Southern District of New York  
:  
DATE ISS:82/11/12, 32pp. ,48X:19025-152,ODI: ,TN:GB11

307260424 Testimony of JD Agar on 821214 in New York, NY.Pp 4,351-  
4,370.

AGAR, J.D. :Babcock & Wilcox Co.  
:  
DATE ISS:82/12/14, 20pp. ,48X:19033-257,ODI: ,TN:GB\*

307260500 Testimony of HA Bailey on 821215 in New York, NY.Pp 4,487-  
4,514.

BAILEY, H.A. :Babcock & Wilcox Co.  
:  
DATE ISS:82/12/15, 18pp. ,48X:19034-032,ODI: ,TN:GB\*

307260589 Testimony of R Davis on 821215 in New York, NY.Pp 4,515-  
4,523.

DAVIS, R. :Babcock & Wilcox Co.  
:  
DATE ISS:82/12/15, 10pp. ,48X:19034-059,ODI: ,TN:GB\*

306290664 Testimony of FR Fahland on 830118 in New York, NY.Pp 6,929-  
6,954.

FAHLAND, F.R. :Babcock & Wilcox Co.  
:  
DATE ISS:83/01/18, 26pp. ,48X:19040-314,ODI: ,TN:GB\*

307260471 Testimony of J Kelly on 821104 in New York, NY.Pp 688-712.

KELLY, J. :Babcock & Wilcox Co.  
:  
DATE ISS:82/11/04, 25pp. ,48X:19023-326,ODI: ,TN:GB\*

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

507270001 Testimony of LC Rogers on 821222 in New York, NY. Pp 5,371-  
5,446.

ROGERS, L. :Babcock & Wilcox Co.

DATE ISS:82/12/22, 77pp. ,48x:19036-196,ODI: ,TN:GB\*

507260145 Testimony of JF Walters on 821213 in New York, NY. Pp 4,086-  
4157.

WALTERS, J.F. :Babcock & Wilcox Co.

DATE ISS:82/12/13, 72pp. ,48x:19032-353,ODI: ,TN:GB\*

02321 RECORDS SCANNED 8 RECORDS PRINTED ( 8 RECORDS, 0 SUPP.)  
ENDING CODE= 186 LAST KEY= ZODIACO,V.P. 820209GB\*

DEPOSITIONS

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

306290721 Deposition of H Bailey on 820223 in New York, NY. Pp 1-136.

BAILEY, H. :Babcock & Wilcox Co.  
:  
DATE ISS:82/02/23, 136pp. ,48x:19057-001,00I: ,TN:GB\*

306290970 Deposition of G Charnoff on 810622 in Washington, DC.  
Pp 1-125.

CHARNOFF, G. :Shaw, Pittman, Potts & Trowbridge  
:  
DATE ISS:81/06/22, 128pp. ,48x:19064-241,00I: ,TN:GB\*

306290972 Deposition of G Charnoff on 810623 in Washington, DC.  
Pp 126-190.

CHARNOFF, G. :Shaw, Pittman, Potts & Trowbridge  
:  
DATE ISS:81/06/23, 64pp. ,48x:19065-007,00I: ,TN:GB\*

306290940 Deposition of BM Dunn on 820916 in New York, NY. Pp 1072-1104.

DUNN, B.M. :Babcock & Wilcox Co.  
:  
DATE ISS:82/09/16, 33pp. ,48x:19695-096,00I: ,TN:GB\*

306290747 Deposition of LM Favret on 810511 in New York, NY. Pp 1-164.

FAVRET, L.M. :Babcock & Wilcox Co.  
:  
DATE ISS:81/05/11, 164pp. ,48x:19075-035,00I: ,TN:GB\*

306290750 Deposition of LM Favret on 810512 in New York, NY. Pp 165-303.

FAVRET, L.M. :Babcock & Wilcox Co.  
:  
DATE ISS:81/05/12, 138pp. ,48x:19075-198,00I: ,TN:GB\*

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

306290755 Deposition of LM Favret on 810513 in New York, NY. Pp 304-352.

FAVRET, L.M. :Babcock & Wilcox Co.

DATE ISS:81/05/13, 58pp. ,48x:19075-337, ODI: ,TN:GB\*

306290797 Deposition of F Glickman on 810318 in New York, NY. Pp 1-112.

GLICKMAN, F. :General Public Utilities - GPU Service Corp.

DATE ISS:81/03/18, 112pp. ,48x:19081-015, ODI: ,TN:GB\*

306290789 Deposition of F Glickman on 810319 in New York, NY. Pp 113-225.

GLICKMAN, F. :General Public Utilities - GPU Service Corp.

DATE ISS:81/03/19, 112pp. ,48x:19081-128, ODI: ,TN:GB\*

306290783 Deposition of F Glickman on 810320 in New York, NY. Pp 226-344.

GLICKMAN, F. :General Public Utilities - GPU Service Corp.

DATE ISS:81/03/20, 120pp. ,48x:19081-241, ODI: ,TN:GB\*

306290777 Deposition of F Glickman on 810324 in New York, NY. Pp 345-451.

GLICKMAN, F. :General Public Utilities - GPU Service Corp.

DATE ISS:81/03/24, 107pp. ,48x:19082-001, ODI: ,TN:GB\*

306290772 Deposition of F Glickman on 810506 in New York, NY. Pp 452-527.

GLICKMAN, F. :General Public Utilities - GPU Service Corp.

DATE ISS:81/05/06, 76pp. ,48x:19082-108, ODI: ,TN:GB\*



U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

306290725 Deposition of JM Hickey on 810513 in Toledo,OH.Pp 1-171.

HICKEY,J.M. :Toledo Edison Co.

DATE ISS:81/05/13, 171pp. ,48x:19090-285,ODI: ,TN:GB11

306290732 Deposition of RC Jones on 810630 in New York,NY.Pp 1-143.

JONES,R.C. :Babcock & Wilcox Co.

DATE ISS:81/06/30, 143pp. ,48x:19091-250,ODI: ,TN:GB\*

306290735 Deposition of RC Jones on 810701 in New York,NY.Pp 144-353.

JONES,R.C. :Babcock & Wilcox Co.

DATE ISS:81/07/01, 210pp. ,48x:19092-030,ODI: ,TN:GB11

306290916 Deposition of RE Kosiba on 810427 in New York,NY.Pp 31-172.

KOSIBA,R.E. :Babcock & Wilcox Co.

DATE ISS:81/04/27, 172pp. ,48x:19100-103,ODI: ,TN:GB\*

306290740 Deposition of RE Kosiba on 810429 in New York,NY.Pp 354-523.

KOSIBA,R.E. :Babcock & Wilcox Co.

DATE ISS:81/04/29, 170pp. ,48x:19101-096,ODI: ,TN:GB\*

306290742 Deposition of RE Kosiba on 810518 in New York,NY.Pp 524-670.

KOSIBA,R.E. :Babcock & Wilcox Co.

DATE ISS:81/05/18, 148pp. ,48x:19101-266,ODI: ,TN:GB\*

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

306290811 Deposition of G Kunder on 820212 in New York, NY. Pp 185-276.

KUNDER, G. : General Public Utilities - GPU Service Corp.  
:   
DATE ISS: 82/02/12, 92pp. , 48x:19102-313, ODI: , TN:GB11

306290815 Deposition of G Kunder on 820630 in New York, NY. Pp 277-344.

KUNDER, G. : General Public Utilities - GPU Service Corp.  
:   
DATE ISS: 82/06/30, 68pp. , 48x:19103-043, ODI: , TN:GB11

306290807 Deposition of J Mazella on 810520 in New York, NY. Pp 1-62.

MAZELLA, J. : Metropolitan Edison Co.  
:   
DATE ISS: 81/05/20, 84pp. , 48x:19130-015, ODI: , TN:GB\*

306290810 Deposition of J Mazella on 810521 in New York, NY. Pp 83-157.

MAZELLA, J. : Metropolitan Edison Co.  
:   
DATE ISS: 81/05/21, 74pp. , 48x:19130-101, ODI: , TN:GB\*

306290814 Deposition of AF McBride on 820825 in New York, NY. Pp 1-65.

MCBRIDE, A.F. : Babcock & Wilcox Co.  
:   
DATE ISS: 82/08/25, 65pp. , 48x:19130-179, ODI: , TN:GB\*

306290818 Deposition of AF McBride on 820826 in New York, NY. Pp 66-133.

MCBRIDE, A.F. : Babcock & Wilcox Co.  
:   
DATE ISS: 82/08/26, 67pp. , 48x:19130-244, ODI: , TN:GB\*

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

306290821 Deposition of GT McDaniel on 810527 in New York, NY. Pp 1-80.

MCDANIEL, G.T. :Babcock & Wilcox Co.

DATE ISS:81/05/27, 80pp. ,48X:19130-313,ODI: ,TN:GB\*

306290834 Deposition of RA Mestres on 810630 in New York, NY. Pp 1-87.

MESTRES, R.A. :Sullivan & Cromwell

DATE ISS:81/06/30, 87pp. ,48X:19132-353,ODI: ,TN:GB\*

306290945 Deposition of R Rodriguez on 810824 in Sacramento, CA. Pp  
1-134.

RODRIGUEZ, R. :Sacramento Municipal Utility District

DATE ISS:81/08/24, 134pp. ,48X:19140-096,ODI: ,TN:GB11

306290896 Deposition of LC Rogers on 810811 in New York, NY. Pp 1-139.

ROGERS, L.C. :Babcock & Wilcox Co.

DATE ISS:81/08/11, 139pp. ,48X:19140-230,ODI: ,TN:GB\*

306290899 Deposition of LC Rogers on 810812 in New York, NY. Pp 140-270.

ROGERS, L.C. :Babcock & Wilcox Co.

DATE ISS:81/08/12, 131pp. ,48X:19141-008,ODI: ,TN:GB\*

306290903 Deposition of LC Rogers on 810813 in New York, NY. Pp 271-452.

ROGERS, L.C. :Babcock & Wilcox Co.

DATE ISS:81/08/13, 182pp. ,48X:19141-140,ODI: ,TN:GB\*

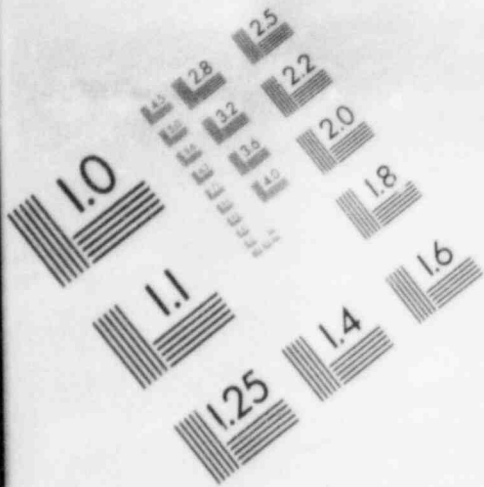
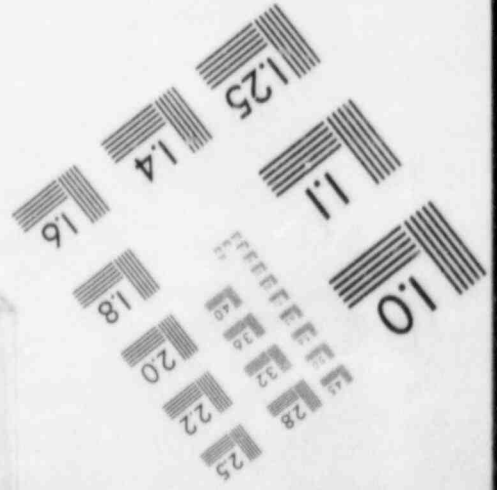
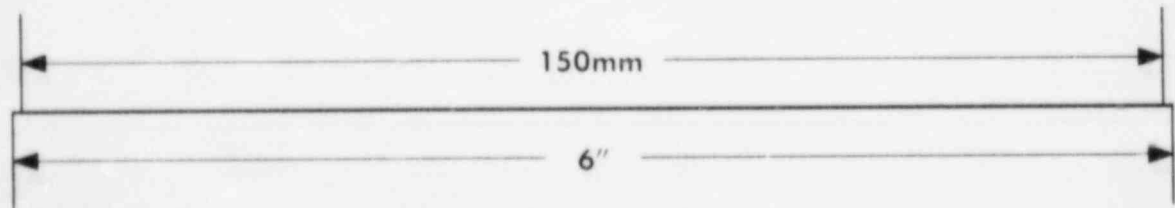
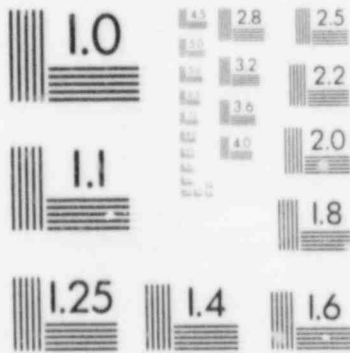
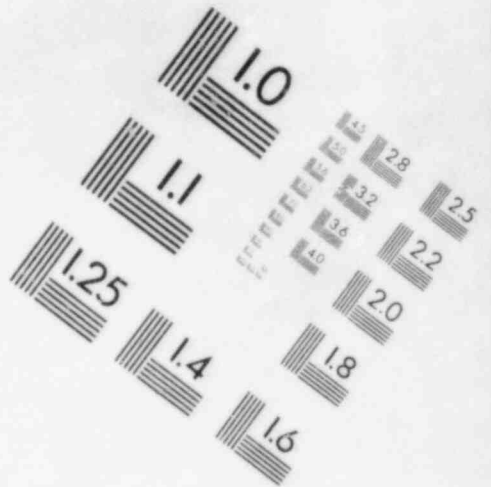


IMAGE EVALUATION  
TEST TARGET (MT-3)



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306290917 Deposition of MJ Ross on 811118 in Harrisburg, PA. Pp 202-280.

ROSS, M.J. : Metropolitan Edison Co.  
:   
DATE ISS: 81/11/18, 79pp. , 48x:19142-160, ODI: , TN:GD\*

306290923 Deposition of DH Roy on 820202 in New York, NY. Pp 1-170.

ROY, D.H. : Metropolitan Edison Co.  
:   
DATE ISS: 82/02/02, 177pp. , 48x:19142-239, ODI: , TN:GB\*

306290926 Deposition of DH Roy on 820203 in New York, NY. Pp 171-352.

ROY, D.H. : Metropolitan Edison Co.  
:   
DATE ISS: 82/02/03, 181pp. , 48x:19143-053, ODI: , TN:GB\*

306300003 Deposition of TF Scott on 820430 in New York, N.Y. Pp 1-102.

SCOTT, T.F. : Babcock & Wilcox Co.  
:   
DATE ISS: 82/04/30, 102pp. , 48x:19146-214, ODI: , TN:GB\*

306290808 Deposition of JH Taylor on 810521 in New York, NY.  
Pp 284-426.

TAYLOR, J.H. : Babcock & Wilcox Co.  
:   
DATE ISS: 81/05/21, 142pp. , 48x:19154-352, ODI: , TN:GB\*

306290784 Deposition of EG Wallace on 820505 in New York, NY. Pp 1-185.

WALLACE, E.G. : General Public Utilities - GPU Service Corp.  
:   
DATE ISS: 82/05/05, 185pp. , 48x:19151-115, ODI: , TN:GB\*

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306290778 Deposition of EG Wallace on 820506 in New York, NY. Pp  
185-307.

WALLACE, E.G. : General Public Utilities - GPU Service Corp.  
:  
DATE ISS: 82/05/06, 122pp. , 48X: 19151-304, ODI: , TN: GB\*

306290835 Deposition of JF Walters on 810413 in New York, NY. Pp 1-163.

WALTERS, J.F. : Babcock & Wilcox Co.  
:  
DATE ISS: 81/04/13, 163pp. , 48X: 19155-257, ODI: , TN: GB\*

306290730 Deposition of JF Walters on 810417 in New York, NY.  
Pp 551-618.

WALTERS, J.F. : Babcock & Wilcox Co.  
:  
DATE ISS: 81/04/17, 67pp. , 48X: 19157-084, ODI: , TN: GB\*

306290734 Deposition of JF Walters on 820708 in New York, NY.  
Pp 619-733.

WALTERS, J.F. : Babcock & Wilcox Co.  
:  
DATE ISS: 82/07/08, 114pp. , 48X: 19157-153, ODI: , TN: GB\*

306290737 Deposition of JF Walters on 820709 in New York, NY.  
Pp 734-824.

WALTERS, J.F. : Babcock & Wilcox Co.  
:  
DATE ISS: 82/07/09, 90pp. , 48X: 19157-267, ODI: , TN: GB\*

306290739 Deposition of GK Handling on 810714 in New York, NY.  
Pp 1-110.

HANDLING, G.K. : Babcock & Wilcox Co.  
:  
DATE ISS: 81/07/14, 110pp. , 48X: 19158-001, ODI: , TN: GB\*



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306290743 Deposition of EG Ward on 820519 in New York, NY. Pp 1-121.

WARD, E.G. : General Public Utilities - GPU Service Corp.  
: :  
DATE ISS: 82/05/19, 121pp. , 48X: 19158-111, ODI: , TN: GB\*

306290748 Deposition of DE Weaver on 811202 in Middletown, PA.  
Pp 1-153. Affidavit & corrections encl.

WEAVER, D.E. : General Public Utilities - GPU Service Corp.  
: :  
DATE ISS: 81/12/02, 156pp. , 48X: 19158-232, ODI: , TN: GB\*

306290757 Deposition of EA Womack on 801210 in New York, NY. Pp 301-407.

WOMACK, E.A. : Babcock & Wilcox Co.  
: :  
DATE ISS: 80/12/10, 126pp. , 48X: 19161-258, ODI: , TN: GB\*

306290763 Deposition of EA Womack on 801219 in New York, NY. Pp 488-642.

WOMACK, E.A. : Babcock & Wilcox Co.  
: :  
DATE ISS: 80/12/19, 144pp. , 48X: 19162-023, ODI: , TN: GB\*

02321 RECORDS SCANNED 46 RECORDS PRINTED ( 46 RECORDS, 0 SUPP.)  
ENDING CODE= 186 LAST KEY= ZODIACO, V.P. 820209GB\*

EXHIBITS

U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

307010257 Resume of F Glickman.

GLICKMAN, F. : General Public Utilities - GPU Service Corp.  
:  
DATE ISS: 81/03/18, 1p. , 48x:19200-001, ODI: B&W 0001 , TN: GB\*

307010258 Forwards items requested by President Commission including detailed GPU organizational info & Met Ed & radiological environ data & info.

TROWBRIDGE, G.F. : Shaw, Pittman, Potts & Trowbridge  
NATALIE, K.B. : President's Commission on the Accident at Three Mile Island  
DATE ISS: 79/05/25, 136pp. , 48x:19200-002, ODI: B&W 0002 , TN: GB\*

307010259 "Review of TMI-2 Const Project."

\* : Touche Ross & Co.  
:  
DATE ISS: 78/10/31, 282pp. , 48x:19200-138, ODI: B&W 0003 , TN: GB\*

307010260 Rev 2 to "TMI-1 Project Organization & Responsibilities Documents."

\* : General Public Utilities - GPU Service Corp.  
:  
DATE ISS: 74/08/30, 64pp. , 48x:19201-060, ODI: B&W 0004 , TN: GB\*

307010261 Chart on handling LOSA proposal.

\* : Babcock & Wilcox Co.  
:  
DATE ISS: 81/03/19, 1p. , 48x:19201-181, ODI: B&W 0005 , TN: GB\*

307010263 Provides info on selection of B&W as NSSS vendor for TMI-2 in response to Article III requesting documents.

HAIMOWITZ, M. : General Public Utilities - GPU Service Corp.  
WILSON, J.F. : General Public Utilities - GPU Service Corp.  
DATE ISS: 79/07/23, 10pp. , 48x:19201-182, ODI: B&W 0076 , TN: GB\*

U. S. NUCLEAR REGULATORY COMMISSION  
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307010269 NELIA Policy NF-220 including Endorsements 1 - 38.

\* :Nuclear Energy Liability Insurance Association  
:  
DATE ISS:73/12/14, 57pp. ,48X:19201-194,UDI:B&W 0008 ,TN:GB\*

307010272 NELIA Policy MF-73 including Endorsements 1 - 3 & 5 - 33.

ABLOTH,G.C. :Mutual Atomic Energy Liability Underwriters  
:  
DATE ISS:74/05/24, 49pp. ,48X:19201-305,UDI:B&W 0009 ,TN:GB\*

307010273 NELIA Policy 1353 including Endorsements 1 - 5.

\* :Nuclear Energy Liability Insurance Association  
:  
DATE ISS:79/01/10, 14pp. ,48X:19202-021,UDI:B&W 0010 ,TN:GB\*

307010275 Lumbermens Mutual Casualty Co Policy TA 1084 including  
Endorsements 1 - 4.

MCNAMARA,S.D. :Lumbermens Mutual Casualty Co.  
:  
DATE ISS:79/01/10, 14pp. ,48X:19202-063,UDI:B&W 0011 ,TN:GB\*

307010278 Clarifies understandings re master svcs contract,B&W  
proposal APS-366,proposed for TMI-2.

GLICKMAN,F. :General Public Utilities - GPU Service Corp.  
SCHMIDT,K.F. :Babcock & Wilcox Co.  
DATE ISS:74/11/04, 2pp. ,48X:19202-077,UDI:B&W 0012 ,TN:GB\*

307010284 Forwards final draft of "Contract for Fuel Fabrication &  
Related Svcs."

ZODIACO,V.P. :General Public Utilities - GPU Service Corp.  
STERNBERG,H. :Babcock & Wilcox Co.  
DATE ISS:76/02/27, 1p. ,48X:19202-079,UDI:B&W 0013 ,TN:GB\*

U. S. NUCLEAR REGULATORY COMMISSION  
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307010267 "Contract for Fuel Fabrication & Related Svcs," Final draft.

\* :Babcock & Wilcox Co.  
:  
DATE ISS:76/02/27, 220pp. ,48x:19202-080,ODI:B&W 0013 ,TN:GB\*

307010271 "Amend to Ltr Agreement Dtd 690301." Agreement provides for rendition by United Engineers & constructors of const mgt svcs for TMI-2.

ARNOLD,R.C. :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:78/07/28, 29pp. ,48x:19202-300,ODI:B&W 0014 ,TN:GB\*

307010276 "Amend to Ltr Agreement Dtd 690301 & Accepted 690406." Agreement concerns retention of United Engineers & Contractors, Inc to provide const mgt & const svcs.

SHIPMA :United Engineers & Constructors, Inc. (subs. of Raytheon Co.)  
:  
DATE ISS:77/05/05, 39pp. ,48x:19202-356,ODI:B&W 0015 ,TN:GB\*

307010279 Contract for prof engineering svcs.

CREITZ,W.M. :Metropolitan Edison Co.  
:  
DATE ISS:78/10/25, 27pp. ,48x:19203-051,ODI:B&W 0016 ,TN:GB\*

307010281 "GPU Sys Manual Levels of Signature Authority."

\* :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:78/09/27, 27pp. ,48x:19203-117,ODI:B&W 0017 ,TN:GB\*

307020148 Amend to 770601 agreement between Met Ed & Catalytic, Inc for craft labor, staff personnel, supervision, tools, consumable mats, nonconsumable mats & requirement & support facilities. Amend effective 790511.

HULSEBUS,J.L. :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:79/05/15, 58pp. ,48x:19246-123,ODI:B&W 0018 ,TN:GB\*

U. S. NUCLEAR REGULATORY COMMISSION  
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307020150 Draft Contract MMCS-78178 between Met Ed & Pennsylvania Electric Co for solidification & removal of radwaste from TMI. Draft RFP encl.

\* :Metropolitan Edison Co.  
:  
DATE ISS:81/03/24, 182pp. ,48x:19246-237,ODI:B&W 0019 ,TN:GB\*

307020153 Rev 2 to agreement between Met Ed & Burkey Const Co re const of security processing ctr.

CREITZ, W.H. :metropolitan Edison Co.  
:  
DATE ISS:78/01/27, 37pp. ,48x:19247-059,ODI:B&W 0020 ,TN:GB\*

307020157 Draft "Master Svcs Agreement between GPU, JCP&L, met ED, Pennsylvania Electric Co & Gilbert Assoc, Inc."

\* :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:81/03/24, 62pp. ,48x:19247-124,ODI:B&W 0021 ,TN:GB\*

307020160 "Met Ed General Terms & Conditions for Const Contracts."

\* :Metropolitan Edison Co.  
:  
DATE ISS:81/03/24, 83pp. ,48x:19270-001,ODI:B&W 0022 ,TN:GB\*

307020190 "Master Contract for Engineering & Technical Svcs," between Met Ed & B&W.

ARNOLD, R. :Metropolitan Edison Co.  
:  
DATE ISS:75/03/27, 17pp. ,48x:19270-341,ODI:B&W 0033 ,TN:GB\*

307020193 "Contract for Fuel Fabrication & Related Svcs," between GPU & B&W.

DIECKAMP :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:76/03/24, 85pp. ,48x:19270-358,ODI:B&W 0034 ,TN:GB\*



U. S. NUCLEAR REGULATORY COMMISSION  
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307020196 Rev 1 to "B&W Nuclear Power Generating Div QA Program for Nuclear Equipment."

\* :Babcock & Wilcox Co.  
: DATE ISS:75/03/31, 263pp. ,48x:19271-171,ODI:B&W 0034 ,TN:GB\*

307020198 Forwards topical rept evaluation of Rev 1 to BAW-10096A, "B&W Nuclear Power Generating Div QA Program for Nuclear Equipment." Rept acceptable.

VOLLMER, R.H. :Division of Reactor Licensing (NRR-1975 only)  
MALLAY, J.F. :Babcock & Wilcox Co.  
DATE ISS:75/03/25, 1p. ,48x:19272-074,ODI:B&W 0034 ,TN:GB\*

307020200 Topical rept evaluation of Rev 1 to BAW-10096A, "B&W Nuclear Power Generating Div QA Program for Nuclear Equipment." Rept acceptable.

\* :NRC - No Detailed Affiliation Given  
: DATE ISS:75/03/25, 2pp. ,48x:19272-075,ODI:B&W 0034 ,TN:GB\*

307020203 Resume of AJ Mazella.

MAZELLA, A.J. :Metropolitan Edison Co.  
: DATE ISS:81/05/20, 1p. ,48x:19270-338,ODI:B&W 0036 ,TN:GB\*

307020205 "Met Ed General Terms & Conditions for Svc Contracts."

\* :Metropolitan Edison Co.  
: DATE ISS:81/05/20, 35pp. ,48x:19272-173,ODI:B&W 0037 ,TN:GB\*

307020065 Forwards B&W proposal for master svcs contract for TMI-1. History of contract & amends provided. B&W & util have been working for 32 months w/o valid master svc contract.

SMITH, S.L. :Babcock & Wilcox Co.  
MULSEBUS, J.L. :Metropolitan Edison Co.  
DATE ISS:77/05/27, 3pp. ,48x:19240-191,ODI:B&W 0039 ,TN:GB\*

U. S. NUCLEAR REGULATORY COMMISSION  
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307020072 "Master Svcs Contract Between Met Ed & B&W," unexecuted version.

\* :Babcock & Wilcox Co.  
:  
DATE ISS:77/05/17, 22pp. ,48x:19240-194,ODI:B&W 0040 ,TN:GB\*

307020077 Telcon w/J Mullen at B&W re status of contract negotiations. Mullen requested telcopy of negotiations summary before sending response to negotiations.

MAZELLA,A.J. :Metropolitan Edison Co.  
:  
DATE ISS:77/11/02, 1p. ,48x:19240-246,ODI:B&W 0041 ,TN:GB\*

307020079 Summarizes B&W positions on expanded scope master svcs contract.

MULLINS,J.G. :Babcock & Wilcox Co.  
MAZELLA,A.J. :Metropolitan Edison Co.  
DATE ISS:77/11/02, 3pp. ,48x:19240-247,ODI:B&W 0042 ,TN:GB\*

307020085 Forwards item by item summary of negotiations re master svcs contract. Warranty portion of contract has not been discussed in detail.

MAZELLA,A.J. :Metropolitan Edison Co.  
MULLIN,J. :Babcock & Wilcox Co.  
DATE ISS:77/11/07, 9pp. ,48x:19240-250,ODI:B&W 0043 ,TN:GB\*

307020089 Telecopy w/J Mullin of B&W re status of master svcs contract. Mullin will send comments to L Tayntor of B&W on 771118. Telegram will be received of B&W position except warranty.

\* :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:77/11/17, 1p. ,48x:19240-287,ODI:B&W 0044 ,TN:GB\*

307020093 Lists remaining issues or clarification.

TAYNTON,L.F. :Babcock & Wilcox Co.  
MAZELLA,A.J. :Metropolitan Edison Co.  
DATE ISS:77/11/18, 2pp. ,48x:19240-288,ODI:B&W 0045 ,TN:GB\*

U. S. NUCLEAR REGULATORY COMMISSION  
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307020097 Forwards comments on expanded scope master svcs contract  
comments complete B&W position on contract.

TAYNTON, L.F. :Babcock & Wilcox Co.  
MAZELLA, A.J. :Metropolitan Edison Co.  
DATE ISS:77/11/21, 2pp. ,48X:19240-290, OOI:B&W 0046 ,TN:GB\*

307020103 Telcon w/L Taynton of B&W re status of negotiations.

\* :Metropolitan Edison Co.  
:;  
DATE ISS:77/11/22, 1p. ,48X:19240-292, OOI:B&W 0047 ,TN:GB\*

307020107 Telcon w/J Mullin of B&W re B&W 771118 ltr.

\* :Metropolitan Edison Co.  
:;  
DATE ISS:77/12/01, 1p. ,48X:19240-293, OOI:B&W 0048 ,TN:GB\*

307020110 Telcon w/L Taynton of B&W discussing open items. Open items  
include requirement to rept all changes. Requirement  
extremely bothersome since some changes may not impact on  
project.

