

March 25, 2002

Mr. M. Warner  
Site Vice President  
Kewaunee and Point Beach Nuclear Plants  
Nuclear Management Company, LLC  
6610 Nuclear Road  
Two Rivers, WI 54241

SUBJECT: POINT BEACH NUCLEAR PLANT  
NRC INSPECTION REPORT 50-266/02-03(DRP); 50-301/02-03(DRP)

Dear Mr. Warner:

On February 25, 2002, the NRC completed a team inspection at the Point Beach Nuclear Plant. The enclosed report documents the inspection findings which were discussed on February 25 with you and members of your staff.

This inspection was an examination of activities conducted under your license as they relate to the identification and resolution of problems, and compliance with the Commission's rules and regulations and with the conditions of your operating license. Within these areas, the inspection involved selected examination of procedures and representative records, observations of activities, and interviews with personnel.

On the basis of the samples selected for review, the team concluded that, overall, problems were properly identified, evaluated, and resolved within the problem identification and resolution program. However, the inspectors identified one finding for which the safety significance was still to be determined. This issue pertained to the failure of the 2P-15B safety injection pump on February 20, 2002, because of nitrogen gas binding. The conditions that resulted in the accumulation of nitrogen in the pump were still being evaluated by both your staff and the NRC at the end of this inspection. This issue will be considered an Unresolved Item pending completion of those reviews. A preliminary NRC review of the risk significance of the finding determined that it was at least of very low safety significance (Green).

In accordance with 10 CFR 2.790 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records System (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/NRC/ADAMS/index.html> (the Public Electronic Reading Room).

Sincerely,

*/RA/*

Roger Lanksbury, Chief  
Branch 5  
Division of Reactor Projects

Docket Nos. 50-266; 50-301  
License Nos. DPR-24; DPR-27

Enclosure: Inspection Report 50-266/02-03(DRP);  
50-301/02-03(DRP)

cc w/encl: R. Grigg, President and Chief  
Operating Officer, WEPCo  
R. Anderson, Executive Vice President  
and Chief Nuclear Officer  
T. Webb, Licensing Manager  
D. Weaver, Nuclear Asset Manager  
T. Taylor, Plant Manager  
A. Cayia, Site Director  
J. O'Neill, Jr., Shaw, Pittman,  
Potts & Trowbridge  
K. Duveneck, Town Chairman  
Town of Two Creeks  
D. Graham, Director  
Bureau of Field Operations  
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U.S. NUCLEAR REGULATORY COMMISSION

REGION III

Docket Nos: 50-266; 50-301  
License Nos: DPR-24; DPR-27

Report No: 50-266/02-03(DRP); 50-301/02-03(DRP)

Licensee: Nuclear Management Company, LLC

Facility: Point Beach Nuclear Plant, Units 1 & 2

Location: 6610 Nuclear Road  
Two Rivers, WI 54241

Dates: January 22 through February 25, 2002

Inspectors: M. Kunowski, Project Engineer (Lead Inspector)  
P. Krohn, Senior Resident Inspector  
R. Langstaff, Senior Reactor Engineer

Approved by: Roger Lanksbury, Chief  
Branch 5  
Division of Reactor Projects

## SUMMARY OF FINDINGS

IR 05000266-02-03; 05000301-02-03, on 1/22-2/25/2002. Nuclear Management Company, LLC, Point Beach Nuclear Plant, baseline inspection of the identification and resolution of problems.

The inspection was conducted by two regional inspectors and a resident inspector. No findings were identified during this inspection. The significance of most findings is indicated by their color (Green, White, Yellow, Red) using Inspection Manual Chapter 0609, "Significance Determination Process" (SDP). Findings for which the SDP does not apply are indicated by "No Color" or by the severity level of the applicable violation. The NRC's program for overseeing the safe operation of commercial nuclear power reactors is described at its Reactor Oversight Process website at <http://www.nrc.gov/NRR/OVERSIGHT/index.html>.

### Identification and Resolution of Problems

The team concluded that the licensee was generally effective at identifying problems and putting them into the corrective action program. There was strong management emphasis on plant staff to identify problems and, overall, a very responsive plant staff. Since 1997, there had been an average of 4120 condition reports written each year. A recent change from a mainframe-based, dated, and user-unfriendly corrective action database to a Web-based system was expected by the licensee to improve plant staff involvement with the corrective action program and to increase program management capability. Corrective action program timeliness was still an area of weakness and one where the licensee was expending additional efforts. Included in this effort was an emphasis on making improvements for overdue or less than prompt assessments of problems and implementation of corrective actions and for an excessive number of due date extensions. Although there had been some dissatisfaction expressed with some aspects of the corrective action program, the inspectors identified no impediments to a safety conscious work environment. One finding was identified that was at least of very low safety significance (Green). This finding pertained to the failure of the 2P-15B safety injection pump on February 20, 2002, because of nitrogen gas binding. The conditions that resulted in the accumulation of nitrogen in the pump were still being evaluated by both the licensee's staff and the NRC at the end of this inspection. This issue will be considered an Unresolved Item pending completion of those reviews.

## Report Details

### 4. OTHER ACTIVITIES (OA)

#### 4OA2 Identification and Resolution of Problems

##### a. Effectiveness of Problem Identification

##### (1) Inspection Scope

The inspectors conducted plant tours; observed surveillance tests in progress; interviewed plant personnel; and reviewed inspection reports issued over the last year; corrective action program documents (condition reports (CRs) – as of December 21, 2001, CRs were replaced by documents called CAPs (Corrective Action Program documents)), and selected maintenance work orders (WOs) for several high risk systems to determine if problems were being properly identified, characterized, and entered into the corrective action program for evaluation and resolution. These systems were Service Water (SW), 4160-volt, emergency diesel generators (EDGs), safety injection (SI), and instrument air. The inspectors also reviewed several recent licensee audits and self-assessments. The effectiveness of the audits and assessments was evaluated by comparing the audit and assessment results against self-revealing and NRC-identified issues. A listing of the documents requested by the inspectors prior to the inspection and those documents reviewed during the inspection is included at the end of this report.

##### (2) Findings

In general, problems were properly identified, characterized, and entered into the corrective action program for evaluation and resolution. There was strong management emphasis on plant staff to document problems in the corrective action program and a plant staff that, overall, was very responsive. Since 1997, there had been an average of 4120 CRs written per year. In 2001, there were 3819 CRs/CAPs generated. On December 21, 2001, the licensee switched its corrective action program database system from a mainframe-based, dated, and relatively user-unfriendly system (called NUTRK) to a Web-based, user-friendly system (called t-Track).

