


PDR

August 21, 1980

For: The Commissioners
From: T. A. Rehm, Assistant for Operations, Office of the EDU
Subject: WEEKLY INFORMATION REPORT - WEEK ENDING AUGUST 15, 1980

A summary of key events is included as a convenience to those Commissioners who may prefer a condensed version of this report.

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T. A. Rehm, Assistant for Operations
Office of the Executive Director
for Operations

*No input this week
**Deleted from Commissioners' and PDR copies.

CONTACT:
T. A. Rehm, 27781 8009090632

Summary of Weekly Information Report
Week Ending August 15, 1980

Crystal River Unit No. 3

During restart operations on August 8, 1980, the reactor was manually scrammed because of a small fire in the rod drive control panel. The fire was caused by overheating of contacts in the rod drive power transfer relay as rod drive power was being transferred from one power source to another as part of the startup tests.

TMI-2 Reactor Building Entry

Four men made the second post accident entry into the TMI Unit 2 reactor building at 10:42 a.m., August 15, 1980. The planned duration of the entry was 40 minutes. Two of the men exited after approximately 20 minutes and the remaining two exited at 11:20 a.m. All men were physically exhausted due to the use of several layers of protective clothing, full face respirators, and 50° to 90°F temperatures inside the reactor building. Preliminary measurements indicate that the maximum total body dose to any member of the entry team was less than 300 mr.

Gamma readings on the 305' elevation (ground level) were 400-700 mr per hour in shielded areas. The average gamma readings on the 347' elevation (refueling floor) were between 100 and 300 mr per hour. The entry team energized the reactor building lights and over 50% of the lights illuminated. The sump water was observed to be murky with floating debris. Some electric wires were brittle and crumbled, a telephone was melted and deformed, and a 55 gallon drum was crushed. Numerous rusted surfaces were observed; however, the reactor head appeared to be in good condition.

Reinstitution of GESMO

NMSS has made estimates of the resources and time required to pursue a new GESMO effort. Not knowing the exact scope of work to be required, they estimate a three to four-year effort for 40 to 55 staff with contractual support of \$2 to \$3 million per year. Including the breeder would give rise to need for research estimated at about \$40 to \$50 million, spread over three or four years. NMSS takes the position that any new proceeding should include a complete updating of the GESMO study and report before re-opening the public hearing and that the updated study should include consideration of the breeder as well as the LWR fuel cycle.

Proposed NRC - Chinese Cooperation

IP forwarded to the Department of State for transmittal to the Chinese Nuclear Society a proposal for nuclear safety cooperation with the People's Republic of China.

OFFICE OF ADMINISTRATION

Week Ending August 15, 1980

ADMINISTRATION OF THE FREEDOM OF INFORMATION ACT

STATUS OF REQUESTS

	<u>Initial Request</u>	<u>Appeal of Initial Decision</u>
Received	500	36
Granted	376	11
Denied	80	15
Pending	44	10

ACTIONS THIS WEEK

Received

Ed Hedemann,
War Resisters League
(80-407)

Referral from the Federal Bureau of Investigation of one document concerning the War Resisters League.

(NRC employee)
(80-408)

Requests specific information on Vacancy Announcements 80-2659, 80-2294, 80-2406, 80-2297, 80-2363 and 80-2287.

(NRC employee)
(80-409)

Requests specific information on Vacancy Announcement 80-2171.

(NRC employee)
(80-410)

Requests specific information on Vacancy Announcements 80-2287, 80-2294, 80-2297, 80-2366, 80-2367, 80-2406 and 80-2508.

Laurence S. Moss,
Babson College
(80-411)

Requests a copy of the Annual Report on the Freedom of Information Act for 1977, 1978 and 1979.

Sandra S. Jordan,
NTEU Steward
(80-412)

Requests six categories of information regarding the administration of the promotion policy and procedures for Reactor Construction and Engineering Support personnel.

Diane M. Cameron,
Indiana Public Interest
Research Group, Inc.
(80-413)

Requests a list of all commercial and military spent fuel routes in Indiana.

Carl E. Oven
(80-414)

Requests a copy of all records relating to the William B. Kessler Memorial Hospital in Hammonton, New Jersey.

CONTACT: J. M. Felton
492-7211

ENCLOSURE A

Received, Cont'd

Charles J. Brutza,
Approved Engineering
Test Laboratories
(80-415)

Requests a copy of the non-proprietary version of the winning proposal in response to contract solicitation RFP RS-NRR-79-118.

Violet H. Almond,
NTEU Steward
(80-416)

Requests, on behalf of an NRC employee, desk calendars maintained by the supervisor pertaining to the employee's tardiness.

Robert J. Willis,
Florida Rural Legal
Services, Inc.
(80-417)

Requests copies of all notifications of the shipment of radioactive materials through the State of Florida from January 1979.

(Individuals requesting
information about themselves)
(80-418 thru 80-421)

Requests information on their Operator license exam results.

Eugene R. Fidell,
Attorney-At-Law
(80-422)

Requests a copy of the report "Review of Delegations of Authority Within NRC" dated September, 1979 referred to in footnote 2 of the Commission's August 6, 1980 denial of the petition for rulemaking in PRM-2-8.