\* :Metropolitan Edison Co.  
:;  
DATE ISS:77/12/05, 1p. ,48X:19240-294, OOI:B&W 0049 ,TN:GB\*

307020112 Forwards draft expanded scope master svc contract.

MAZELLA, A.J. :Metropolitan Edison Co.  
TAYNTON, L.F. :Babcock & Wilcox Co.  
DATE ISS:77/12/13, 2pp. ,48X:19240-295, OOI:B&W 0050 ,TN:GB\*

307020114 Proposes new clause on 10CFR21 requirements to be inserted  
into expanded scope master svcs contract.

MAZELLA, A.J. :Metropolitan Edison Co.  
TAYNTON, L.F. :Babcock & Wilcox Co.  
DATE ISS:78/01/27, 2pp. ,48X:19240-297, OOI:B&W 0051 ,TN:GB\*

U. S. NUCLEAR REGULATORY COMMISSION  
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307020115 Forwards, for signature, expanded scope master svcs contract.

MAZELLA, A.J. : Metropolitan Edison Co.  
TAYNTON, L.F. : Babcock & Wilcox Co.  
DATE ISS: 7d/02/01, 1p. , 48x:19240-299, ODI: B&W 0052 , TN: GB\*

307020117 "Master Svcs Contract."

\* : Babcock & Wilcox Co.  
:   
DATE ISS: 81/05/21, 13pp. , 48x:19240-300, ODI: B&W 0053 , TN: GB\*

307020116 Resume of W.D. Brown.

BROWN, W.D. : Metropolitan Edison Co.  
:   
DATE ISS: 81/06/08, 3pp. , 48x:19240-341, ODI: B&W 0054 , TN: GB\*

307020121 B&W Manual on NSSS, VOL 1.

\* : Babcock & Wilcox Co.  
:   
DATE ISS: 76/04/30, 570pp. , 48x:19240-346, ODI: B&W 0056 , TN: GB\*

307020127 "Heat Transfer."

\* : Babcock & Wilcox Co.  
:   
DATE ISS: 81/06/20, 14pp. , 48x:19242-246, ODI: B&W 0061 , TN: GB\*

307020129 "Reactor Operations."

\* : Babcock & Wilcox Co.  
:   
DATE ISS: 81/06/10, 39pp. , 48x:19242-288, ODI: B&W 0062 , TN: GB\*

U. S. NUCLEAR REGULATORY COMMISSION  
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307020132 "Nuclear Physics."

\* :Babcock & Wilcox Co.  
: DATE ISS:81/06/10, 22pp. ,48X:19242-355,ODI:B&W 0063 ,TN:GB\*

307020135 "Principle of Reactor Operations,Requalification Program."

ZECHREN,R.W. :Babcock & Wilcox Co.  
: DATE ISS:74/11/19, 24pp. ,48X:19243-015,ODI:B&W 0064 ,TN:GB\*

307020138 "Unit II Control Room operator Training Program reactor Theory."

\* :Babcock & Wilcox Co.  
: DATE ISS:81/06/10, 6pp. ,48X:19243-067,ODI:B&W 0065 ,TN:GB\*

307020141 "Atomic Physics."

\* :Babcock & Wilcox Co.  
: DATE ISS:81/06/10, 5pp. ,48X:19243-073,ODI:B&W 0066 ,TN:GB\*

307020144 "Principle of Reactor Operation Lecture for Requalification Program."

ZECHMANN,R.W. :General Public Utilities - GPU Service Corp.  
: DATE ISS:74/11/10, 1p. ,48X:19243-078,ODI:B&W 0067 ,TN:GB\*

307010277 "Principles of Reactor Operations," requalification program.

ZECHMAN,R.W. :Babcock & Wilcox Co.  
: DATE ISS:74/11/19, 688pp. ,48X:19203-172,ODI:B&W 0068 ,TN:GB\*

U. S. NUCLEAR REGULATORY COMMISSION  
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307010280 Units 1 & 2 horsebook, vol 1.

BROWN, N.D. : General Public Utilities - GPU Service Corp.  
: :  
DATE ISS: 77/11/25, 716pp. , 48x:19205-140, ODI: B&W 0069 , TN: GB\*

307020016 "Unit 1 & 2 Horse Book," Vol 2.

\* : Babcock & Wilcox Co.  
: :  
DATE ISS: 81/06/11, 506pp. , 48x:19207-136, ODI: B&W 0070 , TN: GB\*

307020019 "Horse book update."

\* : Babcock & Wilcox Co.  
: :  
DATE ISS: 81/06/11, 14pp. , 48x:19208-282, ODI: B&W 0071 , TN: GB\*

307020029 "Training Dept Notifications."

\* : Metropolitan Edison Co.  
: :  
DATE ISS: 79/06/08, 4pp. , 48x:19208-301, ODI: B&W 0076 , TN: GB\*

307020042 Chart of casualty/parameter, RCS leak, once-through steam generator tube leak, steam leak out of reactor bldg & steam leak in reactor bldg.

\* : Babcock & Wilcox Co.  
: :  
DATE ISS: 81/06/12, 1p. , 48x:19209-122, ODI: B&W 0081 , TN: GB\*



U. S. NUCLEAR REGULATORY COMMISSION  
NRC SPECIAL REPORT

307020045 "Integrated Control Sys Training Quiz Answer Key."

\* :Babcock & Wilcox Co.  
:  
DATE ISS:81/06/12, 16pp. ,48X:19209-123,ODI:B&W 0082 ,TN:GB\*

307020109 Met Ed plant proposals.

\* :Metropolitan Edison Co.  
:  
DATE ISS:81/06/22, 23pp. ,48X:19215-302,ODI:B&W 0083 ,TN:GB\*

307020111 "Met Ed Proposals-Escalation & Progress Payments."

\* :Metropolitan Edison Co.  
:  
DATE ISS:81/06/22, 11pp. ,48X:19215-353,ODI:B&W 0084 ,TN:GB\*

307020113 "Bids in Response to Met Ed Invitation."

\* :Metropolitan Edison Co.  
:  
DATE ISS:66/08/19, 7pp. ,48X:19216-002,ODI:B&W 0085 ,TN:GB\*

307020116 "Issues for Discussion w/B&W."

\* :Metropolitan Edison Co.  
:  
DATE ISS:66/09/20, 3pp. ,48X:19216-009,ODI:B&W 0086 ,TN:GB\*

307020120 Summary of Met Ed Advisory Group 661028 meeting w/Shaw,  
Pittman,Potts,Trowbridge & Madden,Pickard,Lowe & Assoc,PA  
Electric Co & Gilbert Assoc,Inc in Reading,PA re bid  
evaluation items,balance-of-plant,criteria & design factors.

BIERMAN,G.F. :Metropolitan Edison Co.  
:Metropolitan Edison Co.  
DATE ISS:66/11/18, 3pp. ,48X:19216-012,ODI:B&W 0087 ,TN:GB\*

U. S. NUCLEAR REGULATORY COMMISSION  
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307020126 Marked-up contract for NSSS between B&W & Met Ed.

\* :Metropolitan Edison Co.  
:  
DATE ISS:66/12/31, 47pp. ,48x:19216-015,ODI:B&W 0088 ,TN:GB\*

307020130 Forwards draft contract for NSSS equipment package to be acquired from B&W. Discussion prior to forwarding copy to B&W recommended re basic concepts, especially aspects that depart from B&W proposal.

CHARNOFF, G. :Shaw, Pittman, Potts & Trowbridge  
NEIDIG, R.E. :Metropolitan Edison Co.  
DATE ISS:66/12/29, 58pp. ,48x:19216-118,ODI:B&W 0089 ,TN:GB\*

307020133 Forwards revised draft plant contract for discussion w/B&W.

CHARNOFF, G. :Shaw, Pittman, Potts & Trowbridge  
NEIDIG, R. :Metropolitan Edison Co.  
DATE ISS:67/01/27, 1p. ,48x:19216-232,ODI:B&W 0090 ,TN:GB\*

307020136 Draft contract for nuclear equipment for facility, between Met Ed & B&W.

\* :Metropolitan Edison Co.  
:  
DATE ISS:67/01/27, 53pp. ,48x:19216-233,ODI:B&W 0091 ,TN:GB\*

307020140 Marked-up contract for nuclear equipment for facility, between Met Ed & B&W.

\* :Metropolitan Edison Co.  
:  
DATE ISS:67/01/14, 57pp. ,48x:19216-343,ODI:B&W 0092 ,TN:GB\*

307020143 Forwards revised version of NSSS contract for Unit 2, incorporating almost all changes & corrections agreed on in past few months. Informs of G Gray reservations re wording in QC Section A, Article VI, Page 34.

NEELY, J.V. :Jersey Central Power & Light Co.  
CHARNOFF, G. :Shaw, Pittman, Potts & Trowbridge  
DATE ISS:69/07/18, 181pp. ,48x:19217-068,ODI:B&W 0093 ,TN:GB\*

U. S. NUCLEAR REGULATORY COMMISSION  
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307020147 Illegible list of dates & events.

\* :Babcock & wilcox Co.  
:Babcock & wilcox Co.  
DATE ISS:70/03/19, 5pp. ,48X:19217-249,ODI:B&W 0094 ,TN:GB\*

307020161 Forwards "TMI-2 Initial Startup Rept."

WILSON,R.F. :General Public utilities - GPU Service Corp.  
VARGA,S.A. :Atomic Energy Commission  
DATE ISS:79/12/21, 2pp. ,48X:19217-286,ODI:B&W 0154 ,TN:GB\*

307020165 "TMI-2 Initial Startup Rept."

\* :General Public utilities - GPU Service Corp.  
:  
DATE ISS:79/12/21, 786pp. ,48X:19217-289,ODI:B&W 0154 ,TN:GB\*

307020049 RO S: on 770819, during cold shutdown, reactor bldg spray pumps failed to meet head flow curve. Cause not stated. Pumps disassembled & returned to vendor for repair.

O'TOOLE,R.J. :General Public utilities - GPU Service Corp.  
:  
DATE ISS:77/09/06, 2pp. ,48X:19209-139,ODI:B&W 0155 ,TN:GB\*

307020055 Summarizes Unit 2 operations review committee Meeting 265 on 780424-29 re ROs/violations, plant mods & security plan/procedures.

\* :Metropolitan Edison Co.  
:Metropolitan Edison Co.  
DATE ISS:81/06/23, 1p. ,48X:19209-183,ODI:B&W 0157 ,TN:GB\*

307020060 RO: on 780329, during reactor bldg cooling surveillance, fuse blew on I-IV. Alternate source open per engineered safeguards procedure.

\* :General Public utilities - GPU Service Corp.  
:  
DATE ISS:78/03/29, 1p. ,48X:19209-188,ODI:B&W 0159 ,TN:GB\*

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307020101 "GPU Startup Test Log Book 1,TMI Unit-2."

O'TOOLE,R. :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:75/03/12, 588pp. ,48X:19210-126,ODI:B&W 0174 ,TN:GB\*

307010290 GPU Startup Test Log book 2.

\* :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:81/07/07, 552pp. ,48X:19211-354,ODI:B&W 0175 ,TN:GB\*

307010292 GPU Startup Test Log book 3.

\* :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:81/07/07, 604pp. ,48X:19214-001,ODI:B&W 0176 ,TN:GB\*

307050464 TMI organization chart.Illegible.

\* :General Public utilities - GPU Service Corp.  
: :  
DATE ISS:77/01/01, 1p. ,48X:19324-010,ODI:B&W 0200 ,TN:GB11

307050469 TMI organization chart.Illegible.

\* :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:78/01/01, 1p. ,48X:19324-011,ODI:B&W 0201 ,TN:GB11

307050474 TMI organization chart.

\* :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:79/01/01, 1p. ,48X:19324-012,ODI:B&W 0202 ,TN:GB11

U. S. NUCLEAR REGULATORY COMMISSION  
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307050480 TMI-1 organization chart.

\* :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:80/01/30, 1p. ,48x:19324-013,ODI:B&W 0203 ,TN:GB11

307050506 Notice of violation from insp on 770613-15 & 20-21.  
Noncompliance noted: radiation area around two solidified  
radwaste containers in auxiliary bldg not posted as high  
radiation area.

\* :Office of Inspection & Enforcement, Office of the Direct  
:  
DATE ISS:77/07/29, 1p. ,48x:19324-063,ODI:B&W 0207 ,TN:GB\*

307070199 Resume of JF Wilson.

WILSON, J.F. :Debevoise & Lieberman  
:  
DATE ISS:81/05/04, 14pp. ,48x:19325-128,ODI:B&W 0213 ,TN:GB\*

307070291 Provides final authorization for entry upon util property  
w/B&W personnel to perform Task V portion of PWR radiation  
control study on Unit 1.

HERBEIN, J.G. :Metropolitan Edison Co.  
JANIS, J.T. :Babcock & Wilcox Co.  
DATE ISS:78/03/20, 4pp. ,48x:19325-306,ODI:B&W 0217 ,TN:GB\*

307070316 Proposes long-term training svc contract for continued  
support of training program.

HELLER, F.C. :Babcock & Wilcox Co.  
GUERIN, J.E. :Metropolitan Edison Co.  
DATE ISS:75/02/24, 2pp. ,48x:19325-346,ODI:B&W 0225 ,TN:GB\*

307020073 "Reactor Theory."

\* :Babcock & Wilcox Co.  
:  
DATE ISS:81/07/21, 569pp. ,48x:19243-139,ODI:B&W 0231 TN:GB\*

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307020102 Notifies that members of President's Commission on Accident at TMI will visit site on 790510 & 11 to conduct preliminary interviews.

HERBEIN, J.G. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:79/05/08, 1p. ,48x:19246-077,ODI:B&W 0240 ,TN:GB\*

307050289 Rev 3 to Surveillance Procedure 2301-301, "RCS Inventory."

WARREN, R.P. :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:79/02/05, 35pp. ,48x:19327-026,ODI:B&W 0250 ,TN:GB\*

307050307 Resume of C Faust.

FAUST, C. :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:79/07/22, 15pp. ,48x:19327-225,ODI:B&W 0259 ,TN:GB\*

307120634 "Training Program Description."

\* :Metropolitan Edison Co.  
:  
DATE ISS:78/04/07, 19pp. ,48x:19502-034,ODI:B&W 0260 ,TN:GB\*

307050310 "TMI-2 Control Room Layout & Location of Critical Indications."

\* :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:81/08/19, 2pp. ,48x:19327-241,ODI:B&W 0263 ,TN:GB11

307050497 "TMI-2 Control Room Layout," Figure II-47.

\* :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:81/08/20, 1p. ,48x:19327-248,ODI:B&W 0265 ,TN:GB11



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307050503 "TMI-2 LOCA of 790328."

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/03/28, 1p. ,48x:19327-249,ODI:B&W 0266 ,TN:GB11

307050507 "TMI-2 LOCA of 790328."

\* :General Public utilities - GPU Service Corp.  
: DATE ISS:79/03/28, 1p. ,48x:19327-250,ODI:B&W 0267 ,TN:GB11

307050511 "TMI-2 LOCA."

\* :General Public utilities - GPU Service Corp.  
: DATE ISS:79/03/20, 1p. ,48x:19327-251,ODI:B&W 0268 ,TN:GB11

307050514 "TMI-2 LOCA."

\* :General Public utilities - GPU Service Corp.  
: DATE ISS:79/03/20, 1p. ,48x:19327-252,ODI:B&W 0269 ,TN:GB11

307050519 "TMI-2 LOCA."

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:79/03/28, 1p. ,48x:19327-281,ODI:B&W 0270 ,TN:GB11

307080088 "Preliminary Annotated Sequence of Events on 790328 at  
TMI-2."

\* :Babcock & wilcox Co.  
: DATE ISS:79/05/10, 87pp. ,48x:19331-019,ODI:B&W 0283 ,TN:GB\*

U. S. NUCLEAR REGULATORY COMMISSION  
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307080094 Provides schedule for investigative task force interviews.

HARBIN, R.S. :Metropolitan Edison Co.  
BLESSING, J.J. :Metropolitan Edison Co.  
DATE ISS:79/09/14, 1p. ,48x:19331-190, ODI:B&W 0284 ,TN:GB11

307080100 GPU Info Svcs Div personnel listing.

\* :General Public Utilities - GPU Service Corp.  
:;  
DATE ISS:79/04/01, 4pp. ,48x:19331-191, ODI:B&W 0285 ,TN:GB11

307080105 GPU Administration div personnel listing.

\* :General Public Utilities - GPU Service Corp.  
:;  
DATE ISS:79/04/01, 2pp. ,48x:19331-195, ODI:B&W 0286 ,TN:GB11

307080114 GPU Communications personnel listing.

\* :General Public Utilities - GPU Service Corp.  
:;  
DATE ISS:79/04/01, 1p. ,48x:19331-225, ODI:B&W 0287 ,TN:GB11

307080119 Met Ed Corporate Div Consumer Svcs personnel listing.

\* :Metropolitan Edison Co.  
:;  
DATE ISS:79/04/01, 1p. ,48x:19331-226, ODI:B&W 0288 ,TN:GB11

307080183 Resume of HJ Ross.

ROSS, M.J. :Metropolitan Edison Co.  
:;  
DATE ISS:79/09/18, 6pp. ,48x:19332-014, ODI:B&W 0300 ,TN:GB\*

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307080189 Blank page marked NIS.

\* :Metropolitan Edison Co.  
: DATE ISS:81/11/17, 1p., 48x:19332-020, ODI:B&W 0301 ,TN:GB\*

307120676 Provides documentation on requalification training program attendance. Every effort should be made to improve poor attendance.

GOODMAN, D. :Metropolitan Edison Co.  
FLUYD, J. :Metropolitan Edison Co.  
DATE ISS:78/06/21, 1p., 48x:19501-361, ODI:B&W 0303 ,TN:GB\*

307000202 Informs of questions to be answered by personnel employed at Unit 2 up to 2 months before accident occurred.

HERBEIN, J. G. :Metropolitan Edison Co.  
MILLER, G. P. :Metropolitan Edison Co.  
DATE ISS:79/06/18, 465pp., 48x:19332-023, ODI:B&W 0306 ,TN:GB\*

307080643 Resume of A.W. Miller.

MILLER, A. W. :Metropolitan Edison Co.  
: DATE ISS:81/12/01, 1p., 48x:19333-128, ODI:B&W 0307 ,TN:GB\*

307070321 File Codes for reactor components.

\* :Babcock & Wilcox Co.  
: DATE ISS:79/03/28, 2pp., 48x:19329-005, ODI:B&W 0316 ,TN:GB11

307070330 Resume of DE Weaver.

WEAVER, D. E. :Metropolitan Edison Co.  
: DATE ISS:81/12/02, 3pp., 48x:19329-009, ODI:B&W 0318 ,TN:GB\*

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307070339 "Unit 2 RMS baseline Data Sheet."

\* Babcock & Wilcox Co.

DATE ISS:81/12/02, 600. ,48x:19329-012,ODI:B&W 0319 ,TN:GB\*

307070344 "TMI Unit 2 Surveillance Procedure 2612-R2, Atmosphere  
Radiation Monitors Calibr."

SEELINGER, J.L. Babcock & Wilcox Co.

DATE ISS:77/11/01, 540p. ,48x:19329-020,ODI:B&W 0320 ,TN:GB\*

307070349 "TMI Unit 2 Surveillance Procedure 2612-R4, Liquid Radiation  
Monitor Calibr."

SEELINGER, J.L. Babcock & Wilcox Co.

DATE ISS:77/10/13, 310p. ,48x:19329-130,ODI:B&W 0321 ,TN:GB\*

307070399 "TMI Unit 2 Surveillance Procedure 2612-R5, Radiation Monitor  
Calibr G-M Tube Area Monitors."

WARREN, R.P. Babcock & Wilcox Co.

DATE ISS:78/07/19, 100p. ,48x:19329-188,ODI:B&W 0322 ,TN:GB\*

307070405 "Surveillance Performance Form Met. Ed TMI Unit 2, Radiation  
Monitor Sys."

WEAVER, D.E. Babcock & Wilcox Co.

DATE ISS:78/06/09, 430p. ,48x:19329-232,ODI:B&W 0323 ,TN:GB\*

307070415 "Surveillance Performance Form Met Ed TMI Unit 2, Radiation  
Monitoring Sys."

BROWN, J.A. Babcock & Wilcox Co.

DATE ISS:77/12/01, 700. ,48x:19329-303,ODI:B&W 0324 ,TN:GB\*

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307070420 "Surveillance Performance Form Met Ed TMI Unit 2, Liquid  
Radiation Monitor Calibr."

HOFFNER, E.A. :Babcock & Wilcox Co.

DATE ISS:78/09/22, 2pp., 48x:19329-356, ODI:8&W 0325 ,TN:GB\*

307070425 "Surveillance Performance Form Met Ed TMI Unit 2, Liquid  
Radiation Monitor Calibr."

HOFFNER, E.A. :Babcock & Wilcox Co.

DATE ISS:78/09/22, 2pp., 48x:19329-358, ODI:8&W 0326 ,TN:GB\*

307070426 TMI=1 sta instrument calibr fixture data sheet.

NEAVER, D.A. :Babcock & Wilcox Co.

DATE ISS:78/02/16, 18pp., 48x:19330-001, ODI:8&W 0327 ,TN:GB\*

307070435 Forwards stripchart info for covering 790328-31 for NRC  
investigation team for radiation monitors & records.

WEISER, J.L. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.

DATE ISS:79/04/30, 18pp., 48x:19329-338, ODI:8&W 0328 ,TN:GB\*

309200532 Resume of wJ Fels.

FELS, w.J. :General Public Utilities - GPU Service Corp.

DATE ISS:81/12/03, 3pp., 48x: = , ODI:8&W 0329 ,TN:GB\*

307070443 "GPU Svc Corp TMI=2 Computer I/O Spec Listing."

\* :Babcock & Wilcox Co.

DATE ISS:81/12/03, 290pp., 48x:19301-001, ODI:8&W 0330 ,TN:GB\*

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307210340 NOVA GDP TMI Unit 2.

FELS, W.           : Babcock & Wilcox Co.

DATE ISS: 83/07/05, 572pp., 48x119693=001, ODI: B&W 0331           , TN: GB\*

307060627 Rev 1 to "TMI-2, Balance of Plant Software, Vol 2.

\*                   : Macro Corp.

DATE ISS: 78/02/28, 60pp., 48x119362=320, ODI: B&W 0332           , TN: GB\*

307060509 "Bailey 600 Computer Control Sys Point Info Listing."

\*                   : Babcock & Wilcox Co.

DATE ISS: 81/12/03, 350pp., 48x119367=006, ODI: B&W 0333           , TN: GB\*

307060511 "Unit 2 Computer Printout FCC."

\*                   : Babcock & Wilcox Co.

DATE ISS: 81/12/03, 576pp., 48x119367=356, ODI: B&W 0334           , TN: GB\*

307070304 Resume of H. Keaten.

KEATEN, H. W.       : General Public Utilities - GPU Service Corp.

DATE ISS: 82/01/04, 1p., 48x119319=302, ODI: B&W 0335           , TN: GB\*

307070345 Discusses task force.

>                   : General Public Utilities - GPU Service Corp.

DATE ISS: 82/01/07, 1p., 48x119320=185, ODI: B&W 0342           , TN: GB\*



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308230575 Transcript of IMI Investigative Task Force Taped Interview 2  
(Keaten Tapes) on 790824, Po 1-38.

\*                   :General Public Utilities - GPU Service Corp.  
                  1  
DATE ISS:79/08/24, 3900, ,48x120125=118,001:8&w 03478 ,TN:GB\*

307080703 Training Dept interviews.

\*                   :Idacocock & Wilcox Co.  
                  1  
DATE ISS:79/10/18, 300, ,48x119404=018,001:8&w 0358 ,TN:GB\*

307080704 Keaten Task Force interviews.

\*                   :General Public Utilities - GPU Service Corp.  
                  1  
DATE ISS:79/10/18, 300, ,48x119404=021,001:8&w 0359 ,TN:GB\*

307080713 Summary of interview w/JR Floyd.

FLOYD, J.R.       :Idacocock & Wilcox Co.  
                  1  
DATE ISS:80/01/23, 10, ,48x119405=062,001:8&w 0363 ,TN:GB\*

307080733 RW Keaten notes from 790215.

KEATEN, R.W.     :General Public Utilities - GPU Service Corp.  
                  1  
DATE ISS:79/02/15, 4000, ,48x119405=144,001:8&w 0371 ,TN:GB\*

307080736 RW Keaten notes.

KEATEN, R.W.     :General Public Utilities - GPU Service Corp.  
                  1  
DATE ISS:82/01/21, 6700, ,48x119405=190,001:8&w 0372 ,TN:GB\*

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307080737 Rn Keaten notes.

KEATEN, R.W.            ;General Public Utilities - GPU Service Corp.  
                          |  
DATE ISS:79/04/21,   25pp.   ,48x119406-065,00I:8&W 0373            , TN:GB\*

307080060 Marked-up procedure 054 "Analysis of TMI-2 Operator Response."

WALSH, P.S.            ;General Public Utilities - GPU Service Corp.  
                          |  
DATE ISS:79/10/19,   43pp.   ,48x119333-297,00I:8&W 0375            , TN:GB\*

307080069 TMI-2 Investigative Task Force, Task 2 "Rationale for Operator/Staff Response."

WALSH, P.S.            ;Babcock & Wilcox Co.  
                          |  
DATE ISS:79/08/14,   8pp.    ,48x119334-070,00I:8&W 0378            , TN:GB\*

307080084 Rev 3 to "NRC Regulation 10CFR 21."

\*                        ;General Public Utilities - GPU Service Corp.  
                          |  
DATE ISS:78/05/30,   2pp.    ,48x119334-113,00I:8&W 0381            , TN:GB\*

307210220 Graphs, charts & handwritten notes re pressurizer. Excerpts from pressurizer study also encl.

\*                        ;Babcock & Wilcox Co.  
                          |  
DATE ISS:79/02/14,   43pp.   ,48x119694-319,00I:8&W 0390            , TN:GB\*

307080656 Forwards 780329 reactor trip rept.

ZODIACO, V.P.          ;Babcock & Wilcox Co.  
BROUGHTON, G.          ;Babcock & Wilcox Co.  
DATE ISS:82/02/09,   64pp.   ,48x119392-001,00I:8&W 0409            , TN:GB\*

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307080665 Resume of GA Kunder.

KUNDER, G.A. : Metropolitan Edison Co.

DATE ISS: 82/02/10, 1p., 48X:19393-058, ODI: B&W 0413, TN: GB\*

307080616 Testimony of G Kunder before Subcommittee on Nuclear Regulation of Committee on Environ & Public Works on 790822 in Harrisburg, PA. Pp 1-41.

KUNDER, G. : General Public Utilities - GPU Service Corp.

DATE ISS: 79/08/22, 42pp., 48X:19393-059, ODI: B&W 0416, TN: GB11

307120748 Drawing submittal form re preliminary draft procedures concerning DP 5 1202 06 concerning loss of reactor coolant & coolant pressure.

THOMASSON, F.R. : Babcock & Wilcox Co.

: Babcock & Wilcox Co.

DATE ISS: 70/06/11, 13pp., 48X:19502-289, ODI: B&W 0418, TN: GB\*

307080585 Deposition of FJ Scheimann in Harrisburg, PA. Pp 2-127.

SCHEIMANN, F.J. : Metropolitan Edison Co.

DATE ISS: 79/07/24, 242pp., 48X:19417-004, ODI: B&W 0538, TN: GB\*

307080621 Confirms CP Miller 780423 telcon re Unit 2 LER 78-033/1P.

\* : Babcock & Wilcox Co.

HERBEIN, J.G. : Metropolitan Edison Co.

DATE ISS: 78/05/02, 1p., 48X:19418-005, ODI: B&W 0541, TN: GB\*

307080624 Forwards LER 78-033/01T-0.

\* : Metropolitan Edison Co.

GRIEK, B.M. : Region 1, Philadelphia, Office of the Director

DATE ISS: 78/04/24, 1p., 48X:19418-006, ODI: B&W 0541, TN: GB\*

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307080700 LER 78-033/01T-0: on 780423, reactor tripped from 30% RTP, causing rapid RCS cooldown & depressurization. Caused by valve failure to reset. Integrated control sys testing will continue upon return to power operations.

\* :Metropolitan Edison Co.  
: NRC Regional Offices

DATE ISS:78/04/24, 5pp. ,48X:19418-007,ODI:B&W 0541 ,TN:GB\*

307080744 Resume of RW Zechman.

ZECHMAN, R.W. :Metropolitan Edison Co.

DATE ISS:79/07/18, 2pp. ,48X:19418-134,ODI:B&W 0554 ,TN:GB\*

307080746 Table listing individuals completing supervisor, group supervisor & administrator training.

\* :Babcock & Wilcox Co.

DATE ISS:79/03/01, 1p. ,48X:19418-136,ODI:B&W 0555 ,TN:GB\*

307080754 Table of contents for TMI-2 FSAR.

\* :Metropolitan Edison Co.

DATE ISS:83/07/08, 17pp. ,48X:19418-235,ODI:B&W 0559 ,TN:GB\*

307070516 Submits marginal comments.

\* :Babcock & Wilcox Co.

:Babcock & Wilcox Co.

DATE ISS:82/05/11, 1p. ,48X:19341-362,ODI:B&W 0562 ,TN:GB\*

307080760 Handwritten notes of attendance at operator training program.

\* :Babcock & Wilcox Co.

:Babcock & Wilcox Co.