Several process improvements had helped to encourage the writing of CRs\CAPs: the CR\AR hotline; department corrective action program liaisons; the new web-based system; and the “Good Catch” initiative for examples of notably good problem identification. Through routine trending of corrective action program data, the licensee had identified instances where CR\CAP generation rates by various work groups had not met station management expectations. For instance, in one plant group, the expected number of CRs\CAPs were being generated but more than 85% of them were written by 2 of the 23 persons in the work group. For another group, the percentage of self-identified CAPs fell below an expected value. In both examples, the licensee took corrective actions.

Regarding audits and self-assessment findings, there were no major discrepancies with the observations of the inspectors. Appropriate corrective actions were taken by the licensee for problems identified during the audits and self-assessments.

b. Prioritization and Evaluation of Issues

(1) Inspection Scope

The inspectors reviewed a sample of CRs/CAPs to verify the appropriateness of the category assigned, operability and reportability determinations, extent of condition evaluations, root and apparent cause evaluations, and the assigned corrective actions. As part of this assessment, the inspectors attended the station's daily management meeting where newly generated CRs/CAPs were reviewed and the subsequent daily meeting of department corrective action program liaisons. The inspectors also attended a meeting of the Corrective Action Review Board (CARB). In addition, the inspectors reviewed licensee actions on several problems identified by the inspectors during the previous problem identification and resolution inspection (PI&R) in March 2001 (NRC Inspection Report 50-266/01-06; 50-301/01-06). The documents listed at the end of the report were used by the inspectors during the assessment of this area.

(2) Findings

In general, issues were appropriately categorized, prioritized, and evaluated. In addition, licensee actions to address a concern identified during the previous PI&R with the appropriateness of the initial screening of CRs were generally effective. During the review of CRs/CAPs, the inspectors identified one example (CR 01-0203, 4KV System Grounds) where not all of the pertinent evaluations conducted by the licensee for a problem had been documented in the closed-out CR. This example and other examples identified by the licensee highlight the need for continued emphasis by the licensee on thorough documentation of evaluations and corrective actions.

c. Effectiveness of Corrective Actions

(1) Inspection Scope

The inspectors reviewed CRs/CAPs to verify that corrective actions commensurate with the issues were identified and implemented in a timely manner, including corrective actions to address common cause or generic concerns. During the previous PI&R, the inspectors identified concerns with "daisy-chaining"---the closing of CRs to other CRs which could be closed to yet other CRs---and the possibility that not all of the corrective actions for the various CRs would be taken because of the difficulty in tracking all of the problems that may be closed to any one CR. In addition, the inspectors in the previous PI&R identified a concern with corrective action program timeliness, in that several CRs had more than a few due date extensions and several CR evaluations and corrective actions were overdue or had exceptionally extended due dates. The documents listed at the end of the report were used during the review.



## (2) Findings

Generally, effective corrective actions commensurate with the issues were identified by the licensee and implemented in a timely manner. However, problems with overdue problem assessments and implementation of corrective actions, and with excessive number of due date extensions were identified by the licensee and the inspectors. Licensee corrective actions for these problems were ongoing as of the end of the inspection. Specific observations in this area are discussed below.

- The inspectors reviewed the licensee's actions on CR 93-137, which was written in 1993 and was still open at the time of the inspection. This CR was written to document a potential problem with fault currents exceeding the breaker rating for certain short circuits ("bolted faults") in the 480-volt, 4160-volt, and 13.8-kilovolt systems. This issue had previously been reviewed in late 1996 by the NRC and a violation was identified for untimely corrective actions (Inspection Report No. 50-266/96018; 50-301/96018). During the present inspection, the inspectors concluded that continuing actions by the licensee had been timely. Through procedure changes and extensive engineering analyses employing a reduction of over-conservatism, the licensee had been able to narrow down the problem and had developed and approved a plan to upgrade certain 480-volt breakers and bus-work over the next several years that should allow closure of CR 93-137.
- Regarding daisy-chaining, the inspectors reviewed an instance where at least 11 CRs pertaining to various problems with the commercial grade dedication and procurement programs were ultimately closed, either directly or through other CRs that were closed directly, to one corrective action (Action Number 23) of the CR written to address a problem with the Alert and Notification System. The inspectors identified that the two recommended corrective actions for CR 00-2933, relating to the procedure for the conditional release of QA items from receiving, had not been implemented. CR 00-2933 had been closed to CR 00-2312, which had been closed to Action Number 23. Action Number 23 was closed on November 16, 2001. In this instance, the items not corrected were minor.
- Regarding the issue with excessive due date extensions, during the previous PI&R, the inspectors noted that a CR written in 1997 (CR 97-0249) for the need to revise the administrative procedure controlling the use of equivalent spare parts in safety-related systems had the due date extended 13 times. And while the procedure was revised early last year in response to the procurement of a replacement service water pump motor with inadequate wire insulation, the CR remained open pending incorporation of other planned changes to the procedure. During this PI&R, the inspectors noted that the CR's due date had now been extended 18 times; however, near the end of the inspection, the procedure revision to address the remaining changes was approved.
- In an issue related to timeliness of corrective actions, the inspectors noted that CR 01-0368 dealt with an unexpected apparent rise in Unit 2 power during a dilution on Unit 1 on Feb 2, 2001. For this CR there were two corrective actions,

one to do an apparent cause evaluation (ACE) and the other to make an Operations Notebook entry to notify all crews. The due date for this last item was initially April 26, 2001, but was changed five times before the action was closed without being taken because so much time had elapsed since the event and the operating crews were already aware of the event.

- Another timeliness issue was associated with the failure on February 20, 2002, of the Unit 2 B SI pump. The pump seized and failed during a monthly preventative-maintenance lubrication activity. The licensee's initial determination was that the pump seized due to nitrogen gas binding caused by leakage of nitrogen-saturated water from the 2A SI accumulator back through two or more check valves. The licensee also established that corrective actions proposed after an August 1999 review of NRC Information Notice (IN) 88-23, Supplement 5, "Potential for Gas Binding of High Pressure Safety Injection Pumps During a Loss-of-Coolant Accident," pertaining to the potential for gas binding of high head safety injection pumps, were not timely. Timely completion of these actions may have prevented the failure of the pump. In addition, the inspectors noted that the possibility of plant conditions conducive of gas binding was identified in February 2001 when CR 01-0454 was written because of decreasing level in the Unit 2A SI accumulator. Since much of this information came to light at the end of the inspection, the inspectors were not able to complete an evaluation of these issues and had not come to any enforcement conclusion on this particular matter.