James Barnes,
Center for Law
and Social Policy
(80-423)

Referral from the Department of State of two documents regarding the export of nuclear materials to India.

Stephan Ormonde,
Quantum Systems, Inc.
(80-424)

Requests a copy of the winning proposal in response to contract solicitation RFP RS-RES-79-200.

Lynn Connor,
Doc-Search Associates
(80-425)

Requests a copy of six listed documents.

Donald F. Knuth,
KMC
(80-A-28-80-303)

APPEAL TO THE COMMISSION for documents relating to changes in the text of the proposed Fire Protection Rule presented in SECY-80-88.

Granted

Jerome Balter,
Public Interest Law
Center of Philadelphia
(80-315)

In response to a request for a list of all the isotopes found in each of the TMI-2 containment building atmosphere samples for the period March 1, 1980 to June 12, 1980, made available this information.

Granted, Cont'd

John F. Doherty
(80-335)

In response to a request for a copy of 20 listed documents, made available these records.

Paul S. Davis
(80-338)

In response to a request for a list of the facilities on which Comprehensive Evaluation Reports have been prepared; NUREG reports concerning MUF; a list of publicly available documents concerning NFS-Erwin's recent MUF and the Commission decision to reopen this facility and any broad generic evaluations regarding the success or nonsuccess of the implementation of the 1978 upgrade rule, made available this information. Informed the requester no documentation exists regarding the success or nonsuccess of the implementation of the 1978 upgrade rule.

Marc E. Miller,
Attorney-At-Law
(80-381)

In response to a request for documents regarding the possible purchase, lease, or condemnation by the Federal government of any or all of the GE Morris facility, made available 18 documents. Informed the requester we have also referred documents to the Department of Energy for direct response to him.

Fred Eissler,
Scenic Shoreline
Preservation Conference, Inc.
(80-383)

In response to a referral from the Department of Justice (DOS) of documents regarding the reasons for closure of the DOS investigation without a grand jury investigation or prosecution in the Hosgri geological fault near the Diablo Canyon nuclear power plant and the evidence on which the non-prosecution decision was made, made available these records.

Victor M. Agrait-Defillo,
Mision Industrial
de Puerto Rico, Inc.
(80-391)

In response to a request for documents regarding the 1966 nuclear accident in Rincon, Puerto Rico, made available 16 documents.

J. C. Snell,
NTEU Steward
(80-394)

In response to a request, on behalf of an NRC employee, for information concerning the processing of an NRC disability retirement or fitness for duty, made available seven documents.

(An individual requesting
information about himself)
(80-396)

Made available information on his Senior Reactor Operator license exam results.

Joel M. Savits,
Attorney-At-Law
(80-399)

In response to a request, on behalf of his client, for a copy of all sick leave records on a named individual, made available this information.

Granted, Cont'd

Fred Eberlein,
Control Data
Corporation
(80-405)

In response to a request for a copy of the non-proprietary version of the contract and the technical proposal in response to contract solicitation NRC-05-80-253, made available this information.

Laurence S. Moss,
Babson College
(80-411)

Made available a copy of the NRC's Annual Report on the Freedom of Information Act for the years 1977, 1978 and 1979.

Denied

None

DIVISION OF CONTRACTS

Week Ending August 15, 1980

PROPOSALS UNDER EVALUATION

1. IFB RS-SEC-80-450
Title - Electrostatic Copying Services at PDR
Description - Reproduction services to the public consisting of hardcopy-to-hardcopy duplication, microform-to-hardcopy duplication, and microform-to-microform duplication.
Period of Performance - One year
Sponsor - Office of the Secretary
Status - Public bid opening held August 14, 1980. Bids being reviewed for responsiveness and a responsibility check being performed.

2. RFP RS-RES-80-190
Title - Benchmarking of Computer Codes Used in Structural Design of Nuclear Power Plants
Description - The goal of this research project is to develop computer programs which can be used by the NRC staff to assess the adequacy of computer codes used by license applicants and licensees. The areas of interest are: dynamic analyses, especially those for seismic and impactive loads; design of containments; and design of seismic Category I structures, systems and components.
Period of Performance - Two years
Sponsor - Office of Nuclear Regulatory Research
Status - Proposals under evaluation. Competitive range to be established by September 12, 1980.

3. RFP RS-ADM-80-689
Title - Acquisition and Installation of a Data General 4244 (or Equal) 900 LPM Line Printer Subsystem
Description - The contractor shall provide the subsystem described above and install on existing NRC-owned Data General ECLIPSE computer.
Period of Performance - One year with option for additional year
Sponsor - Office of Administration
Status - Solicitation closed August 12, 1980. Proposals forwarded to Source Evaluator on August 13, 1980 for review and evaluation.

ENCLOSURE A

CONTRACT AWARDS

NRC-10-80-695

Title - Key punching and Verifying Services

Description - Key punching and verification of Electronic Accounting Machine (EAM) cards, key-to-tape data entry services, emergency key punching and verification services in support of NRC Payroll System, and key punching and verification of classified information.