DATE ISS:83/07/08, 1p. ,48X:19418-283,ODI:B&W 0562 ,TN:GB\*

U. S. NUCLEAR REGULATORY COMMISSION  
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307080774 Diagram of TMI-2 control room layout & location of critical indications.

\* :Babcock & Wilcox Co.  
: DATE ISS:82/03/24, 1p. ,48x:19418-353,ODI:B&W 0569 ,TN:GB\*

307070106 Resume of JA Brummer.

BRUMMER,J.A. :General Public Utilities - GPU Service Corp.  
: DATE ISS:82/03/10, 2pp. ,48x:19316-287,ODI:B&W 0591 ,TN:GB\*

307070111 "Operating & Maint Instructions for Radiation Monitoring Sys" & plants catalog,TMI-2.

\* :Victoreen, Inc. (subs. of Sheller-Globe Corp.)  
: DATE ISS:82/03/10, 769pp. ,48x:19316-289,ODI:B&W 0592 ,TN:GB\*

307070116 "Radiation Monitoring Sys Test (Liquid)," Unit 2.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:78/07/14, 324pp. ,48x:19318-338,ODI:B&W 0593 ,TN:GB\*

307070272 Effective Page 0 to TP 360/1A re radiation monitoring sys for Unit 2.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:82/03/10, 524pp. ,48x:19311-175,ODI:B&W 0594 ,TN:GB\*

307070280 Rev 0 to Test Procedure TP 360/1C, "Radiation Monitoring Sys Test - Area Monitors," Unit 2.

WILSON,M. :General Public Utilities - GPU Service Corp.  
: DATE ISS:78/03/22, 319pp. ,48x:19312-339,ODI:B&W 0595 ,TN:GB\*

U. S. NUCLEAR REGULATORY COMMISSION  
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307070285 Rev 1 to Surveillance Procedure 2302-R3, "Radiation  
Monitoring Sys," Unit 2.

MILLER :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:77/11/17, 50pp. ,48x:19314-001,ODI:B&W 0596 ,TN:GB\*

307070288 Rev 4 to Surveillance Procedure 2303-M9, "Containment  
Monitor - Radiation Monitoring Sys Channel Function Test,"  
Unit 2.

WARREN,R.P. :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:78/11/28, 13pp. ,48x:19314-079,ODI:B&W 0597 ,TN:GB\*

307070293 Tech Spec section 1.0 re definitions.

\* :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:82/03/10, 10pp. ,48x:19314-121,ODI:B&W 0598 ,TN:GB\*

307070299 Rev 5 to Operating Procedure 2105-1.12, "Radiation  
Monitoring Sys Setpoints," Unit 2.

\* :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:78/11/09, 76pp. ,48x:19314-131,ODI:B&W 0599 ,TN:GB\*

307090378 Chapter 12 - Radiation Protection.

\* :Babcock & Wilcox Co.  
:  
DATE ISS:74/12/19, 85pp. ,48x:19394-300,ODI:B&W 0600 ,TN:GB\*

307090382 Rev 9 to Unit 2 Procedure 2105-1.12, "Radiation Monitoring  
Sys Setpoints."

\* :Babcock & Wilcox Co.  
:  
DATE ISS:80/02/21, 185pp. ,48x:19395-119,ODI:B&W 0601 ,TN:GB\*



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307090385 Tech Spec re RCS operational leakage.

\* :Babcock & Wilcox Co.  
:;  
DATE ISS:82/03/10, 2pp. ,48x:19395-304,ODI:B&W 0602 ,TN:GB\*

307090405 Notes re loss of feedwater sys w/o emergency feedwater.

LANESE,L. :General Public Utilities - GPU Service Corp.  
:;  
DATE ISS:79/03/31, 314pp. ,48x:19396-026,ODI:B&W 0607 ,TN:GB\*

307090401 Resume of EG Wallace.

WALLACE,E.G. :General Public Utilities - GPU Service Corp.  
:;  
DATE ISS:82/05/05, 1p. ,48x:19443-225,ODI:B&W 0617 ,TN:GB\*

307090404 LER 78-065/99x-0:on 781107,Unit 2 ECCS actuation occurred.  
Caused by reduction in feedwater flow during physics  
testing.No corrective action required.

HERBEIN,J.G. :Metropolitan Edison Co.  
GRIER,B.H. : Region 1, Philadelphia, Office of the Director  
DATE ISS:79/01/31, 6pp. ,48x:19443-226,ODI:B&W 0618 ,TN:GB\*

307090406 Assigns VP Zodiaco responsibility for coordinating &  
directing development of documentation re technical,  
administrative & personnel aspects of TMI-2 accident.

ARNOLD,R.C. :General Public Utilities - GPU Service Corp.  
ZODIACU,V.P. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/05/01, 2pp. ,48x:19443-232,ODI:B&W 0619 ,TN:GB\*

307090409 Advises that NRC investigation team will conduct interviews  
in Mountain Lakes beginning 790601.

HOVER,J.G. :General Public Utilities - GPU Service Corp.  
ABRAMOVICI,J. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/05/25, 1p. ,48x:19443-234,ODI:B&W 0620 ,TN:GB\*

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307090411 Requests that group be established to provide overall coordination & consolidation of investigative efforts required to reach intended goal of providing documentation package responsive to all aspects of TMI-2 accident.  
ARNOLD, R.C. :General Public Utilities - GPU Service Corp.  
WALLACE, E.G. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/07/11, 2pp. ,48x:19443-235,ODI:B&W 0621 ,TN:GB\*

307110023 Provides list of specific task items which must be completed to address certain findings of NRC IE investigation rept.

WALLACE, E.G. :General Public Utilities - GPU Service Corp.  
KEATEN, R.W. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/08/06, 3pp. ,48x:19443-237,ODI:B&W 0622 ,TN:GB\*

307110024 Forwards initial info search formed by EG wallace & others.

KEATEN, R.W. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:79/08/13, 11pp. ,48x:19443-240,ODI:B&W 0623 ,TN:GB\*

307110026 TMI-2 accident documentation from 790707.

\* :General Public Utilities - GPU Service Corp.  
:;  
DATE ISS:79/07/17, 42pp. ,48x:19443-251,ODI:B&W 0624 ,TN:GB\*

307110027 TMI-2 accident documentation from 790717.

\* :General Public Utilities - GPU Service Corp.  
:;  
DATE ISS:79/07/17, 63pp. ,48x:19443-350,ODI:B&W 0625 ,TN:GB\*

307110059 EGW control room notes on TMI-2 accident.

\* :General Public Utilities - GPU Service Corp.  
:;  
DATE ISS:79/03/29, 13pp. ,48x:19444-079,ODI:B&W 0626 ,TN:GB\*

U. S. NUCLEAR REGULATORY COMMISSION  
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307110062 Forwards Davis-Besse event rept per T Meyers request.

PLUNKETT, J.C. : NUS Corp.  
LANESE, L. : General Public Utilities - GPU Service Corp.  
DATE ISS: 79/03/30, 1p. , 48X:19444-120, ODI: B&W 0627 , TN: GB\*

307110100 Simulator evaluation for operator training program.

\* : Babcock & Wilcox Co.  
DATE ISS: 77/07/20, 2pp. , 48X:19444-249, ODI: B&W 0648 , TN: GB\*

307090180 Excerpts from Part 1 of Vol II to "TMI: Rept to Commissioners & Public."

ROGOVIN, M. : NRC Three Mile Island Task Force  
DATE ISS: 79/04/05, 4pp. , 48X:19398-235, ODI: B&W 0658 , TN: GB\*

307110745 Vol 2, Part 1 of "TMI Rept to Commissioners & To Public."

ROGOVIN, M. : NRC - No Detailed Affiliation Given  
DATE ISS: 82/05/10, 4pp. , 48X:19478-056, ODI: B&W 0658 , TN: GB\*

307090184 Diagram of TMI-2 Control Room Layout & Location of Critical Indications.

\* : General Public Utilities - GPU Service Corp.  
DATE ISS: 79/03/28, 1p. , 48X:19398-239, ODI: B&W 0659 , TN: GB\*

307090186 Diagram of TMI-2 Control Room Layout.

\* : General Public Utilities - GPU Service Corp.  
DATE ISS: 79/03/28, 1p. , 48X:19398-240, ODI: B&W 0659A , TN: GB\*

U. S. NUCLEAR REGULATORY COMMISSION  
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307090206 TMI-2 Plant Schematic.

\* :Institute of Electrical & Electronic Engineers  
: :  
DATE ISS:79/11/30, 1p. ,48X:19399-014,ODI:B&W 0663 ,TN:GB\*

307090322 Forwards expanded & annotated sequence of events for TMI-2  
accident of 790328.VP Zodiaco comments encl.

LONG,R.L. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:79/04/28, 29pp. ,48X:19400-073,ODI:B&W 0686 ,TN:GB\*

307110722 Forwards noted discrepancies,based on comparative review of  
NRC & Nuclear Safety analysis Ctr sequence of events repts.

THOMAS,G.R. :General Public Utilities - GPU Service Corp.  
LONG,B. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/07/26, 37pp. ,48X:19445-244,ODI:B&W 0693 ,TN:GB11

307110772 Excerpt from rept on TMI-2 investigation re failure to  
maintain full HPI flow.Pp 42-51.

\* :Babcock & Wilcox Co.  
: :  
DATE ISS:82/05/20, 10pp. ,48X:19447-186,ODI:B&W 0708 ,TN:GB\*

307090370 Graph of RC-3B-PT1.

\* :Babcock & Wilcox Co.  
: :  
DATE ISS:79/03/27, 1p. ,48X:19492-192,ODI:B&W 0755 ,TN:GB11

307120339 "Reactor Coolant System Pressure."

\* :Babcock & Wilcox Co.  
: :  
DATE ISS:79/03/28, 1p. ,48X:19456-344,ODI:B&W 0756 ,TN:GB11

U. S. NUCLEAR REGULATORY COMMISSION  
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307090372 Rev 1 to preliminary annotated sequence of events on 790328  
at TMI-2.

\* :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:79/07/14, 50pp. ,48X:19492-193,ODI:B&W 0758 ,TN:GB\*

307120716 Comments on B&W users meeting in Washington, DC on 761117-18.  
Minutes encl.

MILLER, G.P. :Metropolitan Edison Co.  
:Babcock & Wilcox Co.  
DATE ISS:76/11/23, 12pp. ,48X:19457-250,ODI:B&W 0784 ,TN:GB\*

307130332 Operational log for 751004 for RCS temp, pressure & boron  
concentration.

ADEK, C. :Metropolitan Edison Co.  
:  
DATE ISS:78/10/04, 3pp. ,48X:19500-360,ODI:B&W 0787 ,TN:GB\*

307130334 "Oconee=Once=Through Steam Generator Tube Problems."

\* :Babcock & Wilcox Co.  
:  
DATE ISS:77/11/15, 38pp. ,48X:19501-017,ODI:B&W 0794 ,TN:GB\*

307090145 Summary of 781108 telcon w/Toledo Edison re cooldown.

\* :Babcock & Wilcox Co.  
:  
DATE ISS:76/11/08, 2pp. ,48X:19453-286,ODI:B&W 0795 ,TN:GB\*

307090162 Resume of JW Garrison.

GARRISON, J.W. :Metropolitan Edison Co.  
:  
DATE ISS:82/06/09, 1p. ,48X:19454-057,ODI:B&W 0830 ,TN:GB\*

U. S. NUCLEAR REGULATORY COMMISSION  
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307090202 Requests contract w/B&W for Simulator Training be executed as soon as possible. Requalification training for operators scheduled to start on 750324.

HERBEIN, J.G. : Metropolitan Edison Co.  
ARNOLD, R.C. : Metropolitan Edison Co.  
DATE ISS: 75/03/03, 1p. , 48X:19454-234, ODI: B&W 0841 , TN: GB\*

307090217 Forwards proposed amend to B&W simulator training contract. Amend reduces base scope effort to 80 h & operators from each unit will have refresher training every other year. Recommends approval, w/o encl.

ISAGGARIS, A. : Metropolitan Edison Co.  
ARNOLD, R.C. : Metropolitan Edison Co.  
DATE ISS: 76/06/30, 1p. , 48X:19454-235, ODI: B&W 0842 , TN: GB\*

307090226 Notes re rumors concerning pass or fail on reactor operator exams.

\* : Metropolitan Edison Co.  
: ;  
DATE ISS: 82/07/11, 2pp. , 48X:19454-240, ODI: B&W 0846 , TN: GB\*

307080567 Transcript of third meeting of President's Commission on Accident at TMI 790531 morning session in Washington, DC. Pp 1-374.

\* : President's Commission on the Accident at Three Mile Island  
: ;  
DATE ISS: 79/05/31, 727pp. , 48X:19406-174, ODI: B&W 0863 , TN: GB\*

307120103 Resume of ML deers.

BEERS, M.L. : Metropolitan Edison Co.  
: ;  
DATE ISS: 79/07/30, 4pp. , 48X:19458-174, ODI: B&W 0889 , TN: GB\*

307120148 Advises that committee should be formed for purpose of centralizing receipt, review, distribution & assigning followup task re LERs, IE bulletins, clearing house repts, ROS, etc.

ZECHMAN, R.W. : Metropolitan Edison Co.  
SEELINGER, J. : Metropolitan Edison Co.  
DATE ISS: 79/07/03, 1p. , 48X:19459-028, ODI: B&W 0894 , TN: GB\*



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307120151 Rev 19 to Operating Procedure 2102-1.1 "Unit Heatup."

WARREN, R.P. : Metropolitan Edison Co.

DATE ISS: 79/03/05, 53pp. , 48x:19459-057, ODI: B&W 0895 , TN: GB\*

307090373 Summary of B&W Users Group 771115-16 meetings in Washington, DC re once-through steam generator tube leak control rod drive & stator problems, refueling & improvement items.

RODRIGUEZ, R.J. : Sacramento Municipal Utility District

: Sacramento Municipal Utility District

DATE ISS: 77/11/21, 41pp. , 48x:19402-022, ODI: B&W 1000 , TN: GB11

307130380 Forwards minutes of B&W Users Group 771115-16 meetings in Washington, DC re Uconee once-through steam generator tube problem, refueling experience, reactor coolant pump seals & nuclear parts ctr.

COBB, W.A. : Babcock & Wilcox Co.

HERBEIN, J.G. : Metropolitan Edison Co.

DATE ISS: 78/02/03, 32pp. , 48x:19501-177, ODI: B&W 1001 , TN: GB11

307090377 Handwritten summary of B&W Users Group 771115 meeting.

\* : Babcock & Wilcox Co.

: Babcock & Wilcox Co.

DATE ISS: 77/11/15, 29pp. , 48x:19402-119, ODI: B&W 1002 , TN: GB11

307110784 Excerpt from Jul 1978 Nuclear Power Experience.

\* : Babcock & Wilcox Co.

DATE ISS: 78/07/31, 2pp. , 48x:19480-017, ODI: B&W 4000 , TN: GB11

307110790 Notes on miscellaneous events.

\* : Babcock & Wilcox Co.

DATE ISS: 78/07/31, 1p. , 48x:19480-039, ODI: B&W 4003 , TN: GB11

U. S. NUCLEAR REGULATORY COMMISSION  
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307120794 Graph of narrow-range pressure stripchart (A loop).

\* :Babcock & Wilcox Co.  
:;  
DATE ISS:79/03/28, 1p. ,48x:19462-065,ODI:B&W 4011 ,TN:GB\*

307120831 Graphs re 781107 variable temp-pressure trip, damaged turbine bypass valve.

\* :Babcock & Wilcox Co.  
:;  
DATE ISS:83/07/11, 1p. ,48x:19496-046,ODI:B&W 4060 ,TN:GB11

307120835 Graphs re 781202 overfeeding of steam generators.

\* :Babcock & Wilcox Co.  
:;  
DATE ISS:83/07/11, 1p. ,48x:19496-047,ODI:B&W 4061 ,TN:GB11

307120841 Graphs re event comparison of 780423 failed open steam safety valve & 790328 accident concerning stuck open PORV.

\* :Babcock & Wilcox Co.  
:;  
DATE ISS:83/07/11, 1p. ,48x:19496-048,ODI:B&W 4062 ,TN:GB11

307120849 Graphs re 780329 failed open PORV.

\* :Babcock & Wilcox Co.  
:;  
DATE ISS:83/07/11, 1p. ,48x:19496-049,ODI:B&W 4063 ,TN:GB11

307120856 Graphs re event comparison of 780329 failed open PORV & 790328 accident concerning stuck open PORV.

\* :Babcock & Wilcox Co.  
:;  
DATE ISS:83/07/11, 1p. ,48x:19496-050,ODI:B&W 4064 ,TN:GB11

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30712086? Graphs re 790328 stuck open PORV.

\* :Babcock & Wilcox Co.  
: DATE ISS:83/07/11, 1p. ,48X:19496-051,ODI:B&W 4065 ,TN:GB11

307130031 Portions of Chapter 1 to 10CFR50, Title 10, "Emergency."

\* :NRC - No Detailed Affiliation Given  
: DATE ISS:83/07/11, 6pp. ,48X:19496-240,ODI:B&W 4974 ,TN:GB\*

307130040 Transcript of President Commission public hearing on  
790530 in Washington, DC. Pp 113-210.

\* :Commissioners  
: DATE ISS:79/05/30, 100pp. ,48X:19496-246,ODI:B&W 4113 ,TN:GB\*

307120307 Resume of EA Womack.

WOMACK, E.A. :Babcock & Wilcox Co.  
: DATE ISS:78/08/31, 2pp. ,48X:19512-287,ODI:GPU 0001 ,TN:GB\*

307010262 Rev 19 to "Policies & Procedures."

\* :Babcock & Wilcox Co.  
: DATE ISS:80/12/08, 4pp. ,48X:19179-122,ODI:GPU 0002 ,TN:GB\*

307010265 Job description for section manager, plant design section.

ROY, D.H. :General Public Utilities - GPU Service Corp.  
: DATE ISS:75/02/27, 1p. ,48X:19179-126,ODI:GPU 0003 ,TN:GB\*

U. S. NUCLEAR REGULATORY COMMISSION  
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307020009 Preliminary proposal, "Utilization of Plant Operating Data  
to 177 Fuel Assembly B&W Owners."

\* :Babcock & Wilcox Co.  
:;  
DATE ISS:80/12/10, 19pp. ,48X:19228-274,ODI:GPU 0009 ,TN:GB\*

307020183 "Quick Look Rept for Reactor Trip/Overspeed Turbine Trip  
which Occurred at 13:24:21 L,790306 at TMI-2."

NEXTISS,M.E. :Babcock & Wilcox Co.  
:NRC - No Detailed Affiliation Given  
DATE ISS:79/08/22, 7pp. ,48X:19228-295,ODI:GPU 0009 ,TN:GB\*

307020011 Summary of technical review committee 790629 meeting re  
draft EPRI TMI-2 sequence of events.

BALL,R.M. :Babcock & Wilcox Co.  
KULYNYCH,G.E. :Babcock & Wilcox Co.  
DATE ISS:79/06/26, 6pp. ,48X:19228-302,ODI:GPU 0010 ,TN:GB\*

307020012 Requests review of encl draft technical review committee  
interim rept,for critique at 790530 meeting.

BALL,R.M. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:79/05/25, 3pp. ,48X:19228-308,ODI:GPU 0011 ,TN:GB\*

307120315 Responds to request for lessons learned from TMI incident.

DUNN,B.M. :Babcock & Wilcox Co.  
WOMACK,E.A. :Babcock & Wilcox Co.  
DATE ISS:79/06/07, 10pp. ,48X:19512-293,ODI:GPU 0012 ,TN:GB\*

307020014 "Abnormal Transient Operating Guidelines."

WOMACK,E.A. :General Public Utilities - GPU Service Corp.  
:;  
DATE ISS:80/12/10, 10pp. ,48X:19228-311,ODI:GPU 0013 ,TN:GB\*

U. S. NUCLEAR REGULATORY COMMISSION  
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307020017 "Abnormal Transient Operating Guidelines."

WOMACK, E.A. : General Public Utilities - GPU Service Corp.

DATE ISS: 80/12/10, 3pp., 48X:19228-321, ODI:GPU 0014 , TN:GB\*

307020020 Paper entitled "Abnormal Transient Operating Guidelines Program," presented at nuclear operating experience seminar on 800309-11 in New Orleans, LA.

\* : Babcock & Wilcox Co.

DATE ISS: 80/03/11, 8pp., 48X:19228-324, ODI:GPU 0015 , TN:GB\*

307020024 Lists rules developed for picking event tree paths to analyze. Design success path from initiating event to stable conditions & single failure paths off design success path to stable successful conclusions should be analyzed.

KELLY, J.J. : Babcock & Wilcox Co.

DAVIS, R.B. : Babcock & Wilcox Co.

DATE ISS: 79/10/11, 1p., 48X:19228-332, ODI:GPU 0016 , TN:GB\*

307020028 "Engineering Dept Action Items Addressing Recommendations of B&W Technical Review Committee kept on TMI-2," status rept.

JONES, W.F. : General Public Utilities - GPU Service Corp.

: NRC - No Detailed Affiliation Given

DATE ISS: 80/01/28, 3pp., 48X:19228-333, ODI:GPU 0017 , TN:GB\*

307020036 Advises that B&W has been authorized to proceed w/abnormal transient operating guidelines program. Operating plants Owners Group & NRC reviewed program. Long-term & short-term requirements discussed.

WOMACK, E.A. : Babcock & Wilcox Co.

ROY, D.H. : Babcock & Wilcox Co.

DATE ISS: 79/08/15, 4pp., 48X:19228-353, ODI:GPU 0019 , TN:GB\*

307020047 Comments on draft "Generic Assessment of Feedwater Transients in Reactors Designed by B&W." Rept too lengthy, fails to concentrate on important issues & contains many incorrect misleading statements.

ROSZTOCZY, Z.R. : Analysis Branch

TEDESCO, R.L. : Assistant Director for Reactor Safety

DATE ISS: 79/04/25, 5pp., 48X:19229-021, ODI:GPU 0022 , TN:GB11

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- 307020050 Assigns section managers for candidate tasks for lessons learned from TMI-2 incident, for which engineering has responsibility. Tasks include instrumentation & control human engineering & status monitoring.  
ROY, D.H. :Babcock & Wilcox Co.  
FAHLAND, F.R. :Babcock & Wilcox Co.  
DATE ISS:79/06/14, 6pp. ,48X:19229-026, ODI:GPU 0023 ,TN:GB\*
- 307020054 "Operating Plant Design Review Board."  
  
WOMACK, E.A. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/06/18, 2pp. ,48X:19229-032, ODI:GPU 0024 ,TN:GB\*
- 307020064 "Verification of As-built Input."  
  
WOMACK, E.A. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/06/18, 2pp. ,48X:19229-034, ODI:GPU 0025 ,TN:GB\*
- 307020083 Discusses B&W draft proposal re whether realistic B&W sys analyses would result in water conditions at safety & relief valve inlet & if valve failure occurred, whether similar B&W in-plant event would result in unacceptable plant condition.  
NEWTUN, D.G. :Babcock & Wilcox Co.  
BANWARTH, C.S. :Babcock & Wilcox Co.  
DATE ISS:80/03/12, 10pp. ,48X:19229-036, ODI:GPU 0026 ,TN:GB\*
- 307120317 "Events That Initiate PORV Operation."  
  
\* :Babcock & Wilcox Co.  
DATE ISS:81/01/26, 8pp. ,48X:19512-304, ODI:GPU 0029 ,TN:GB\*
- 307020096 Requests review of encl 790509 memo on opening or failing open of PORV on loss of power to valve or electrical circuitry controlling valve.  
  
WOMACK, E.A. :Babcock & Wilcox Co.  
CARLTON, J.D. :Babcock & Wilcox Co.  
DATE ISS:79/05/15, 2pp. ,48X:19229-056, ODI:GPU 0030 ,TN:GB\*



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307020100 "Actions Needed Based on Lessons from TMI-2."

\* :General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:79/06/07, 3pp. ,48x:19229-058,ODI:GPU 0031 ,TN:GB\*

307210334 Forwards invention disclosure record prepared for patent dept.

BRAUMILLER,R.E.:Babcock & Wilcox Co.  
BATEMAN,E.J. :Babcock & Wilcox Co.  
DATE ISS:79/10/11, 8pp. ,48x:19694-213,ODI:GPU 0034 ,TN:GB\*

307010207 Responds to TMI-2 concerns task description. Objective is to provide systematically developed response to various B&W sys features identified as design deficiencies. Dynamic coupling between once through steam generator & turbine considered.

\* :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:81/01/27, 2pp. ,48x:19178-124,ODI:GPU 0035 ,TN:GB\*

307010212 Submits TMI-2 concerns task description re definition & implementation of hardware &/or procedures that will enhance post-trip control of B&W NSS.

\* :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:81/01/27, 2pp. ,48x:19178-126,ODI:GPU 0036 ,TN:GB\*

307120943 Discusses review of SMUD rapid cooldown transient to determine what could have or could be done in B&W NSSS/plant design to reduce likelihood or limit consequences of future event.

WOMACK,E.A. :Babcock & Wilcox Co.  
KARRASCH,B.A. :Babcock & Wilcox Co.  
DATE ISS:78/08/21, 1p. ,48x:19512-312,ODI:GPU 0038 ,TN:GB\*

307120320 Summarizes recommendation for quick look evaluation of all reactor trips.

WOMACK,E.A. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:79/08/30, 11pp. ,48x:19512-313,ODI:GPU 0039 ,TN:GB\*

U. S. NUCLEAR REGULATORY COMMISSION  
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307120326 Lists questions raised from TMI-2 accident re 177 & 205 FA plants total loss of main feedwater flow.

ROY, D.H. :Babcock & Wilcox Co.  
WOMACK, E.A. :Babcock & Wilcox Co.  
DATE ISS:79/04/05, 5pp. ,48X:19512-325,ODI:GPU 0040 ,TN:GB\*

307010232 Resume of NS Elliott.

ELLIOTT, N.S. :Babcock & Wilcox Co.  
DATE ISS:81/02/05, 1p. ,48X:19178-130,ODI:GPU 0041 ,TN:GB\*

307010236 Requests details of proposed training programs to determine what, if any, changes should be made in present requirements re cold applicant participants. List indicating degree of simulation for reactor core should also be submitted.

COLLINS, P.F. :Atomic Energy Commission - Deputy Director for Reactor Proje  
ELLIOTT, N.S. :Babcock & Wilcox Co.  
DATE ISS:72/12/15, 2pp. ,48X:19178-131,ODI:GPU 0042 ,TN:GB\*

307010240 Advises that proposed training program to establish cold eligibility for individuals who successfully complete training program appropriate.

COLLINS, P.F. :Atomic Energy Commission - Deputy Director for Reactor Proje  
ELLIOTT, N.S. :Babcock & Wilcox Co.  
DATE ISS:73/03/19, 1p. ,48X:19178-133,ODI:GPU 0043 ,TN:GB\*

307010243 Advises that revised program will continue to establish cold eligibility for individuals who successfully complete training programs.

COLLINS, P.F. :Atomic Energy Commission - Deputy Director for Reactor Proje  
ELLIOTT, N.S. :Babcock & Wilcox Co.  
DATE ISS:77/05/03, 1p. ,48X:19178-134,ODI:GPU 0044 ,TN:GB\*

307010245 Lists events that initiate PORV operation.

\* :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:81/02/05, 1p. ,48X:19178-135,ODI:GPU 0045 ,TN:GB\*

U. S. NUCLEAR REGULATORY COMMISSION  
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307010248 Discusses issues to be included in suggested list of issues to be undertaken for improvement of NPGD, NSS stds & fuel proposals should be overhauled. Engineering talent underutilized.

ELLIOTT, N.S. :Babcock & Wilcox Co.

OLDS, G.M. :Babcock & Wilcox Co.

DATE ISS:78/12/06, 3pp. ,48x:19178-137, ODI:GPU 0047 ,TN:GB\*

307010250 Advises that TL Book & JA Lind are training personnel authorized to provide required signatures for training on instructions for transmittal.

ELLIOTT, N.S. :Babcock & Wilcox Co.

HALLMAN, D.F. :Babcock & Wilcox Co.

DATE ISS:79/08/03, 2pp. ,48x:19178-140, ODI:GPU 0048 ,TN:GB\*

307010251 Clarifies internal training & qualification programs. Program is NPGD program to improve technical qualification of engineering, WA & Customer Svc Dept personnel.

ELLIOTT, N.S. :Babcock & Wilcox Co.

MONTGOMERY, T.W. :Babcock & Wilcox Co.

DATE ISS:79/10/05, 2pp. ,48x:19178-144, ODI:GPU 0051 ,TN:GB\*

307010247 Sheet of graph paper w/time indications.

\* :Babcock & Wilcox Co.

DATE ISS:81/02/11, 1p. ,48x:19178-153, ODI:GPU 0056 ,TN:GB\*

307070493 Discusses need for addl customer guidance on high pressure injection operation. Two major events at Toledo site involving depressurization & bypassed high pressure warrant addl attention.

KELLY, J.J. :Babcock & Wilcox Co.

:Babcock & Wilcox Co.

DATE ISS:77/11/01, 1p. ,48x:19337-078, ODI:GPU 0063 ,TN:GB\*

307070510 "Nuclear Training Programs."

\* :Babcock & Wilcox Co.

DATE ISS:83/07/07, 76pp. ,48x:19337-082, ODI:GPU 0066 ,TN:GB\*

U. S. NUCLEAR REGULATORY COMMISSION  
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307070555 Submits draft training svcs response/responsibilities identified in transient response of B&W designed reactors.

