

July 23, 1980

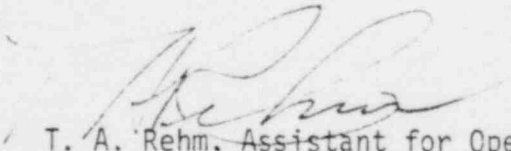
For: The Commissioners

From: T. A. Rehm, Assistant for Operations, Office of the EDO

Subject: WEEKLY INFORMATION REPORT - WEEK ENDING JULY 17, 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 copy.

CONTACT:
T. A. Rehm
27781

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POOR QUALITY PAGES

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Summary of Weekly Information Report
Weekling Ending July 17, 1980

Trojan Nuclear Plant

On July 11, 1980, the AS'B issued an Initial Decision authorizing the Director of NRR to issue an amendment requiring PGE to proceed with modifications to the Trojan Control Building to restore the originally intended seismic design margins. PGE is to complete the modifications in twelve months.

Oconee, Unit 2

Due to a motor bearing failure on High Pressure Injct on Pump 2B, Duke Power Company requested an emergency Tech Spec change late in the afternoon on July 16. The licensee requested an additional 48 hours of full power operation until July 18 before reducing power in order to have an opportunity to replace the failed bearing. The 48-hour extension was considered justified and a Tech Spec change was issued.

Arkansas Nuclear One, Unit No. 1

ANO-1 initiated a shutdown on July 16 as a result of a Steam Generator Tube Leak (0.1 gallon per minute). There was detectable activity (25% MPC) at the stack releases and shutdown was initiated to minimize contamination of the secondary system.

San Onofre, Unit 1

Results of recent steam generator tube inspections indicate that about 1/4 of the tubes examined to date have indications of cracking above the 50% penetration plugging limit.

IE Manual

During the week of July 21 IE plans to disclose to the public the entire IE Manual. Previously, only selected parts of the IE Manual were publicly available.

Environmental Equipment Qualification Data Base

IE will use the data base to assist in reviewing responses to IE Bulletin 79-01B, Environmental Qualification of Class 1E Equipment. Using plant data processed under contract by Franklin Research Institute, EPA will operate the system for NPR, IE, and other interested offices.

FY 1980 Travel Ceiling

OMB provided an additional increase to our travel ceiling and allotments will be issued shortly.

OFFICE OF ADMINISTRATION

Week Ending July 18, 1980

ADMINISTRATION OF THE FREEDOM OF INFORMATION ACT

STATUS OF REQUESTS

| | <u>Initial Request</u> | <u>Appeal of Initial Decision</u> |
|----------|------------------------|-----------------------------------|
| Received | 448 | 34 |
| Granted | 323 | 8 |
| Denied | 78 | 14 |
| Pending | 47 | 12 |

ACTIONS THIS WEEK

Received

Joe Farnan,
Attorney-At-Law
(80-355)

Requests information concerning the radioactive material magnesium-thorium alloy, danger of radioactive dust particles to human health, and work related problems associated with radioactive materials.

James Aucoin,
Lincoln Evening
Journal
(80-356)

Requests a copy of the final report and all supporting documents by the AEC concerning the Hallam nuclear power plant that led the AEC to decommission the plant.

Reed Irvine,
Accuracy in Media, Inc.
(80-357)

Requests a copy of Commissioner Gilinsky's telephone log and related documents for 1979.

(NRC employee)
(80-358)

Requests a sanitized copy of the 1980 appraisals for six individuals.

Ellyn R. Weiss,
Sheldon, Harmon
and Weiss
(80-359)

Requests a copy of a memorandum dated June 13, 1980 from Harold Denton to the Commissioners entitled "Compliance of Operating License Applications with Current NRC Regulations, Regulatory Guides and Branch Technical Periodic "

Robert A. Backus,
Attorney-At-Law
(80-360)

Requests five categories of information concerning the Seabrook licensing proceeding.

CONTACT: J. M. Felton
492-7211

ENCLOSURE A

Received, Cont'd

Anne Rapkin,
State of Illinois
(80-361)

Requests statements of policy and interpretations adopted by the NRC under Title II of the Uranium Mill Tailings Radiation Control Act, not published in the Federal Register and all documents relating to Kerr-McGee Chemical Corporation's facility in West Chicago, Illinois.

(Individuals' requesting
information about themselves)
(80-362 thru 80-367)

Requests that copies of their Operator License exam results be released to Mr. R. C. Arnold, Sr. Vice President, Metropolitan Edison Company.

John F. Doherty
(80-368)

Requests a copy of 65 listed documents.

William Reynolds,
American Friends
Service Committee
(80-369)

Requests information on the routes and numbers of shipments of spent nuclear fuel in the U.S.

Margot Myers,
Office of Dennis DeConcini,
United States Senate
(80-370)

Requests, on behalf of an individual, information concerning radiation exposure to her family resulting from the 1971 nuclear testing at the Nevada Test Site.