Period of Performance - One year with option for additional year.

Sponsor - Office of Administration

Status - A fixed-price-requirement-type contract was awarded on August 14, 1980 to the Small Business Administration, Washington, D. C., (Prime Contractor) and International Business Services, Inc., Washington, D. C., (Sub-Contractor - 8(a) firm). Contract amount is \$81,867.97.

CONTRACTS CLOSED OUT

(All administrative actions completed and final payment made)

<u>Contract No.</u>	<u>Contractor</u>	<u>Close-Out Date</u>
NRC-05-79-269	Radiation Management Corp.	8/13/80
NRC-04-76-359	State University of New York	8/11/80
NRC-04-76-296	University of the State of New York	8/06/80
NRC-04-76-297	University of the State of New York	8/06/80

ENCLOSURE A

DIVISION OF SECURITY

ITEMS OF INTEREST
WEEK ENDING AUGUST 15, 1980

1. On August 11, 1980, Ms. Lynn Pilger, Facilities and Systems Security Branch (FSSB) conducted a periodic security survey at Washington National Records Center, Suitland, Maryland. It resulted in the assignment of a satisfactory rating.

2. During the week of August 11, 1980, Ms. Lynn Pilger, Facilities and Systems Security Branch (FSSB), coordinated with local law enforcement agencies and provided security support activity for the Atomic Safety and Licensing Board Panel (ASLBP) hearings on TMI-1 restart proceeding Harrisburg, Pennsylvania and Allens Creek, Houston, Texas.

ENCLOSURE A

OFFICE OF NUCLEAR REACTOR REGULATION

WEEKLY ITEMS OF INTEREST
(Week Ending August 15, 1980)

Crystal River Unit No. 3 (CR3)

During CR3 restart operations on August 8, 1980 the reactor was manually scrammed because of a small fire in the rod drive control panel. The fire was quickly extinguished with a hand held CO₂ bottle, a relay replaced and the startup operations continued. The fire was caused by overheating of contacts in the rod drive power transfer relay as rod drive power was being transferred from one power source to another as part of the startup tests. Apparently, the contact for one power source did not open fully when transfer was made to the other source. I&E is reviewing this matter. This failure did not involve any scram system or any other reactor protection system.

ENCLOSURE B

NRC TMI PROGRAM OFFICE WEEKLY STATUS REPORT

Week of August 10-16, 1980

Plant Status

Core Cooling Mode: Cyclic natural circulation in the "A" reactor coolant system (RCS) loop via the "A" once through steam generator (OTSG), steaming to the main condenser, and RCS loop-A and B cyclic natural circulation to reactor building ambient.

Available Core Cooling Modes: OTSG "B" to the main condenser; long-term cooling "B" (OTSG-B); decay heat removal.

RCS Pressure Control Mode: Standby Pressure Control (SPC) System.

Backup Pressure Control Mode: Makeup system in conjunction with letdown flow (Emergency use only due to suspected leaks in the seal injection system).

Major Parameters (As of 0500, August 15, 1980) (approximate values)

Average Incore Thermocouples: 141°F

Maximum Incore Thermocouple: 187°F

RCS Loop Temperatures:

	A	B
Hot Leg	137°F	140°F
Cold Leg (1)	92°F	82°F
(2)	86°F	83°F

RCS Pressure: 91 psig (Heise)
93 psig (DVM-controlling)

Pressurizer Temperature: 88°F

Reactor Building: Temperature: 83°F
Water level: Elevation 290.2 ft. (7.7 ft. from floor)
via penetration 401 manometer
Pressure: -0.25 psig (Heise)
Concentration: 6.9×10^{-6} uCi/cc (Kr-85)

Environmental & Effluent Information

1. Liquid effluents from TMI-1 released to the Susquehanna River, after processing, were within the limits specified in Technical Specifications.
2. No liquid effluents were discharged from TMI-2.
3. Results from EPA monitoring of the environment around the TMI site were:

ENCLOSURE B

- The EPA measured Kr-85 concentrations (pCi/m³) at several environmental monitoring stations and reported the following results:

<u>Location</u>	<u>August 1-8, 1980</u> (pCi/m ³)
Bainbridge	27
Goldsboro	30
Observation Center	620
Middletown	26
Hill Island	24

Background levels of krypton-85 were measured in air samples collected at EPA's noble gas sampling stations located at Bainbridge, Goldsboro, Hill Island and Middletown during the period August 1 through August 8, 1980. The average concentration of krypton-85 in the sample collected at the TMI Observation Center August 1 through 8, 1980 was 620 pCi/m³. This apparently resulted from the announced releases on August 1 and August 8, 1980 and corresponds to a skin dose of 0.022 mrem and a whole body dose of 0.0002 mrem. The total skin dose at this station since June 28, 1980 is now 0.61 mrem or 4% of the skin dose limit of 15 mrem per year. The accumulated whole body dose at this location from krypton-85 releases is now 0.0051 mrem or 0.02% of the whole body dose limit of 25 mrem per year.