ELLIOTT, N.S. :Babcock & Wilcox Co.  
KOSIBA, R.E. :Babcock & Wilcox Co.  
DATE ISS:80/04/08, 3pp. ,48X:19337-227,ODI:GPU 0073 ,TN:GB\*

307070558 Position description for section manager training svcs & special projects for Nuclear Svc Dept.

ELLIOTT, N.S. :Babcock & Wilcox Co.  
:  
DATE ISS:77/05/09, 2pp. ,48X:19337-230,ODI:GPU 0074 ,TN:GB\*

307070567 Organization on chart for Nuclear Svc Dept, Nuclear Power Generation Div.

\* :Babcock & Wilcox Co.  
:  
DATE ISS:81/03/12, 2pp. ,48X:19337-248,ODI:GPU 0077 ,TN:GB\*

307070575 Notifies of TECO pressurizer level 781127 meeting to discuss design & requirements for Toledo auxiliary feedwater operation/small LOCA/pressurizer level. Agenda encl.

SWANSON, E.W. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:78/11/22, 4pp. ,48X:19337-253,ODI:GPU 0081 ,TN:GB\*

307070576 Summarizes 781127 meeting w/TECO & B&W re design & requirements for DB-1 auxiliary feedwater sys.

CARTIN, L.R. :Babcock & Wilcox Co.  
KARRASCH, E.A. :Babcock & Wilcox Co.  
DATE ISS:78/11/29, 16pp. ,48X:19337-257,ODI:GPU 0082 ,TN:GB\*

307080040 Notifies of investigation re evaluation of loss of pressurizer level indication at Davis Bessie. Requests info whether similar events occurred at B&W plant previously.

FOSTER, J.M. : Region 3, Chicago, Office of the Director  
TAYLOR, J.H. :Babcock & Wilcox Co.  
DATE ISS:79/01/31, 3pp. ,48X:19337-273,ODI:GPU 0083 ,TN:GB\*

U. S. NUCLEAR REGULATORY COMMISSION  
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307080051 Summarizes 790214 meeting w/NRC, Toledo Edison, Met Ed, SMUD & Arkansas Power & Light in Lynchburg to discuss loss of pressurizer level indication at Davis Bessie Unit 1.

WILLSE, J.T. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:79/03/09, 3pp. ,48X:19337-276, ODI:GPU 0084 ,TN:GB\*

307080059 Reactor operator hand written notes during TMI-2 incident on 790328.

\* :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:79/03/28, 2pp. ,48X:19337-315, ODI:GPU 0096 ,TN:GB\*

307120822 Notes from Wednesday & Thursday re event.

\* :Babcock & Wilcox Co.  
:  
DATE ISS:81/03/20, 4pp. ,48X:19464-178, ODI:GPU 0097 ,TN:GB\*

307080628 Comments on 800418 emergency response procedure & B&W organization. Emergency response team should work in two phases consisting of diagnostic &/or immediate remedy.

DUNN, B.M. :Babcock & Wilcox Co.  
STRAUB, R. :Babcock & Wilcox Co.  
DATE ISS:80/04/23, 2pp. ,48X:19337-318, ODI:GPU 0098 ,TN:GB\*

307080070 Requests team of analysts re be assembled to expeditiously analyze response of B&W 177 plants w/ lowered & raised loop following loss of feedwater plus relief valve failure.

WUMACK, E.A. :Babcock & Wilcox Co.  
DUNN, B.M. :Babcock & Wilcox Co.  
DATE ISS:79/04/06, 1p. ,48X:19337-325, ODI:GPU 0101 ,TN:GB\*

307080089 Discusses preparation of operating guidelines for small breaks in RCPB negotiated on 790426 & 27. Task force convened to prepare operating guidelines.

ROY, D.H. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:79/04/28, 3pp. ,48X:19338-014, ODI:GPU 0105 ,TN:GB\*

U. S. NUCLEAR REGULATORY COMMISSION  
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307080092 Submits handwritten notes re small break indications.

\* :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:81/03/24, 18pp. ,48X:19338-017,ODI:GPU 0106 ,TN:GB\*

307120834 Forwards TVA ltr in response to ACRS concerns re small break LUCA.

\* :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:78/05/25, 3pp. ,48X:19464-222,ODI:GPU 0111 ,TN:GB11

307020170 Forwards writeups for small break LOCA auxiliary feed requirements prepared w/B Dunn.

CARLTON, J.D. :Babcock & Wilcox Co.  
WOMACK, E.A. :Babcock & Wilcox Co.  
DATE ISS:79/05/17, 3pp. ,48X:19225-068,ODI:GPU 0113 ,TN:GB\*

307120838 Submits two paragraphs describing safety concerns identified by ECCS Analysis re RELOAD contracts.

DUNN, B.M. :Babcock & Wilcox Co.  
DUERSON, S.H. :Babcock & Wilcox Co.  
DATE ISS:78/01/18, 3pp. ,48X:19464-229,ODI:GPU 0114 ,TN:GB\*

307020173 Forwards "Activities Rept for ECCS Analysis Unit for Apr 1978."

DUNN, B.M. :Babcock & Wilcox Co.  
ROY, D.H. :Babcock & Wilcox Co.  
DATE ISS:78/05/02, 5pp. ,48X:19225-071,ODI:GPU 0115 ,TN:GB\*

307120847 "Jan Activities Rept for ECCS Analysis."

DUNN, B.M. :Babcock & Wilcox Co.  
:  
DATE ISS:79/01/31, 6pp. ,48X:19464-235,ODI:GPU 0117 ,TN:GB\*



U. S. NUCLEAR REGULATORY COMMISSION  
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307020178 Discusses 790515 telcon w/NRC re need for analyses of small breaks w/reactor coolant pumps running. Analysis for worst case break w/pumps running, AFW available, w/normal App K assumptions requested by NRC.

JONES, R.C. :Babcock & Wilcox Co.

TAYLOR, J.H. :Babcock & Wilcox Co.

DATE ISS:79/06/07, 1p. ,48x:19225-077, ODI:GPU 0118 ,TN:GB\*

307020181 Telcon involving EA Womack & NRC re further insight into B&W thinking re addl analytical work. Further work requested to bring LOCA analyses into conformance w/App K.

TAYLOR, J.H. :Babcock & Wilcox Co.

:Babcock & Wilcox Co.

DATE ISS:79/06/08, 2pp. ,48x:19225-078, ODI:GPU 0119 ,TN:GB\*

307120851 Summary of 790606 meeting re preliminary safety concerns on small break LOCA w/engineering change proposal.

BAILEY, W.A. :Babcock & Wilcox Co.

TAYLOR, J.H. :Babcock & Wilcox Co.

DATE ISS:79/06/08, 8pp. ,48x:19464-241, ODI:GPU 0120 ,TN:GB\*

307120854 Submits small break guidelines.

CARTIN, L.R. :Babcock & Wilcox Co.

WOMACK, E.A. :Babcock & Wilcox Co.

DATE ISS:79/06/22, 50pp. ,48x:19464-249, ODI:GPU 0121 ,TN:GB\*

307120859 Submits status rept re Toledo Edison attempts to resolve NRC concerns re auxiliary feedwater actuation & control.

CARTIN, L.R. :Babcock & Wilcox Co.

:Babcock & Wilcox Co.

DATE ISS:78/12/19, 10pp. ,48x:19464-300, ODI:GPU 0122 ,TN:GB\*

307020189 Comments on B&W comprehensive business plan.

ANDERSON, G.E. :Babcock & Wilcox Co.

DUNN, B.M. :Babcock & Wilcox Co.

DATE ISS:79/11/21, 2pp. ,48x:19225-083, ODI:GPU 0123 ,TN:GB\*

U. S. NUCLEAR REGULATORY COMMISSION  
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307020192 Discusses draft memo by E Anderson re types of technical training which should be available for B&W personnel. Basic courses in field work should be offered on continuous basis.

DUNN, B.M. :Babcock & Wilcox Co.  
PARKS, C.E. :Babcock & Wilcox Co.  
DATE ISS:80/04/07, 3pp. ,48X:19225-085,ODI:GPU 0124 ,TN:GB\*

307020194 List of problems that may develop in ECCS in next few yrs. Addl comments provided B&W personnel.

\* :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:81/04/07, 9pp. ,48X:19225-088,ODI:GPU 0125 ,TN:GB\*

307120061 Resume of JF Walters.

WALTERS, J.F. :Babcock & Wilcox Co.  
:  
DATE ISS:81/04/13, 2pp. ,48X:19464-311,ODI:GPU 0126 ,TN:GB\*

307020199 Verifies verbal instructions that all future instructions to operating plants re how plants should be operated during normal or abnormal conditions must be reviewed by Training prior to customer transmittal.

HALLMAN, D.F. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:79/07/30, 1p. ,48X:19225-098,ODI:GPU 0127 ,TN:GB\*

307020202 Summarizes various problem areas that require addl investigation to assure position in svc field as competent & aware engineers available for master svc work as well as contractual work.

WALTERS, F. :Babcock & Wilcox Co.  
HALLMAN, D. :Babcock & Wilcox Co.  
DATE ISS:78/12/22, 3pp. ,48X:19225-099,ODI:GPU 0128 ,TN:GB\*

307020206 Concludes FR Fahland proposed sys for handling LERs workable & useful. Mechanism to obtain more info than normally included in LERs from non-B&W plants needed for those plants selected for detailed evaluation.

HALLMAN, D.F. :Babcock & Wilcox Co.  
KANE, E.R. :Babcock & Wilcox Co.  
DATE ISS:79/07/27, 1p. ,48X:19225-102,ODI:GPU 0129 ,TN:GB\*

U. S. NUCLEAR REGULATORY COMMISSION  
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307020209 Defines specific tasks to be performed re site problem repts for analysis & resolution from all reactor trips on operating plants. Suggested format for plotted data & event synopsis to complete quick look rept encl.

WALTERS, J.F. :Babcock & Wilcox Co.

:Babcock & Wilcox Co.

DATE ISS:79/10/10, 4pp. ,48X:19225-103,ODI:GPU 0130 ,TN:GB\*

307020214 Request for documentation re any transient, incident, accident or event at TMI-2 which commenced on or about 790328 & re any equipment or sys at TMI-1.

\* :Kaye, Scholer, Fierman, Hays & Handler

DATE ISS:80/05/15, 9pp. ,48X:19225-112,ODI:GPU 0136 ,TN:GB\*

307020215 Resume of RE Kosiba.

KOSIBA, R.E. :Babcock & Wilcox Co.

DATE ISS:79/07/02, 2pp. ,48X:19225-121,ODI:GPU 0137 ,TN:GB11

307020230 Responds to 781005 memo re course taken re poor availability of B&W plants. Determining design fixes for known problems first priority commitment. Resources & direction between vendor divs & util necessary to maintain effectiveness.

MACMILLAN, J.M. :Babcock & Wilcox Co.

VANNUY, W.M. :Babcock & Wilcox Co.

DATE ISS:78/10/27, 2pp. ,48X:19225-140,ODI:GPU 0141 ,TN:GB\*

307020242 Requests input re statement from 781027 memo re products availability for inclusion in solid paragraph.

KOSIDA, R.E. :Babcock & Wilcox Co.

ULDS, G.M. :Babcock & Wilcox Co.

DATE ISS:79/01/08, 3pp. ,48X:19225-147,ODI:GPU 0143 ,TN:GB\*

307020245 Forwards results of approach to consider elements making up key issue & policy change definitions judged to contribute most to upgrading availability performance. Viewgraphs encl.

KOSIBA, R.E. :Babcock & Wilcox Co.

MACMILLAN, J.H. :Babcock & Wilcox Co.

DATE ISS:79/01/18, 29pp. ,48X:19225-150,ODI:GPU 0144 ,TN:GB\*

U. S. NUCLEAR REGULATORY COMMISSION  
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307020246 Submits monthly activities rept for Feb 1979.

OLDS, G.M. :Babcock & Wilcox Co.  
KUSIBA, R.E. :Babcock & Wilcox Co.  
DATE ISS:79/03/15, 5pp. ,48x:19225-179, ODI:GPU 0145 ,TN:GB\*

307020248 Advises that established vehicle for communicating understanding of how NSSS behaves when responding to various incidents necessary per 790416 discussion of ACRS session on TMI.

KUSIBA, E.E. :Babcock & Wilcox Co.  
WASCHER, R.E. :Babcock & Wilcox Co.  
DATE ISS:79/04/17, 1p. ,48x:19225-184, ODI:GPU 0146 ,TN:GB\*

307020252 Transcript of President's Commission on Accident at TMI  
790718 public hearing in Washington, DC.

\* :President's Commission on the Accident at Three Mile Island  
DATE ISS:79/07/18, 50pp. ,48x:19225-187, ODI:GPU 0149 ,TN:GB\*

307020001 Resume of LM Favret.

FAVRET, L.M. :Babcock & Wilcox Co.  
DATE ISS:81/05/11, 1p. ,48x:19189-272, ODI:GPU 0164 ,TN:GB\*

307020002 Submits info re contract w/Met Ed consisting of NSSS described in 660815 Proposal A4-73.

HELLER, F.C. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:66/12/07, 6pp. ,48x:19189-273, ODI:GPU 0165 ,TN:GB\*

307020003 Forwards priced & executed copy of contract document for nuclear steam sys. Unpriced, unexecuted copies of document forwarded w/670524 ltr. w/o encl.

KAZAR, R.V. :Metropolitan Edison Co.  
:Metropolitan Edison Co.  
DATE ISS:67/05/31, 1p. ,48x:19189-279, ODI:GPU 0166 ,TN:GB\*

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307020004 Notices of 660225 meeting w/utills, Saxton, Pickard, Lowe & Assoc, Nuclear Consultants, Gilbert Assoc, Inc & GF Trowbridge in Reading, PA.

SMITH, C.T. :Babcock & Wilcox Co.  
BEHR, R.K. :Babcock & Wilcox Co.  
DATE ISS:66/02/14, 1p. ,48x:19189-280, ODI:GPU 0167 ,TN:GB\*

307020005 Notices of 660225 meeting in Reading, PA w/Met Ed re preliminary bid request document, condensed presentation of of PWR plant design, Summary of proof testing of components & various fuel purchase proposals.

SMITH, C.T. :Babcock & Wilcox Co.  
BEHR, R.K. :Babcock & Wilcox Co.  
DATE ISS:66/02/16, 3pp. ,48x:19189-281, ODI:GPU 0168 ,TN:GB\*

307020006 Submits comments on 660225 Project Steering Committee meeting, per 660216 discussion w/Met Ed re meeting attendees.

SMITH, C.T. :Babcock & Wilcox Co.  
BEHR, R.K. :Babcock & Wilcox Co.  
DATE ISS:66/02/18, 3pp. ,48x:19189-284, ODI:GPU 0169 ,TN:GB\*

307020008 Summarizes 660520 meeting w/UE&C & J&M re purchaser final specs & influence on engineering-estimating-bidding done by UE&C & J&M.

FAVRET, L.M. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:66/05/23, 3pp. ,48x:19189-287, ODI:GPU 0170 ,TN:GB\*

307020010 Draft of "Design Criteria Nuclear Power Plant for Met Ed Co, Reading, PA."

\* :Babcock & Wilcox Co.  
:  
DATE ISS:65/11/26, 5pp. ,48x:19189-290, ODI:GPU 0171 ,TN:GB\*

307020013 Forwards "Design Criteria-Nuclear Power Plant for Met Ed Co, Reading, PA," supplementing 650907 ltr re schedule for installation, w/o encl.

FAVRET, L.M. :Babcock & Wilcox Co.  
HELLER, F.C. :Babcock & Wilcox Co.  
DATE ISS:65/12/03, 1p. ,48x:19189-295, ODI:GPU 0172 ,TN:GB\*

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- 307020015 Submits marked-up comments on review of "General Instructions & Approach" portion of design criteria. Typical scope of supply for NSSS w/listing of terminal points encl. w/o encl.  
FAVRET, L.M. :Babcock & Wilcox Co.  
HELLER, F.C. :Babcock & Wilcox Co.  
DATE ISS:65/12/30, 3pp. ,48X:19189-296,ODI:GPU 0173 ,TN:GB\*
- 307020018 Informs that 651203 design criteria completed, per comments on preliminary rept "Design Criteria-Nuclear Power Plant for Met Ed, Co, Reading, PA." Design criteria to be reviewed in depth.  
HELLER, F.C. :Babcock & Wilcox Co.  
FAVRET, L.M. :Babcock & Wilcox Co.  
DATE ISS:66/02/04, 1p. ,48X:19189-299,ODI:GPU 0174 ,TN:GB\*
- 307020021 Submits comments on preliminary bid request for nuclear power plant issued by Met Ed, covering proposal to build in PA.  
HELLER, F.C. :Babcock & Wilcox Co.  
FAVRET, L.M. :Babcock & Wilcox Co.  
DATE ISS:66/02/08, 4pp. ,48X:19189-300,ODI:GPU 0175 ,TN:GB\*
- 307020023 Forwards specs for proposed Met Ed nuclear installation. w/o encl.  
HELLER, F.C. :Babcock & Wilcox Co.  
FAVRET, L.M. :Babcock & Wilcox Co.  
DATE ISS:66/05/09, 1p. ,48X:19189-304,ODI:GPU 0176 ,TN:GB\*
- 307020026 Extends invitation for B&W to bid on plant. Attention called to bidding conditions on Page II-1 of proposal.  
BREITINGER, W.M.:Metropolitan Edison Co.  
HELLER, F.J. :Babcock & Wilcox Co.  
DATE ISS:66/05/11, 1p. ,48X:19189-305,ODI:GPU 0177 ,TN:GB\*
- 307020030 Proposal to Met Ed Co for NSSS.  
\* :Babcock & Wilcox Co.  
: :  
DATE ISS:65/07/01, 324pp. ,48X:19189-306,ODI:GPU 0178 ,TN:GB\*



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- 307020033 Summary of 660930 meeting w/utills & Gilbert Assoc, Inc in Reading, PA re problems concerning B&W responsibility for licensing & other conditions in bid for hardware under Alternates A & B.  
HELLER, F.C. :Babcock & Wilcox Co.  
                  :Babcock & Wilcox Co.  
DATE ISS:66/10/06, 8pp. ,48X:19190-270,ODI:GPU 0179 ,TN:GB\*
- 307020035 Forwards draft summary of 660930 & 661012 discussions of proposal. Review requested.  
  
HEIDING, R.E. :Metropolitan Edison Co.  
HELLER, F.C. :Babcock & Wilcox Co.  
DATE ISS:66/10/12, 6pp. ,48X:19190-278,ODI:GPU 0180 ,TN:GB\*
- 307020038 Forwards memo of 660930 & 1012 meetings w/util re limits of liability agreements. Meeting of 660930 discussed "A" bid.  
  
ROWAND, W.H. :Babcock & Wilcox Co.  
WHITE, G.S. :Babcock & Wilcox Co.  
DATE ISS:66/10/13, 1p. ,48X:19190-283,ODI:GPU 0181 ,TN:GB\*
- 307020041 Summary of 661027 meeting w/B&W, GAI, NUS Corp, Pickard, Lowe & Assoc & SNEC to discuss topics re rod fuel design, core internal & pressure vessel designs & core thermal hydraulics.  
COUCHMAN, D.L. :Metropolitan Edison Co.  
                  :Metropolitan Edison Co.  
DATE ISS:66/11/04, 9pp. ,48X:19190-284,ODI:GPU 0182 ,TN:GB\*
- 307020044 Forwards marked-up memo by F Trowbridge summarizing understandings of B&W NSSS proposal for Met Ed. Confirmation requested.  
  
NEIDIG, R.E. :Metropolitan Edison Co.  
FAVRET, L.M. :Babcock & Wilcox Co.  
DATE ISS:66/11/22, 7pp. ,48X:19190-293,ODI:GPU 0183 ,TN:GB\*
- 307020046 Responds to 661230 ltr enclosing proposed changes to F Trowbridge memo on 661116 meeting. Some revs raise questions which need clarification & discussion.  
  
NEIDIG, R.E. :Metropolitan Edison Co.  
FAVRET, L.M. :Babcock & Wilcox Co.  
DATE ISS:67/01/12, 1p. ,48X:19190-300,ODI:GPU 0184 ,TN:GB\*

U. S. NUCLEAR REGULATORY COMMISSION  
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307020048 List of attendees w/corresponding organizations present at  
670117 conference re nuclear project.

\* :Metropolitan Edison Co.  
:  
DATE ISS:67/01/17, 1p. ,48x:19190-301,ODI:GPU 0185 ,TN:GB\*

307020052 Submits response to discussions held during 661027 & 1107  
meetings re terms, conditions & previous correspondence  
concerning proposal re NSSS A4-78 contract terms.

FAVRET, L.M. :Babcock & Wilcox Co.  
NEIDIG, R. :Metropolitan Edison Co.  
DATE ISS:66/11/14, 9pp. ,48x:19190-302,ODI:GPU 0186 ,TN:GB\*

307020056 Forwards revised draft of "Contract for Nuclear Equipment  
for TMI between Met Ed & B&W." Additions underscored &  
deletions bracketed.

CHARNOFF, G. :Shaw, Pittman, Potts & Trowbridge  
FAVRET, L. :Babcock & Wilcox Co.  
DATE ISS:67/01/27, 55pp. ,48x:19190-311,ODI:GPU 0187 ,TN:GB\*

307020059 List of attendees w/corresponding organizations present at  
670215 B&W contract conference.

\* :Babcock & Wilcox Co.  
:  
DATE ISS:67/02/15, 1p. ,48x:19191-003,ODI:GPU 0188 ,TN:GB\*

307020061 List of attendees w/corresponding organizations present at  
670314 contract meeting.

\* :Metropolitan Edison Co.  
:  
DATE ISS:67/03/14, 1p. ,48x:19191-004,ODI:GPU 0189 ,TN:GB\*

307020063 Handwritten summary of meeting w/Sullivan & Cromwell,  
Gilbert Assoc & B&W in Reading, PA re general conditions of  
NSSS.

\* :Metropolitan Edison Co.  
:Metropolitan Edison Co.  
DATE ISS:66/04/12, 2pp. ,48x:19191-005,ODI:GPU 0190 ,TN:GB\*

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307020066 Forwards redraft of B&W equipment contract, reflecting changes agreed upon at 670314 meeting. Certain items left open for further review. W/o encl.

TROWBRIDGE, F. : Shaw, Pittman, Potts & Trowbridge  
NEIDIG, R.M. : Metropolitan Edison Co.  
DATE ISS: 67/03/24, 3pp. , 48x:19191-007, ODI:GPU 0191 , TN:GB\*

307020068 Draft of "Contract for Nuclear Equipment for TMI Between Met Ed & B&W."

\* : Babcock & Wilcox Co.  
:   
DATE ISS: 67/03/24, 60pp. , 48x:19191-010, ODI:GPU 0192 , TN:GB\*

307010199 "Contract for Nuclear Equipment for TMI Nuclear Station Between Met Ed & B&W."

\* : Metropolitan Edison Co.  
:   
DATE ISS: 66/11/15, 60pp. , 48x:19177-103, ODI:GPU 0193 , TN:GB\*

307010203 "Proposal of JCP&L, Vol 1, Nuclear Steam Sys."

\* : Babcock & Wilcox Co.  
:   
DATE ISS: 67/01/31, 292pp. , 48x:19177-164, ODI:GPU 0194 , TN:GB\*

307010206 Summary of 670201 meeting w/B&W in Morristown, NJ re vendor description of NSSS to be supplied & identification of differences in equipment & terms & condition between Met Ed & JCP&L offers.

\* : Jersey Central Power & Light Co.  
: Jersey Central Power & Light Co.  
DATE ISS: 67/02/01, 3pp. , 48x:19178-096, ODI:GPU 0195 , TN:GB\*

307010208 Discusses problems in preparation of JCP&L proposal. JCP&L proposal should be strictly their own w/min cross ref to Met Ed.

\* : Babcock & Wilcox Co.  
: Babcock & Wilcox Co.  
DATE ISS: 67/08/13, 1p. , 48x:19178-099, ODI:GPU 0196 , TN:GB\*

U. S. NUCLEAR REGULATORY COMMISSION  
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307010211 Summary of 670330 meeting w/B&W in Morristown, NJ re joint B&w/JCP&L visits to AEC, validity of 730501 commercial operating date, site discussion turbine size.

\* :Jersey Central Power & Light Co.  
:Jersey Central Power & Light Co.  
DATE ISS:67/03/30, 1p. ,48X:19178-100,ODI:GPU 0197 ,TN:GB\*

307010218 Summary of 670330 meeting w/B&W in Morristown, NJ re turbine & core rating, schedules & B&W commitments, hardware & fuel proposal options.

NEELY, J.V. :Jersey Central Power & Light Co.  
:Jersey Central Power & Light Co.  
DATE ISS:67/04/11, 5pp. ,48X:19178-101,ODI:GPU 0198 ,TN:GB\*

307010224 Notification of 670608 meeting w/JCP&L, B&W & counsel in Morristown, NJ to discuss site criteria & turbine sizing influence on licenseability.

\* :Jersey Central Power & Light Co.  
:Jersey Central Power & Light Co.  
DATE ISS:61/05/12, 1p. ,48X:19178-106,ODI:GPU 0199 ,TN:GB\*

307010282 Summary of 670608 meeting re JCP&L.

GRAY, G. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:67/06/08, 10pp. ,48X:19188-293,ODI:GPU 0200 ,TN:GB\*

307010283 Summary of 670609 meeting w/JCP&L, Pickard & Lowe Assoc & Shaw, Pittman, Potts, Trowbridge & Madden re review of B&W offering, max expected capacity of nuclear steam sys & changes in offering to achieve increased capacity.

FAVRET, L.M. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:67/06/09, 4pp. ,48X:19188-303,ODI:GPU 0201 ,TN:GB\*

307010285 Forwards for review, draft contract for NSS-6 & suppl, per 680222 request.

GRAY, G. :Babcock & Wilcox Co.  
FAVRET, L.M. :Babcock & Wilcox Co.  
DATE ISS:68/03/27, 2pp. ,48X:19188-307,ODI:GPU 0202 ,TN:GB\*

U. S. NUCLEAR REGULATORY COMMISSION  
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307010287 Marked-up draft "Contract for Nuclear Equipment & Svcs," for Oyster Creek Unit 2, between util & vendor.

\* :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:68/02/21, 71pp. ,48x:19188-309,ODI:GPU 0203 ,TN:GB\*

307010289 Comments on JCP&L draft Oyster Creek Unit 2 contract transmitted by G Gray 680327 ltr. Comments based on belief that contract should pose no more or no less burden on vendor than Met Ed contract.

WARD, E.G. :Babcock & Wilcox Co.  
FAVRET, L.M. :Babcock & Wilcox Co.  
DATE ISS:68/04/26, 5pp. ,48x:19189-017,ODI:GPU 0204 ,TN:GB\*

307010293 Handwritten summary of 680627 meeting w/B&W in Washington, DC.

\* :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:68/06/27, 3pp. ,48x:19189-022,ODI:GPU 0205 ,TN:GB\*

307120618 "Contract for Nuclear Equipment & Svcs for Oyster Creek Nuclear Power Plant, Unit 2 between JCP&L & B&W."

\* :Babcock & Wilcox Co.  
:  
DATE ISS:81/05/12, 72pp. ,48x:19493-025,ODI:GPU 0206 ,TN:GB\*

307120621 "Part 21 - Reporting of Defects & Noncompliance."

\* :NRC - No Detailed Affiliation Given  
:  
DATE ISS:79/11/05, 7pp. ,48x:19493-097,ODI:GPU 0207 ,TN:GB\*

307010295 "Three Mile Island Before, During & After. Briefing by B&W."

ZIPF, G.C. :Babcock & Wilcox Co.  
:  
DATE ISS:79/06/05, 60pp. ,48x:19189-025,ODI:GPU 0208 ,TN:GB\*

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307010296 weekly status rept dtd 790525 re plants in commercial operation. TMI Unit 1 startup activities for Cycle 5 terminated on 790330. Unit remained at cold shutdown.

OLDS, G.M. :Babcock & Wilcox Co.  
FAVRET, L.M. :Babcock & Wilcox Co.  
DATE ISS:79/05/25, 3pp. ,48X:19189-086, ODI:GPU 0209 ,TN:GB\*

307010286 Telecopy request for early approval of marketing dept discussions w/selected domestic & foreign utils re description of TMI Unit 2 occurrence. Provides justification re desire to maintain marketplace standing.

EMBREY, N.S. :Babcock & Wilcox Co.  
FAVRET, L.M. :Babcock & Wilcox Co.  
DATE ISS:79/04/12, 2pp. ,48X:19189-089, ODI:GPU 0210 ,TN:GB\*

307010288 Telcopy listing of utils, util groups & industry organizations to be provided info re TMI-2 incident & aftermath. All info will be coordinated & cleared by marketing Dept, to keep release of info under strict control.

EMBREY, N.S. :Babcock & Wilcox Co.  
FAVRET, L.M. :Babcock & Wilcox Co.  
DATE ISS:79/04/13, 4pp. ,48X:19189-091, ODI:GPU 0211 ,TN:GB\*

307010291 "Contract for Nuclear Fuel," for TMI Unit 1, between util & vendor.

\* :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:71/05/31, 177pp. ,48X:19189-095, ODI:GPU 0212 ,TN:GB\*

307080587 Requests list of top ten lessons learned from TMI-2 in order of priority. Info should be submitted by 790608 to allow resolution of differences on 790611.

MACMILLAN, J.H. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:79/06/04, 2pp. ,48X:19489-316, ODI:GPU 0214 ,TN:GB\*

307080594 Submits executive summary of monthly activities rept for May 1979.

KOSIBA, R.E. :Babcock & Wilcox Co.  
MACMILLAN, J.H. :Babcock & Wilcox Co.  
DATE ISS:79/06/12, 8pp. ,48X:19489-323, ODI:GPU 0216 ,TN:GB\*



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307080597 Submits svc bulletin re follow-up of Davis-Besse 770924 incident & requests procedures for reporting field problems be evaluated. Conclusions & recommendations by 790901.