James Leas,
Union of Concerned
Scientists
(80-371)

Requests a copy of "Startup Problem Report" dated March 30, 1980, referenced in Volume 2 of the Rogovin Report and a copy of Citizens Committee for the Protection of the Environment, Proposed Findings of Fact and Conclusions of Law dated February 8, 1972, regarding Consolidated Edison Company of New York (Indian Point No. 2).

D. Ryan Cowan,
KCEN - TV 6
(80-372)

Referral from the DOE for existing regulations pertaining to disposal of high and low-level wastes.

David G. Swartzlander,
The Sun-Bulletin
(80-373)

Requests the routes and quantities of 14 shipments of spent nuclear fuel from the Chalk River Nuclear Laboratories in Ontario, Canada to Savannah River, South Carolina.

Katherine A. Meyer,
Attorney-At-Law
(80-A-23-80-298)

APPEAL TO THE EDC for information pertaining to the transportation of spent nuclear fuel from Portsmouth, Virginia to the Savannah River Plant in Aiken, South Carolina.

Received, Cont'd

Mike Tappan
(80-A-24-80-253)

APPEAL TO THE EDO for a waiver of reproduction fees regarding a request for documents relating to Fort St. Vrain Nuclear Power Plant.

Thomas B. Cochran,
Natural Resources
Defense Council, Inc.
(80-A-25-79-5f0)
(80-A-26-80-?8)

APPEAL TO THE EDO for a copy of 21 documents denied either in whole or in part regarding the NRC's consideration of the licensing of the NFS-Erwin nuclear fuel facility.

Granted

Tom Keenan,
Inside D.O.E.
(80-318)

In response to a request for a copy of Region 2's list used by Director's Office to distribute bulletins, information notices, and circulars to licensees and CC's, and Region 4's list used by Director's Office to distribute quarterly publication concerning contractor/vendor inspection information, made available these lists.

Lana Cobb,
NTEU Steward
(80-321)

In response to a request, on behalf of an NRC employee, for information on the employee's desk audit, made available two documents.

J. Scott Taylor,
Attorney-At-Law
(80-333)

In response to a request for copies of records pertaining to Scott Luminous, Inc., made available 29 documents.

Harry Salzberg,
Black Hills Alliance
(80-324)

In response to a request for three categories of information regarding NRC source material license requirements with respect to Union Carbide's Gas Hills, Wyoming, Uranium Milling Facility, made available 25 documents.

Judah C. Sommer,
Attorney-At-Law
(80-340)

In response to a request for all records developed in the course of NRC investigations of twelve corporations and seven listed individuals, informed the requester the NRC has no documents subject to this request.

Peter Montague,
National Campaign for
Radioactive Waste Safety
(80-349)

In response to a request for a copy of "Submerged Demineralizer System Technical Evaluation Report", informed the requester this document has already been made available at the PDR.

Granted, Cont'd

Peter Verrecchia,
Critical Mass
Energy Project
(80-351)

In response to a request for a copy of NRC contracts awarded for fiscal years 1978, 1979, and 1980, made available a list of contracts executed for these years and informed the requester the contracts are available at the PDR.

Reed J. Irvine,
Accuracy in Media, Inc.
(80-357)

In response to a request for a copy of Commissioner Gilinsky's telephone log and related documents for 1979, informed the requester this information is available at the PDR.

Ellyn R. Weiss,
Sheldon, Harmon
and Weiss
(80-359)

Made available a copy of a memorandum dated June 13, 1980 from Harold Denton to the Commissioners entitled "Compliance of Operating License Applications with Current NRC Regulations, Regulatory Guides, and Branch Technical Positions."

Denied

Arthur Kranish,
Trends Publishing, Inc.
(79-481)

In response to a request for all material received, considered or approved by the Commission during its consideration of the inventory at NFS-Erwin, made available one document. Denied portions of two documents, one of which contains commercial or financial (proprietary) information and one of which contains information classified Confidential Restricted Data. Informed the requester additional information regarding this subject area is already located in the PDR in previous FOIA requests.

Thomas B. Cochran,
Natural Resources
Defense Council, Inc.
(79-549)

In response to a request for documents regarding the inventory difference at the Nuclear Fuel Services facility, Erwin, Tennessee reported on or about September 17, 1979, made available one document. Denied portions of two documents, one of which contains commercial or financial (proprietary) information and one of which contains information classified Confidential Restricted Data.

Michael S. Givel
(80-263)

In response to a request for 22 categories of documents regarding the Crystal River Nuclear Power Plant, made available 16 documents. Denied portions of seven documents considered commercial or financial (proprietary) information. Informed the requester that one additional document subject to this request is available at the PDR.

Denied, Cont'd

Virginia B. Foote,
Center for Development
Policy
(80-283)

In response to a request for documents pertaining to the proposed nuclear reactors to be located near Gyaema, Korea, made available one document and informed the requester four additional documents subject to this request are available at the PDR. Denied portions of one draft containing advice, opinions and recommendations of the staff.