- EPA environmental stations registered background levels for air particulate and water samples. Gamma scan results for all sampling locations were negative.
- Instantaneous direct radiation readings showed an average level of 0.012 mrem/hr for the 18 monitoring stations.

4. NRC Environmental Data

- The following are the NRC air sample analytical results for the onsite continuous air sampler:

<u>Sample</u>	<u>Period</u>	<u>I-131</u> (uCi/cc)	<u>Cs-137</u> (uCi/cc)
HPR-228	August 6 - August 13, 1980	<6.8 E-14	<6.8 E-14

No reactor related radioactivity was detected.

- Environmental TLD measurements for the period July 2 to July 31, 1980, indicate gamma radiation to be at the natural background levels. Fifty-seven TLD's registered doses ranging from 0.11 mR/day to 0.18 mR/day. Average dose was 0.14 mR/day. These dose rates are consistent with natural background radiation in the TMI area.

5. Radioactive Material and Radwaste Shipments were as follows:

- On Tuesday, August 12, 1980, eighteen (18) Unit 2 air sample filter papers from HPR-219A were sent to Teledyne Isotopes, Westwood, New Jersey.
- On Tuesday, August 12, 1980, a forty (40) ml Unit 2 Reactor Coolant Sample was sent to Babcock & Wilcox, Lynchburg, Virginia.
- On Tuesday, August 12, 1980, a one thousand (1000) ml Waste Evaporator Condensate Storage Tank (WECST) sample was sent to Teledyne Isotopes, Westwood, New Jersey.
- On Friday, August 15, 1980, a box containing nine (9) air sample filter papers was sent to Science Applications Inc. (SAI), Rockville, Maryland.
- On Friday, August 15, 1980, a box containing four (4) air sample filter papers was sent to Teledyne Isotopes, Westwood, New Jersey.

Major Activities This Week

1. EPICOR II System

The processing of the accumulated reactor coolant bleed tank 'B' water is complete. The RCBT 'B' processed water tallies the total process effort to 501,000 gallons. Further periodical processing is expected due to accumulated water from decontamination, flushing and tank transfers.

The two week outage commenced August 13, 1980, as scheduled. The major work effort is to improve personnel safety related items.

2. Reactor Building Entry/Purge

Four men made the second post accident entry into the TMI Unit 2 reactor building at 10:42 a.m., August 15, 1980. The planned duration of the entry was 40 minutes. After approximately 20 minutes inside the reactor building, one of the men became physically exhausted and requested to come out. He and another man were directed to exit the reactor building. The two remaining men exited the reactor building at 11:20 a.m. All men were physically exhausted. Exhaustion was attributed to the use of several layers of protective clothing, full face respirator, and 85° F to 90° F temperatures inside the reactor building.

Preliminary measurements, digital and pocket dosimeters, indicate that the maximum total body dose to any member of the entry team was less than 300 mr. The entry team surveyed the 305' elevation (ground level) and the 347' elevation (refueling floor). Gamma readings on the 305' elevation were 400-700 mr per hour in shielded

areas. The average gamma readings on the 347' elevation were between 100 and 300 mr per hour. A teletector reading 12' from the reactor head indicated 100 mr.

The entry team energized the reactor building lights and over 50% of the lights illuminated. The reactor building sump water was observed to be murky with floating debris. Some electric wires on the 347' elevation were very brittle and crumbled when touched. A standard black telephone was melted and deformed almost beyond recognition. A 55 gallon drum with the top cover still attached was crushed. Numerous rusted surfaces were observed, however the reactor head appeared to be in good condition.

Prior to the four man-entry, the reactor building was purged beginning 9:15 a.m. on August 14, 1980, and terminated at 9:25 a.m. on August 15, 1980. Approximately 85 curies were released to the atmosphere. After purging, the building air concentration was less than the MPC in a restricted area (1×10^{-5} uCi/cc) Kr-85.

Bechtel Corporation has been contracted to continue with the work inside the reactor building. The date for the next entry has not been decided.

3. Decay Heat Valve

The DH-V1 valve was opened August 8, 1980, (see the weekly status report of August 8, 1980) and no indications of "through the valve" or "out of the valve" leakage have occurred. Radiation levels have stabilized as indicated in the previous weekly status reports and no unusual occurrences have taken place.

4. Weekly Boron Analysis

Since the week of August 3, 1980, the Babcock & Wilcox laboratory was unable to analyze the reactor coolant system (RCS) sample from TMI-2 due to contamination from a radiation spill. The licensee is past the 7 day technical specification surveillance frequency and notified the TMI Program Office on Friday, August 8, 1980. The licensee has no reason to suspect the boron concentration to deviate. The B&W laboratory was scheduled to analyze the backlog of RCS samples on August 15, 1980.

OFFICE OF STANDARDS DEVELOPMENT

IMPORTANT EVENTS FOR THE WEEK ENDING AUGUST 15, 1980

1. Radiation Policy Council Activities: The Radiation Policy Council (RPC) Working Group (WG) met on August 12, 1980 to (1) receive status reports from the Task Forces on Low-Level Radioactive Waste, Radon in Inhabited Structures, and Occupational Exposure, (2) discuss the results of the recently completed regional public meetings, and (3) reach agreement on the approach to be used for categorizing and prioritizing the proposed long-term agenda items for the RPC.