MACMILLAN, J.H. :Babcock & Wilcox Co.  
KOSIBA, R.E. :Babcock & Wilcox Co.  
DATE ISS:79/07/23, 1p. ,48x:19489-329,ODI:GPU 0217 ,TN:GB\*

307080601 Agenda of 790723 customer svc dept meeting on steps to provide operating plants w/guidelines derived from operating experience.

\* :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:79/07/23, 1p. ,48x:19489-330,ODI:GPU 0218 ,TN:GB\*

307080604 Assigns responsibility to finish up action on each segment of problem area. Draft repts for segments must be prepared by 790801. Plan to discuss drafts on 790803.

KOSIBA, R.E. :Babcock & Wilcox Co.  
DECARLI, E.V. :Babcock & Wilcox Co.  
DATE ISS:79/07/27, 4pp. ,48x:19489-331,ODI:GPU 0219 ,TN:GB\*

307080608 Submits status of action needed to complete review of procedures & practices on reporting & resolving site problems.

KOSIBA, R.E. :Babcock & Wilcox Co.  
MACMILLAN, J.H. :Babcock & Wilcox Co.  
DATE ISS:79/09/04, 2pp. ,48x:19489-346,ODI:GPU 0221 ,TN:GB\*

307080612 Forwards mgt directive for dissemination to unit managers, supervisory personnel & other key people involved in site problem rept circuit.

OLDS, G.M. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:79/08/31, 1p. ,48x:19489-348,ODI:GPU 0222 ,TN:GB\*

307080614 Rev 7 to procedure NPG-0503-04, "Site Problem Repts," on uniform method for documenting problems re B&W scope of supply after shipment to customer & resolution of site problems on affected contracts.

\* :Babcock & Wilcox Co.  
:  
DATE ISS:79/08/20, 8pp. ,48x:19489-352,ODI:GPU 0223 ,TN:GB\*

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307080618 Submits items to be added to re-review of 771004 Site Problem Rept 372 & 771114 LER (NP-32-77-16) w/objective of defining followup actions appropriate in view of TMI-2.

KOSIBA, R.E. :Babcock & Wilcox Co.  
WASCHER, R.E. :Babcock & Wilcox Co.  
DATE ISS:79/04/30, 1p. ,48X:19489-360,ODI:GPU 0224 ,TN:GB\*

307080696 Requests results/accomplishments on work item to review Sept 1977 depressurization incident at Davis-Besse.

KOSIBA, R.E. :Babcock & Wilcox Co.  
WASCHER, R.E. :Babcock & Wilcox Co.  
DATE ISS:79/07/16, 1p. ,48X:19489-361,ODI:GPU 0225 ,TN:GB\*

307080706 Minutes of customer svc dept 790917 meeting re lessons learned from TMI-2.

KOSIBA, R.E. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:79/09/18, 1p. ,48X:19489-362,ODI:GPU 0227 ,TN:GB\*

307080712 Recommends joint paper by Halliman/Elliott/Womack on AOTG effort which contributes to safety by providing direct effective circuit from designer to operators w/feedback.

KOSIBA, R.E. :Babcock & Wilcox Co.  
TAYLOR, J.M. :Babcock & Wilcox Co.  
DATE ISS:79/08/24, 1p. ,48X:19490-008,ODI:GPU 0228 ,TN:GB\*

307080716 Requests meeting to discuss status of planning for increased support, training & better definition of role of resident engineer in organization.

KOSIBA, R.E. :Babcock & Wilcox Co.  
OLDS, G.M. :Babcock & Wilcox Co.  
DATE ISS:80/01/26, 2pp. ,48X:19490-009,ODI:GPU 0229 ,TN:GB\*

307080718 Requests review of DW Berger recommendation prepared in response to MacMillan request re operating procedures in light of TMI-2 incident.

KOSIBA, R.E. :Babcock & Wilcox Co.  
ELLIOTT, N.S. :Babcock & Wilcox Co.  
DATE ISS:80/01/28, 1p. ,48X:19490-011,ODI:GPU 0230 ,TN:GB\*

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307080723 Comments on executive summary of technical review committee  
rept re what needs to be done in response to TMI-2.

KOSIBA, R.E. :Babcock & Wilcox Co.  
BALL, R.M. :Babcock & Wilcox Co.  
DATE ISS:79/11/05, 2pp. ,48x:19490-012,ODI:GPU 0231 ,TN:GB\*

307080741 Annotated Agenda of ACRS Subcommittee on TMI-2 Accident  
Implications meeting on 790531 & 0601.

\* :ACRS - Advisory Committee on Reactor Safeguards  
:ACRS - Advisory Committee on Reactor Safeguards  
DATE ISS:79/06/01, 1p. ,48x:19490-047,ODI:GPU 0234 ,TN:GB\*

307120627 Forwards notice of noncompliance, notice of proposed  
imposition of civil penalties & investigation repts dtd  
790626, 0918 & 800124. B&W failed to collect, evaluate &  
rept safety-related info. w/o investigation repts.  
STELLO, V. :Office of Inspection & Enforcement, Office of the Director  
MACMILLAN, J.H. :Babcock & Wilcox Co.  
DATE ISS:80/04/10, 4pp. ,48x:19493-104,ODI:GPU 0250 ,TN:GB\*

307080745 Confirms recent discussion proposing that review of sys &  
procedures be conducted to determine whether current sys &  
practices adequate. Comments requested by 790615.

ROY, D.H. :Babcock & Wilcox Co.  
TAYLOR, J.H. :Babcock & Wilcox Co.  
DATE ISS:79/05/15, 1p. ,48x:19490-048,ODI:GPU 0251 ,TN:GB\*

307080752 Forwards reply to notice of noncompliance dtd 800410.  
Denies each alleged item of noncompliance, however  
proceedings under 10CFR2.205 would be time consuming &  
expensive. Check in payment of civil penalties encl.  
GUILBERT, D.E. :Babcock & Wilcox Co.  
STELLO, V. :Office of Inspection & Enforcement, Office of the Director  
DATE ISS:80/05/20, 19pp. ,48x:19490-049,ODI:GPU 0252 ,TN:GB\*

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307120714 REMARKS PRESENTED (QUESTIONS/ANSWERS DISCUSSED) AT PUBLIC REGIONAL MEETINGS TO DISCUSS REGULATIONS (10CFR PART 21) FOR REPORTING OF DEFECTS AND NONCOMPLIANCE.

\* :Office of Inspection & Enforcement, Office of the Director  
: :  
DATE ISS:77/10/31, 150pp. ,48x:19493-153,ODI:GPU 0258 ,TN:GB\*

307080796 "TMI-2 & CR-3 NRC Mandates."

\* :Babcock & Wilcox Co.  
: :  
DATE ISS:80/05/16, 6pp. ,48x:19490-113,ODI:GPU 0268 ,TN:GB\*

307080798 Resume of GI McDaniel.

MCDANIEL,G.T. :Babcock & Wilcox Co.  
: :  
DATE ISS:81/05/27, 1p. ,48x:19490-119,ODI:GPU 0269 ,TN:GB\*

307090003 Executed master contract for engineering & technical svcs between B&W & Met Ed.

MILLER,G. :Metropolitan Edison Co.  
: :  
DATE ISS:73/11/13, 11pp. ,48x:19490-120,ODI:GPU 0270 ,TN:GB\*

307090005 Original purchase order issued to B&W to cover master contract for engineering & technical svcs.

\* :Metropolitan Edison Co.  
: :  
DATE ISS:73/11/14, 2pp. ,48x:19490-131,ODI:GPU 0271 ,TN:GB\*

307090008 Accepts Met Ed Purchase Order 43613 based on agreement w/listed mods.

MOULTZ,T.J. :Babcock & Wilcox Co.  
BREITINGER,W.M.:Metropolitan Edison Co.  
DATE ISS:73/12/18, 1p. ,48x:19490-133,ODI:GPU 0272 ,TN:GB\*

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307090011 Accepts Met Ed Purchase Order 43613 based on agreement  
w/listed mods. Draft copy of 731218 ltr.

\* :Babcock & Wilcox Co.  
BREITINGER, W.M.:Metropolitan Edison Co.  
DATE ISS:73/12/18, 2pp. ,48x:19490-134, ODI:GPU 0273 ,TN:GB\*

307090015 Executed master contract for engineering & technical svcs.

ARNOLD, R.C. :Metropolitan Edison Co.  
:  
DATE ISS:75/03/27, 15pp. ,48x:19490-136, ODI:GPU 0274 ,TN:GB\*

307090021 Original purchase order for equipment for IMI-2, issued to  
B&W.

\* :Metropolitan Edison Co.  
:  
DATE ISS:77/03/11, 15pp. ,48x:19490-168, ODI:GPU 0276 ,TN:GB\*

307090024 Forwards LF Taynton 770518 memo re proposal for master svcs  
contract.

\* :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:76/10/23, 2pp. ,48x:19490-183, ODI:GPU 0277 ,TN:GB\*

307210328 Forwards revised master svcs contract for official  
transmittal to customer.

TAYNTON, L.F. :Babcock & Wilcox Co.  
SMITH, S.L. :Babcock & Wilcox Co.  
DATE ISS:77/05/18, 25pp. ,48x:19494-221, ODI:GPU 0278 ,TN:GB\*

307090031 Summarizes results of 771026 meeting w/util re master svc  
contract negotiations.

TAYNTON, L.F. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:77/10/27, 3pp. ,48x:19490-209, ODI:GPU 0279 ,TN:GB\*

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307090035 Forwards two proposals re Met Ed & Toledo Edison Co. Both types should be covered by expanded clause. W/o encls.

\* :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:77/02/28, 2pp. ,48x:19490-212, ODI:GPU 0280 ,TN:GB\*

307090040 Advises that purchase order subj to T&C of master svc contract. Use of spare Part K recommended as more suitable, however reluctant to reject order.

\* :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:77/04/14, 1p. ,48x:19490-214, ODI:GPU 0281 ,TN:GB\*

307090048 Position Description: Unit manager, Safety Analysis.

\* :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:75/09/15, 1p. ,48x:19490-216, ODI:GPU 0283 ,TN:GB\*

307090134 Position Description: Unit Manager, Plant Integration.

KARRASCH, B.A. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:77/02/09, 2pp. ,48x:19491-006, ODI:GPU 0304 ,TN:GB\*

307090136 Discusses plant integration operating plan for 1978. Detailed description of role should be provided to define priorities of work.

KARRASCH, B.A. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:78/04/07, 5pp. ,48x:19491-008, ODI:GPU 0305 ,TN:GB\*

307090140 Paper stating space reserved for BA Karrasch note of 810618.

\* :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:81/06/18, 1p. ,48x:19491-015, ODI:GPU 0307 ,TN:GB\*



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307020125 Forwards preliminary draft of proposal as prepared for  
Met Ed NSSS bid.

KAZAR, R.V. :Babcock & Wilcox Co.  
VICTOR, M. :Babcock & Wilcox Co.  
DATE ISS:66/06/24, 1p. ,48X:19224-004, ODI:GPU 0309 ,TN:GB\*

307020123 Forwards suggested paragraph & variation to replace second  
paragraph of matl entitled "Change" in general conditions.

KASTRES, R.A. :Sullivan & Cromwell  
EILEEN, D.R. :Babcock & Wilcox Co.  
DATE ISS:66/06/20, 4pp. ,48X:19224-005, ODI:GPU 0310 ,TN:GB\*

307020128 Forwards changes clauses to be included in nuclear island &  
NSSS proposals.

KAZAR, R.V. :Babcock & Wilcox Co.  
VICTOR, M. :Babcock & Wilcox Co.  
DATE ISS:66/07/29, 3pp. ,48X:19224-009, ODI:GPU 0311 ,TN:GB\*

307020131 Forwards draft of agreement between B&W & Reliance Truck  
Co, Inc & draft of Chattel mortgage. w/o encls.

\* :Sullivan & Cromwell  
:Babcock & Wilcox Co.  
DATE ISS:67/01/23, 2pp. ,48X:19224-012, ODI:GPU 0312 ,TN:GB\*

307020134 Forwards drafts of certain sections of contract between  
B&W & Met Ed per 670315 meeting.

KASTRES, R.A. :Sullivan & Cromwell  
TROWBRIDGE, G.F. :Babcock & Wilcox Co.  
DATE ISS:67/03/16, 5pp. ,48X:19224-014, ODI:GPU 0313 ,TN:GB\*

307020137 Forwards redraft of B&W equipment contract reflecting all  
changes agreed upon through 670314 meeting w/B&W.

TROWBRIDGE, G.F. :Shaw, Pittman, Potts & Trowbridge  
NEIDIG, R.E. :Metropolitan Edison Co.  
DATE ISS:67/03/24, 3pp. ,48X:19224-019, ODI:GPU 0314 ,TN:GB\*

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307020139 Contract for NSSS.

\* :General Public Utilities - GPU Service Corp.  
:;  
DATE ISS:66/11/15, 60pp. ,48X:19224-022,ODI:GPU 0315 ,TN:GB\*

307020142 Index for contract document & appendices.

\* :Babcock & Wilcox Co.  
:;  
DATE ISS:81/06/30, 11pp. ,48X:19224-082,ODI:GPU 0316 ,TN:GB\*

307020145 Partial contract for fuel assemblies.

\* :Babcock & Wilcox Co.  
:;  
DATE ISS:74/12/30, 6pp. ,48X:19224-093,ODI:GPU 0317 ,TN:GB\*

307020146 Forwards general conditions applicable to NSSS contract  
w/Mill-Power Supply Co for Duke Power.

\* :Babcock & Wilcox Co.  
:Sullivan & Cromwell  
DATE ISS:66/11/22, 1p. ,48X:19224-099,ODI:GPU 0318 ,TN:GB\*

307020149 Proposal to Mill-Power Supply Co for Duke Power Co re NSSS.

\* :Babcock & Wilcox Co.  
:;  
DATE ISS:66/03/28, 24pp. ,48X:19224-100,ODI:GPU 0319 ,TN:GB\*

307020152 Contract proposal re general condition for NSSS.

\* :Babcock & Wilcox Co.  
:;  
DATE ISS:66/10/25, 5pp. ,48X:19224-124,ODI:GPU 0320 ,TN:GB\*

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307020154 Exceptions, clarifications & addl general conditions amending  
670323 ltr of inquiry.

\* :Babcock & wilcox Co.  
:  
DATE ISS:81/06/30, 3pp. ,48x:19224-129,ODI:GPU 0321 ,TN:GB\*

307120821 Provides sequence of events.

\* :babcock & wilcox Co.  
:babcock & wilcox Co.  
DATE ISS:81/07/01, 17pp. ,48x:19493-332,ODI:GPU 0322 ,TN:GB\*

307020159 Submits Apr activities rept.R&D monthly progress rept encl.

JONES,R.C. :babcock & wilcox Co.  
DUNN,B.M. :babcock & wilcox Co.  
DATE ISS:77/04/27, 5pp. ,48x:19224-168,ODI:GPU 0325 ,TN:GB11

307020162 Discusses ability of HPI sys for Oconee-type plants to  
mitigate consequences of small break at pump discharge.Div  
will require 100 manhours & 6 computer hours to investigate  
problem.

JONES,R.C. :babcock & wilcox Co.  
DUERSON,S.H. :Babcock & wilcox Co.  
DATE ISS:77/04/11, 1p. ,48x:19224-174,ODI:GPU 0326 ,TN:GB11

307020166 Submits May activities rept.May R&D progress rept encl.

JONES,R.C. :Babcock & wilcox Co.  
DUNN,B.M. :Babcock & wilcox Co.  
DATE ISS:77/05/31, 6pp. ,48x:19224-175,ODI:GPU 0327 ,TN:GB\*

307020168 Forwards rept on Scoping Study on operator action for small  
breaks at pump discharge for 177-FA lowered loop plants.

HAGHI,M.A. :Babcock & wilcox Co.  
LUKEN,R.C. :Babcock & wilcox Co.  
DATE ISS:78/07/05, 3pp. ,48x:19224-181,ODI:GPU 0328 ,TN:GB\*

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307020171 Forwards responses to Questions 1 & 2 in GPU 770606 ltr re  
small break.

JONES, R.C. :Babcock & Wilcox Co.  
GIBSON, W.R. :Babcock & Wilcox Co.  
DATE ISS:77/07/06, 3pp. ,48X:19224-184, ODI:GPU 0329 ,TN:GB\*

307020174 Forwards response to Technical Issue 4, as defined in  
NUREG-0138, re loss of offsite power following LOCA.

JONES, R.C. :Babcock & Wilcox Co.  
SPEIGHT, W.R. :Babcock & Wilcox Co.  
DATE ISS:78/07/11, 3pp. ,48X:19224-187, ODI:GPU 0331 ,TN:GB\*

307020176 Resume of GK handling.

WANDLING, G.K. :Babcock & Wilcox Co.  
:  
DATE ISS:79/07/02, 2pp. ,48X:19224-190, ODI:GPU 0332 ,TN:GB\*

307020179 vol 1 to general communications record, 790328-30.

WANDLING, G.K. :Babcock & Wilcox Co.  
:  
DATE ISS:79/03/30, 19pp. ,48X:19224-192, ODI:GPU 0333 ,TN:GB\*

307020182 Rev 3 to Administrative Procedure NPG-0503-04 re site  
problem rept.

\* :Babcock & Wilcox Co.  
:  
DATE ISS:75/03/21, 7pp. ,48X:19224-211, ODI:GPU 0334 ,TN:GB\*

307130019 Informs of establishment of nuclear svc site ofc at TMI  
supporting Unit 2 as of 770103. General responsibilities  
outlined & mailing address & phone numbers provided.

ROGERS, L.C. :Babcock & Wilcox Co.  
HERBEIN, J.G. :Metropolitan Edison Co.  
DATE ISS:77/01/03, 4pp. ,48X:19498-186, ODI:GPU 0336 ,TN:GB\*

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307020208 Forwards marked-up final copies of limits, precautions & setpoints for Unit 2, w/o encl.

ROGERS, L.C. :Babcock & Wilcox Co.  
TOOLE, R.J. :General Public Utilities - GPU Service Corp.  
DATE ISS:77/05/25, 1p. ,48x:19224-284,001:GPU 0347 ,TN:GB\*

307020210 Forwards updated issues of plant setpoints & BAW chemistry guide specs. Figure 1 of BAW-2050 will be supplied later. w/o encl.

ROGERS, L.C. :Babcock & Wilcox Co.  
TOOLE, R.J. :General Public Utilities - GPU Service Corp.  
DATE ISS:77/07/13, 2pp. ,48x:19224-285,001:GPU 0348 ,TN:GB\*

307130055 Draft Procedure DP 1101-01, "Plant Limits & Precautions."

\* :Babcock & Wilcox Co.  
:  
DATE ISS:77/05/31, 137pp. ,48x:19498-196,001:GPU 0349 ,TN:GB\*

307130083 Forwards draft Rev 3 to CP 2103-1.3, "Pressurizer Operation," for review & comment.

ROGERS, L.C. :Babcock & Wilcox Co.  
HILBISH, J.F. :Metropolitan Edison Co.  
DATE ISS:76/03/05, 2pp. ,48x:19498-325,001:GPU 0350 ,TN:GB\*

307130089 Draft Procedure CP 2103-1.3, "Pressurizer Operation."

\* :Babcock & Wilcox Co.  
:  
DATE ISS:76/03/05, 67pp. ,48x:19498-327,001:GPU 0350 ,TN:GB\*

307020213 Rev 4 to Operating Procedure 2101-2.1, "Nuclear Plant Setpoints."

\* :Babcock & Wilcox Co.  
:  
DATE ISS:78/11/06, 43pp. ,48x:19224-287,001:GPU 0351 ,TN:GB\*

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307020217 Forwards draft Procedure EP 2202-1.5, "Pressurizer Sys Failure," for review.

ROGERS, L.C. :Babcock & Wilcox Co.  
HILBISH, J.F. :Metropolitan Edison Co.  
DATE ISS:75/11/26, 11pp. ,48X:19224-330, ODI:GPU 0352 ,TN:GB\*

307130095 Forwards draft Unit 2 control room alarm responses for review.

ROGERS, L.C. :Babcock & Wilcox Co.  
HILBISH, J.F. :Metropolitan Edison Co.  
DATE ISS:75/11/25, 7pp. ,48X:19499-052, ODI:GPU 0353 ,TN:GB\*

307020226 Forwards draft rev of UP 2103-1.4, "RCS (Rev 1)" for review & comments.

ROGERS, L.C. :Babcock & Wilcox Co.  
HILBISH, J.F. :Metropolitan Edison Co.  
DATE ISS:76/07/16, 28pp. ,48X:19224-347, ODI:GPU 0356 ,TN:GB\*

307020229 Forwards draft rev of AP 2203-1.4, "RCP & Motor Emergencies (Rev 1)," for review & comments.

ROGERS, L.C. :Babcock & Wilcox Co.  
HILBISH, J.F. :Metropolitan Edison Co.  
DATE ISS:76/07/15, 14pp. ,48X:19225-013, ODI:GPU 0357 ,TN:GB\*

307130100 Forwards draft rev of EP 2202-1.4, "Loss of RC Flow/RC Pump Trip" for review & comment.

ROGERS, L.C. :Babcock & Wilcox Co.  
HILBISH, J.F. :Metropolitan Edison Co.  
DATE ISS:76/05/15, 6pp. ,48X:19499-059, ODI:GPU 0358 ,TN:GB\*

307130109 Forwards draft rev of reactor coolant pump control room alarm responses for review & comment.

ROGERS, L.C. :Babcock & Wilcox Co.  
HILBISH, J.F. :Metropolitan Edison Co.  
DATE ISS:76/07/08, 42pp. ,48X:19499-064, ODI:GPU 0359 ,TN:GB\*



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307020232 Forwards draft Rev 0 of Procedures 2204-8.C28,2204-8.D28,  
2204-8.E28 & 2204-8.F28 for review & comment.

ROGERS,L.C. :Babcock & Wilcox Co.  
SEELINGER,J.L. :Metropolitan Edison Co.  
DATE ISS:77/05/02, 7pp. ,48x:19225-027,ODI:GPU 0360 ,TN:GB\*

307020234 Forwards draft Procedure OP 1202.04, "Reactor Trip."

ROGERS,L.C. :Babcock & Wilcox Co.  
MILLER,G.P. :Metropolitan Edison Co.  
DATE ISS:77/03/28, 8pp. ,48x:19225-034,ODI:GPU 0361 ,TN:GB\*

307020237 Forwards Emergency Procedure 2203-2.2 "Turbine Trip," for  
review & comments.

ROGERS,L.C. :Babcock & Wilcox Co.  
TOOLE,R.J. :General Public Utilities - GPU Service Corp.  
DATE ISS:75/08/04, 4pp. ,48x:19225-042,ODI:GPU 0362 ,TN:GB\*

307020241 Submits draft rev of "DHR Via OTSG," for review & comments.

ROGERS,L.C. :Babcock & Wilcox Co.  
WILLIAMS,M.A. :Metropolitan Edison Co.  
DATE ISS:77/01/27, 13pp. ,48x:19225-046,ODI:GPU 0363 ,TN:GB\*

307130116 Summary of Investigative Committee 780428 meeting re TMI  
Unit 2 events following 780423 reactor trip.

BENSON,M.L. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:78/04/28, 3pp. ,48x:19499-106,ODI:GPU 0365 ,TN:GB\*

307130122 Forwards 780508 memo & LC Rogers 780502 ltr re rapid  
cooldown transient of 780423.

WANDLING,G.K. :Babcock & Wilcox Co.  
ROGERS,L.C. :Babcock & Wilcox Co.  
DATE ISS:78/05/09, 18pp. ,48x:19499-109,ODI:GPU 0366 ,TN:GB\*

U. S. NUCLEAR REGULATORY COMMISSION  
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307020247 Notifies that vendor incorporated startup problem repts into site problem rept sys to gain better internal control of util originated startup problem repts. Util will receive resolutions of problems through personnel at site.

PLETKE, L.R. :Babcock & Wilcox Co.  
HUWARD, R.W. :General Public Utilities - GPU Service Corp.  
DATE ISS:76/11/05, 2pp. ,48X:19225-061,ODI:GPU 0367 ,TN:GB\*

307060453 Forwards draft rev of Surveillance Procedure 2301-01, "RCS Leak Rate."

ROGERS, L.C. :Babcock & Wilcox Co.  
HILBISH, J.F. :Metropolitan Edison Co.  
DATE ISS:76/02/10, 1p. ,48X:19302-068,ODI:GPU 0373 ,TN:GB\*

307060459 Scenario of 790414 group discussion on Unit 2 790328 event.

MILLER, G.P. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/04/14, 32pp. ,48X:19302-090,ODI:GPU 0374 ,TN:GB\*

307060465 Advises of possible generic problem re electromatic relief valve malfunction. SIP issued to all plants by K handling to maintain insp of moving parts. Site problem rept of 750613 valve failure at Uconee 3 encl.

\* :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:75/07/16, 3pp. ,48X:19302-126,ODI:GPU 0376 ,TN:GB\*

307060468 Description of NSSS design group responsibilities.

\* :Babcock & Wilcox Co.  
DATE ISS:81/09/29, 2pp. ,48X:19302-129,ODI:GPU 0377 ,TN:GB\*

307060471 Summits monthly activities rept for Apr 1978.

KARRASCH, B.A. :Babcock & Wilcox Co.  
ROY, D.H. :Babcock & Wilcox Co.  
DATE ISS:78/05/02, 4pp. ,48X:19302-131,ODI:GPU 0378 ,TN:GB\*

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307060474 Submits monthly progress rept for Dec 1978.

KARRASCH, B.A. :Babcock & Wilcox Co.  
WOMACK, E.A. :Babcock & Wilcox Co.  
DATE ISS:79/01/03, 4pp. ,48x:19302-135, ODI:GPU 0379 ,TN:GB11

307060477 Comments on operating guidelines for small breaks in  
preparation for discussion w/NRC.

\* :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:81/09/29, 11pp. ,48x:19302-139, ODI:GPU 0380 ,TN:GB\*

307060496 Confirms morning discussion on short term action plan for  
response to owners group request re proposed TMI-2 impact  
study. Proposal work on each key issue will be completed by  
790801 subj to listed resource availability.

KARRASCH, B.A. :Babcock & Wilcox Co.  
FORTUNE, H.J. :Babcock & Wilcox Co.  
DATE ISS:79/06/21, 3pp. ,48x:19302-167, ODI:GPU 0385 ,TN:GB\*

307060500 Updates 790524 list of work tasks re TMI-2 incident. Forty  
nine of 92 items completed. Items 88-92 added.

LITCHFIELD, C.W. :Babcock & Wilcox Co.  
ROY, D.H. :Babcock & Wilcox Co.  
DATE ISS:79/06/06, 14pp. ,48x:19302-170, ODI:GPU 0386 ,TN:GB\*

307060502 Responds to 791019 request for evaluation of potential  
change impact on RCS design. Evaluation of change impact  
w/respect to Functional Spec 1092 by plant design staff  
requested. Request of 791029 encl.

KARRASCH, B.A. :Babcock & Wilcox Co.  
PRYOR, C.W. :Babcock & Wilcox Co.  
DATE ISS:79/11/09, 2pp. ,48x:19302-184, ODI:GPU 0387 ,TN:GB\*

307060534 Resume of CE Goslow.

\* :Babcock & Wilcox Co.  
:  
DATE ISS:82/01/07, 1p. ,48x:19302-229, ODI:GPU 0401 ,TN:GB\*

U. S. NUCLEAR REGULATORY COMMISSION  
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307060536 Professional experience of CE Goslow.

\* :Babcock & Wilcox Co.  
:  
DATE ISS:82/01/07, 2pp. ,48x:19302-230,ODI:GPU 0402 ,TN:GB\*

307060614 Responds to Session I matl request re communication program. response summarizes feedback from 800110 meeting w/onsite personnel. Prof press relations staff & adnl assistance for technical papers recommended.

PHINNEY, J.D. :Babcock & Wilcox Co.  
BRUCE, R.L. :Babcock & Wilcox Co.  
DATE ISS:80/01/25, 1p. ,48x:19340-001,ODI:GPU 0417 ,TN:GB\*

307060617 Position description of second manager of plant performance svc for nuclear svc dept.

COPPULA, E.J. :Babcock & Wilcox Co.  
:  
DATE ISS:75/09/23, 1p. ,48x:19340-002,ODI:GPU 0419 ,TN:GB\*

307060621 Nuclear power generation div engineering chart. Component engineering heads organization followed by advisory engineer & then divisional depts:RCS components, reactor internals, steam generator, supports, structural & graphic.

\* :Babcock & Wilcox Co.  
:  
DATE ISS:82/01/21, 1p. ,48x:19340-003,ODI:GPU 0420 ,TN:GB\*

307060624 Nuclear power generating div engineering Chart 5. Fluid & mechanical sys heads organization, assisted by advisory engineer & served by fluid sys, mechanical equipment & pumps & drives.

\* :Babcock & Wilcox Co.  
:  
DATE ISS:82/01/21, 1p. ,48x:19340-004,ODI:GPU 0421 ,TN:GB\*

307060631 Advises that item re review of Davis Besse 771004 site program rept & 771114 LER should be added to TMI-2 work list. Item will define appropriate followup actions in view of TMI-2.

KUSIBA, R.E. :Babcock & Wilcox Co.  
WASCHER, R.E. :Babcock & Wilcox Co.  
DATE ISS:79/04/30, 1p. ,48x:19340-006,ODI:GPU 0423 ,TN:GB\*

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307060635 Requests results of & any actions taken re Davis-Besse-1 depressurization incident in Sept 1977.