Using the Significance Determination Process (SDP) Phase 1 Screening Worksheet and the Phase 2 Worksheets for the Mitigating Systems Cornerstone, the inspectors concluded that enough nitrogen gas may have been present to cause failure of the 2P-15B pump at anytime during the 30-day period prior to the pump's failure. The pump's failure rendered one train of SI incapable of performing its safety function. Based on this information, this finding was considered to be at least of very low safety significance (Green). Pending completion of a Phase 3 SDP analysis, the safety significance of the finding is To Be Determined (TBD) and this issue is considered an Unresolved Item (URI 50-301/02-03-01).

d. Assessment of Safety Conscious Work Environment

(1) Inspection Scope

The inspectors interviewed plant staff and CRs/CAPs to assess whether there were impediments to the establishment of a safety conscious work environment.

(2) Findings

From the interviews and record reviews, the inspectors identified no impediments to a safety conscious work environment. Some individuals expressed dissatisfaction with some aspects of the corrective action process, such as the user-unfriendly NUTRK database system (which had since been replaced by a user-friendly Web-based system) and workers being assigned to assess and correct problems that were identified by the

same workers but would be more efficiently assessed and corrected by someone else. But the inspectors noted a strong emphasis by management on establishing an atmosphere conducive to employees readily documenting and resolving problems and an overall strong sentiment by interviewed plant staff to document problems.

4OA6 Meeting(s)

.1 Exit Meeting

The inspectors presented the inspection results to Mr. M. Warner and other members of licensee management in an exit meeting on February 25, 2002. Licensee management acknowledged the findings presented and indicated that no proprietary information was provided to the inspectors.

## KEY POINTS OF CONTACT

### Nuclear Management Company, LLC (NMC)

J. R. Anderson	Point Beach Nuclear Plant (PBNP) Production Planning Manager
L. Armstrong	Design Engineering Manager
D. Black	Nuclear Safety Analysis Senior Engineer
A. J. Cayia	Kewaunee-Point Beach (KPB) Site Director
F. Flentje	NRC Coordinator
D. Hettick	Performance Assessment Manager
R. Hopkins	Nuclear Oversight Supervisor
T. C. Kendall	Design Engineering Supervisor
P. Kleinschmidt	Bolted Fault Project Manager
C. W. Krause	Senior Regulatory Compliance Engineer
R. G. Mende	KPB Engineering Director
K. Peveler	KPB Nuclear Oversight Manager
S. A. Pfaff	Corrective Action Supervisor
R. Pulec	KPB Performance Assessment Manager
R. Repshas	KPB Support Services Manager
G. D. Strharsky	PBNP Assistant Operations Manager
T. H. Taylor	PBNP Plant Manager
M. Warner	Site Vice-President
T. J. Webb	KPB Regulatory Affairs Manager
J. Walsh	KPB Procedures Program Manager
W. Yarosz	KPB Emergency Planning Supervisor

### ITEMS OPENED, CLOSED, AND DISCUSSED

#### Opened

50-301/02-03-01	URI	2P-15B Safety Injection Pump Failure During Monthly Preventative Maintenance Lubrication Activity
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#### Closed

None

#### Discussed

None

## LIST OF ACRONYMS USED

ACE	Apparent Cause Evaluation
AR	Action Request
ASME	American Society of Mechanical Engineers
CA	Corrective Action
CAP	Corrective Action Program
CARB	Corrective Action Review Board
CR	Condition Report
DC	Direct Current
EDG	Emergency Diesel Generator
EOP	Emergency Operating Procedure
EWR	Engineering Work Request
FSAR	Final Safety Analysis Report
INPO	Institute of Nuclear Power Operations
KPB	Kewaunee-Point Beach
KV	Kilovolt
LCO	Limiting Condition for Operation
LER	Licensee Event Report
LTA	Less Than Adequate
MOV	Motor-Operated Valve
NCV	Non-Cited Violation
NMC	Nuclear Management Company, LLC
NP	Nuclear Power Business Unit Procedure
OA	Organizational Assessment
OE	Operating Experience
OI	Operating Instruction
OOS	Out-Of-Service
PBNP	Point Beach Nuclear Plant
PMT	Post-Maintenance Testing
psi	Pounds Per Square Inch
QA	Quality Assurance
QCR	Quality Condition Report
RCE	Root Cause Evaluation
RCP	Reactor Coolant Pump
SDP	Significance Determination Process
SRO	Senior Reactor Operator
SW	Service Water
TS	Technical Specification
V	Volt
WO	Work Order

## LIST OF DOCUMENTS REVIEWED

The following is a list of licensee documents reviewed during the inspection. Inclusion of a document on this list does not imply that NRC inspectors reviewed the entire document, but, rather that selected sections or portions of the document were evaluated as part of the overall inspection effort. In addition, inclusion of a document on this list does not imply NRC acceptance of the document, unless specifically stated in the body of the inspection report.

### Condition Report

93-137	Plant Electrical Equipment May Be Used in Applications Beyond Fault Current Ratings	March 30, 1993
97-0249 (Quality Condition Report (QCR))	Process Improvements SPEED NP 9.3.3	October 30, 1997
98-1004	SI Accumulator Level Decrease	March 11, 1998
99-2346	Seismic Qualification of Service Water Pump Column Bolting Questioned	October 6, 1999
00-0094	Plant Electrical Equipment May Be Placed Into Alignments Beyond Equipment Fault Current Ratings	January 7, 2000
00-0128	P-32F-M Thermocouple Installation Not Properly Documented	January 11, 2000
00-0213	Low Forebay Level, Lowest -9.6', Trip	January 20, 2000
00-0494	CR History of CIM Concerns	February 10, 2000
00-0514	QA Classification of Packing Kit for 850 Hydraulic Cylinder Questioned	February 9, 2000
00-0834	Corrosion Inhibitor Used in G-01 Without the Required Evaluation	March 9, 2000
00-2077	Procurement Evaluation Deficiencies	June 16, 2000
00-2312	Commercial Grade Dedication Program	August 1, 2000
00-2335	Abnormal Sound From P-32A Service Water Pump	August 3, 2000
00-2423	Dedication Criteria Changed During Receipt Inspection	August 10, 2000
00-2426	Lack of As Found Data During Receipt Inspection	August 10, 2000