Donald F. Knuth,
KMC, Inc.
(80-303)

In response to a request for all documents which requested, directed, or discussed any changes in the text of the proposed fire Protection Rule presented in SECY-80-88, and the record of the Commission's vote regarding such changes, made available 18 documents. Denied one document in its entirety containing advice, opinions and recommendations of the staff. Denied six documents in their entirety, each of which was predecisional, and their disclosure would adversely affect the ability of the Commission to engage in candid deliberations.

(NRC employee)
(80-310)

In response to a request for a copy of the Office of the Inspector and Auditor's report on the findings of their investigation concerning the Cashier's office, denied this report in its entirety, the disclosure of which would cause a clearly unwarranted invasion of personal privacy; disclose investigative techniques and procedures and would interfere with an ongoing law enforcement proceeding.

DIVISION OF CONTRACTS

Week Ending July 18, 1980

RFP'S ISSUED

RFP RS-RES-80-176

Title - Non-Equilibrium Heat Transfer and Two-Phase Instrumentation

Description - This is a study to experimentally and analytically investigate non-equilibrium effects in post-CHF heat transfer, including advancement of the state-of-the-art for measurement of non-equilibrium two-phase flow parameters. This project will include direct measurement of non-equilibrium conditions under controlled flow conditions, improvements in the modeling of film boiling and refinement of non-equilibrium two-phase flow measurement techniques.

Period of Performance - Thirty-six months

Sponsor - Office of Nuclear Regulatory Research

Status - Solicitation issued July 15, 1980.

PROPOSALS UNDER EVALUATION

1. RFP RS-RES-80-196

Title - Seismicity of the Pacific Northwest (Washington and Oregon)

Description - A study to monitor the seismicity of the Pacific Northwest to provide background seismological information necessary to evaluate the potential seismic hazard to nuclear power plants.

Period of Performance - Five years

Sponsor - Office of Nuclear Regulatory Research

Status - RFP closed July 8, 1980. Panel meeting to distribute proposals held on July 10, 1980.

2. RFP RS-RES-80-180

Title - Source Term Characterization Resulting from Explosively Caused Secondary Violations of Spent Fuel Shipping Casts

Description - A study to establish the magnitude and characteristics of potential radiological source terms associated with specified explosive attacks on spent fuel casks and releases through violations away from the point of explosive attack.

Period of Performance - Fifteen months

Sponsor - Office of Nuclear Regulatory Research

Status - Negotiations completed July 9, 1980. Letters to request best and final offers sent July 10, 1980. Best and final offers due July 28, 1980.

ENCLOSURE A

3. RFP RS-RES-80-182
 Title - Definition of Bounding Physical Tests Representative of Transport Accidents - Rail and Truck
 Description - Based on an investigation and assessment of extremely severe transport accident events, define a set(s) of radioactive material shipping package performance tests which bound the environments experienced in such accidents.
 Period of Performance - Eighteen months
 Sponsor - Office of Nuclear Regulatory Research
 Status - Negotiations completed July 10, 1980. Letters to request best and final offers sent July 10, 1980. Best and final offers due July 25, 1980.
4. RFP RS-NMS-80-028
 Title - Environmental Assessment of Surface and Groundwater Impacts from Uranium Recovery Operations
 Description - The Commission, in its review of license applications, renewals, and modifications requires the technical assistance of a contractor to assist in the development of environmental appraisals and impact statements. The effort requires a review of applicants' submittals and the preparation of an environmental assessment. The assessment, along with other data, will be furnished in a technical evaluation report. The contractor shall additionally be prepared to respond to public comment on these assessments and to possibly collect actual field data on some sites.
 Period of Performance - One year
 Sponsor - Office of Nuclear Material Safety and Safeguards
 Status - Final selection for awards was made on July 11, 1980.

CONTRACT AWARDS

- NRC-03-80-104
 Title - Core Melt Material's Interactions Evaluations
 Description - To provide the NRC staff with evaluations of materials interactions associated with a postulated core meltdown accident wherein molten core debris interacts with either containment material or core retention system materials.
 Period of Performance - Three years
 Sponsor - Office of Nuclear Reactor Regulation
 Status - A cost-plus-fixed-fee contract was awarded to Applied Science Associates, Inc., on April 16, 1980, in the amount of \$529,066.00.

CANCELLATIONS

RFP RS-RES-80-195

Title - Assessment of Volcanic Hazards in the Northwestern U. S.

Description - A research study to evaluate volcanic hazards in the northwestern United States and to develop criteria to establish the potential for volcanic hazards and provide guidelines to evaluate the design basis for volcanic phenomena that could affect a stie.

Period of Performance - Two years

Sponsor - Office of Nuclear Regulatory Research

Status - Project cancelled per RES RFP Amendment dated July 8, 1980. USGS will be conducting a study of a nature encompassing this requirement. RES has determined it would be more beneficial to the Government to support the USGS initiative.