KOSIBA, R.E. :Babcock & Wilcox Co.  
WASCHER, R.E. :Babcock & Wilcox Co.  
DATE ISS:79/07/16, 1p. ,48x:19340-007,ODI:GPU 0424 ,TN:GB\*

307070019 Requests evaluation & action on submitted issues critical to long-term function of engineering dept. Issues re mgt of resources, product responsibility & inter-dept coordination recommended.

KENNEDY, R.K. :Babcock & Wilcox Co.  
STANEK, L.J. :Babcock & Wilcox Co.  
DATE ISS:79/11/27, 2pp. ,48x:19340-080,ODI:GPU 0439 ,TN:GB\*

307070023 Resume of B&W power sys & controls unit manager, JD Carlson.

\* :Babcock & Wilcox Co.  
:  
DATE ISS:82/01/28, 1p. ,48x:19340-082,ODI:GPU 0440 ,TN:GB11

307070337 Concurs w/790626 recommendations in response to 790515 memo, "Procedures for Identifying & Resolving Safety Concerns." Procedures & funding for expanded LER use initiated. Progress rept requested by 790731. Draft response to 790515 ltr encl.

ROY, D.H. :Babcock & Wilcox Co.  
TAYLOR, J.H. :Babcock & Wilcox Co.  
DATE ISS:79/07/05, 7pp. ,48x:19340-130,ODI:GPU 0448 ,TN:GB\*

307120730 Submits comments on technical product evaluation project plan. Criteria should be considered in context of requirements compiled in Phase II of project.

ROY, D.H. :Babcock & Wilcox Co.  
QUALE, G.D. :Babcock & Wilcox Co.  
DATE ISS:79/10/08, 4pp. ,48x:19401-042,ODI:GPU 0449 ,TN:GB\*

307070340 Informs of comprehensive product evaluation project directed by GD Quale to recommend mods of equipment & requirements. Project directed at supply & requirements for balance of plant, including steam plant & control room equipment.

ROY, D.H. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:79/08/10, 1p. ,48x:19340-137,ODI:GPU 0450 ,TN:GB\*

U. S. NUCLEAR REGULATORY COMMISSION  
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- 307070343 Comments on 1980 Comprehensive Business Plan & implications of TMI incident, Reassessment of FY80 commitment & FY81 projections to include accident impact recommended, Revised financial figures & status repts at mgt meetings requested.  
ZIPF, G.G. :Babcock & Wilcox Co.  
MACMILLAN, J.H. :Babcock & Wilcox Co.  
DATE ISS:79/05/23, 2pp. ,48X:19340-138, ODI:GPU 0451 ,TN:GB\*
- 307070347 Recommends revised approach for dealing w/valve availability problem on global cause & effect basis, per 780907 review of proposed valve availability improvement program, Response requested by 780914.  
ROY, D.H. :Babcock & Wilcox Co.  
STANEK, L.J. :Babcock & Wilcox Co.  
DATE ISS:78/09/11, 1p. ,48X:19340-140, ODI:GPU 0452 ,TN:GB\*
- 307070351 Forwards site problem repts & comment forms for resolution of valve problems at UPC & Toledo Edison, meeting w/P Perrone to discuss comments & recommendations requested.  
ROY, D.H. :Babcock & Wilcox Co.  
KING, L.P. :Babcock & Wilcox Co.  
DATE ISS:78/09/11, 12pp. ,48X:19340-141, ODI:GPU 0453 ,TN:GB\*
- 307120738 Advises that meeting will be held on 780705 to discuss procedure review for safety implications of site problems & operational upsets.  
ROY, D.H. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:78/05/30, 2pp. ,48X:19461-046, ODI:GPU 0454 ,TN:GB\*
- 307120747 Discusses mean to assure adequate involvement of safety analysis unit personnel at front end of site & operational upset problem resolution, per 780605 meeting & encl 780411 memo.  
ROY, D.H. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:78/06/08, 5pp. ,48X:19461-048, ODI:GPU 0455 ,TN:GB\*
- 307070354 Requests development of more effective sys for acquiring equipment failure info, Availability improvement action plan, suggested site program rept checklist & Procedure NPG-0503-04, Rev 5, "Site Problem Rept," encl.  
ROY, D.H. :Babcock & Wilcox Co.  
FAHLAND, F.R. :Babcock & Wilcox Co.  
DATE ISS:78/09/11, 18pp. ,48X:19340-153, ODI:GPU 0456 ,TN:GB\*



U. S. NUCLEAR REGULATORY COMMISSION  
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307070357 Summarizes function of NRC research review group & 780110 meeting. Review group will develop plan for projects for development of new or improved nuclear power plant sys. Draft rept to Congress encl. Rept will be reviewed on 780210.

ROY, D.H. :Babcock & Wilcox Co.

TAYLOR, J.H. :Babcock & Wilcox Co.

DATE ISS:78/01/20, 13pp. ,48X:19340-171, ODI:GPU 0457 ,TN:GB\*

307070360 Confirms 790414 discussion re data requested by DH Roy on TMI electromagnetic relief valve. Response to relevant questions should be returned to DH Roy by 790415.

\* :Babcock & Wilcox Co.

LEE, D.E. :Babcock & Wilcox Co.

DATE ISS:79/04/15, 3pp. ,48X:19340-184, ODI:GPU 0458 ,TN:GB\*

307070370 Forwards requested equipment specs & test procedures & submits data re electromagnetic relief valve. Testing did not provide useful info on valve ability to respond on demand. Refurbishment & test info by Dresser to be pursued.

LEE, B.E. :Babcock & Wilcox Co.

ROY, D.H. :Babcock & Wilcox Co.

DATE ISS:79/04/15, 2pp. ,48X:19340-187, ODI:GPU 0459 ,TN:GB\*

307070373 Forwards draft Rev 0 to Procedure NPG-0151-81G, Objectives & Responsibilities - Plant Design Section." Statement for Section I & App E requested. Response requested by 770810.

SULLIVAN, F.W. :Babcock & Wilcox Co.

ROY, D.H. :Babcock & Wilcox Co.

DATE ISS:77/07/22, 19pp. ,48X:19340-189, ODI:GPU 0460 ,TN:GB\*

307070378 Forwards revised Page 1 & writeup by D Roy to be incorporated in draft, "Objectives & Responsibilities - Plant Design Section."

BROOKS, L. :Babcock & Wilcox Co.

SULLIVAN, F. :Babcock & Wilcox Co.

DATE ISS:77/08/29, 2pp. ,48X:19340-210, ODI:GPU 0461 ,TN:GB\*

307070380 Draft "Performance Engineering Concept."

\* :Babcock & Wilcox Co.

DATE ISS:79/07/26, 3pp. ,48X:19340-212, ODI:GPU 0462 ,TN:GB\*

U. S. NUCLEAR REGULATORY COMMISSION  
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307070386 Recommends ten priority issues deserving of analysis & followup action in wake of TMI-2 accident. Issues likely to be part of AIF Task Force discussions. Thought process flow chart for issue selection encl.  
ROY, M. :Babcock & Wilcox Co.  
MACMILLAN, J. M. :Babcock & Wilcox Co.  
DATE ISS:79/06/08, 5pp. ,48x:19340-215, ODI:GPU 0463 ,TN:GB\*

307070391 Ack acceptance of invitation to present paper & participate in ASME 791202-07 winter annual meeting. Response re use of visual aids requested. Confirmed final program for Session 6 & 791005 memo re safety design trends encl.  
SNYDER, A. W. :Sandia Laboratories  
ROY, D. M. :Babcock & Wilcox Co.  
DATE ISS:79/09/21, 9pp. ,48x:19340-220, ODI:GPU 0464 ,TN:GB\*

307070396 requests cooperation to insure unit phone calls will be received despite absence of both unit manager & secretary.  
ROY, D. M. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:77/08/29, 1p. ,48x:19340-229, ODI:GPU 0465 ,TN:GB\*

307120753 Resume of MA Bailey.

BAILEY, M. A. :Babcock & Wilcox Co.  
:  
DATE ISS:83/07/12, 2pp. ,48x:19461-053, ODI:GPU 0466 ,TN:GB11

307120758 Miscellaneous notations re once-through steam generator.

\* :Babcock & Wilcox Co.  
:  
DATE ISS:83/07/12, 3pp. ,48x:19461-055, ODI:GPU 0467 ,TN:GB11

307070400 Submits names of B Karrach & GM Dunn.

\* :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:82/02/23, 1p. ,48x:19340-230, ODI:GPU 0468 ,TN:GB\*

U. S. NUCLEAR REGULATORY COMMISSION  
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307130180 Resume of C Michelson.

MICHELSON, C. :Tennessee Valley Authority

DATE ISS:83/07/13, 2pp. ,48x:19503-275,ODI:GPU 0477 ,TN:GB\*

307060454 Summary of 781204 telephone conference w/d&w re small break analysis - response to K-5020.

\* :Tennessee Valley Authority

:Tennessee Valley Authority

DATE ISS:79/08/03, 2pp. ,48x:19340-239,ODI:GPU 0479 ,TN:GB11

307060551 Sketch of piping & valves.

\* :General Public Utilities - GPU Service Corp.

DATE ISS:82/04/13, 1p. ,48x:19340-287,ODI:GPU 0492 ,TN:GB11

307060553 Resume of LR Cartin.

CARTIN, L.R. :Babcock & Wilcox Co.

DATE ISS:82/04/13, 1p. ,48x:19340-288,ODI:GPU 0493 ,TN:GB\*

307060570 Resume of JR Albert.

ALBERT, J.R. :Babcock & Wilcox Co.

DATE ISS:82/04/21, 1p. ,48x:19340-304,ODI:GPU 0498 ,TN:GB\*

307060573 Rev 0 to Plant Emergency Procedure EP 1202-29, "Pressurizer Sys Failure."

COLITZ, J.J. :General Public Utilities - GPU Service Corp.

DATE ISS:73/10/18, 9pp. ,48x:19340-305,ODI:GPU 0499 ,TN:GB\*

U. S. NUCLEAR REGULATORY COMMISSION  
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307060576 Rev 2 to Emergency Procedure EP 1202-6, "Loss of Reactor  
Coolant/Reactor Coolant Pressure."

COLITZ, J. J. : General Public Utilities - GPU Service Corp.

DATE ISS: 75/06/04, 19pp., 48x: 19340-314, ODI: GPU 0500 , TN: GB\*

307060581 Recommends increasing surveillance frequency of calibr of  
Westinghouse veritrac transmitters, used for RCS narrow  
range pressure. Increased surveillance will detect drifting  
& should be referenced to ambient temp condition.

ALBERT, J. R. : Babcock & Wilcox Co.

TULODIESKI, D. B. : Babcock & Wilcox Co.

DATE ISS: 75/04/02, 1p., 48x: 19340-334, ODI: GPU 0501 , TN: GB\*

307060583 Resume of JD Agar.

AGAR, J. D. : Babcock & Wilcox Co.

DATE ISS: 82/04/22, 1p., 48x: 19340-335, ODI: GPU 0502 , TN: GB\*

307130200 Resume of JD Agar.

AGAR, J. D. : Babcock & Wilcox Co.

DATE ISS: 83/07/13, 1p., 48x: 19503-349, ODI: GPU 0502 , TN: GB\*

307060586 Resume of JR Shetler.

SHETLER, J. R. : Babcock & Wilcox Co.

DATE ISS: 82/04/23, 1p., 48x: 19340-336, ODI: GPU 0503 , TN: GB\*

307060630 Annual reactor operator & senior reactor operator  
redqualification exam results (Cycle 5).

BEEN, M. L. : General Public Utilities - GPU Service Corp.

DATE ISS: 76/02/16, 7pp., 48x: 19341-032, ODI: GPU 0508 , TN: GB\*

U. S. NUCLEAR REGULATORY COMMISSION  
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307130243 Resume of TF Scott.

SCOTT, J.F. :Babcock & Wilcox Co.  
:  
DATE ISS:83/07/13, 2pp. ,48x:19503-352,ODI:GPU 0512 ,TN:GB\*

307130251 Operating Spec 68-1004243-00, "Plant Setpoints."

SCOTT, T.F. :Babcock & Wilcox Co.  
:  
DATE ISS:78/03/16, 4pp. ,48x:19503-293,ODI:GPU 0513 ,TN:GB\*

307060634 Operational log summary of loss-of-feedwater transient on  
790320.

\* :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:79/03/28, 6pp. ,48x:19341-042,ODI:GPU 0514 ,TN:GB\*

307070532 Discusses design & arrangement of TMI-2 control room &  
control consoles.

WARD, E.G. :Babcock & Wilcox Co.  
SUHRKE, K.E. :Babcock & Wilcox Co.  
DATE ISS:79/10/25, 2pp. ,48x:19341-048,ODI:GPU 0515 ,TN:GB\*

307070536 Requests TMI-2 draft operating procedures, reflecting  
differences between Unit 1 & Unit 2 & operating criteria  
changes established during testing at Oconee 1. Carol  
printout for test specs requested by Sept 1973.

HEWARD, R.A. :General Public Utilities - GPU Service Corp.  
WARD, E.G. :Babcock & Wilcox Co.  
DATE ISS:73/07/06, 1p. ,48x:19341-050,ODI:GPU 0516 ,TN:GB\*

307130264 Discusses SPR-158 re natural circulation mode of operation.  
Mod to control sys to give operator ability to control once  
through steam generator level in control room when reactor  
coolant pumps inoperable not recommended.

KARRASCH, B.A. :Babcock & Wilcox Co.  
PITTMAN, R.L. :Babcock & Wilcox Co.  
DATE ISS:74/02/07, 2pp. ,48x:19503-334,ODI:GPU 0517 ,TN:GB\*

U. S. NUCLEAR REGULATORY COMMISSION  
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307070070 Advises that B&W will supply significant deficiency procedure per encl 780125 request.

WARD, E.G. :Babcock & Wilcox Co.  
HUFFMAN, D. :Babcock & Wilcox Co.  
DATE ISS:78/02/07, 2pp. ,48x:19341-051, ODI:GPU 0518 ,TN:GB\*

307070074 Forwards outline of reactor operation training program scheduled for early 1970.

THOMAS, C.E. :Babcock & Wilcox Co.  
RODGERS, J.T. :Florida Power Corp.  
DATE ISS:68/08/08, 6pp. ,48x:19341-053, ODI:GPU 0519 ,TN:GB\*

307070081 Reactor operator training program outline detailing course duration & tentative lecture subjs.

\* :Babcock & Wilcox Co.  
:  
DATE ISS:68/08/08, 5pp. ,48x:19341-059, ODI:GPU 0519 ,TN:GB\*

307070091 Recommends establishment of operation ctr to deal w/tasks associated w/understanding of & recovering from TMI-2 accident.

DEDDENS, J.C. :Babcock & Wilcox Co.  
TAYLOR, J.H. :Babcock & Wilcox Co.  
DATE ISS:79/03/29, 4pp. ,48x:19341-064, ODI:GPU 0520 ,TN:GB\*

307070096 Resume of EG Ward.

WARD, E.G. :Babcock & Wilcox Co.  
:  
DATE ISS:82/05/19, 1p. ,48x:19341-068, ODI:GPU 0521 ,TN:GB\*

307070109 Resume of EG Ward.

WARD, E.G. :Babcock & Wilcox Co.  
:  
DATE ISS:76/08/24, 1p. ,48x:19341-069, ODI:GPU 0522 ,TN:GB\*



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307070130 Resume of JH MacMillan.

MACMILLAN, J.H. :Babcock & Wilcox Co.

DATE ISS:82/06/09, 1p. ,48x:19341-070,ODI:GPU 0523 ,TN:GB\*

307070135 Organizational chart for B&W Power Generation Group, Nuclear Power Generation Div.

\* :Babcock & Wilcox Co.

DATE ISS:82/06/09, 1p. ,48x:19341-071,ODI:GPU 0524 ,TN:GB\*

307070137 Organizational chart of Nuclear Power Generation Div, Engineering Dept.

\* :Babcock & Wilcox Co.

DATE ISS:82/06/09, 1p. ,48x:19341-072,ODI:GPU 0525 ,TN:GB\*

307070141 Organizational chart of Power Generation Group, Nuclear Power Generating Div.

\* :Babcock & Wilcox Co.

DATE ISS:82/06/09, 1p. ,48x:19341-073,ODI:GPU 0526 ,TN:GB\*

307070145 Organizational chart of Nuclear Power Generation Div, Engineering Dept.

\* :Babcock & Wilcox Co.

DATE ISS:82/06/09, 1p. ,48x:19341-074,ODI:GPU 0527 ,TN:GB\*

307070162 Final Part 21 rept re small break (LOCA) on discharge side of reactor coolant pump. Potential solutions include effective HPI flow increase or RCS depressurization to obtain LPI flow.

TAYLOR, J.H. :Babcock & Wilcox Co.

VULGENAU, E. :Office of Inspection & Enforcement, Office of the Director

DATE ISS:78/04/14, 18pp. ,48x:19341-079,ODI:GPU 0529 ,TN:GB\*

U. S. NUCLEAR REGULATORY COMMISSION  
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307070295 Requests concept & details of safety review group formation be reviewed w/MacMillan. Safety review group should meet prior to 790915 to develop plan for near-term actions for submittal by 791001. Plan should include manpower assessment.

TAYLOR, J.H. :Babcock & Wilcox Co.

ROY, D.H. :Babcock & Wilcox Co.

DATE ISS:79/09/04, 3pp. ,48x:19341-098,ODI:GPU 0530 ,TN:GB\*

307070300 Forwards 790604 memo re B&W NSSS responsiveness. Meeting w/Embrey recommended to map strategy for demonstrating manageability of transient control.

ROY, D.H. :Babcock & Wilcox Co.

WOMACK, E.A. :Babcock & Wilcox Co.

DATE ISS:79/06/05, 2pp. ,48x:19341-101,ODI:GPU 0531 ,TN:GB\*

307070305 Requests encl draft article re NSSS design be forwarded to S Strauss for incorporation in publication on lessons learned from TMI.

EMBREY, N.S. :Babcock & Wilcox Co.

HUCKFELDT, J. :Affiliation Unknown

DATE ISS:79/08/29, 6pp. ,48x:19341-103,ODI:GPU 0533 ,TN:GB\*

307070395 Lists top 10 lessons learned from TMI-2 accident.

BALL, R.M. :Babcock & Wilcox Co.

MACMILLAN, J.H. :Babcock & Wilcox Co.

DATE ISS:79/06/08, 2pp. ,48x:19341-110,ODI:GPU 0535 ,TN:GB\*

307070406 Requests prioritized listing of key accomplishments since TMI-2 event by 790920, per encl JH MacMillan 790919 memo.

ROY, D.H. :Babcock & Wilcox Co.

:Babcock & Wilcox Co.

DATE ISS:79/09/19, 2pp. ,48x:19341-122,ODI:GPU 0537 ,TN:GB\*

307070496 Comments on Contract 24 documents.

\* :Babcock & Wilcox Co.

:Babcock & Wilcox Co.

DATE ISS:78/04/28, 1p. ,48x:19341-327,ODI:GPU 0554 ,TN:GB\*

U. S. NUCLEAR REGULATORY COMMISSION  
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307070498 "Small LOCA Info."

\* :Babcock & Wilcox Co.  
: Babcock & Wilcox Co.  
DATE ISS:82/06/17, 21pp. ,48X:19341-328,ODI:GPU 0555 ,TN:GB\*

307070502 Submits, for discussion, "X" large break w/auxiliary feedwater & "Z" small break auxiliary feedwater w/o reactor coolant pumps.

\* :General Public Utilities - GPU Service Corp.  
: General Public Utilities - GPU Service Corp.  
DATE ISS:82/06/17, 1p. ,48X:19341-349,ODI:GPU 0555A ,TN:GB\*

307070513 Discusses symptoms of transients.

\* :Babcock & Wilcox Co.  
: Babcock & Wilcox Co.  
DATE ISS:82/06/17, 1p. ,48X:19341-361,ODI:GPU 0559 ,TN:GB\*

307130339 Resume of JA Lind.

LIND, J.A. :Babcock & Wilcox Co.  
: Babcock & Wilcox Co.  
DATE ISS:83/07/13, 2pp. ,48X:19503-359,ODI:GPU 0560 ,TN:GB\*

307130343 Rev 6 to Emergency Procedure 2202-1.1, "Reactor Trip."

\* :General Public Utilities - GPU Service Corp.  
: General Public Utilities - GPU Service Corp.  
DATE ISS:78/10/25, 5pp. ,48X:19504-191,ODI:GPU 0561 ,TN:GB\*

307130347 "Plant Operations Exam."

\* :Babcock & Wilcox Co.  
: Babcock & Wilcox Co.  
DATE ISS:74/11/01, 11pp. ,48X:19504-196,ODI:GPU 0562 ,TN:GB\*

U. S. NUCLEAR REGULATORY COMMISSION  
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307070521 Tech Spec Page 3/4 4-5 re RCS pressurizer.

\* :General Public Utilities - GPU Service Corp.  
: |  
DATE ISS:83/07/02, 1p. ,48X:19342-012,ODI:GPU 0564 ,TN:GB\*

307070524 Rev 3 to Operating Procedure 2103-1.3, "Pressurizer  
Operation."

\* :General Public Utilities - GPU Service Corp.  
: |  
DATE ISS:78/07/19, 37pp. ,48X:19342-013,ODI:GPU 0565 ,TN:GB\*

307130351 Tech Spec 2.0 re safety limits & limiting safety sys  
settings for reactor core,RCS pressure & reactor protection  
sys setpoints.

\* :General Public Utilities - GPU Service Corp.  
: |  
DATE ISS:83/07/12, 10pp. ,48X:19504-208,ODI:GPU 0566 ,TN:GB\*

307130353 Tech Spec 3/4.4.9 re RCS pressure/temp limits.

\* :General Public Utilities - GPU Service Corp.  
: |  
DATE ISS:83/07/12, 3pp. ,48X:19504-218,ODI:GPU 0567 ,TN:GB\*

307060527 Resume of PE Perrone.

PERRONE,P.E. :Babcock & Wilcox Co.  
: |  
DATE ISS:83/07/01, 1p. ,48X:19342-061,ODI:GPU 0570 ,TN:GB\*

307060529 Rev 5 to NPG-0503-04, "Site Problem Rept (SPR)."

\* :Babcock & Wilcox Co.  
: |  
DATE ISS:77/08/01, 7pp. ,48X:19342-062,ODI:GPU 0573 ,TN:GB\*

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307060533 Informs of visit from R Bauman of CPC during wk of 780424 to determine mechanism used by B&W to assure that other site problems are reviewed for applicability to CPC contract & corrective actions.

BAKER, H.A. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.

DATE ISS:78/05/09, 2pp. ,48x:19342-069,ODI:GPU 0574 ,TN:GB\*

307130357 Site Problem Rept SPR-108: on 750613, during shutdown to replace reactor coolant pump seals, RCS rapid depressurization transient experienced. Caused by pressure spike.

PLUNKETT, C.C. :Duke Power Co.

DATE ISS:75/08/20, 27pp. ,48x:19504-226,ODI:GPU 0576 ,TN:GB\*

307060543 Submits handwritten comments on Spec EOS 01b2. Spec exceeded many times w/o heat or rupture.

\* :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.

DATE ISS:76/11/12, 2pp. ,48x:19342-085,ODI:GPU 0577 ,TN:GB\*

307060548 Submits handwritten comments on procedure describing actions organized on event on primary sys leak.

\* :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.

DATE ISS:82/07/08, 7pp. ,48x:19342-087,ODI:GPU 0578 ,TN:GB\*

307060552 Submits handwritten memo re need to review open issues & offer recommendation to util re reactor coolant pumps.

WALTERS, J.F. :Babcock & Wilcox Co.

HALLMAN, D.F. :Babcock & Wilcox Co.

DATE ISS:79/06/15, 2pp. ,48x:19342-094,ODI:GPU 0579 ,TN:GB\*

307060554 Submits recommendations per review of 771004 facility transient. No outstanding unresolved safety items by current small break guidelines exist.

HALLMAN, D.F. :Babcock & Wilcox Co.

SHORT, B.J. :Babcock & Wilcox Co.

DATE ISS:79/10/30, 1p. ,48x:19342-096,ODI:GPU 0580 ,TN:GB\*

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307060560 Forwards "Part II-Operating Guidelines for Small Breaks."  
Major changes experienced in instructions for restarting  
reactor coolant pumps.

HALLMAN, D.F. :Babcock & Wilcox Co.  
ELLISON, K.R. :Babcock & Wilcox Co.  
DATE ISS:79/05/10, 4pp. ,48X:19342-097,ODI:GPU 0581 ,TN:GB\*

307060564 "Part II-Operating Guidelines for Small Breaks." Related  
info encl.

\* :Babcock & Wilcox Co.  
:  
DATE ISS:79/05/10, 15pp. ,48X:19342-101,ODI:GPU 0581 ,TN:GB\*

307060567 Submits addl info re recommendation that operating reactor  
coolant pumps be tripped immediately upon receipt of ESF  
actuation sys.Actuation caused by low reactor coolant  
pressure.

HALLMAN, D.F. :Babcock & Wilcox Co.  
ELLISON, K.R. :Babcock & Wilcox Co.  
DATE ISS:79/07/21, 4pp. ,48X:19342-116,ODI:GPU 0582 ,TN:GB\*

307060571 Forwards Rev 3 to "Part I-Operating Guidelines for Small  
Breaks." Rev incorporates various updates made since  
previous rev.Most important update includes reactor coolant  
pump tripping.

WALTERS, J.F. :Babcock & Wilcox Co.  
ELLISON, K.R. :Babcock & Wilcox Co.  
DATE ISS:79/08/28, 2pp. ,48X:19342-120,ODI:GPU 0583 ,TN:GB\*

307060575 Rev 3 to "Part I-Operating Guidelines for Small Breaks."

\* :Babcock & Wilcox Co.  
:  
DATE ISS:79/08/21, 98pp. ,48X:19342-122,ODI:GPU 0583 ,TN:GB\*

307060580 "Small break Operator Guidelines for Oconee 1,2 & 3,TMI 1 &  
2,Crystal River 3 & Rancho Seco 1."

HALLMAN, D. :Babcock & Wilcox Co.  
:  
DATE ISS:79/11/02, 50pp. ,48X:19342-217,ODI:GPU 0584 ,TN:GB\*



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307060587 Submits set of min post-trip functional requirements for review & approval. FMI-2 incident indicated need for increased calculational monitoring & diagnostic capabilities in computer sys after reactor or turbine trip.

LUTZ, R.I. :Babcock & Wilcox Co.

FAIRBRUTHER, D. :Babcock & Wilcox Co.

DATE ISS:79/05/29, 5pp. ,48x:19342-266, ODI:GPU 0585 ,TN:GB\*

307070296 Responds to 800207 memo requesting std format of transmittal writeups of analysis paths. Format submitted.

KELLY, J.J. :Babcock & Wilcox Co.

NEWLIN, M.E. :Babcock & Wilcox Co.

DATE ISS:80/02/12, 3pp. ,48x:19342-273, ODI:GPU 0586 ,TN:GB\*

307060590 Transcript of 790718 public hearing on FMI accident. Pp 145-170.

\* :Commissioners

DATE ISS:79/07/18, 20pp. ,48x:19342-276, ODI:GPU 0587 ,TN:GB\*

307060594 Deposition of JF Walters on 790706. Pp 1-35.

WALTERS, J.F. :Babcock & Wilcox Co.

DATE ISS:79/07/06, 36pp. ,48x:19342-296, ODI:GPU 0588 ,TN:GB\*

307060597 Deposition of F Walters on 791002 in Lynchburg, VA. Pp 1-47.

WALTERS, F. :Babcock & Wilcox Co.

DATE ISS:79/10/02, 48pp. ,48x:19343-014, ODI:GPU 0589 ,TN:GB\*

307060601 Submits parameters needed to evaluate overall core & plant conditions & respond to abnormal symptoms. Parameters identified on basis that certain symptoms can be interrupted to provide info to prevent inadequate core cooling.

WALTERS, J.F. :Babcock & Wilcox Co.

KELLY, J.J. :Babcock & Wilcox Co.

DATE ISS:80/01/31, 2pp. ,48x:19343-067, ODI:GPU 0590 ,TN:GB\*

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307060604 Forwards instructions combining plant conditions & equipment status w/instructions to allow operator to respond to symptoms & provide adequate core cooling. Draft abnormal transient operating guidelines also encl.

WALTERS, J.F. :Babcock & Wilcox Co.

ANDREWS, J.B. :Babcock & Wilcox Co.

DATE ISS:80/03/25, 63pp. ,48x:19343-069,ODI:GPU 0591 ,TN:GB\*

307130360 Informs that Toledo Edison needs to reduce auxiliary feedwater setpoints for natural circulation. Suggestion to resolve impasse provided. Further analytical effort required to confirm 10 ft level setpoint adequate.

SWANSON, E.H. :Babcock & Wilcox Co.

SPANGLER, V.M. :Babcock & Wilcox Co.

DATE ISS:76/11/15, 3pp. ,48x:19504-253,ODI:GPU 0592 ,TN:GB\*

307130361 Resume of E Swanson.

SWANSON, E. :Babcock & Wilcox Co.

DATE ISS:83/07/13, 2pp. ,48x:19504-257,ODI:GPU 0595 ,TN:GB\*

307060618 Submits handwritten memo re NUREG-0138, Item 4 dealing w/ effects of delayed loss of offsite power following LOCA. Item divided into two parts.

JONES, R.C. :Babcock & Wilcox Co.

SPEIGHT, W.R. :Babcock & Wilcox Co.

DATE ISS:77/05/16, 2pp. ,48x:19343-143,ODI:GPU 0597 ,TN:GB\*

307060450 Graph of reactivity worths at 532 F & 2155 psig.

\* :General Public Utilities - GPU Service Corp.