00-2427	Documenting Discrepancies During Receipt Inspection	August 10, 2000
00-2428	Technical Evaluations Don't Address Equipment Qualification	August 10, 2000
00-2792	Less Than Adequate Wire Storage, QA Versus Non-QA	September 20, 2000
00-2812	Alert and Notification System (ANS) Siren Failure Response Weak	September 22, 2000
00-2933	Form for QA Conditional Release Form Doesn't Match Procedure	September 29, 2000
00-2948	Crib Freeze Event CAs Concerns	October 2, 2002
00-3079	Condenser Steam Dump Malfunction	October 13, 2000
00-3299	Damaged Breaker Auxiliary Switches	October 23, 2000
00-4014	Leak On Unit 2 Conoseals	December 30, 2000
00-4150	Electrical Perturbation On Unit 2 Generator	December 17, 2000
01-0001	Unexpected Alarm During Service Water Pump Start	January 1, 2001
01-0003	TS-33 Problems Due To Failing Pressure Indicator	January 2, 2001
01-0022	Less Than Adequate Work Plan To Thaw Frozen Pipe	December 29, 2000
01-0030	Service Water Pump Expansion Joints	January 3, 2001
01-0039	Service Water Pump Expansion Joints	January 3, 2001
01-0048	P-32C Work Packages Not Ready	January 5, 2001
01-0102	Less Than Adequate Evaluation of Part 21 NUTRK Item - AGASTAT	January 10, 2001
01-0109	Rope And Wood On Service Water Piping	January 12, 2001
01-0111	Untimely CR Initiation by OA Personnel	January 11, 2001
01-0112	Replacement Service Water Pump Motors	January 12, 2001
01-0122	Apparent Cause Evaluation Action Not Created	January 12, 2001
01-0148	Wrong Thermocouple Extension Cable Installed	January 16, 2001

01-0203	4 KV System Grounds	January 19, 2001
01-0216	New Thermocouple Found Faulty	January 19, 2001
01-0220	Incomplete IWP	January 21, 2001
01-0241	CRs Not Written as Result of Self-Assessment	January 23, 2001
01-0259	West Service Water Supply Isolation Valve Installation	January 24, 2001
01-0289	Service Water Safety Monitor Assumptions	January 27, 2001
01-0301	CR Trend Review Problems	January 29, 2001
01-0307	Service Water Pressure Indicator	January 30, 2001
01-0310	SW-2930A Valve Body Pitted	January 30, 2001
01-0318	No VT-2 Qualified Individual On Shift When Required	January 30, 2001
01-0319	Less Than Adequate Work Plan SFP HX [Spent Fuel Pool Heat Exchanger] Inlet Valve	January 30, 2001
01-0323	Temp Change To AOP 9A Concern	January 30, 2001
01-0330	Declining Vendor Performance - IPSCO	February 1, 2001
01-0335	Increased Magnitude Of Change In SW [Service Water] Pump Vibration Readings	February 1, 2001
01-0338	CAP Procedure Violations	February 1, 2001
01-0341	SW Line Stop Less Than Affective	February 1, 2001
01-0344	Service Water Expansion Joint - Spare Parts Wrong Size	February 2, 2001
01-0365	Valve Accessibility Questioned	February 3, 2001
01-0368	Unit 2 Rise in Power - Dilution for Unit 1	February 2, 2001
01-0369	Energy Had Been Verified Released For Tag Series O SW SW-2927A OP REV 2-1 By The Work Group, But No One From The Work Group Signed On	February 2, 2001
01-0377	CR Routing and Closing	February 6, 2001
01-0380	Line Stop Machines Installation Delays	February 5, 2001



01-0387	SW-2974B Work Schedule Of 2/5/01 Parts Issue	February 5, 2001
01-0395	Untimely Corrective Action	February 6, 2001
01-0403	Inadequate Safety Screening	February 8, 2001
01-0407	Line Stop Seal Failure	February 7, 2001
01-0418	Procedure Sign Off Sequence Not Used	February 8, 2001
01-0421	Service Water Piping Degradation	February 8, 2001
01-0423	4160 VAC Breaker Damage	February 8, 2001
01-0425	Package Release Without Tag Series Accepted	February 8, 2001
01-0429	Classification of CR 01-0368	February 9, 2001
01-0438	Ineffective Followup on RCE 00-007 Actions	January 10, 2001
01-0444	Service Water System Piping Contaminated	February 9, 2001
01-0448	Containment Fan Cooler SW Flow Out Of Spec	February 13, 2001
01-0449	NUTRK Not User-Friendly	February 13, 2001
01-0452	Micrologger Routes Erased	February 12, 2001
01-0454	U2 'A' Safety Injection SI Accumulator Level	February 12, 2001
01-0457	Service Water Gauge Out Of Tolerance	February 12, 2001
01-0471	Accumulator Level Indicator Failing	February 14, 2001
01-0481	Storage Of Spare SW Pump Motors	February 14, 2001
01-0529	Corrective Action Not Incorporated	February 20, 2001
01-0552	New Piping Insulation Damaged	February 22, 2001
01-0572	SI Accumulator Level Spikes	February 22, 2001
01-0587	Documentation Of Service Water System Test	February 26, 2001
01-0596	Welder Bypassed Hold Point	February 26, 2001
01-0605	QCR Closed Prior to Actions Being Completed	February 26, 2001
01-0612	Less Than Adequate Indication On 'F' Service Water Pump Ammeter	February 27, 2001

01-0618	Corrective Action Program CAP Self-Assessment Issues	February 28, 2001
01-0634	RCE 00-067 Corrective Actions	July 1, 2001
01-0635	Priorities Not Assigned in NUTRK	March 1, 2001
01-0638	SW Mod Work Caused Vacuum Loss	March 1, 2001
01-0639	SW Mod Work Caused Air In-leakage	March 1, 2001
01-0651	Less Than Adequate Closure of Condition Reports	March 5, 2001
01-0662	Overdue Corrective Action	March 5, 2001
01-0693	CIM Not Updated To Reflect New Type After Coolers	March 7, 2001
01-0697	Condition Report Actions Not Adequately Dispositioned - CR 98-1161	March 6, 2001
01-0705	Exact Time 'C' CCW [Component Cooling Water] Returned To Service Unknown	March 9, 2001
01-0706	New SW Valves Not Shown On Any Controlling Diagrams	March 9, 2001
01-0731	Inappropriate Closure of Action	March 12, 2001
01-0733	OA Witness Of Shipment	March 10, 2001
01-0734	Service Water Motor Shipped Inappropriately	March 9, 2001
01-0738	Abnormal Noise From P-32A	March 11, 2001
01-0761	CFC [Containment Fan Cooler] Flow Outside Of Band	March 13, 2001
01-0768	NUTRK Anonymous Notification	March 12, 2001
01-0782	SW Pump Motor Replacement Problems	Initiated 3/14/01
01-0794	Service Water Motor SPEED Insufficient	March 13, 2001
01-0817	SI Accumulator Fill Concerns	March 15, 2001
01-0818	Incomplete Weld Exam On Containment Fan Cooler	March 15, 2001
01-0821	P32C-M Locked Rotor Test Results	March 15, 2001
01-0852	Drawings Reflect Wrong Valve Positions	March 16, 2001
01-0870	Weld Data Sheets Not Complete	March 21, 2001