CONTRACTS CLOSED OUT

(All administrative action completed and final payment made)

| <u>Contract No.</u> | <u>Contractor</u> | <u>Close-Out Date</u> |
|---------------------|-----------------------------------------------------|-----------------------|
| AT(49-24)-0264 | U.S. Army, J.F.K. Center for Military Assistance | 7/10/80 |
| AT(49-24)-0375 | Naval Surface Weapons Center | 7/11/80 |
| NRC-02-77-200-1 | Lulejian & Associates, Inc. | 7/10/80 |
| NRC-02-77-200-2 | R&D Associates | 7/10/80 |
| NRC-02-77-200-3 | Science Applications, Inc. | 7/10/80 |
| NRC-02-77-200-4 | TRW | 7/10/80 |
| NRC-02-77-200-5 | Operational Systems, Inc. | 7/11/80 |

ADMINISTRATIVE MATTERSAccuracy of NRC Procurement Data Prepared for Federal Procurement Data Center

While other Government agencies continue to experience difficulty in submitting error-free procurement action data to the Federal Procurement Data Center as required by law, FPDC has informed NRC that, for fiscal year 1979, NRC's accuracy level was 99% of actions reported, reflecting 95% of dollars obligated. For the first quarter of FY 80, the most recent data available, NRC's accuracy rate has been 97% of actions reported, reflecting 99% of dollars obligated. Each reported action requires the completion of some 27 separate and distinct information fields.

DIVISION OF SECURITY

ITEMS OF INTEREST

WEEK ENDING JULY 18, 1980

During the week of July 14, 1980, Facilities and Systems Security Branch (FSSB) personnel coordinated with local law enforcement agencies and provided security support services for the Atomic Safety and Licensing Board Panel hearings in San Diego, California.

ENCLOSURE A

OFFICE OF NUCLEAR REACTOR REGULATION

WEEKLY ITEMS OF INTEREST
(Week Ending July 18, 1980)

Trojan Nuclear Plant

On July 11, 1980 the Atomic Safety and Licensing Board issued an Initial Decision in the Trojan Control Building proceeding. The decision authorizes the Director of NRR to issue an amendment requiring PGE to proceed with modifications to the Trojan Control Building to restore the originally-intended seismic design margins. PGE is to complete the modifications in twelve months.

On July 12, 1980, IE:V sent a letter to PGE documenting the staff's acceptance of PGE's actions with respect to analyzing and correcting masonry walls in the facility as required by the reevaluation criteria. Twenty masonry walls required modification before startup. Seventeen more will require modification by October 31, 1980.

Trojan went critical early on July 16. Power operation is expected on July 18.

Oconee, Unit 2

Due to a motor bearing failure on High Pressure Injection Pump 2B, Duke Power Company requested an emergency Tech Spec change late in the afternoon on July 16, 1980. Unit 2 was in a 72 hour action statement and would have to reduce power to 60% at 10:20 pm on July 16, 1980. Due to a serious power shortage in the Oconee service area the licensee requested an additional 48 hours of full power operation, until 10:20 pm, July 18, before reducing power, in order to have an opportunity to replace the failed bearing. The remaining "A" and "C" HPI trains were either in operation or operable as were the required supporting power, instrumentation and control and auxiliary systems. With the exception of one specific small break LOCA, two operable HPI pumps are sufficient for a small break LOCA. Due to the low probability of such a LOCA event during the 48 hour extension of time and the stationing of an operator to verify valve alignment in the event of a LOCA, a desirable compensating action, the 48 hour extension was considered justified and a Tech Spec change was issued at about 10:00 p.m. on July 16, 1980.

Arkansas Nuclear One, Unit No. 1

ANG-1 initiated a shutdown at 3:30 pm on July 16, 1980 as a result of a Steam Generator Tube Leak. The unit was taken off the grid at 11:56 pm. At the time of initiation of shutdown the leakage rate was 0.1 gallon per minute and there was detectable activity (25% of maximum permissible concentration) at the stack releases. Maximum allowable primary to secondary leakage is 1 gallon per minute. Shutdown was initiated to minimize contamination of the secondary system.

ENCLOSURE B

Hatch, Units Nos. 1 & 2

The licensee reported to ONRR on July 15, 1980 at 9:15 am that the pool temperature in the torus is 91°F. The Tech Spec limit is 95°F. This situation is caused by the long duration of abnormally hot temperatures in the area. The licensee has placed the RHR system in the torus cooling mode; the heat sink is the Altamaha River which is running at about 93°F, but the temperature is decreasing. In the event of a LOCA the RHR would automatically transfer to the LPCI mode. The licensee has investigated other temperature effects on safety related equipment and has determined that the pool water temperature is most critical. The two units generate 1600 MWe total dependable capacity and are at record output at this time. ONRR and OIE are coordinating with the licensee in following this concern. The region, Georgia, Alabama, Florida and South Carolina, with the Hatch units in operation have a slight power surplus per preliminary reports from the licensee.