The Task Force leaders indicated that each of their respective reports, including recommendations for consideration by the WG and the RPC, will be submitted to the WG on August 15, 1980. The WG is scheduled to meet on August 26, 1980 to discuss the Task Force reports and recommendations. The WG is currently scheduled to complete its review of the final recommendations to the RPC on the Task Force reports by September 9, 1980. NRC Office comments will be solicited on the Task Force reports consistent with this schedule.

The WG members received copies of the long-term RPC agenda items proposed by each member agency, as well as a summary of the proposals offered by the public both at the regional meetings and through correspondence in response to the Federal Register notice soliciting such comment. The WG is scheduled to meet on August 19, 1980 to develop a first-cut categorization and prioritization of the proposed long-term agenda items. The WG is currently scheduled to finalize its recommendations to the RPC on the long-term agenda items by September 16, 1980. NRC Office comments will be solicited consistent with this schedule.

On September 25, 1980, the RPC is scheduled to meet to act on the WG's recommendations on the Task Force reports and on its long-term agenda.

[Contact: K. R. Goller (443-5991)]

ENCLOSURE C

2. Member State Comments on IAEA Draft Safety Guides: In the past we have notified the Commission of Member State comments on draft IAEA safety guides by way of a Commission Information Paper. We now plan to keep the Commission informed of such actions by way of the Weekly Events report. If more or less information is desired, we will modify our future submittals accordingly. Our first submittal follows.

By letter dated August 11, 1980 from Joseph D. Lafleur, Jr. to John Trevithick of the Department of State, Member State comments are being transmitted to the IAEA on an IAEA draft safety guide entitled "Man-Induced Events in Relation to Nuclear Power Plant Design" (SG-D5).

For the areas addressed, SG-D5 does not conflict with current U.S. policy or design practice for BWR and PWR thermal nuclear power plants. Having been involved in and generally satisfied with the development of the guide, we are recommending that the guide be approved for issuance by the IAEA but that the U.S. propose certain changes for incorporation into the guide for clarity and to aid in facilitating its implementation.

SG-D5 contains guidance intended to meet the objectives and minimum requirements of the relevant parts of the IAEA Code of Practice for Design of Nuclear Power Plants. The contents of SG-D5 are generally related to parts of the U.S. Code of Federal Regulations, particularly 10 CFR Part 50, Appendix A, Criterion 4. The document is more specifically related to USNRC Regulatory Guide 1.91, sections 2.2 and 3.5 of Regulatory Guide 1.70, and sections 2.2.3, 3.5.1.5, 3.5.1.6, 3.5.2 and 3.5.3 of the Standard Review Plan, NUREG-75/089.

While the IAEA guide recognizes that for certain situations sabotage can be important to safety and could be the controlling postulated initiating event for design, specific guidance in this area has been excluded from the scope of the guide.

The goals of SG-D5 and applicable U.S. documents addressing safety design for man-induced events (excluding sabotage) are similar. The IAEA guide is more general and addresses the safety design aspects in a single document. U.S. practice utilizes several design documents addressing specific areas of design; however, the general approaches are similar.

Publications to be Issued in the Near Future

Title: Radiation Safety Surveys at Medical Institutions (Reg. Guide 8.23, Rev. 1)

Expected Issuance Date: October 1980

Description: This guide identifies the types and frequencies of surveys that are acceptable to the NRC staff for use in medical institutions licensed by the NRC to use radioactive materials.

Contact: A. Brodsky
443-5970

Title: Applications for Type A Licenses of Broad Scope (Reg. Guide 10.5, Rev. 1)

Expected Issuance Date: October 1980

Description: The guide describes the type and extent of information needed by the NRC staff to evaluate an application for a Type A specific license of broad scope for byproduct material. This type of license is provided for under Title 10, Code of Federal Regulations, Part 33, "Specific Domestic Licenses of Broad Scope for Byproduct Material."

Contact: S. McGuire
443-5970

Title: Standard Format and Content for the Safety Analysis Report for an Independent Spent Fuel Storage Installation (Water Basin)

Expected Issuance Date: October 1980

Description: This guide was issued for public comment and all comments have been resolved. It is ready for final editing prior to being issued. The guide is presently being reviewed by ELD.

Contact: R. E. L. Stanford
443-5910

Withdrawal Notice to be Issued in the Near Future

Title: Stabilization of Uranium-Thorium Milling Waste Retention Systems (Reg. Guide 3.23)

Expected Withdrawal Date: September 25, 1980 - the date is contingent on Commission approval of publication of final rule changes

Description: Reg. Guide 3.23 endorsed ANSI N313-1974 and no longer reflects the upgraded requirements for uranium mills and tailings management set forth in Commission rule changes. The information in NURFG-0706 and the rule changes will be used as bases for new regulatory guides as soon as such guides can be prepared.