01-0903	Procedure Misaligned Valves	March 22, 2001
01-0911	Additional Information Provided By Engineering - Operability Of P-32C Drawn Into Question	March 20, 2001
01-0919	Wrong Component Danger Tagged	March 22, 2001
01-0952	Incorrect Valve Labels	March 26, 2001
01-0958	Potential Valve Failure - Valve Stem Separation	March 26, 2001
01-0983	Containment Fan Cooling Flexible Piping Concern	March 28, 2001
01-1001	Less Than Adequate Formal Documentation and Tracking of Effectiveness Review Actions	March 30, 2001
01-1027	Overdue Condition Reports	April 3, 2001
01-1032	RWST Level Transmitter Found Out of Calibration	April 2, 2001
01-1046	Evaluation Actions Not Documented in NUTRK	April 4, 2001
01-1047	NRC/PI&R Inspection Concern of CR Cross Referencing	April 3, 2001
01-1048	NRC/PI&R Inspection Concerns Less Than Adequate SRO Screenings	April 3, 2001
01-1059	Found Local Control Switch For 1A52-84, 1A06 Feed to 1X14 Transformer, In The Pullout Position. Per PC 43 Part 2	April 3, 2001
01-1073	Lost/Misplaced Condition Report	April 4, 2001
01-1105	MOV Failed to Shut Remotely	April 5, 2001
01-1131	Condition Report Closure Inappropriate	April 6, 2001
01-1137	Breaker Charging Spring Failed To Discharge	April 7, 2001
01-1146	Hoses Not Used For Draining Systems	April 9, 2001
01-1150	Breaker Inseat Not Updated In Champs	April 9, 2001
01-1178	Heat Exchangers Opened Prior To Scheduled	April 17, 2001

01-1210	Service Water Valve Has Significant Leak	April 11, 2001
01-1244	U2 Service Water Leak On 'A' Containment Fan Cooler	April 11, 2001
01-1270	High Heat Exchanger Flow Rate	April 13, 2001
01-1279	Less Than Adequate Specified Post-Maintenance Testing	April 14, 2001
01-1297	Coordination Of Work Activities MR 98-024*J	April 14, 2001
01-1319	Containment Fan Cooler Outlet Throttle Valve Potential Part 21	April 17, 2001
01-1334	SW-2880 Signature Indicates Valve Stem Bent	April 18, 2001
01-1339	Closed Work Order - ASME Discrepancies	April 18, 2001
01-1363	Valves Pre-fabricated Backwards	April 19, 2001
01-1394	Pressure Test Data	April 21, 2001
01-1402	ANII Hold Points Bypassed	April 20, 2001
01-1453	No Oil in 1P-15A Sightglass	April 24, 2001
01-1470	Operations Adverse Trend	April 24, 2001
01-1471	Potentially Decreased Performance	April 24, 2001
01-1482	Bus And Breaker Short Circuit Rating Discrepancies	April 25, 2001
01-1492	LTA communication on RP Close Out of a CR	April 26, 2001
01-1551	Lack of Timely CR Initiation	April 30, 2001
01-1556	Condition Report Priority LTA	May 1, 2001
01-1568	Questioning Proper Installation Of CFC Ball Valves	May 1, 2001
01-1577	Work Order LCO Tracking	May 1, 2001
01-1599	Trend Report Finding	May 4, 2001
01-1600	Potential Adverse Trend in NDE [Non-Destructive Evaluation]	May 4, 2001
01-1601	Adverse Trend in Warehouse Fire Protection	May 4, 2001

01-1602	Error Mode Classifications	May 4, 2001
01-1615	Service Water Flow Instrument Misaligned	May 2, 2001
01-1631	Effectiveness Review of RCE	May 4, 2001
01-1650	Ops Increase Error Rate - "Skill Based Errors"	May 5, 2001
01-1677	Coating On Containment Fan Coolers Questioned	May 7, 2001
01-1678	Support In Containment Has Unqualified Coating	May 1, 2001
01-1688	TS-76 Concerns	May 9, 2001
01-1698	Overdue Corrective Actions	May 9, 2001
01-1718	Valve Repair Work Inadequacies	May 10, 2001
01-1723	Work Order Documentation Inadequate	May 10, 2001
01-1834	Maintenance Corrective Action Item Due Date Extensions Not Documented	May 21, 2001
01-1851	Missing RRM Documentation For Completed Work	May 23, 2001
01-1856	G01 HX Corrosion	May 23, 2001
01-1902	Corrective Actions For CR 00-1812 Do Not Address Concern	May 24, 2001
01-1962	Condition Report (CR) Without Priorities	June 4, 2001
01-1963	Piping Class Incorrectly Shown On P&ID	June 5, 2001
01-1966	QA/SR RWST Level Transmitter Out of Calibration	June 4, 2001
01-1994	OD Part II for CR 01-1559 Not Completed in 30 Days as Required	June 6, 2001
01-2035	Lesson Plan Not Revised Per Condition Report	June 12, 2001
01-2160	Corrective Action Program Weakness	June 26, 2001
01-2085	Safety Injection Pump Motor Bearing Had No Oil Visible in Fill Connection	June 17, 2001
01-2104	Insufficient Copper Tubing In Reserve For Work Order	June 18, 2001

01-2142	U1 Safety Injection Accumulator Level Out of Calibration	June 24, 2001
01-2166	Service Water Isolation Valve Leaks Through	June 27, 2001
01-2168	Service Water Zurn Strainer Inoperable	June 26, 2001
01-2170	Potential Conflict With Service Water LCOs	June 26, 2001
01-2178	Large Fish Kill Results In Unit 2 Trip	June 28, 2001
01-2181	Emergent Temp Change To AOP	June 27, 2001
01-2191	Two Tag Series In Effect For Same Job	June 27, 2001
01-2237	CR 00-3888 Corrective Action Not Completed	July 2, 2001
01-2243	Revision of Operability Determination Contains Deficiencies	July 3, 2001
01-2264	Corrective Actions Without Assigned Priorities	July 3, 2001
01-2267	Scheduled Conflict Would Have Caused LCO Entry	July 5, 2001
01-2283	Corrective Action Items Overdue	July 9, 2001
01-2337	Rework Of Circ Water Seal Supply Strainer	July 13, 2001
01-2384	Less Than Adequate Closeout of Condition Report Dealing With Alarm Response Book Adequacy	July 19, 2001
01-2386	Unknown White Residue On Refueling Water Storage Tank	July 19, 2001
01-2406	Blockage Of Emergency Diesel Generator Cooler Tubes	July 23, 2001
01-2426	Hole In U1 [Unit 1] Refueling Water Storage Tank	July 25, 2001
01-2487	Priorities Not Assigned As Required to Condition Reports	August 3, 2001
01-2526	Ineffective Corrective Action - Failure To Test Redundant Emergency Diesel Generator	August 8, 2001
01-2598	AM 3-4 Obsolete Revision of 10 CFR 50.65	August 16, 2001