San Onofre Unit 1

Representatives of the licensee met with the NRC staff to discuss the ongoing steam generator tube inspections at San Onofre Unit No. 1. The results of recent investigations with a more sensitive eddy current probe indicate that about 1/4 of the tubes examined to date have indications of cracking above the 50% penetration plugging limit. The licensee has outlined a program of further eddy current testing, removal of five additional tubes for more detailed examination, primary and secondary side pressure testing of the tube bundles, and an investigation of operating conditions, including secondary side chemistry on operations. It is expected that the facility will remain shutdown through August to complete this program.

Week of July 13-19, 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, July 18, 1980) (approximate values)

Average Incore Thermocouples: 199°F
 Maximum Incore Thermocouple: 151°F

RCS Loop Temperatures:

| | A | B |
|--------------|-------|-------|
| Hot Leg | 147°F | 150°F |
| Cold Leg (1) | 86°F | 84°F |
| (2) | 85°F | 86°F |

RCS Pressure: 80 psig (Heise)

Pressurizer Temperature: 94°F

Reactor Building: Temperature: 91°F
 Water level: Elevation 290.3 ft. (7.8 ft. from floor)
 via penetration 401 manometer
 Pressure: -0.3" Hg (Heise)

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:

- EPA environmental stations registered background levels for air particulate and water samples. Gamma scan results for all sampling locations were negative.
- Since the reactor building venting has been terminated, the EPA has changed their Kr-85 sampling frequency. Samplers for measuring Kr-85 concentration in air will be evaluated weekly in lieu of daily analysis, beginning July 12, 1980. The particulate sampling network will continue to be operated indefinitely with samples collected three times per week. Analysis of the filters and charcoal cartridges located in Middletown will continue to be performed.
- Instantaneous direct radiation readings showed an average level of 0.014 mRem/hr at 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 (uCi/cc)</u> | <u>Cs-137 (uCi/cc)</u> |
|---------------|-------------------------|---------------------------|----------------------------|
| HP-224 | July 9 to July 16, 1980 | <4.8E-14 | <4.8E-14 |

No reactor related radioactivity was detected.

- The licensee provided the following monthly inventory of Kr-85 releases for 1980: January-80 Ci, February-80 Ci, March-63 Ci, April-69 Ci, May-85 Ci, June-447 Ci, and July (to midnight July 10) 42,615 Ci. This results in a total Kr-85 release of 43,439 Ci, as of midnight July 10, 1980.

The licensee stated that the uncertainty for Kr-85 released during the purge is + 10%.

- Environmental TLD measurements for the period May 29, to July 2, 1980, indicate gamma radiation to be at the natural background levels. Fifty-nine TLD's registered doses ranging from 0.10 mR/day to 0.20 mR/day. Average dose was 0.13 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 Monday, July 14, 1980, a Unit 2 40 ml reactor coolant sample was shipped to Babcock and Wilcox (B&W), Lynchburg, Virginia.
- On Tuesday, July 15, 1980, three (3) boxes containing Unit 2 air sample filters were mailed to T.ledyne Isotopes, Inc., Westwood, New Jersey.

-- On Tuesday, July 15, 1980, a stack air sample was shipped to the New York State Health Department, Albany, New York.

Major Activities This Week

1. EPICOR II System. Processing of the fuel pool storage system water via the reactor coolant bleed tank ("B") continued. Completion of processing auxiliary building water, which has accumulated as a result of the March 28 accident and the subsequent clean-up period to date, is expected by early August 1980.

Processing status of auxiliary building water (approximate) is as follows:

| | |
|-----------------------------|-----------------|
| Amount processed this week: | 28,000 gallons |
| Amount processed to date: | 441,000 gallons |
| Amount to be processed: | 32,000 gallons |

2. Reactor Building Purge. Frequent reactor building atmosphere samples were taken during the week. The results are summarized below:

| | |
|--------------------------------|----------------------------------|
| July 15, 1980 (469' elevation) | (1) 6.2×10^{-4} uCi/cc |
| | (2) 6.4×10^{-4} uCi/cc |
| July 16, 1980 (315' elevation) | (1) 6.86×10^{-4} uCi/cc |
| | (2) 6.65×10^{-4} uCi/cc |
| July 16, 1980 (469' elevation) | (1) 6.25×10^{-4} uCi/cc |
| | (2) 7.07×10^{-4} uCi/cc |
| July 17, 1980 (469' elevation) | (1) 7.66×10^{-4} uCi/cc |
| | (2) 7.5×10^{-4} uCi/cc |
| July 19, 1980 (465' elevation) | (1) 1.33×10^{-3} uCi/cc |
| | (2) 1.29×10^{-3} uCi/cc |

The water in the reactor building sump is suspected to be off ~~base~~ ~~g~~ ~~Kr-85~~. The licensee is modifying the normal operating procedure for the reactor building ventilation system to address periodic building purge evolutions which would minimize Kr-85 buildup.

