

July 28, 1981

For: The Commissioners
From: T. A. Rehm, Assistant for Operations, Office of the EDO
Subject: WEEKLY INFORMATION REPORT - WEEK ENDING JULY 24, 1981

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

Contents

Enclosure

Administration	A
Nuclear Reactor Regulation	B
Nuclear Material Safety and Safeguards	C
Inspection and Enforcement	D
Nuclear Regulatory Research	E
Executive Legal Director	F*
International Programs	G
State Programs	H
Management and Program Analysis	I
Controller	J*
Analysis and Evaluation of Operational Data	K
Small & Disadvantaged Business Utilization	L*
Items Approved by the Commission	M



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

*No input this week.

Contact:
 T. A. Rehm, EDO
 49-27781

8107300199 810728
 PDR COMMS NRCC
 WEEKLY INFOREPT PDR

Summary of Weekly Information Report
Week Ending July 24, 1981

Sequoyah 2

TVA estimates that Sequoyah 2 will go critical on August 23, 1981, and begin power escalation tests on September 3, 1981.

R.E. Ginna

A 55-gallon low-level waste drum, recently shipped from Ginna to the Beatty, Nevada burial site, was found to have a small puncture near the rim where the lid is attached. The cause of the puncture is believed to be a defective part on the loading rig at the Ginna site. Although no contamination was found, the State of Nevada fined the licensee \$1500.00 and suspended its permit for three months.

Maine Yankee

Maine Yankee commenced its 6th cycle of power operations on July 20, 1981, after a 63-day refueling outage. Various plant modifications were also made.

United Nuclear Corporation (UNC) - Wood River Junction, Rhode Island

On July 16, 1981, NRC staff met with Congresswoman Claudine Schneider of Rhode Island to discuss the decommissioning of the UNC facility. Mrs. Schneider's main concerns were (1) the groundwater contamination caused by a leak in the UNC lagoon liners and (2) the disposal of the solid waste and rubble accumulated during the decontamination process.

Mississippi Power and Light Company (licensee for Grand Gulf plant)

NRC issued a license to the Grand Gulf licensee for the receipt, possession, inspection and storage of uranium enriched in the U-235 isotope contained in fuel assemblies and in fission chambers.

Proposed Rule - 10 CFR Part 61

Proposed Rule - 10 CFR Part 61, "Licensing Requirements for the Land Disposal of Radioactive Waste," will be published in the Federal Register on Friday, July 24, 1981.

OFFICE OF ADMINISTRATION

Week Ending July 24, 1981

ADMINISTRATION OF THE FREEDOM OF INFORMATION ACT

STATUS OF REQUESTS

	<u>Initial Request</u>	<u>Appeal of Initial Decision</u>
Received	328	11
Granted	234	2
Denied	42	7
Pending	52	2

ACTIONS THIS WEEK

Received

K. E. Fischer,
University of
California
(81-271)

Requests three categories of information related to nuclear waste management on Palmyra Atoll, Midway, Wake or any other Pacific Island.

(NRC employee)
(81-272)

Requests the names of individuals and their Candidate Evaluation Certification and Selection Records for Vacancy Announcement 81-2112.

Terry Horne,
Birmingham Post-Herald
(81-273)

Requests all documents pertaining to the establishment or future development of a nuclear waste storage or disposal facility in the State of Alabama and the names of all such facilities in the US now under development or consideration as well as the names and addresses of companies involved.

(NRC employee)
(81-274)

Requests information on him from Personnel, Office of Inspector and Auditor and any charges made against him.

Steve C. Briggs,
Hutchinson, Black, Hill,
Buchanan & Cook
(81-275)

Requests a copy of NUREG-0706, Volume III.

Philip C. Henry,
Phillips, Hart & Mozley
(81-276)

Requests information on Thorotrast.

CONTACT: J. M. Felton
492-7211

Received, Cont'd

R. B. Borsum,
Babcock & Wilcox
(81-277)

Requests a copy of SECY-81-25, "Consideration of Probabilistic Risk Assessment (PRA) for SONGS 2 and 3."

Mae Lynda Billingslea,
National Alliance of
Post and Federal Employees
(81-278)

Requests the number of employees in the NRC; the name of the organization having exclusive recognition and the date the contract expires; a copy of the NRC's Affirmative Action Program and the name of individual(s) for future contracts, including address and telephone number.

Steven J. London,
Lester Schwab Katz
& Dwyer
(81-279)

Requests, on behalf of his client, four categories of information regarding reports of exposure to radiation for the quarter ending 9/30/76 at the Indian Point II Station.