01-2705	Nuclear Safety Analysis NSA Adverse CR Trend	August 29, 2001
01-2707	Condition Report Closed With Uncompleted Corrective Actions	August 29, 2001
01-2721	Condition Reports Did Not Determine if Functional Failures Were Maintenance Preventable	August 29, 2001
01-2771	NUTRK Items Without Priority Assigned	September 7, 2001
01-2781	Damaged Auxiliary Switch On 4 KV Breaker A52-DHVR-1200-31	September 8, 2001
01-2799	Errors In Drawing For G-02 Metering, DCNs Not Done	September 9, 2001
01-2810	Potential Adverse Trend in Q List Program	September 11, 2001
01-2918	Evaluation Due Dates	September 24, 2001
01-2927	Schedule Plant to Revise Refueling Procedures to Include Improved Technical Specifications (ITS)	September 25, 2001
01-2929	Condition Report Closed Without Consideration of Apparent Cause Evaluation Recommendations	September 28, 2001
01-2969	Potential Current Transformer Issue In 1A52-59 Cubicle	September 26, 2001
01-2994	Less Than Adequate Support For MCE Testing Of Unit 2 SI Pump Motor	October 2, 2001
01-3039	Operability Determinations Not Reviewed For ITS Implications	October 5, 2001
01-3058	Condition Reports With No Assigned Priority	October 9, 2001
01-3107	Less Than Adequate Apparent Cause Evaluation and Follow-up Actions	October 10, 2001
01-3148	Diesel Testing Not Identified In Schedule/Test Plan	October 16, 2001
01-3166	Inadequate Closure of Condition Report CR 01-1329 - FPEE On Modified Fire Damper	October 16, 2001
01-3174	Grounding Card Latch Mechanism Difficult To Verify Engaged	January 18, 2001
01-3199	SRO Screening Issues With CR 01-3139	October 19, 2001

01-3258	Safety-Related Bus Voltages High - 7 day LCO Entered	November 21, 2001
01-3284	Condition Reports Threshold for EP Issues	October 26, 2001
01-3357	NUTRK Actions Not Prioritized	November 5, 2001
01-3414	7% Condition Report Items Overdue	November 9, 2001
01-3492	Problems With CR 00-1039 Resolution	November 15, 2001
01-3545	Procedures Indicate LCO Is Required May Be Incorrect	November 26, 2001
01-3606	CR Verification Not Completed in Timely Manner	November 30, 2001
01-3626	Less Than Adequate Documentation To Support Operability Determination	December 3, 2001
01-3678	Condition Reports Priority -100	December 7, 2001

Operability Determination (OD)

OD for CR 93-0137	Plant Electrical Equipment May Be Used in Applications Beyond Fault Current Ratings	Revision 8 August 6, 2001
OD for CR 00-3299	Chipped Auxiliary Switch On Breaker A52-DHVR-1200-15	October, 2000
OD for CR 99-2346	SW Pump Discharge Column Connections	March 6, 2001
OD for CR 01-1105	MOV Failed to Shut Remotely	April 6, 2001

Drawing Number

PB 31 E APS 240 052 09	Schematic Diagram 4160V SWGR Bus 1-A06 (2-A06) Feeder Breaker 1A52-84 (2A52-89 to STA Service XFMR IX-14 (2X-14)	Revision D
PB 02 E SIS 000 002 06	Elementary Wiring Diagram 4160V SWGR.2A05 Cubicle-74 Safety Injection Pump 2P-015A PBNP Unit 2	Revision D
PB 01 E APS 256 004 01	Elementary Wiring Diagram 4160 Switchgear Cubicle-58 Station Service Transformer Breaker 1A-52-58 PBNP Unit 1	Revision E



PB 01 E APW 240 034 03	Connection Diagram 4160V Switchgear 1A05-Cubicle 58 Station Service Transformer 1X-13	Revision E
PB 01 E APS 03015 07	Elementary Wiring Diagram 4160 SWGR 1A05-Cubicle 57 Bus Tie Breaker 1A52-57	Revision E
PB 01 E APS 031 001 11	Elementary Wiring Diagram 4160 Switchgear Cubicle 60 Emergency Generator Breaker 1A52-60 PBNP Unit 1	Revision E
PB 01 E APS 031 002 05	Elementary Wiring Diagram Alternative Power to 1A-05 from G02 EDG Breaker 1A52-66 PBNP Unit 1	Revision E
PB 01 E RPS 141 078 18	Schematic Diagram SI Logic Engineered Safety Features (ESF) Systems Train "A" Reactor Safeguards Systems PBNP Unit 1	Revision E
SK-M-21-2	Refueling Water Storage Tank - 1-T13, 2-T13	Revision 0
PB 01 MSIG 246 001 05	1-T13 RWST Assembly And Details	Revision E

Action Request (AR)

AR ACE000251	Tag Series Changes And Loss Of Awareness Of Clearance Status	October 22, 2001
AR ACE000260	G-04 Low Oil Level	October 30, 2001
AR ACE000294	Resistance Readings May Be Affected By Nomex Wear	November 14, 2001
AR ACE000299	IP-29 Turbine-Driven Auxiliary Feedwater Pump Spurious Overspeed Trips	November 20, 2001
AR ACE000321	Wrong Oil Used In Auxiliary Feedwater Turbine Bearings	December 11, 2001
AR ACE000325	Unanticipated Outward Rod Motion	December 13, 2001
AR ACE000327	Component Cooling Water Pump Oil Sample Results	December 17, 2001

AR ACE000496	Plant Electrical Equipment May Be Used in Applications Beyond Fault Ratings	April 1, 1993
AR ACE000497	4160V and 480V System Operating Voltages Are Significantly Higher Than the Nominal System Voltages	December 3, 1997
AR ACE000498	Operating the 480V System at Voltage Magnitudes Higher Than 500V Causes Equipment to be Derated From Ratings at 480V to Ratings at 600V for Fault Current	December 3, 1997
AR ACE000499	System Model Should be Revised With Plant Operations to Determine More Realistic Equipment Alignments	December 3, 1997
AR ACE000500	Additional Scenarios Should be Analyzed and Existing Scenarios Should be Revised to More Accurately Reflect How PBNP is Operated	December 3, 1997
AR ACE000526	Missed Surveillance For PAM Core Exit T/Cs	December 14, 2001
AR CA001184	Extent of Condition Review of Other SPEEDs	March 15, 2001
AR CA001193	Reinforce Management's Expectations That Requirements of Administrative Procedures Are to be Complied With	July 3, 2001
AR CA001461	Bus And Breaker Short Circuit Rating Discrepancies	April 30, 2001
AR CA001634	Dilution of Accountability for Programs for Vendor Technical Information Program and Component Instruction Manual	June 5, 2001
AR CA003148	Revise NP 9.3.3	November 25, 1997
AR CA003235	Review the Calculations for Each Breaker or Other Piece of Switchgear That is Calculated to be Overloaded	March 16, 1994
AR CA003236	Write and Submit an LER for Condition of Plant Electrical Equipment May Be Used in Applications Beyond Fault Ratings	July 10, 1997