3. Reactor Building Entry. Opening of the inner door for personnel airlock no. 2 was precluded during the initial attempt due to the stuck AP safety interlock pin. The stuck pin problem was corrected on July 1, 1980, by drilling a small hole through the door and disengaging the pin. The opening of the inner door on July 16, 1980, was successful.

The open door allowed for radiation surveys to be taken inside the reactor building near the inner door. The radiation levels ranged from approximately 20 mR/HR at the door to approximately 700 mR/HR 12-15 feet from the door.

The inner door was closed and the seal rings for the door were leak tested. The door seals failed the leak test. The seals are of similar design to a Reactor Vessel to Vessel Head-O-Ring Seal Arrangement comprising of an inner and outer seal. The test pressure source is applied between the two seals. The leak would indicate that one or both of the seals were not providing a seal tight mating surface with the door.

Inner door seal leakage (under test pressure) was minimized by surface cleaning and taping. At 7:00 p.m., on July 16, 1980, an additional inner door seal leakage test failed to meet the test acceptance criteria (2772 standard cm³/min at 10 psig).

The seal leakage test on the outer door of the airlock was successful. However, a similar problem to the current inner door leakage occurred on the outer door in March 1980. This resulted in the outer door seals being replaced. The replacement of the inner door seals, if necessary, would involve a distinctive radiological problem requiring careful planning.

The licensee and the NRC onsite staff are reviewing the inner door problem with respect to ALARA (as low as reasonably achievable) conditions. The licensee plans are to make periodic airlock entries for data collection, i.e., inner door gap measurements between mating surfaces, etc. In addition, during the scheduled first containment entry planned for July 23, 1980, (since the March 28 accident) an individual will be dedicated to the thorough cleaning of the door seals/mating surfaces. This will be followed by subsequent testing of the inner door seals.

4. Mini-Decay Heat (MDH) System. Licensee review of the functional test and operating procedures for the MDH system is in progress. Major outstanding items for system operation are: Replace carbon steel filter housings with stainless steel filter housings; perform the functional test the system; complete operator training; issuance of associated operating procedures; and revise technical specifications to address MDH system operation.
5. Plant Decontamination. A subcommittee was established this week to coordinate all outstanding items for plant decontamination. The pending operation of the desludging system for various radwaste tanks was discussed. Procedures to support desludging operations were submitted to the NRC onsite staff for review.

More detailed reports in this area are forthcoming and will be addressed in subsequent reports.

OFFICE OF STANDARDS DEVELOPMENT

IMPORTANT EVENTS FOR THE WEEK ENDING JULY 18, 1980

1. The Toxic Substance Strategy Committee (TSSC) sent its report to the President in May and it was released to the public on June 29, 1980. Key findings of the report, "Toxic Chemicals and Public Protection", include: the fact that cancers among Americans are rising for the first time in 30 years (up about 10% from 1970 to 1976); that there may be a causal link between this rise and the rise in quantity and variety of toxic chemicals being produced; the estimate that occupational exposure to carcinogens is a factor in more than 20% of all cancers and that there is a need for more interagency coordination and more resources to comply with existing legislation.

The TSSC will continue to stay in existence for only a short time to start planning for individual agencies and interagency groups to implement the recommendations of the report. The NRC has a commitment to share information on toxic substances research and development projects which has been formalized by a Memorandum of Understanding signed by NRC and the Smithsonian Scientific Information Service.

[Contact: R. P. Grill, 443-5966] (Item not incorporated into last week's report.)

2. Meeting of the Working Group for the U.S. Radiation Policy Council: The Interagency Working Group, which was established to develop the long-term agenda for the U.S. Radiation Policy Council (RPC), held its fourth meeting on July 15, 1980. The Working Group received progress reports from the three task forces (low-level waste disposal, occupational radiation protection, and control of radon in inhabited structures) and discussed the RPC regional meetings which are scheduled to obtain public input for the RPC agenda. Karl Goller, SD, attended the Working Group meeting as NRC's representative. Robert Minogue, John Guibert and Ed Podolak also attended.

Each of the RPC regional meetings will be attended by an NRC representative: Karl Goller (Boston, July 22); Ray Smith (Denver, July 29 and San Francisco, July 31; and James O'Reilly (Atlanta, August 5)

The primary task of the Working Group at the July 15, 1980 meeting was to approve a schedule for developing the Council's reports to the President and the public. Currently, a report to the President is scheduled for September 30, 1980 and will contain: a tentative agenda for Council activities; a description of public participation; and a summary of the work of the three task forces. The tentative Council agenda for 1981-83 would be circulated for comment by the public, other Federal agencies and the Congress. A second Council report dated December 31, 1980 would be written for widespread distribution and would include the final Council 1981-83 agenda.