Contact: D. Harmon
443-5910

Publications Issued During the Week of August 11-15, 1980

Reg. Guide 8.25 - Calibration and Error Limits of Air Sampling Instruments for Total Volume of Air Sampled

Draft Regulatory Guide and Value/Impact Statement: Health Physics Surveys in Uranium Mills, Task OH-710-4. Comments requested by October 20, 1980.

OFFICE OF NUCLEAR MATERIAL SAFETY AND SAFEGUARDS

Items of Interest

Week Ending August 15, 1980

Waste Isolation Pilot Plant Project

The State of New Mexico requested NMSS to provide them with a nuclear criticality safety analysis for the Waste Isolation Pilot Plant project (WIPP). The requested analysis includes contact and remote handled wastes under both normal and postulated accident conditions. A number of different types of containers are to be used in the packaging and storage of the waste. Parametric nuclear criticality safety studies will be made that will encompass the different types of containers and the maximum plutonium loading for each type of container.

Westinghouse Fuel Fabrication Facility, Prattville, Alabama

A pre-hearing conference was scheduled for August 21, 1980, at Montgomery, Alabama, to discuss the contentions of the two parties that wish to intervene in the proposed construction and operation of the Westinghouse Electric Corporation's fuel fabrication facility at Prattville, Alabama. On August 8, 1980, a motion was received from both intervenors requesting an extension of time in which to file their valid contentions. A postponement of the hearing for sixty to ninety days was requested. This motion to delay the pre-hearing conference is currently under review.

Radiation Policy Council - Low-Level Waste Task Force

The LLW Task Force has completed the first draft of their report. The target date for submitting the final report to the Working Group is August 15, 1980.

Reinstitution of GESMO

In response to a Congressional Affairs inquiry, and to bills that have been introduced calling for the reinstitution of the GESMO proceeding, estimates have been made of the resources and time required to pursue a new GESMO effort. Not knowing the exact scope of work that may be required, we roughly estimate a three to four-year effort for 40 to 55 staff with contractual support of \$2 to \$3 million per year. Including the breeder would give rise to needs for research estimated at about \$40 to \$50 million, spread over 3 or 4 years. NMSS takes a position that any new proceeding should include a complete updating of the GESMO study and report before re-opening the public hearing and that the updated study should include consideration of the breeder as well as the LWR fuel cycle.

ENCLOSURE D

Meeting with National Guard Bureau

Dr. F. D. Fisher met with General Fanning and Mr. Robert Regan of the National Guard Bureau on August 13, 1980. The Bureau has been preparing a planning study which projects future National Guard resource requirements for dealing with civil disturbance, severe natural phenomena and radiological incidents. Input to that study regarding the scope of NMSS-licensed activities, and the types of radiological emergencies which could involve the National Guard, were provided to the Bureau several months ago. The perceptions of General Fanning and Mr. Regan regarding the relative roles of NRC and FEMA, as reported in the planning study report, were compared with our own perceptions of those roles in the meeting.

OFFICE OF INSPECTION AND ENFORCEMENT

Items of Interest

Week Ending August 15, 1980

1. The following Notification of Significant Enforcement Actions were dispatched during the past week:
 - a. EN-80-36 Lakeview Hospital, Wauwatosa, Wisconsin - On August 11, 1980, an Order to Show Cause and an Order Suspending License was issued to the subject licensee based on alleged practice of administering radio-pharmaceuticals in double dosages to patients.
 - b. EN-80-37 Power Authority of the State of New York, New York, NY - On August 14, 1980, a Notice of Violation and a Notice of Proposed Imposition of Civil Penalties in the amount of \$48,000 were issued to the subject licensee. This action was based on various items of noncompliance associated with implementation of their security plan.

2. Preliminary Notifications relating to the following actions were dispatched during the past week:
 - a. PNO-I-80-121 Facemate Corporation, Chicopee, MA - Fire Destroys Facility Containing Two 500 Millicurie Krypton-85 Sealed Sources
 - b. PNO-II-80-138 Sequoyah Unit 1 - Liquid Radwaste in Cask Liner at Barnwell Burial Site
 - c. PNO-II-80-139 Sequoyah Unit 1 - Continuous Control Rod Withdrawal from Low Power
 - d. PNO-II-80-140 North Anna Power Station - VEPCU and Commonwealth of Virginia Joint Emergency Exercise
 - e. PNO-III-80-147 Zion Nuclear Power Station, Unit 2 - Equipment Problem Causing Plant Shutdown in Excess of 2 Days
 - f. PNO-III-80-148 Byron Nuclear Generating Station, Unit 2 - Death from Internal Injury
 - g. PNO-III-80-149 LaCrosse Boiling Water Reactor - Equipment Problems Resulting in a Plant Shutdown in Excess of Two Days
 - h. PNO-III-80-150 Palisades Nuclear Power Plant - Unplanned Gaseous Release
 - i. PNO-III-80-151 Big Rock Point - Possible Design Analysis Deficiency
 - j. PNO-III-80-152 St. Lawrence Hospital, Lansing, MI - Misadministration of Therapeutic Dose of Iodine-131