AR CA003237	Complete a Revision to the Operability Determination to Address: Equipment Removed From the List, Equipment Which May Experience Fault Currents of Higher Magnitude, and Equipment Added to the List Attached to the New Fault Duty Calculation	December 3, 1997
AR CA003238	The SSC in the Operability Determination for This CR [93-137] Have Been Determined to be Operable, But Degraded	March 26, 1998
AR CA003239	Document That the Operability Determination to Supported Bolted Shorts as Described in CR 93-137 Reflects Most Recent Review	September 11, 2000
AR CA003240	Finalize and Issue the New Preliminary Short Circuit Calculations Based on Procedure Changes to be Completed Per CR 00-0094	September 11, 2000
AR CA003242	Request a Schedule and Justification be Provided for Which One of the Four Options That Are Being Considered as Possible Solutions to the Bolted Fault Issue	August 14, 2001
AR CA003518	NRC 50.59 Inspection Requested A Procedural Tie Be Created In IT-21 And IT-22, Back To TRM Section 3.5.1	January 16, 2002
AR CA002130	Potential Adverse Trend in Q List Program	September 13, 2001
AR CAP000126	Short Circuit Fault Current Calculations	January 7, 2000
AR CAP000726	Corrective Actions For CR 00-1812 Do Not Address Concern	May 24, 2001
AR CAP001532	Plant Electrical Equipment May Be Used in Applications Beyond Fault Rating	March 30, 1993
AR CAP001877	FSAR Discrepancy On Definition Of Reg Guide Category 2	January 16, 2002
AR CAP001886	Incomplete 50.59 Screening Answer For Changes To Relief Valve CC-736A/B	January 16, 2002
AR CAP001897	Letdown Isolation Valve Appendix R Operation During Degraded Voltage Conditions	January 17, 2002
AR CAP001900	Incomplete Corrective Actions Regarding Classification Of RC-427	January 17, 2002

AR CAP001901	FSAR Chapter 9 Changes For CFC Service Water Pressure Not Also Made In Chapter 6	January 17, 2002
AR CAP001910	Safety Evaluation 2000-0014 Incomplete	January 17, 2002
AR CAP001915	Questioning Corrective Action For CR 00-2859 On Screening Procedure Temp Change	January 18, 2002
AR CAP001916	Incorrect Answer To Tech Spec Change Question In 50.59 Evaluation	January 18, 2002
AR CAP001957	Individual Requested To Do Work Not Qualified Or Trained To Do	January 24, 2002
AR CAP001962	WO For SR Equipment Bypassed QC Review	January 24, 2002
AR CAP001965	SW Pumps Discharge Expansion Joints Have Surface Cracks	January 25, 2002
AR CAP001966	Outdated Procedures For New PPCS, With No New Procedures In Place	January 25, 2002
AR CAP001970	Poor Loading Of E-12 (SO4B2) Work Week	January 25, 2002
AR CAP001979	Minor Deficiencies In The Corrective Action Program	January 25, 2002
AR CAP001984	Negative Trend Of Security Self Reporting Issues In Corrective Action System	January 25, 2002
AR CAP001985	NRC Commitment To Inspection Unit 2 Internals Lift Rig Not Met	January 25, 2002
AR CAP001992	NUTRK Database Is Inaccurate And Cluttered With Outdated Action Requests	January 28, 2002
AR CAP001996	Lack Of Documentation Of Adverse Issues	January 28, 2002
AR CAP002031	NP5.3.1 Does Not Allow Closure Of ARs To Other Formal Tracking Mechanisms	January 30, 2002
AR CAP002038	Questionable Acceptable Voltage Ranges For Instrument Buses	January 31, 2002
AR CAP002039	Vibration Indications On G-01	January 31, 2002
AR CAP002065	CAP Closed Without All Corrective Actions Completed	February 4, 2002
AR CAP002083	P-032D Service Water Pump Vibration And Shaft Wear Resolution	February 5, 2002

AR CAP002264	Untimely Implementation of Recommendations From IN 88-023-05	February 21, 2002
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Lists

List of Apparent Cause Evaluations - 2001	2001
List of Completed Root Cause Evaluations - 2001	2001
List of Temporary Modifications - 2001	January 3, 2002

Root Cause Evaluations (RCEs)

98-190	Inappropriate Design Pressure For The AFW [Auxiliary Feedwater] Discharge Valve Modification	Revision 1
98-214	Disabled Service Water Pump Auto Start Feature On EDG [Emergency Diesel Generator] Breaker Closure Results in Missed LCO	November 30, 2001
00-104	Common Cause Assessment for Procedure Quality Issues	March 2, 2001
01-013	Speed For P-32C Service Water Pump Motor	
01-013	Replacement Service Water Pump Motor Does Not Meet Design Requirements	June 8, 2001
01-033	Maintenance Rule Component Common Cause	May 8, 2001
01-046	Unit 1 Loss Of Inverter	July 18, 2001
01-047	Unit 1 Main Feed Pump Inboard Bearing Failure	July 19, 2001
01-0151	G04 Generator Failure Equipment Rood Cause	August 5, 2001
01-052	Failure To Perform TS Required EDG Testing	August 9, 2001
01-055	Reactor Coolant Pump Seal Malfunction Caused Unit Shutdown	September 6, 2001

Nuclear Plant Memorandum (NPM)

2002-0006	Minutes From The December 19, 2001 CARB Meeting	January 4, 2002
2002-0052	Third Quarter 2001 Corrective Action Program Trends	January 28, 2002
2002-0056	CARB Agenda For The February 5, 2002 Meeting	February 1, 2002

Work Orders

9924742	Temporary Relocate 1LT-972/1LI-921 to Allow for Installation of Welds and Anchorage on RWST, Then Return to Original Locations	April 14, 2001
9937026	Transmitter Enclosure is Damaged, Condition Report Submitted	April 2, 2001
9945054	IT-013 Repair Weld	July 24, 2001
9945202	IT-13 Clean Residue/Insp 2 Day Later	July 19, 2001