[Contact: E. Podolak, 443-5860]

Publications Issued During the Week of July 14-18, 1980

Reg. Guide 5.52, Rev. 2 - Standard Format and Content of a Licensee Physical Protection Plan for Strategic Special Nuclear Material at Fixed Sites (Other than Nuclear Power Plants)

Reg. Guide 5.61 - Intent and Scope of the Physical Protection Upgrade Rule Requirements for Fixed Sites

OFFICE OF NUCLEAR MATERIAL SAFETY AND SAFEGUARDS

Items of Interest

Week Ending July 18, 1980

Implementation of the US/IAEA Agreement

NMSS is conducting a number of activities required to place into effect the safeguards treaty recently ratified by the Senate. NRC responsibility for implementing the agreement in U.S. facilities is assigned to a Safeguards Agreement Implementation Group. Tasks include:

- a. Provision to Department of State of an updated list of NRC-licensed facilities.
- b. Development and GAO clearance of reporting forms to be used by U.S. facility operators in providing information to IAEA.
- c. Development of reporting instructions to clarify and provide more detailed information to assist licensees in meeting the new requirements.

Fixed Site Physical Protection Upgrade Rule Guidance Compendium

NUREG 0669., "Fixed Site Physical Protection Upgrade Rule Guidance Compendium" has been published and distributed to fuel cycle licensees and other interested parties. The compendium, in three volumes, provides comprehensive guidance which will aid fuel cycle licensees in the development of physical security plans to meet the requirements of the Physical Protection Upgrade Rule, effective March 25, 1980.

Memorandum of Understanding With Bureau of Alcohol, Tobacco and Firearms (ATF)

The NMSS Safeguards staff has completed negotiations with the ATF staff on a memorandum of understanding (MOU) between NRC and ATF. The MOU is now being coordinated with other interested staff offices, after which it will be forwarded to the Commission for approval.

Participation in Panel on LLW at Annual Meeting of National Conference of State Legislatures

On July 10, 1980, Dale Smith, Chief, Low Level Waste Licensing Branch, participated in a panel discussion of low level radioactive wastes at the annual meeting of the National Conference of State Legislatures. The purpose of the panel discussion was to bring together persons with a wide spectrum of responsibilities and opinions to present their views on dealing with the current problems of transportation and disposal of radioactive wastes. The session was well attended, and there was considerable interest and participation on the part of the attendees. The panel consisted of State Senator Paul Mess, Chairman, Governor Richard Riley of South Carolina, Dr. Peter Montague, Princeton University, State Representative Daniel Kemmis of Montana, State Representative Stanley Fink of New York, Sheldon Meyers of DOE, and Mr. Smith.

ENCLOSURE D

Guidance Document for Licensees

We have prepared a first draft of a guidance document entitled "Standard Format and Content for Radiological Contingency Plans," for NMSS-licensed facilities and have sent it to IE and SD for informal review and comment. The purpose of the document is to assist NMSS licensees prepare contingency plans for responding to radiation emergencies.

National Certification Program for Radiographers

Members of the Material Certification and Procedures Branch met with representatives of the Agreement States on July 10, 1980, to discuss a national certification program for radiographers. It was agreed that such a program was desirable and a follow-up meeting was scheduled for August 20, 1980, during which we plan to iron out legal and technical problems.

- i. PNO-V-80-58 Nuclear Engineering Co., Richland, Washington Burial Site - Permanent Banning of International Chemical and Nuclear Corporation (ICN) Irvine, California (State Licensee) for Radioactive Waste Shipments
- j. PNO-80-02 NRC Operations Center - Communications Problems During TMI Drill
- k. PNO-TMI-80-38I Three Mile Island Unit 2 - Reactor Building Purge Status
- l. PNO-TMI-80-40 & -40A Three Mile Island Unit 2 - Personnel Airlock No. 2 Inner Door Status
- m. PNS-I-80-19 Three Mile Island Units 1 & 2 - Bomb Threat
- n. PNS-II-80-17 Browns Ferry Nuclear Plant - Undetected Penetration of Protected Area
- o. PNS-III-80-10 Clinton - Bomb Threat
- p. PNS-III-80-11 & -11A Quad Cities Unit 1 - Loss of Fission Counter
- q. PNS-III-80-12 Clinton - Bomb Threat
- r. PNS-III-80-13 Clinton - Additional Bomb Threats
- s. PNS-V-80-06 Rancho Seco - Employee Denied Access

OFFICE OF THE EXECUTIVE LEGAL DIRECTOR

ITEMS OF INTEREST

WEEK ENDING JULY 18, 1980

Greenwood Energy Center, Units 2 and 3

In an Order dated July 14, 1980 the presiding ASLB dismissed this proceeding in response to the Detroit Edison Company's withdrawal of its application for licenses.