ENCLOSURE E

- k. PNO-III-80-153 LaSalle County Station, Unit 1 - Immediate Action Letter
 - l. PNO-V-80-64 General Atomic Company, San Diego, CA - Explosion of a Container of UC-ThC Powder
 - m. PNO-V-80-65 Rancho Seco Nuclear Power Plant - Shutdown of Rancho Seco - Main Turbine Problems
 - n. PNS-II-80-22 Plant Hatch Units 1 & 2 - Possible Guard Force Strike
 - o. PNS-II-80-22A Plant Hatch Units 1 & 2 - Plant Hatch Guard Force Strike
 - p. PNS-V-80-07 Rancho Seco Unit 1 - Media Interest in Security Drill
 - q. PNS-V-80-08 Trojan Nuclear Plant - Bomb Threat
3. The following IE Bulletin was issued:
- a. IE Bulletin 80-19, Revision 1 - "Failure of Mercury-Wetted Matrix Relays in Reactor Protective Systems of Operating Nuclear Power Plant Designed by Combustion Engineering," was issued on August 13, 1980 to all nuclear power facilities having either an operating license or a construction permit.

OFFICE OF THE EXECUTIVE LEGAL DIRECTOR

ITEMS OF INTEREST

WEEK ENDING AUGUST 15, 1980

Midland Plant, Units 1 and 2

On August 4, 1980, the ASLB in this antitrust proceeding issued a Memorandum and Order in which it directed that the Midland construction permits be amended to reflect a stipulated settlement of the antitrust issues among all parties and terminated the proceeding.

North Coast Nuclear Plant, Unit 1

On August 11, 1980, the Appeal Board issued a Memorandum and Order (ALAB-605) in which it remanded to the ASLB for future proceedings the issue of whether the Puerto Rico Electric Power Authority's application for a CP should be dismissed or denied because of failure to pursue the matter.

Sheffield Low Level Disposal Site

On August 12, 1980, the Appeal Board issued a Decision (ALAB-606) in which it ruled on a motion by the Chicago Section of the American Nuclear Society which called for the preparation of an environmental impact statement in connection with the presiding ASLB's ruling granting Applicant's motion to withdraw its application to expand the Sheffield site. The Appeal Board determined that no EIS was required.

Three Mile Island Nuclear Station, Unit 1

On August 15, 1980, the Commission issued a Memorandum and Order in response to a certified question from the presiding ASLB inquiry as to whether procedural assistance, particularly free transcripts, to intervenors could be authorized in this proceeding. Because of the nature of this proceeding the recently adopted Commission rule providing for procedural assistance did not apply. Considering the circumstances the Commission authorized the ASLB to extend the procedural assistance permitted by the new rule to the intervenors in this proceeding.

Enclosure G

ITEMS OF INTEREST
OFFICE OF INTERNATIONAL PROGRAMS
WEEK ENDING AUGUST 15, 1980

Proposed NRC-Chinese Cooperation

IP this week forwarded to the Department of State for transmittal to the Chinese Nuclear Society a proposal for nuclear safety cooperation with the People's Republic of China. This responded to several CNS requests for information on how to go about establishing such a program. We have asked the Embassy, in consultation with the CNS, to determine which governmental agency should most appropriately conclude the Arrangement for China.

Foreign Visits to NRC

On Thursday, Mr. Kuo-Yu-h Liu, Director of the Waste Management Division of the Taiwan Atomic Energy Council met with (1) R. D. Smith of WM/NMSS to discuss the management of low-level waste, (2) V. Hodge of FCMS/NMSS to discuss transportation regulations, (3) F. Fisher of FCMS/NMSS to discuss the handling of waste at fuel cycle facilities, and (4) R. J. Clark of NRR to discuss spent fuel storage and waste management at reactor sites. As part of his U.S. visit, Mr. Liu was also scheduled to tour San Onofre, D. C. Cook, Peach Bottom, TMI, and the decommissioned Fermi-1. Additionally, Mr. Liu examined low-level waste disposal sites in Richland, Washington, Beatty, Nevada, and Barnwell, S.C.

During the week of August 11-15, Mr. Rubens Barcelos, from the Brazilian National Committee for Nuclear Energy, visited the IE regional office in Atlanta, and the McGuire I and Summer I nuclear power plants to discuss preoperational testing.

* Foreign Reports

* Deleted from PDR copy

ENCLOSURE H

OFFICE OF STATE PROGRAMS

ITEMS OF INTEREST

WEEK ENDING AUGUST 15, 1980

State Agreements

Two training courses for State personnel on the Safety Aspects of Industrial Radiography will be given by Gamma Industries in Baton Rouge, Louisiana during the weeks of August 18 and August 25, 1980. E. C. Ashley is course coordinator.

A meeting on Training - Industrial Radiography Exposure will be held between State and NRC representatives in Baton Rouge, Louisiana on August 20-21, 1980. J. O. Lubenau will represent SP.

The Colorado radiation control program for agreement materials will be reviewed during the week of August 13-22, 1980.

Program Development

A possible radiation overexposure incident was reported to the Region IV Duty Officer Tuesday evening, August 12. Two men working in a warehouse containing radioactive material reported feeling ill and notified the NRC. The Region IV Office notified the State of Texas who is investigating the incident. Jim Montgomery, Region IV, SLO, has been in contact with State personnel to determine if any further assistance from the NRC is needed.