Plant Modifications

MR-99-040	Unit 1 RWST Seismic Upgrade	July 12, 2000
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Engineering Work Request (EWR)

02-019	Protective Enclosure for Sightglass/Oiler Assemblies	January 25, 2002
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Nuclear Power Business Unit Procedures (NPs)

5.3.1	Action Request Process	Revision 19
5.3.7	Operability Determinations	Revision 8
5.4.1	Open Item Tracking System (NUTRK)	Revision 11
9.3.3	Spare Parts Equivalency Evaluation [SPEED]	Revisions 2 and 3
9.8.1	Specification Preparation, review, and Approval Process	Revision 0

9.8.2	Technical Review and Approval of Requisitions	Revisions 0 and 1
9.8.4	Safety Classification of Sub-Components and Materials	Revision 0
9.8.5	Dedication of Commercial Grade Items	Revisions 0 and 1
9.8.6	Conditional Release of QA-related Items and Services	Revision 0
9.8.9	Product Technical Information	Revision 0
9.9.2	Quality Receipt	Revision 0
9.9.3	Spare Parts Equivalency Evaluation [SPEED]	Revisions 2 and 3
9.10.1	Warehouse Material Issue	Revision 0
10.2.4	Work Order Processing	Revision 7

#### Other Procedures and Documents

AM (Administrative Manual) 3-4	Implementation of the Maintenance Rule at PBNP	Revision 4
A-P-01-17	Improved Technical Specifications Audit	October 5, 2001
A-P-01-018	Maintenance Rule Audit	August 28, 2001
FP-NO-SQ-01	Performance of Supplier Audits/Surveys	Revision 1
FP-SC-GEN-01	Procurement - General	Revision 1
FP-SC-RSI-01	Receiving	Revision 0
FP-SC-RSI-02	Quality Receipt	Revision 0
FP-SC-RSI-03	Procurement Deficiency Reports	Revision 0
Licensee Event Report 97-032	Inadequately Rated Electrical Buses Could Disable Switchgear and Cause Secondary Fires That Prevent Safe Shutdown Per Appendix R	July 30, 1997
OEG (OE Group Guide) 001	Root Cause Evaluation	Revision 6
OEG 003	Corrective Action Program Guidance	Revision 2
PBF (Point Beach Form)-0026q	Procedure Preparer/Technical Reviewer Checklist	Revision 4
PBF-0026r	Procedure Validation	Revision 1

PBF-1531	Conditional Release Request	Revision 2
PBF-1583	Design Verification Notice	Revision 1
PBF-1586b	CI Manual Distribution	
S-A-CA-01-01	Assessment of Point Beach Corrective Action Program	February 2001
Spare Parts Equivalency Evaluation Document 2002-006	Replace Obsolete Westinghouse Motor With Equivalent Marathon Electric Motor	February 8, 2002
	Nuclear Oversight Quarterly Reports	1 <sup>st</sup> , 2 <sup>nd</sup> , and 3 <sup>rd</sup> Quarters, 2001
	Corrective Action Program Performance Indicators	October, November, December 2001; January 2002
	Bolted Fault Meeting Minutes	January 21, 2002
	Project Work Plan: Bolted AC Fault Issue	Revision 3 August 28, 2000
	AC Bolted Fault Project History and Timeline	2001
	Electrical Fault Overduty Resolution Plan Updates	May and November 2001; February 2002
	SI Pump Gas Binding Event Operating Experience Review	February 23, 2002
	Corrective Action Trend Reports	1 <sup>st</sup> , 2 <sup>nd</sup> , and 3 <sup>rd</sup> Quarters, 2001
	Corrective Action Review Board Member Attendance Records	
Chemistry Logs	Unit 1 RWST Chemical Analyses	February 5, 2002
NUTRK Operating Experience Review	NRC Information Notice 88-023, "Potential for Gas Binding of High Pressure Safety Injection Pumps During a Loss-of-Coolant Accident," Original Notice and 5 Supplements	May 12, 1988 January 5, 1989 January 30, 1990 December 10, 1990 December 18, 1992 September 1, 1999
	NRC Information Notice 97-040, "Potential Nitrogen Accumulation Resulting From Backleakage From Safety Injection Tanks"	June 26, 1997



NUTRK Operating Experience Review	SOER 97-01, "Potential Loss of High Pressure Injection and Charging Capability From Gas Intrusion"	December 6, 1997
NUTRK Operating Experience Review	SEN 179, "Long-Standing Design Weaknesses and Ineffective Corrective Actions Cause Gas Binding Failures of High Head Safety Injection Pumps"	January 29, 1998
NUTRK Operating Experience Review	OE 8830, "Potential Nitrogen Voiding and Water Hammer in the Low Pressure Safety Injection System"	March 26, 1998
NUTRK Operating Experience Review	OE 9876, "4B HHSI Pump Gas Binding"	May 4, 1999
Plant Internal Letter NEPB-88-252	NRC Information Notice No. 88-23: Potential For Gas Binding of High-Pressure Safety Injection Pumps During A Loss-of-Coolant Accident	June 7, 1988
Plant Internal Letter NEM-89-143	NRC Information Notice No. 88-23, Supplement 1: Potential For Gas Binding of High-Pressure Safety Injection Pumps During Loss-of-Coolant Accident	March 6, 1989
Plant Internal Letter NEM-90-368	NRC Information Notice No. 88-23 Supplement 2: Potential For Gas Binding of High-Pressure Safety Injection Pumps During A Loss-of-Coolant Accident	April 23, 1990
Plant Internal Letter NPM 91-0400	NRC Information Notice No. 88-23, Supplement 3: Potential For Gas Binding of High-Pressure Injection Pumps During A Loss-of-Coolant Accident	June 18, 1991
Plant Internal Letter NPM 93-0092	NRC Information Notice No. 88-23, Supplement 4: Potential For Gas Binding of High-Pressure Safety Injection Pumps During A Design Basis Accident	February 5, 1993

## DOCUMENTS REQUESTED FROM THE LICENSEE PRIOR TO ONSITE INSPECTION

Two copies of administrative procedures related to:

- corrective action program
- work orders
- operability determinations
- temporary modifications
- root cause analysis
- procedure change, use, and adherence

One copy of audits and self-assessments conducted since January 1, 2001, in the following areas:

- corrective action process
- maintenance/work control
- operations
- engineering

One copy of minutes for onsite and offsite committee meetings, including the Corrective Actions Review Board, conducted since January 1, 2001

Two copies of a listing of:

- root cause evaluations completed since January 1, 2001
- CRs generated since January 1, 2001, related to corrective actions
- work orders and CRs generated since January 1, 2001, related to the service water, safety injection, and the 4160-volt systems
- temporary modifications
- operability determinations