DATE ISS:77/08/14, 2pp. ,48x:19343-210,ODI:GPU 0602 ,TN:GB\*

307130364 Resume of AF McBride.

MCBRIDE, A.F. :Babcock & Wilcox Co.

DATE ISS:83/07/13, 1p. ,48x:19504-259,ODI:GPU 0602 ,TN:GB\*

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307060463 Advises that AF McBride has been appointed responsible engineer for ATWS critical product problem program. Organization chart defining people responsible for various aspects of program encl.

ROY, D.H. :Babcock & Wilcox Co.

MCBRIDE, A.F. :Babcock & Wilcox Co.

DATE ISS:76/10/26, 3pp. ,48x:19343-212,ODI:GPU 0603 ,TN:GB\*

307090228 Rev 1 to "B&W Anticipated Transients w/o Scram Analysis."

\* :Babcock & Wilcox Co.

DATE ISS:77/05/31, 297pp. ,48x:19480-077,ODI:GPU 0604 ,TN:GB\*

307060472 Advises that S Banwarth has been appointed lead engineer responsible for ATWS program. original designee A McBride has resigned.

WOMACK, E.A. :Babcock & Wilcox Co.

DUEKSON, S.H. :Babcock & Wilcox Co.

DATE ISS:79/07/18, 1p. ,48x:19343-215,ODI:GPU 0605 ,TN:GB\*

307060499 "Review of B&W Rept, Integrated Control Sys Reliability Analysis, BAN-1564 Aug 1979," final rept.

ANDERSON, J.L. :Oak Ridge National Laboratory

SATTERFIELD, R. : Electric, Instrumentation & Control Systems Branch

DATE ISS:80/01/21, 25pp. ,48x:19343-220,ODI:GPU 0608 ,TN:GB\*

307060514 "Integrated Control Sys Reliability Analysis."

DUNGAN, R.L. :Babcock & Wilcox Co.

DATE ISS:79/08/31, 9pp. ,48x:19343-244,ODI:GPU 0609 ,TN:GB\*

307090222 "B&W Anticipated Transients w/o Scram Analysis."

\* :Babcock & Wilcox Co.

DATE ISS:74/12/31, 189pp. ,48x:19481-014,ODI:GPU 0610 ,TN:GB\*

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307090251 General calculations from "205FA Small Break Evaluation Program."

\* :Babcock & Wilcox Co.  
:  
DATE ISS:80/05/05, 248pp. ,48x:19481-203,ODI:GPU 0611 ,TN:GB\*

307090247 Gives tentative approval to fix steam generator overfill problem during auxiliary feedwater flow due to seriousness of problem.

JONES,R.C. :Babcock & Wilcox Co.  
ENGEL,S.J. :Babcock & Wilcox Co.  
DATE ISS:77/03/14, 5pp. ,48x:19482-091,UDI:GPU 0612 ,TN:GB\*

307090243 Discusses results of small break analysis performed to check adequacy of present auxiliary feedwater level control on 205 FA plants.

SHAH,N.H. :Babcock & Wilcox Co.  
ROY,D.H. :Babcock & Wilcox Co.  
DATE ISS:78/03/30, 12pp. ,48x:19482-096,ODI:GPU 0613 ,TN:GB\*

307060523 Mar Power Generation Group Activities Rept.

JONES,R.C. :Babcock & Wilcox Co.  
DUNN,B.M. :Babcock & Wilcox Co.  
DATE ISS:78/03/30, 3pp. ,48x:19343-340,ODI:GPU 0614 ,TN:GB\*

307060525 Power Generation Group ECCS Analysis Unit Mar Activities Rept.

DUNN,B.M. :Babcock & Wilcox Co.  
ROY,D.H. :Babcock & Wilcox Co.  
DATE ISS:78/04/03, 6pp. ,48x:19343-343,ODI:GPU 0615 ,TN:GB\*

307090236 Preliminary rept of safety concerns re small break LOCA not conforming to 10CFR50.46 requirement.

SHAH,N.H. :Babcock & Wilcox Co.  
:  
DATE ISS:78/04/04, 3pp. ,48x:19482-108,ODI:GPU 0616 ,TN:GB\*

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307060531 Requests combining 177 model changes w/level dependent steam generator model in special CRAFT version. Changes will show that high auxiliary feedwater levels unnecessary.

DUNN, B.M. :Babcock & Wilcox Co.  
CUDLIN, J.J. :Babcock & Wilcox Co.  
DATE ISS:78/06/09, 1p. ,48x:19343-349,UDI:GPU 0617 ,TN:GB\*

307060535 Power Generation Group ECCS Analysis Unit Jul Activities Rept.

DUNN, B.H. :Babcock & Wilcox Co.  
WOMACK, E.A. :Babcock & Wilcox Co.  
DATE ISS:78/07/31, 6pp. ,48x:19343-350,UDI:GPU 0618 ,TN:GB\*

307090232 Forwards ECCS analysis unit activities rept for Apr 1979.

DUNN, B.W. :Babcock & Wilcox Co.  
WOMACK, E.A. :Babcock & Wilcox Co.  
DATE ISS:80/04/29, 5pp. ,48x:19482-111,UDI:GPU 0619 ,TN:GB\*

307090344 General calculations.

\* :Babcock & Wilcox Co.  
:   
DATE ISS:82/09/15, 5pp. ,48x:19475-001,UDI:GPU 0620 ,TN:GB\*

307090347 verification analysis calculation.

\* :Babcock & Wilcox Co.  
:   
DATE ISS:82/09/15, 661pp. ,48x:19475-006,UDI:GPU 0621 ,TN:GB\*

307060539 Memo re leak feasibility.

\* :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:82/09/16, 2pp. ,48x:19343-356,UDI:GPU 0622 ,TN:GB\*

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307060541 "Physics Test Orientation for Engineers/E3," Training  
Svcs Form T203.

\* :Babcock & Wilcox Co.  
: DATE ISS:77/06/30, 1p. ,48x:19343-358,ODI:GPU 1000 ,TN:GB\*

307060544 "NSS Orientation for Experienced Engineers & Operators/02,"  
Training Svcs Form T302.

\* :Babcock & Wilcox Co.  
: DATE ISS:77/06/30, 1p. ,48x:19343-359,ODI:GPU 1001 ,TN:GB\*

307060549 "Replacement Operator Training/03," Training Svcs Form T303.

\* :Babcock & Wilcox Co.  
: DATE ISS:77/06/30, 1p. ,48x:19343-360,ODI:GPU 1002 ,TN:GB\*

307060572 "Simulator Requalification Training/04," Training Svc Form  
T304.

\* :Babcock & Wilcox Co.  
: DATE ISS:77/06/30, 1p. ,48x:19344-001,ODI:GPU 1003 ,TN:GB\*

307120731 Procedure EP 1202.06 "Loss of Reactor Coolant & Reactor  
Coolant Pressure."

HUMPHREYS,G.D. :Toledo Edison Co.  
: DATE ISS:76/06/28, 26pp. ,48x:19494-035,ODI:GPU 1004 ,TN:GB\*

307060579 Rev 3 to D.S "Loss of Reactor Coolant/RCS Pressure."

GRAHAM,D. :Sacramento Municipal Utility District  
: DATE ISS:76/07/27, 8pp. ,48x:19344-002,ODI:GPU 1010 ,TN:GB\*



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307060584 Rev 6 to D.5, "Loss of Reactor Coolant/RCS Pressure."

CARTER, M. : Sacramento Municipal Utility District  
:  
DATE ISS: 78/04/27, 9pp. , 48x:19344-010, ODI:GPU 1011 , TN:GB\*

307060588 Rev 4 to A.3 "Pressurizer & Pressurizer Relief Tank Sys."

CARTER, M. : Sacramento Municipal Utility District  
:  
DATE ISS: 78/05/04, 28pp. , 48x:19344-020, ODI:GPU 1012 , TN:GB\*

307060592 Rev 5 to A.2 "Reactor Coolant Pump Sys."

CARTER, M. : Sacramento Municipal Utility District  
:  
DATE ISS: 78/02/23, 26pp. , 48x:19344-049, ODI:GPU 1013 , TN:GB\*

307060595 Rev 1 to D.12 "Reactor Coolant Pump/Motor Emergencies."

MITCHELL, G.E. : Sacramento Municipal Utility District  
:  
DATE ISS: 74/12/08, 4pp. , 48x:19344-075, ODI:GPU 1014 , TN:GB\*

307060599 Rev 1 to D.15 "Pressurizer Sys Failure."

MITCHELL, G.E. : Sacramento Municipal Utility District  
:  
DATE ISS: 75/12/16, 5pp. , 48x:19344-079, ODI:GPU 1015 , TN:GB\*

307120741 Resume of RT Lahey.

LAHEY, R.T. : Rensselaer Polytechnic Inst.  
:  
DATE ISS: 83/07/11, 14pp. , 48x:19494-062, ODI:GPU 2001 , TN:GB\*

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307120749 "Summary of Ack Scientific or Engineering Attainments."

LAHEY, R. :Kensselaer Polytechnic Inst.

DATE ISS:83/07/11, 6pp. ,48x:19494-078,ODI:GPU 2002 ,TN:GB\*

307120769 "Historical Profile of US nuclear Power Development."

\* :Atomic Industrial Forum

DATE ISS:81/12/31, 9pp. ,48x:19494-084,ODI:GPU 2003 ,TN:GB\*

307120778 Title page & excerpts from NUREG-0667, "Transient response of B&W Designed Reactors."

\* :Office of Nuclear Reactor Regulation, Director

DATE ISS:80/05/31, 4pp. ,48x:19494-093,ODI:GPU 2004 ,TN:GB\*

307120785 Title page & excerpts from NUREG-0560, "Staff Rpt on Generic Assessment of Feedwater Transients in PWRs Designed by B&W."

\* :Office of Nuclear Reactor Regulation, Director

DATE ISS:79/05/31, 5pp. ,48x:19494-098,ODI:GPU 2005 ,TN:GB\*

307070274 Graph for "Pressure & Temp Limitations for Cooldown."

\* :General Public Utilities - GPU Service Corp.

DATE ISS:83/07/06, 1p. ,48x:19336-072,ODI:GPU 20166 ,TN:GB\*

307070279 "Elementary wiring Diagrams of RCS Pressurizer Auto Vent to Quench TK for Davis-Besse."

\* :Bechtel Corp.  
:Toledo Edison Co.

DATE ISS:71/10/01, 1p. ,48x:19336-073,ODI:GPU 2019 ,TN:GB\*

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- 307070287 Speech entitled "Operating Philosophy at TMI," presented at 780306-07 nuclear operating experience seminar in Hershey, PA.
- MILLER, G.P. :Metropolitan Edison Co.  
:  
DATE ISS:78/03/06, 11pp. ,48x:19338-108,ODI:GPU 2026 ,TN:GB11
- 307120928 Designates ad hoc committee to investigate & submit interim & final repts re 780423 TMI-2 cooldown transient.
- KEATEN, R.A. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:78/05/02, 1p. ,48x:19503-130,ODI:GPU 2046 ,TN:GB\*
- 307120931 Evaluates areas of concern following 780423 reactor trip/ cooldown incident. Areas discussed include reactor coolant pumps, control rod drive mechanisms, fuel components, RCS water chemistry, transient results & reactor coolant piping.
- ROGERS, L.C. :Babcock & Wilcox Co.  
MILLER, G.P. :Metropolitan Edison Co.  
DATE ISS:78/05/02, 8pp. ,46x:19503-131,ODI:GPU 2047 ,TN:GB\*
- 307120933 Advises that info re evaluation of 780423 transient being developed & accumulated. Conclusions re level transient in pressurizer discussed.
- ROGERS, L.C. :Babcock & Wilcox Co.  
MILLER, G.P. :Metropolitan Edison Co.  
DATE ISS:78/05/05, 4pp. ,48x:19503-139,ODI:GPU 2048 ,TN:GB\*
- 307120937 Revised Tech Specs re ECCS.
- \* :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:83/07/11, 25pp. ,48x:19503-143,ODI:GPU 2049 ,TN:GB\*
- 307120940 Tech Spec Page 3/4 4-5 re RCS/pressurizer.
- \* :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:83/07/11, 1p. ,48x:19503-168,ODI:GPU 2050 ,TN:GB\*

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307080004 Forwards LER 78-013/01T-0.

HERBEIN, J.G. : Metropolitan Edison Co.  
GRIER, B.H. : Region 1, Philadelphia, Office of the Director  
DATE ISS: 78/05/09, 1p. , 48x: 19338-174, ODI: GPU 2051 , TN: GB\*

307120924 Forwards IE Bulletin 77-05, "Electrical Connector Assemblies." Action required.

GRIER, B.H. : Region 1, Philadelphia, Office of the Director  
HERBEIN, J.G. : Metropolitan Edison Co.  
DATE ISS: 77/11/08, 1p. , 48x: 19503-169, ODI: GPU 2052 , TN: GB\*

307120927 IE bulletin 77-05, "Electrical Connector Assemblies."

\* : Office of Inspection & Enforcement, Office of the Director  
: DATE ISS: 77/11/08, 4pp. , 48x: 19503-170, ODI: GPU 2052 , TN: GB\*

307120930 Forwards IE bulletin 77-05A, "Electrical Connector Assemblies," supplementing IE Bulletin 77-05. Action required.

GRIER, B.H. : Region 1, Philadelphia, Office of the Director  
HERBEIN, J.G. : Metropolitan Edison Co.  
DATE ISS: 77/11/15, 1p. , 48x: 19503-174, ODI: GPU 2052 , TN: GB\*

307120935 IE Bulletin 77-05A, "Electrical Connector Assemblies."

\* : Office of Inspection & Enforcement, Office of the Director  
: DATE ISS: 77/11/15, 1p. , 48x: 19503-175, ODI: GPU 2052 , TN: GB\*

307120938 Responds to IE Bulletin 77-05 re failure of pin & socket type electrical connectors in post-LOCA containment environ. Subj connectors used only in control rod drive mechanisms & neutron detectors which do not operate during LOCA.

HERBEIN, J.G. : Metropolitan Edison Co.  
GRIER, B.H. : Region 1, Philadelphia, Office of the Director  
DATE ISS: 77/12/08, 2pp. , 48x: 19503-176, ODI: GPU 2052 , TN: GB\*

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307120944 Responds to IE Bulletin 77-05 re failure of pin & socket type electrical connectors in post-LOCA containment environ. Subi connectors used only in control rod drive mechanisms & neutron detectors which do not operate during LOCA

\* :Metropolitan Edison Co.  
GRIER, H.H. : Region 1, Philadelphia, Office of the Director  
DATE ISS:78/01/13, 2pp. ,48x:19503-178,ODI:GPU 2052 ,TN:GB\*

307120949 Responds to IE Bulletin 77-05A, reviewing all connectors required to mitigate accidents which could adversely affect safety function performance.

\* :Metropolitan Edison Co.  
GRIER, H.H. : Region 1, Philadelphia, Office of the Director  
DATE ISS:77/12/15, 2pp. ,48x:19503-180,ODI:GPU 2052 ,TN:GB\*

307120954 Responds to IE bulletin 77-05A, reviewing all connectors required to mitigate accidents which could adversely affect safety function performance. Power range nuclear instruments not required to mitigate accidents.

HERBEIN, J.G. :Metropolitan Edison Co.  
GRIER, H.H. : Region 1, Philadelphia, Office of the Director  
DATE ISS:78/01/20, 2pp. ,48x:19503-182,ODI:GPU 2052 ,TN:GB\*

307080011 Pages 471 & 472 of App A, "Requalification Programs for Licensed Operators of Production & Utilization Facilities."

\* :National Archives & Records Service  
DATE ISS:76/05/03, 2pp. ,48x:19338-177,ODI:GPU 2054 ,TN:GB\*

307080061 Forwards IE Insp Rept 50-320/78-23 on 781107-09 & 16-17.

BRUNNER, E.J. : Region 1, Philadelphia, Reactor Operations Nuclear Support  
HERBEIN, J.G. :Metropolitan Edison Co.  
DATE ISS:78/11/30, 2pp. ,48x:19339-069,ODI:GPU 2102 ,TN:GB\*

307080091 Forwards IE Insp Rept 50-320/78-39 on 781228-29. No noncompliance noted.

BRUNNER, E.J. : Region 1, Philadelphia, Reactor Operations Nuclear Support  
HERBEIN, J.G. :Metropolitan Edison Co.  
DATE ISS:79/01/12, 2pp. ,48x:19339-099,ODI:GPU 2104 ,TN:GB\*

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307080382 Photograph of RCS control panel.

\* : General Public Utilities - GPU Service Corp.  
: :  
DATE ISS:83/07/07, 1p. ,48x:19339-210,ODI:GPU 2110 ,TN:GB\*

307120896 Operator License OP-4601 for ER Frederick at DPR-73.

COLLIN,P. : Operator Licensing Branch  
: :  
DATE ISS:77/10/19, 2pp. ,48x:19499-350,ODI:GPU 2150 ,TN:GB\*

307120898 Operator License OP-4601-01 for ER Frederick at DPR-73.

COLLINS,P.F. : Operator Licensing Branch  
: :  
DATE ISS:79/10/19, 1p. ,48x:19499-352,ODI:GPU 2150 ,TN:GB\*

307120905 Operator License OP-4601-2 for ER Frederick at DPR-73.

HANAUER,S.H. : Division of Systems Safety  
: :  
DATE ISS:81/10/17, 1p. ,48x:19499-353,ODI:GPU 2150 ,TN:GB\*

307120908 Operator License SOP 4145 for ER Frederick at DPR-73.

THOMPSON,H.L. : Division of Human Factors Safety  
: :  
DATE ISS:82/01/22, 1p. ,48x:19499-354,ODI:GPU 2150 ,TN:GB\*

307120918 Application by ER Frederick for operator license.

FREDERICK,E.R. : Metropolitan Edison Co.  
COLLINS,P.F. : Operator Licensing Branch  
DATE ISS:77/07/05, 4pp. ,48x:19500-168,ODI:GPU 2152 ,TN:GB\*



U. S. NUCLEAR REGULATORY COMMISSION  
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307050416 "Reactor Theory Review, 1978-79, Requalification Review Course."

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/02, 64pp. ,48X:19230-103, OOI:GPU 2157 ,TN:GB\*

307020240 "First Law Analysis of Core Refill After PORV Closure at TMI-2 (95% UTSG level)."

JONES, O.C. :Northeast Consultants, Inc.  
: DATE ISS:82/12/31, 22pp. ,48X:19228-033, OOI:GPU 2211 ,TN:GB\*

307020245 Vol 2, Appendices to "Evaluation of Transient behavior & Small RCS breaks in 177 Fuel Assembly Plant."

\* :Babcock & Wilcox Co.  
: DATE ISS:79/05/07, 175pp. ,48X:19228-055, OOI:GPU 2212 ,TN:GB\*

307120672 Testimony of DM Dunn deposition in New York, NY. Pp 1,072 & 1,080-1,083.

DUNN, D.M. :Babcock & Wilcox Co.  
: DATE ISS:82/09/16, 5pp. ,48X:19497-069, OOI:GPU 2218 ,TN:GB\*

307020261 Pages of transcript re PMP 01. Pp 1,045-1,052.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/02, 9pp. ,48X:19222-059, OOI:GPU 2220 ,TN:GB\*

307020263 Informs that sys analysis Task 27 approx four days behind schedule, due to excessive conservatism found in one of vital analysis inputs. Sys analysis should be completed by 791105.

GRIBBLE, R.M. :Babcock & Wilcox Co.  
BROWN, S.K. :Babcock & Wilcox Co.  
DATE ISS:79/10/26, 2pp. ,48X:19222-068, OOI:GPU 2221 ,TN:GB\*

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307050260 work request approval re addition of moisture separator.

WEAVER, D.E. : General Public Utilities - GPU Service Corp.  
: :  
DATE ISS: 78/03/24, 2pp. , 48x:19222-070, ODI:GPU 2235 , TN:GB\*

307050277 Vol 4 of "PWR Technology."

\* : Babcock & Wilcox Co.  
: :  
DATE ISS: 71/01/31, 521pp. , 48x:19222-120, ODI:GPU 2254 , TN:GB\*

307050279 "Util Staffing & Training for Nuclear Power."

\* : Atomic Energy Commission  
: :  
DATE ISS: 73/06/30, 90pp. , 48x:19223-281, ODI:GPU 2255 , TN:GB11

307060545 "American Natl Std for Selection & Training of Nuclear Power Plant Personnel."

\* : American Nuclear Society  
: :  
DATE ISS: 78/01/17, 19pp. , 48x:19372-007, ODI:GPU 2256 , TN:GB\*

307060556 Reissued Reg Guide 1.8, Rev 1, "Personnel Selection & Training."

\* : Office of Standards Development, Director  
: :  
DATE ISS: 77/05/31, 2pp. , 48x:19372-026, ODI:GPU 2257 , TN:GB\*

307060565 Proposed Rev 2 to Reg Guide 1.8, Task RS 807-5, "Personnel Selection & Training."

\* : Office of Standards Development, Director  
: :  
DATE ISS: 79/02/28, 8pp. , 48x:19372-027, ODI:GPU 2258 , TN:GB\*

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307060585 NRC OPERATOR LICENSING GUIDE.

COLLINS, P.F. : Office of Nuclear Reactor Regulation, Director  
DATE ISS: 76/02/29, 121pp. , 48x:19372-045, ODI:GPU 2259 , TN:GB\*

307070010 Forwards results of 1978-79 requal written exam.

BEERS, M.L. : Metropolitan Edison Co.  
MILLER, G.P. : Metropolitan Edison Co.  
DATE ISS: 79/05/01, 5pp. , 48x:19372-176, ODI:GPU 2264 , TN:GB\*

307070034 Forwards schedule detailing 2-wk program to prepare second group of Unit 2 control room operators for 8 wks of simulator training for cold license.

TSAGGARIS, A. : Metropolitan Edison Co.  
HERBEIN, J. : Metropolitan Edison Co.  
DATE ISS: 76/03/17, 2pp. , 48x:19372-192, ODI:GPU 2267 , TN:GB\*

307070229 Responds to questions re operating parameters.

FLINT, J.H. : Babcock & Wilcox Co.  
BOLTZ, D.J. : Babcock & Wilcox Co.  
DATE ISS: 78/03/03, 9pp. , 48x:19372-241, ODI:GPU 2275 , TN:GB\*

307070241 Telecopy ltr submitting draft training svcs contract for cold license candidates.

\* : NUS Corp.  
MOELLER, P. : Metropolitan Edison Co.  
DATE ISS: 74/03/08, 13pp. , 48x:19372-250, ODI:GPU 2276 , TN:GB\*

307070251 Provides list of recommended changes to shift supervisor development program, in light of NRC exams.

HITZ, G.R. : Metropolitan Edison Co.  
MILLER, G.P. : Metropolitan Edison Co.  
DATE ISS: 77/08/18, 13pp. , 48x:19372-270, ODI:GPU 2279 , TN:GB\*

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307070297 Summary of meeting w/NRC re operator training & Unit 2  
startup test program.

O'HANLON, J. :Metropolitan Edison Co.  
:Metropolitan Edison Co.  
DATE ISS:78/05/12, 69pp. ,48x:19373-018,ODI:GPU 2286 ,TN:GB\*

307210319 "Three Mile Island Nuclear Station Unit 1 - Unit 2  
Comparison."

\* :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:83/07/21, 67pp. ,48x:19694-246,ODI:GPU 2287 ,TN:GB\*

307070303 "Emergency Procedure Review Schedule."

\* :Metropolitan Edison Co.  
:  
DATE ISS:78/12/03, 1p. ,48x:19373-087,ODI:GPU 2288 ,TN:GB\*

307070348 Forwards NRC inspector rept on training program insps, for  
review. Accelerated effort should be made to implement forms  
on training programs & assure availability of proper  
documentation.

ZECHMAN, R.W. :Metropolitan Edison Co.  
DUBIEL, R. :Metropolitan Edison Co.  
DATE ISS:77/11/18, 2pp. ,48x:19373-127,ODI:GPU 2296 ,TN:GB\*

307070353 Discusses training program for Unit 2 auxiliary operators.  
List of areas to be covered encl.

WILLIAMS, N.A. :Metropolitan Edison Co.  
:Metropolitan Edison Co.  
DATE ISS:76/07/16, 6pp. ,48x:19373-129,ODI:GPU 2297 ,TN:GB\*

307070358 "PWR Technology, TMI Unit 2," Vol 4, "Safety Analysis."

\* :Babcock & Wilcox Co.  
:  
DATE ISS:83/07/06, 10pp. ,48x:19373-135,ODI:GPU 2298 ,TN:GB\*

U. S. NUCLEAR REGULATORY COMMISSION  
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307070363 Application by CC Faust for reactor operator license.

FAUST, C.C. : Metropolitan Edison Co.  
COLLINS, P.F. : Operator Licensing Branch  
DATE ISS: 77/07/05, 8pp., 48x: 19373-146, ODI: GPU 2300 , TN: GB\*

307070368 Application by FJ Scheiman for reactor operator license.

SCHEIMAN, F.J. : Metropolitan Edison Co.  
DATE ISS: 77/07/05, 8pp., 48x: 19373-154, ODI: GPU 2301 , TN: GB\*

307070384 Clarifies role of training dept & svc provided by training administrators. Training in areas not listed must be supported by personnel in each dept.

ZECHMAN, R.W. : Metropolitan Edison Co.  
DATE ISS: 78/02/21, 2pp., 48x: 19373-164, ODI: GPU 2303 , TN: GB\*

307070393 Reg Guide 1.114, Rev 1, "Guidance on being Operator at Controls of Nuclear Power Plant."

\* : Office of Standards Development, Director  
DATE ISS: 76/11/30, 2pp., 48x: 19373-166, ODI: GPU 2304 , TN: GB\*

307070410 Power plant exam results summary sheets for miscellaneous facilities.

\* : NRC - No Detailed Affiliation Given  
DATE ISS: 78/11/10, 53pp., 48x: 19373-175, ODI: GPU 2306 , TN: GB\*

307070419 News article from 790520 Charlotte Observer re capability of nuclear plant operators to perform job.

\* : Charlotte Observer, Charlotte, NC  
DATE ISS: 79/05/20, 2pp., 48x: 19373-210, ODI: GPU 2307 , TN: GB\*

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307070426 TMI nuclear station annual requalification exam, Cycle 5,  
1978-79.

\* :Metropolitan Edison Co.  
:  
DATE ISS:79/07/30, 16pp. ,48X:19373-212,ODI:GPU 2308 ,TN:GB\*

307070434 Emergency procedure review schedule.

\* :Metropolitan Edison Co.  
:  
DATE ISS:78/12/03, 1p. ,48X:19373-228,ODI:GPU 2309 ,TN:GB\*

307070440 "Guide for Licensing of Facility Operators, Including  
Senior Operators."

\* :Atomic Energy Commission  
:  
DATE ISS:65/11/30, 67pp. ,48X:19373-229,ODI:GPU 2312 ,TN:GB\*

307070463 "Selection & Training of Nuclear Power Plant Personnel."

\* :American National Standards Institute  
:  
DATE ISS:71/03/08, 15pp. ,48X:19373-291,ODI:GPU 2313 ,TN:GB\*

307070471 IE Bulletin 79-05, "Nuclear Incident at TMI" & IE Bulletin  
79-05A, "Nuclear Incident at TMI - Suppl."

\* :Office of Inspection & Enforcement, Office of the Director  
:  
DATE ISS:79/04/01, 21pp. ,48X:19373-306,ODI:GPU 2314 ,TN:GB\*

307070477 Discusses IE Investigation Rept 50-320/79-10 on 790328-0731  
& forwards notice of violation & proposed imposition of  
civil penalties in amount of \$155,000.

STELLO, V. :Office of Inspection & Enforcement, Office of the Director  
ARNOLD, R.C. :Metropolitan Edison Co.  
DATE ISS:79/10/31, 4pp. ,48X:19373-327,ODI:GPU 2316 ,TN:GB\*



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307080158 Requests schedule for resolution of pinch breaks.

HALLMAN, D.F. :Babcock & Wilcox Co.  
TAYLOR, J.H. :Babcock & Wilcox Co.  
DATE ISS:79/09/17, 1p. ,48x:19361-142,001:GPU 2407 ,TN:GB\*

307080299 Forwards nine documents re processing of "Preliminary Rept of Safety Concern," PCS 10-78 per 790530 telcon request.

TAYLOR, J.H. :Babcock & Wilcox Co.  
WARD, W.J. :Office of Inspection & Enforcement, Office of the Director  
DATE ISS:79/05/30, 2pp. ,48x:19361-221,001:GPU 2427 ,TN:GB\*

307080305 Discusses substantial safety hazard rept re small break on discharge side of reactor coolant pumps for 177FA lowered loop plants. Signature & date requested to ack notification of concern.

TAYLOR, J.H. :Babcock & Wilcox Co.  
MACMILLAN, J.H. :Babcock & Wilcox Co.  
DATE ISS:78/05/11, 1p. ,48x:19361-223,001:GPU 2428 ,TN:GB\*

307080346 Requests change number for investigation of adequacy of HPI pumps to handle small break at pump discharge. Continued lack of cooperation will necessitate filing preliminary significant deficiency rept.

JONES, C.W. :Babcock & Wilcox Co.  
DUERSON, S.H. :Babcock & Wilcox Co.  
DATE ISS:77/05/09, 1p. ,48x:19361-243,001:GPU 2433 ,TN:GB\*

307080360 Summary of 780424 meetings w/CPC re mechanism by which B&W assures that all site problems at other sites are reviewed for applicability to contract & that corrective actions are taken where appropriate.