William B. Menczer, Regional State Liaison Officer for Region III, on August 13, 1980, was the guest speaker before the Illinois Commission on Atomic Energy meeting in Chicago. Mr. Menczer presentation entitled "NRC's role in Illinois" discussed the regulatory role of NRC and its Regional Office as well as the functions and responsibilities of the RSLO. The Commission's questions following the presentation concentrated on emergency planning issues. Several representatives of environmental groups were in attendance and expressed their concerns primarily over the proposed Energy Department's take over of the General Electric Morris spent fuel storage facility.

Bob Trojanowski, Region II RSLO, participated as a member of the Regional Advisory Committee in emergency planning review meetings with North Carolina State officials on August 11-12, 1980 and in the review of the Mississippi emergency plan on August 13, 1980.

On August 11, 1980, Thomas Elsasser, RSLO, attended a RAC II meeting in New York City to discuss the status and review the New Jersey and New York Radiological Emergency Response Plans.

OFFICE OF MANAGEMENT AND PROGRAM ANALYSIS

Items of Interest

WEEK ENDING AUGUST 15, 1980

Accountability in FY 81

Provided EDO with memo for Office Directors and Program Managers that spells out plans for keeping track of key accomplishments planned by the Agency in FY 81. Attached to the memo for review and comment by Offices and Program Managers is a draft list of key accomplishments arrayed by the 19 program areas in the PPPG and in the TMI Action Plan.

Proposed Abnormal Occurrence

Drafts of a Federal Register Notice and a Commission paper were sent to staff on possible A.O. regarding the failure of reactor coolant pump seal at Arkansas One - Unit 1.

ENCLOSURE J

CALENDAR OF SPEAKING ENGAGEMENTS

9/9/80	University of Chicago	Personnel Dosimetry Performance Testing	R. Alexander, HQ
9/9/80	Nuclear Records Mgmt Assn Houston, TX	Inspection of QA Requirements for Records	W. Ruhlman, RO II
9/18/80	Rotary Club Roseland, NJ	Cleanup at TMI 2	T. Elsasser, RO I
9/22/80	League of Women Voters Calvert County, MD	Nuclear Energy in Calvert County (Calvert Cliffs)	R: Architzel, RO I
10/5/80	Missouri Valley Nuclear Medicine Society, St. Louis	NRC Inspection of Nuclear Medicine Programs	C. Paperiello, RO III
10/6/80	School of Nuclear Medicine J.F. Kennedy Medical Center Edison, NJ	Requirements for NRC Inspection Process	L. Friedman, RO I
10/7/80	Univ. of Illinois Medical Center, Chicago	Waste Handling & Disposal (Sponsored by Univ of IL and Dept of Public Health)	J. Pagliaro, RO II
10/9/80	Society of American Military Engineers - Atlanta Post, GA	Overview of NRC	K. Clark, RO II
10/15/80	American Society for Non- destructive Testing Roseland, NJ	Industrial Radiography - An NRC Perspective	F. Costello, RO I
10/24/80	Regional Emergency Medical Services Program, Inc. Canandaigua, NY	Transportation Emergencies Involving Radioactive Materials	M. Slobodien, RO I
10/25/80	Nuclear Medicine Technologists Society of Nuclear Medicine & Waterbury Hospital Health Center	Inspection Process at Medical Institutions	J. Glenn/J. McGinness
10/27/80	Power Engineering Society Atlanta Chapter-IEEE, GA	Three Mile Island	R. Martin, RO II

ENCLOSURE II

**STATUS OF NUCLEAR POWER REACTORS
UNDER NRC PURVIEW - JULY 31, 1980**
SOURCE: OFFICE OF MANAGEMENT & PROGRAM ANALYSIS

<u>Number Of Units</u>	<u>Capacity* (MWe)</u>
**67 LICENSED TO OPERATE	49,000
(Excludes 2 which have operating licenses but are shut down indef - initely - Three Mile Island 2, and Humboldt Bay)	
3 LICENSED FOR LOW-POWER TESTING	3,000
85 CONSTRUCTION PERMIT GRANTED	94,000
37 Under Operating License Review	41,000
48 Operating License Not Yet Applied For	53,000
(Excludes 2 which have been denied certification by the N.Y. State Siting Board - Jamesport 1 & 2)	
11 UNDER CONSTRUCTION PERMIT REVIEW	14,000
(Excludes 3 which are indefinitely postponed - Montague 1 & 2, and Clinch River; and 2 which have been denied certification by the N.Y. State Siting Board - New Haven 1 & 2)	
166 TOTAL	159,000***

*Net Maximum Dependable Capacity for operating units for which it is established; net Design Electrical Rating for all other units.

**The 67 units have accumulated 480 reactor years of operation. An additional 56 reactor years of operation have been accumulated by permanently or indefinitely shut down units.

***Numbers do not add exactly due to rounding.

NOTE: Only units docketed by NRC are included. Hence, two status categories ("Ordered" and "Publicly Announced") included in similar charts issued through December 1979 are not used.