ENCLOSURE G

Export/Import and International Safeguards

IP Review of Draft GAO Report

OIP is presently reviewing a draft GAO report entitled "An Evaluation of Selected Features of U.S. Nuclear Non-Proliferation Law and Policy".

While the report covers a variety of subjects, IP is concentrating on matters of NRC interest including: (a) U.S. export licensing times; (b) U.S. controls over foreign reprocessing and plutonium use; (c) U.S. controls over the export of highly enriched uranium; and (d) U.S. controls over retransfers.

US/IAEA Safeguards Agreement

On July 17 representatives of IP, NMSS, ELD, and SEC met with State, ACDA, and DOE to discuss scenarios regarding ratification and implementation of the U.S. Voluntary Offer. On the basis of this meeting it appears that all necessary activities are being provided high priority by the responsible office. State will be consulting the ISG (on which IP and NMSS represent NRC) regarding the timing of ratification of the Agreement, and the approach to be taken at the NPT Review Conference in August.

Agreement for Cooperation with Colombia

The Department of State has requested Commission views on a proposed Agreement for Cooperation with Colombia. NRC's and ACDA's views and recommendations are requested by August 18, 1980. The staff is in the process of reviewing the document and will be forwarding shortly a paper to the Commission.

OFFICE OF STATE PROGRAMS

ITEMS OF INTEREST

WEEK ENDING JULY 18, 1980

State Agreements

On July 14 and 15 Jim Montgomery, Region IV, RSLO, attended a low-level waste disposal meeting to review the Part 61 regulations sponsored by NMSS and conducted by the Western States Energy Board. During the course of the meeting Jim met with State representatives to dismiss a wide range of State/NRC concerns. He also discussed water quality issues with South Dakota officials. He also talked with a representative of Wyoming concerning the meeting between NMSS and officials scheduled for July 21st in Cheyenne, Wyoming.

On Wednesday, Jim Montgomery and Wayne Kerr met with officials from Utah State Health Department in Salt Lake City to discuss Utah's becoming an Agreement State. On Thursday, Jim met with Kansas officials to discuss topics related to construction of the Wolf Creek Nuclear Power Plant.

Program Development

As a member of RAC III, T. Elsasser, Region I, RSLO observed and critiqued the Pennsylvania Radiological Emergency Response Drill held on July 16th in conjunction with TMI Unit I facility.

Robert Trojanowski, Region II, RSLO, participated as a member of the Regional Advisory Committee in an emergency Planning Review Meeting with State officials in Frankfort, Kentucky on July 14 through July 16, 1980.

Frank Young will represent SP at the State Planning Council alternates meeting in Chicago, July 21.

OFFICE OF MANAGEMENT AND PROGRAM ANALYSIS

Items of Interest

WEEK ENDING JULY 18, 1980

Review of FY 80 Programs

Accompanied EDO to brief Commission on progress of selected programs in FY 80.

Environmental Equipment Qualification Data Base

Based on our system test report, IE will use this new data base to assist in reviewing responses to IE Bulletin 79-01B, Environmental Qualification of Class IE Equipment. Using plant data processed under contract by Franklin Research Institute, MPA will operate the ENQUAL system for NRR, IE and other interested offices.

Computer Hardware Support

NIH has replaced one of their IBM 370/168 computers with an IBM 3033, a new and more powerful machine. This should result in faster turnaround and response times for NRC users.

Office of the Controller

Items of Interest

Week Ending July 18, 1980

FY 1982 Budget

The EDO recommended budget was transmitted to the Commission on July 17, 1980.

FY 1980 Travel Ceiling

OMB provided an additional increase to our travel ceiling and allotments will be issued shortly.

Supplemental

OMB is anticipated to sign an apportionment next week providing supplemental funding to NRC. Upon receipt of the apportionment, CON will immediately issue revised allotments providing the additional funding to the various NRC offices.

Enclosure K

FORTHCOMING SPEAKING ENGAGEMENTS

AUGUST

9th

University of Chicago
Subject of talk: "Personnel Dosimetry Performance Testing"
Robert E. Alexander

ENCLOSURE N

**STATUS OF NUCLEAR POWER REACTORS
UNDER NRC PURVIEW - JUNE 30, 1980**
SOURCE: OFFICE OF MANAGEMENT & PROGRAM ANALYSIS

| <u>Number Of Units</u> | <u>Capacity* (MWe)</u> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| **67 LICENSED TO OPERATE (Excludes 2 which have operating licenses but are shut down indefinitely - Three Mile Island 2, and Humboldt Bay) | 49,000 |
| 3 LICENSED FOR LOW-POWER TESTING | 3,000 |
| 85 CONSTRUCTION PERMIT GRANTED | 94,000 |
| 34 Under Operating License Review | 37,000 |
| 51 Operating License Not Yet Applied For | 57,000 |
| (Excludes 3 which have been denied certification by the N.Y. State Siting Board - Sterling 1 and 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 474 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.