BAKER, H.A. :Babcock & Wilcox Co.  
PRYOR, C.W. :Babcock & Wilcox Co.  
DATE ISS:78/05/09, 2pp. ,48x:19361-252,001:GPU 2437 ,TN:GB\*

307080367 Requests Safety Analysis be alerted to site operational problems & participate in resolution.

ROY, D.H. :Babcock & Wilcox Co.  
TAYLOR, J.H. :Babcock & Wilcox Co.  
DATE ISS:78/05/16, 4pp. ,48x:19361-254,001:GPU 2438 ,TN:GB\*

U. S. NUCLEAR REGULATORY COMMISSION  
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8307070482 Notice of violation & proposed imposition of civil penalties  
in amount of \$155,000 from investigation on 790328-0731.

\* :Office of Inspection & Enforcement, Office of the Director  
:  
DATE ISS:79/10/31, 12pp. ,48x:19373-331,ODI:GPU 2316 ,TN:GB\*

8307070499 AO-287/75-7: on 750613, during routine shutdown for maint,  
reactor power decreased to approx 15% causing minor sys  
transient which resulted in opening of power actuated  
pressurizer relief valve 3RC-66. Caused by operator error.

PARKER, W.O. :Duke Power Co.  
MUSELEY, N.C. : Region 2, Atlanta, Office of the Director  
DATE ISS:75/06/27, 2pp. ,48x:19374-077,ODI:GPU 2318 ,TN:GB\*

8307070508 recommends EP-2202-1.5, "Pressurizer Sys Failure - Stuck  
Open Spray Valve," be revised to incorporate info discovered  
during recent investigation.

SHETLER, J.R. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:76/01/08, 3pp. ,48x:19374-079,ODI:GPU 2319 ,TN:GB\*

8307080097 Incident Investigation Rept 8-350, on 750613, Oconee Unit 3  
3RC-66 stuck in open position resulting in reactor  
protection sys low pressure trip.

\* :Duke Power Co.  
:  
DATE ISS:75/06/13, 43pp. ,48x:19360-101,ODI:GPU 2333 ,TN:GB\*

8307120622 Forwards list of trial witnesses to be called on behalf of  
plaintiffs. List of rebuttal witnesses will be submitted on  
820914.

KLINGSBERG, D. :Kaye, Scholer, Fierman, Hays & Handler  
FISKE, R. :Davis, Polk & Wardwell  
DATE ISS:82/09/27, 3pp. ,48x:19495-152,ODI:GPU 2350 ,TN:GB\*

8307080151 Discusses anticipated transient frequency of events per yr  
for loss of feedwater, loss of electrical power & turbine/  
generator induced reactor trips above 0%, 25%, 50% & 75%  
power. Tables encls.

MONTGOMERY, R.L. :Babcock & Wilcox Co.  
OELKERS, E. :Babcock & Wilcox Co.  
DATE ISS:78/11/21, 8pp. ,48x:19361-134,ODI:GPU 2406 ,TN:GB11

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307080379 Ack note w/background info re C-E.

KOSIBA, R.E. :Babcock & Wilcox Co.  
TAYLOR, J.H. :Babcock & Wilcox Co.  
DATE ISS:78/12/13, 2pp. ,48X:19361-259,ODI:GPU 2440 ,TN:GB\*

307080385 Encourages Engineering Dept employees to continue diligent work & cooperate fully w/F Fahland in getting availability problem of operating units turned around.

ROY, O.H. :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:78/11/30, 1p. ,48X:19361-261,ODI:GPU 2441 ,TN:GB\*

307080340 Questions availability record of plants.

VANNUY, W.M. :Babcock & Wilcox Co.  
FAVRET, L.M. :Babcock & Wilcox Co.  
DATE ISS:78/10/05, 2pp. ,48X:19361-262,ODI:GPU 2442 ,TN:GB\*

307080394 Discusses SMUD transient on 780302.

\* :Babcock & Wilcox Co.  
:Babcock & Wilcox Co.  
DATE ISS:79/05/14, 2pp. ,48X:19361-264,ODI:GPU 2443 ,TN:GB\*

307080444 Requests schedule for submittal of assessment of small break LOCA for 205 fuel assembly plants by 790725.

PATTERSON, D.R. :Tennessee Valley Authority  
MCFARLAND, J. :Babcock & Wilcox Co.  
DATE ISS:79/07/09, 1p. ,48X:19361-286,ODI:GPU 2450 ,TN:GB\*

307080458 Advises that as of 770103 B&W Nuclear Svc Dept Field Ofc is established at site supporting Unit 2. Ofc will represent B&W on all testing & operations matters & provide advice & consultation during precritical test.

ROGERS, L.C. :Babcock & Wilcox Co.  
HERBEIN, J.G. :Metropolitan Edison Co.  
DATE ISS:77/01/03, 4pp. ,48X:19361-293,ODI:GPU 2452 ,TN:GB\*

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307080477 Requests meeting to present recommendations for facility availability improvement, based on assessment of operating records & discussions w/plant staff.

MACMILLAN, J. :Babcock & Wilcox Co.  
HERBEIN, J. :Metropolitan Edison Co.  
DATE ISS:78/11/27, 2pp. ,48x:19361-311, ODI:GPU 2455 ,TN:GB\*

307080528 Submits June activities rept.

JONES, R.C. :Babcock & Wilcox Co.  
DUNN, B.M. :Babcock & Wilcox Co.  
DATE ISS:77/06/30, 5pp. ,48x:19362-013, ODI:GPU 2463 ,TN:GB\*

307080533 "Progress Rept Sept 1977."

KELLY, J. :Babcock & Wilcox Co.  
DATE ISS:77/09/30, 1p. ,48x:19362-021, ODI:GPU 2465 ,TN:GB\*

307070258 "Small Break - Auxiliary Feedwater Level."

CARTIN, L.R. :Babcock & Wilcox Co.  
DATE ISS:78/08/01, 33pp. ,48x:19339-239, ODI:GPU 2471 ,TN:GB\*

307070261 "Risk Program R-39."

CARTIN, L.R. :Babcock & Wilcox Co.  
DATE ISS:78/11/02, 10pp. ,48x:19339-272, ODI:GPU 2472 ,TN:GB\*

307070268 Reviews "Current Events - Power Reactors, Jul-Aug 1977." No action required.

TOOLE, R. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:78/01/15, 11pp. ,48x:19339-294, ODI:GPU 2474 ,TN:GB\*

U. S. NUCLEAR REGULATORY COMMISSION  
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307070275 Reviews "Operating Experience - bulletin Info Rept," dtd  
780315.No action required.

TOOLE,R. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:78/05/05, 5pp. ,48x:19339-304,ODI:GPU 2475 ,TN:GB\*

307070278 Reviews "Operating Experience - Bulletin Info Rept," dtd  
780630.Required action completed.

TOOLE,R. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:78/07/26, 10pp. ,48x:19339-309,ODI:GPU 2476 ,TN:GB\*

307070284 Reviews "Current Events - Power Reactors,Jan-Feb 1978." No  
action required.

TOOLE,R. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:78/05/10, 15pp. ,48x:19339-325,UDI:GPU 2477 ,TN:GB\*

307070290 Reviews "Current Events - Power Reactors,Mar-Apr 1978." No  
action required.

TOOLE,R. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:78/04/30, 15pp. ,48x:19339-339,UDI:GPU 2478 ,TN:GB\*

307070309 "Current Events - Power Reactors,Aug 1974."

\* :Atomic Energy Commission  
:  
DATE ISS:74/08/31, 24pp. ,48x:19358-087,ODI:GPU 2479 ,TN:GB\*

307070314 "Current Events - Power Reactors,Dec 1974." No action  
required.

BARTON,J. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:75/02/24, 12pp. ,48x:19358-111,ODI:GPU 2480 ,TN:GB\*



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307070317 Reviews "Current Events - Power Reactors, Jan 1975." Action required.

TOOLE, R. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:75/04/15, 15pp. ,48x:19358-123,ODI:GPU 2481 ,TN:GB\*

307070323 Reviews "Current Events - Power Reactors," Jun-Jul 1975.No action required.

TOOLE, R. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:75/10/23, 14pp. ,48x:19358-138,ODI:GPU 2482 ,TN:GB\*

307070327 Reviews "Current Events - Power Reactors," Apr-May 1975. Action required.

BARTON, J. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:75/10/22, 12pp. ,48x:19358-152,ODI:GPU 2483 ,TN:GB\*

307070334 Reviews "Current Events - Power Reactors," Mar-Apr 1976.No action required.

BARTON, J. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:76/08/20, 16pp. ,48x:19358-164,ODI:GPU 2484 ,TN:GB\*

307070346 Reviews "Current Events - Power Reactors," Oct 1975 - Feb 1976.

BARTON, J. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:76/05/14, 14pp. ,48x:19358-180,ODI:GPU 2485 ,TN:GB\*

307070352 Reviews "Current Events - Power Reactors," Feb 1975.Action required.

BARTON, J. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:75/06/26, 14pp. ,48x:19358-194,ODI:GPU 2486 ,TN:GB\*



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307070355 Reviews "Current Events - Power Reactors," May-June 1976.  
No action required.

BARTON, J. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:76/10/02, 11pp. ,48X:19358-208,ODI:GPU 2487 ,TN:GB\*

307070359 Reviews "Current Events - Power Reactors," Oct 1974.

FOOLE, R. :General Public Utilities - GPU Service Corp.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:75/03/02, 2pp. ,48X:19358-219,ODI:GPU 2488 ,TN:GB\*

307070362 "Current Events - Power Reactors," Oct 1974.

\* :Atomic Energy Commission  
:  
DATE ISS:74/10/31, 18pp. ,48X:19358-221,ODI:GPU 2489 ,TN:GB\*

307070369 Summarizes status & schedule for meeting 10CFR50, App K requirements for revised ECCS evaluation per AEC 740104 issuance of final acceptance criteria. Suggested ltr for transmittal to AEC demonstrating compliance encl.

WARD, E.G. :Babcock & Wilcox Co.  
HEWARD, R.W. :General Public Utilities - GPU Service Corp.  
DATE ISS:74/07/31, 4pp. ,48X:19358-244,ODI:GPU 2491 ,TN:GB\*

307070383 Certifies B&W intention to file w/AEC Generic 177 Fuel Assembly Class Plant ECCS Analysis Rept on 740804. GPU will not have opportunity to perform indepth technical & licensing review.

DELICATE, W.S. :Babcock & Wilcox Co.  
:Atomic Energy Commission  
DATE ISS:74/06/10, 1p. ,48X:19358-251,ODI:GPU 2493 ,TN:GB\*

307060503 Package of marked-up util/NRC correspondence re IE bulletins, IE insps & responses from 1974-76.

MURAN, J.J. :Metropolitan Edison Co.  
:General Public Utilities - GPU Service Corp.  
DATE ISS:76/04/16, 476pp. ,48X:19369-214,ODI:GPU 2495 ,TN:GB\*

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3307060506 Forwards package of marked-up util/NRC correspondence re IE bulletins, circulars & responses for period 1976-78.

\* :NRC - No Detailed Affiliation Given  
:Metropolitan Edison Co.  
DATE ISS:78/01/26, 397pp. ,48X:19370-330,ODI:GPU 2496 ,TN:GB\*

3307080670 Forwards revised "Operating Guidelines for Small Breaks."  
Rev accomodates NRC comments received on 790508-09, App A,  
"Low Pressure Injection Cooling" should be examined &  
adjustments made to LPIS & RCS operation.

FAIRBURN, G.T. :Babcock & Wilcox Co.  
MILLER, G.P. :Metropolitan Edison Co.  
DATE ISS:79/05/11, 4pp. ,48X:19491-028,ODI:GPU 2502 ,TN:GB\*

3307080675 "Operating Guidelines for Small Breaks."

\* :Babcock & Wilcox Co.  
:.  
DATE ISS:79/05/09, 13pp. ,48X:19491-032,ODI:GPU 2502 ,TN:GB\*

3307080707 Informs that Unit 2 testing results indicate that min temp  
limit for starting fourth reactor coolant pump may be  
relaxed from previous requirements, Operating limits document  
will be changed accordingly.

ROGERS, L.C. :Babcock & Wilcox Co.  
MILLER, G.P. :Metropolitan Edison Co.  
DATE ISS:79/03/09, 2pp. ,48X:19491-105,ODI:GPU 2509 ,TN:GB\*

3307080710 Summarizes operating restrictions for reactor coolant pumps  
& updates restrictions in limits & precautions document.

ROGERS, L.C. :Babcock & Wilcox Co.  
TOOLE, R.J. :General Public Utilities - GPU Service Corp.  
DATE ISS:79/09/29, 7pp. ,48X:19491-107,ODI:GPU 2510 ,TN:GB\*

3307080735 Forwards rev to interim operating mat recommendations for  
curtailing NSSS maneuvering rates. Encl rev should clarify  
recommendations provided in 740717 ltr.

ROGERS, L.C. :Babcock & Wilcox Co.  
HERVEIN, J.G. :Metropolitan Edison Co.  
DATE ISS:74/08/00, 2pp. ,48X:19491-162,ODI:GPU 2515 ,TN:GB\*

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307080739 Recommends that reactor coolant pump motor stator temp setpoint be kept down to 145 C to permit corrective action following alarm before max allowable temp reached, in response to licensee request to change setpoint.

ROGERS, L.C. : Babcock & Wilcox Co.

MILLER, G.P. : General Public Utilities - GPU Service Corp.

DATE ISS: 74/07/19, 2pp., 48x: 19491-164, ODI: GPU 2516 , TN: GB\*

309200570 Excerpt of RC Jones testimony at TMI-1 restart hearings.

JONES, R.C. : General Public Utilities - GPU Service Corp.

DATE ISS: 80/11/30, 2pp., 48x: - , ODI: GPU 2517 , TN: GB\*

307080743 Excerpt of RC Jones testimony at TMI-1 restart hearings.  
P 4, 596.

JONES, R.C. : General Public Utilities - GPU Service Corp.

DATE ISS: 80/11/30, 2pp., 48x: 19491-156, ODI: GPU 2518 , TN: GB\*

307080748 Marked-up excerpts of RC Jones testimony. Pp 4, 626-4, 631.

JONES, R.C. : General Public Utilities - GPU Service Corp.

DATE ISS: 80/11/30, 6pp., 48x: 19491-168, ODI: GPU 2519 , TN: GB\*

307080755 Marked-up of RC Jones testimony. Pp 4, 697-4, 698.

JONES, R.C. : General Public Utilities - GPU Service Corp.

DATE ISS: 80/11/30, 2pp., 48x: 19491-174, ODI: GPU 2520 , TN: GB\*

307080769 Marked-up excerpts of RC Jones testimony. Pp 4, 698-4, 699.

JONES, R.C. : General Public Utilities - GPU Service Corp.

DATE ISS: 80/11/30, 2pp., 48x: 19491-176, ODI: GPU 2521 , TN: GB\*

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307210315 Excerpt from transcript re steam generator water level.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:80/11/30, 1p. ,48x:19694-313,ODI:GPU 2522 ,TN:GB\*

307080775 IE bulletin 79-05, "Nuclear Incident at TMI."

\* :Office of Inspection & Enforcement, Office of the Director  
: DATE ISS:79/04/01, 3pp. ,48x:19491-200,ODI:GPU 2524 ,TN:GB\*

307080776 IE Bulletin 79-05A, "Nuclear Incident at TMI - Suppl."

\* :Office of Inspection & Enforcement, Office of the Director  
: DATE ISS:79/04/05, 5pp. ,48x:19491-203,ODI:GPU 2526 ,TN:GB\*

307080779 Operational log.

\* :Babcock & Wilcox Co.  
: DATE ISS:77/11/15, 33pp. ,48x:19491-211,ODI:GPU 2602 ,TN:GB\*

307080791 Operational log. Summary of closing of PORVs.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/05, 3pp. ,48x:19491-298,ODI:GPU 2624 ,TN:GB\*

307120665 "Pressurized Water Reactor Electric Generating Plant."

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/11, 3pp. ,48x:19495-206,ODI:GPU 3001 ,TN:GB\*

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307120668 "B&W Reactor Vessel & Internals - General Arrangement."

\* :General Public Utilities - GPU Service Corp.  
: ;  
DATE ISS:83/07/11, 3pp. ,48x:19495-209,ODI:GPU 3002 ,TN:GB\*

307120674 "B&W Fuel Assembly for Pressurized water Nuclear Reactors."

\* :General Public utilities - GPU Service Corp.  
: ;  
DATE ISS:83/07/11, 2pp. ,48x:19495-212,ODI:GPU 3003 ,TN:GB\*

307120677 "B&W Once Through Steam Generator (UTSG)."

\* :General Public utilities - GPU Service Corp.  
: ;  
DATE ISS:83/07/11, 3pp. ,48x:19495-214,ODI:GPU 3005 ,TN:GB\*

307120682 "B&W Pressurizer."

\* :General Public utilities - GPU Service Corp.  
: ;  
DATE ISS:83/07/11, 3pp. ,48x:19495-217,ODI:GPU 3006 ,TN:GB\*

307120686 "Three Mile Island - Unit 2."

\* :General Public utilities - GPU Service Corp.  
: ;  
DATE ISS:83/07/11, 3pp. ,48x:19495-220,ODI:GPU 3008 ,TN:GB\*

307120690 "Reactor Coolant Sys arrangement - Elevation, Three Mile  
Island Nuclear Station Unit 2."

\* :Metropolitan Edison Co.  
: ;  
DATE ISS:83/07/11, 3pp. ,48x:19495-223,ODI:GPU 3009 ,TN:GB\*

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3307090010 Figure 4.2-2, "RCS Arrangement - Elevation."

\* :Sacramento Municipal Utility District  
: DATE ISS:83/07/06, 1p. ,48x:19491-352,ODI:GPU 3010 ,TN:GB\*

3307120697 "Reactor Coolant Sys Arrangement - Elevation."

\* :Sacramento Municipal Utility District  
: DATE ISS:83/07/11, 3pp. ,48x:19495-226,ODI:GPU 3010 ,TN:GB\*

3307120702 "B&W 177 FA-Type Plants."

\* :General Public utilities - GPU Service Corp.  
: DATE ISS:83/07/11, 3pp. ,48x:19495-229,ODI:GPU 3011 ,TN:GB\*

3307120707 "B&W 177 FA-Type Plants Reactor Vessels."

\* :General Public utilities - GPU Service Corp.  
: DATE ISS:83/07/11, 3pp. ,48x:19495-232,ODI:GPU 3012 ,TN:GB\*

3307120712 "B&W 177 FA-Type Plants Steam Generators."

\* :General Public utilities - GPU Service Corp.  
: DATE ISS:83/07/11, 3pp. ,48x:19495-235,ODI:GPU 3013 ,TN:GB\*

3307120718 "B&W 177 FA-Type Plants Pressurizers."

\* :General Public utilities - GPU Service Corp.  
: DATE ISS:83/07/11, 2pp. ,48x:19495-238,ODI:GPU 3014 ,TN:GB\*



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3307120724 "Physical Plant Dimensions Summary Comparison."

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/11, 3pp. ,48x:19495-240,ODI:GPU 3015 ,TN:GB\*

3307090027 Slide presentation entitled "Control Room Indications."

\* :General Public utilities - GPU Service Corp.  
: DATE ISS:83/07/06, 1p. ,48x:19491-358,ODI:GPU 3032 ,TN:GB\*

3307120650 Util organizational chart.

\* :Metropolitan Edison Co.  
: DATE ISS:83/07/12, 1p. ,48x:19504-353,ODI:GPU 3037 ,TN:GB11

3307120723 Diagram of clad ballooning & clad rupture on 790328.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/12, 1p. ,48x:19504-270,ODI:GPU 3110 ,TN:GB\*

3307120729 Diagram of reflood of mildly oxidized clad.

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/11, 1p. ,48x:19504-271,ODI:GPU 3111 ,TN:GB\*

3307120733 "Oxidization of Cladding."

\* :General Public Utilities - GPU Service Corp.  
: DATE ISS:83/07/11, 1p. ,48x:19504-272,ODI:GPU 3112 ,TN:GB\*

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307120737 "Reflood of Severely Oxidized Clad."

\* :General Public Utilities - GPU Service Corp.  
:  
DATE ISS:83/07/11, 1p. ,48x:19504-273,ODI:GPU 3113 ,TN:GB\*

307120880 "Make-up/Let-down Sys,Make-up Mode Using Pump 1-A."

\* :General Public Utilities - GPU Service Corp.  
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DATE ISS:83/07/11, 1p. ,48x:19504-345,ODI:GPU 3140 ,TN:GB\*

307120903 Page 1 excerpt from GPU 790525 group discussion w/Miller,  
Ross & Zewe.Re interpretation of procedure for continued  
operation depending on capability to maintain RCS pressure  
& pressurizer level.

\* :General Public Utilities - GPU Service Corp.  
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DATE ISS:79/05/25, 1p. ,48x:19512-052,ODI:GPU 6004AA ,TN:GB\*

307130447 Page 1 excerpt from 790525 GPU group discussion w/Miller,  
Ross & Zewe.Discusses interpretation of procedure re  
continued operation depending on capability to maintain RCS  
pressure & pressurizer level.

\* :General Public Utilities - GPU Service Corp.  
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DATE ISS:79/05/25, 1p. ,48x:19512-050,ODI:GPU 6004AA ,TN:GB\*

307120904 Page 2 excerpt from GPU 790525 group discussion w/Ross,  
Miller,Seelinger & Zewe re solid water condition.

\* :General Public Utilities - GPU Service Corp.  
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DATE ISS:79/05/25, 1p. ,48x:19512-053,ODI:GPU 6004BB ,TN:GB\*

307130448 Page 2 excerpt from GPU 790525 group discussion w/Ross,  
Miller,Seelinger & Zewe re solid water conditions & make-up  
pump procedure.

\* :General Public Utilities - GPU Service Corp.  
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DATE ISS:79/05/25, 1p. ,48x:19512-051,ODI:GPU 6004BB ,TN:GB\*

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3307120910 Deposition of TF Scott on 820430 in New York, NY re concept  
of saturation, Pp 81-84.

SCOTT, T.F. :Babcock & Wilcox Co.  
:  
DATE ISS:82/04/30, 5pp. ,48x:19512-061, ODI:GPU 6008 ,TN:GB\*

3307050375 Transcript of T Scott deposition, Pp 81-84.

SCOTT, T. :General Public utilities - GPU Service Corp.  
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DATE ISS:83/07/02, 6pp. ,48x:19232-070, ODI:GPU 6009 ,TN:GB\*

3307050381 Transcript of R Davis on 820427 deposition in New York, NY.  
Pp 3,8-10,34-42 & 46.

DAVIS, R. :Babcock & Wilcox Co.  
:  
DATE ISS:82/04/27, 14pp. ,48x:19232-076, ODI:GPU 6012 ,TN:GB\*

3307050391 Transcript of testimony, Pp 74-80.

\* :General Public utilities - GPU Service Corp.  
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DATE ISS:83/07/02, 8pp. ,48x:19232-094, ODI:GPU 6014 ,TN:GB\*

3307050396 Transcript of C Michelson deposition, Pp 101-105.

MICHELSON, C. :General Public Utilities - GPU Service Corp.  
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DATE ISS:83/07/02, 7pp. ,48x:19232-102, ODI:GPU 6015 ,TN:GB\*

3307050400 Transcript of C Michelson testimony, Pp 81-90, 211, 237-238,  
247-249, 252-253 & 263-265.

MICHELSON, C. :General Public Utilities - GPU Service Corp.  
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DATE ISS:83/07/02, 22pp. ,48x:19232-109, ODI:GPU 6016 ,TN:GB\*

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3307050448 Transcript of DF Hallman 790716 deposition. Pp 4-9 & 11-40.

HALLMAN, D.F. : General Public Utilities - GPU Service Corp.  
:  
DATE ISS: 79/07/16, 30pp. , 48x:19233-015, ODI:GPU 6028 , TN:GB\*

3307050455 Transcript of RC Jones 791003 deposition. Pp 6-23, 25-27, 50-55, 61-66, 69-70, 76 & 81-82.

JONES, R.C. : General Public Utilities - GPU Service Corp.  
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DATE ISS: 79/10/03, 39pp. , 48x:19233-051, ODI:GPU 6029 , TN:GB\*

3307050459 Transcript of BA Karrasch 790716 deposition. Pp 4-6, 11, 14, 19-26 & 28-37.

KARRASCH, B.A. : General Public Utilities - GPU Service Corp.  
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DATE ISS: 79/07/16, 26pp. , 48x:19233-090, ODI:GPU 6030 , TN:GB\*

3307050466 Transcript of BA Karrasch 791003 deposition. Pp 12-13, 15-22, 24, 29, 31 & 34-36.

KARRASCH, B.A. : General Public Utilities - GPU Service Corp.  
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DATE ISS: 79/10/03, 17pp. , 48x:19233-116, ODI:GPU 6031 , TN:GB\*

3307050472 Transcript of JJ Kelly 790509 deposition. Pp 5-13 & 20-21.

KELLY, J.J. : General Public Utilities - GPU Service Corp.  
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DATE ISS: 79/05/09, 12pp. , 48x:19233-133, ODI:GPU 6032 , TN:GB\*

3307050482 Transcript of JJ Kelly 791002 deposition. Pp 9-11, 14-23, 25, 29-33, 36-39, 42-45, 48-49 & 62-65.

KELLY, J.J. : General Public Utilities - GPU Service Corp.  
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DATE ISS: 79/10/02, 34pp. , 48x:19233-170, ODI:GPU 6034 , TN:GB11

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3307050485 Transcript of JJ Kelly 790713 deposition. Pp 8, 12-13, 15-18,  
21-23, 25-31 & 33-34.

KELLY, J. J. : General Public Utilities - GPU Service Corp.  
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DATE ISS: 79/07/13, 20pp. , 48x: 19233-204, ODI: GPU 6035 , TN: GB11

3307050489 Transcript of RE Kosiba 791016 deposition. Pp 28-29 & 31-33.

KOSIBA, R. E. : General Public Utilities - GPU Service Corp.  
:   
DATE ISS: 79/10/16, 6pp. , 48x: 19233-224, ODI: GPU 6036 , TN: GB11

3307050493 Transcript of RE Kosiba 790703 deposition. Pp 9-11, 25-28,  
30-31, 34-35, 41-46 & 49-51.

KOSIBA, R. E. : General Public Utilities - GPU Service Corp.  
:   
DATE ISS: 79/07/03, 21pp. , 48x: 19233-230, ODI: GPU 6037 , TN: GB11

3307070123 Partial deposition of LC Rogers on 791011.

ROGERS, L. C. : Babcock & Wilcox Co.  
:   
DATE ISS: 79/10/11, 25pp. , 48x: 19355-310, ODI: GPU 6038 , TN: GB\*

3307070136 Partial deposition of DH Roy on 790707.

ROY, D. H. : Babcock & Wilcox Co.  
:   
DATE ISS: 79/07/07, 34pp. , 48x: 19356-222, ODI: GPU 6041 , TN: GB\*

3307070142 Partial deposition of DH Roy on 791015.

ROY, D. H. : Babcock & Wilcox Co.  
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DATE ISS: 79/10/15, 28pp. , 48x: 19356-256, ODI: GPU 6042 , TN: GB\*

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1307070148 Partial deposition of WM Spangler on 761016.

SPANGLER, W.M. :Babcock & Wilcox Co.

DATE ISS:76/10/16, 23pp. ,48X:19356-284,ODI:GPU 6043 ,TN:GB\*

1307070151 Partial deposition of WM Spangler on 790620.

SPANGLER, W.M. :Babcock & Wilcox Co.

DATE ISS:79/06/20, 13pp. ,48X:19356-307,ODI:GPU 6044 ,TN:GB\*

1307070157 Partial deposition of JM Taylor on 790706.

TAYLOR, J.M. :Babcock & Wilcox Co.

DATE ISS:79/07/06, 30pp. ,48X:19356-320,ODI:GPU 6045 ,TN:GB\*

1307070160 Partial deposition of JM Taylor on 791005.

TAYLOR, J.M. :Babcock & Wilcox Co.

DATE ISS:79/10/05, 40pp. ,48X:19356-350,ODI:GPU 6046 ,TN:GB\*

1307070168 Deposition of JF Walters on 791002. w/o encl.

WALTERS, J.F. :Babcock & Wilcox Co.

DATE ISS:79/10/02, 1p. ,48X:19357-044,ODI:GPU 6048 ,TN:GB\*

1307070174 Deposition of EG Ward on 790828. Pp 42-43.

WARD, E.G. :Babcock & Wilcox Co.

DATE ISS:79/08/28, 3pp. ,48X:19357-057,ODI:GPU 6050 ,TN:GB\*



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8307070177 Deposition of GK handling on 800618. Page 8.

HANDLING, G.K. :Babcock & Wilcox Co.

DATE ISS:80/06/18, 2pp. ,48x:19357-060, ODI:GPU 6051 ,TN:GB\*

8307070179 Deposition of GK handling on 790702. Pp 4-9.

HANDLING, G.K. :Babcock & Wilcox Co.

DATE ISS:79/07/02, 7pp. ,48x:19357-062, ODI:GPU 6052 ,TN:GB\*

8307070213 Partial transcript of 790718 public hearing.

\* :Commissioners

DATE ISS:79/07/18, 45pp. ,48x:19357-146, ODI:GPU 6055 ,TN:GB\*

8307070219 Partial transcript of 790719 public hearing.

\* :Commissioners

DATE ISS:79/07/19, 79pp. ,48x:19357-190, ODI:GPU 6056 ,TN:GB\*

8307070222 Partial transcript of 790720 public hearing.

\* :Commissioners

DATE ISS:79/07/20, 18pp. ,48x:19357-269, ODI:GPU 6057 ,TN:GB\*

8307070227 Transcript of 790416 hearing. w/o transcript.

\* :ACRS - Advisory Committee on Reactor Safeguards

DATE ISS:79/04/16, 1p. ,48x:19357-287, ODI:GPU 6058 ,TN:GB\*