K. E. Fischer,
University of
California
(81-280)

Requests four categories of documents relating to "Working Group 6 of the International Fuel Cycle Evaluation" that deals with the general problem of spent fuel.

James S. Oppenheim,
Business Publishers, Inc.
(81-281)

Requests a list of the names of individuals, corporations and state agencies involved with nuclear waste processing and fusion power research and demonstration.

(An individual requesting
information about himself)
(81-282)

Requests information on his Reactor Operator License written and oral examinations.

Jo Ann Shotwell,
The Commonwealth of
Massachusetts
(81-283)

Requests eight categories of documents regarding emergency planning for Pilgrim I and II.

Joanne Dann,
McGraw-Hill Publications
Company, Inside NRC
(81-284)

Requests a copy of SECY-81-312, SECY-81-231, correspondence relating to these SECY papers and a list of investigations conducted by the Office of Inspector and Auditor since January, 1981.

Marsha Walls,
Technical Insights, Inc.
(81-285)

Requests a mailing or distribution list pertaining to recombinant DNA research maintained by or for the NRC.

(An individual requesting
information about himself)
(81-286)

Requests information on his Reactor Operator License written and oral examinations.

Granted

(NRC employee) (81-242)	In response to a request for a copy of a named individual's letter of resignation, made available a copy of this document.
Patricia Hinsberg, McGraw-Hill Publications Company (81-251)	In response to a request for a copy of SECY-81-253, "Financial Protection for TMI Units 1 and 2," made available a copy of this document and a memo regarding this SECY paper.
Van M. Lowry, The Dow Chemical Company (81-253)	In response to a request for copies of records pertaining to NRC policy and procedures for handling and safeguarding confidential business information, made available pertinent information.
Raymond W. Schowers, Sutin, Thayer and Browne (81-258)	In response to a request for all reports from Stan A. Huber Consultants, Inc. to Nuclear Pharmacy from February 14, 1978 through February 29, 1980, made available 19 documents.
(An individual requesting information) (81-259)	In response to a request for specific information pertaining to candidates selected for Vacancy Announcement R81-3119, made available the requested information.
Brian C. James, The Bendix Corporation (81-260)	In response to a request for documents regarding existing and pending applications of a gas and aerosol detection device containing Americium-241 having a source strength equal to or greater than 200 microcuries, made available nine documents.
Robert Alexander, Mockingbird Alliance (81-262)	In response to a request for 11 listed documents, made available a copy of these documents.
(An individual requesting information about herself) (81-266)	In response to a request for information on herself in the NRC, informed the requester the NRC has no records pertaining to her.
Steve C. Briggs, Hutchinson, Black, Hill, Buchanan & Cook (81-275)	Made available a copy of NUREG-0706, Volume III.

Denied

Ellyn R. Weiss,
Union of Concerned
Scientists
(81-245)

In response to a request for all documents relating to Southern Boiler and Tank Works, Inc., made available 11 documents. Informed the requester five additional documents subject to this request are already available at the PDR. Denied portions of one document containing confidential business (proprietary) information. Denied portions of another document containing advice, opinions and recommendations of the staff. Denied four documents in their entirety containing advice, opinions and recommendations of the staff.

DIVISION OF CONTRACTS

Week Ending July 25, 1981

CONTRACTS CLOSED OUT
(All administrative action completed and final payment made)

<u>Contract No.</u>	<u>Contractor</u>	<u>Close-out Date</u>
NRC-03-76-309	Nunn. Snyder & Assoc.	7/21/81
NRC-05-77-146	Portland Cement Assoc.	7/20/81
NRC-19-81-491	Teknekron Research	7/20/81
NRC-10-78-583	Montgomery County Public Schools	7/21/81
NRC-10-81-360	Mr. D. Matthews	7/21/81
NRC-03-80-137	Human Design Group	7/23/81

DIVISION OF RULES AND RECORDS

OFFICE OF ADMINISTRATION

The Executive Director for Operations has issued a minor amendment to withdraw an Advance Notice of Proposed Rulemaking (ANPRM) published in the Federal Register on April 17, 1979 (44 FR 22746) as an experimental "plain English" revision of the Freedom of Information Act regulations in 10 CFR Part 9. This action was taken in light of staff initiation of a periodic and systematic review of all NRC regulations as required by the Commission as part of the TMI Action Plan. Comments received on the ANPRM are being considered in formulation of proposed revised FOIA regulations during the review of all of Part 9.

DIVISION OF SECURITY

Week Ending July 24, 1980

Personnel Security Program Review

The Division of Security has initiated a comprehensive review of the NRC Personnel Security Program with the objective of designing a more efficient and cost-effective program. This review is to be completed by January 1, 1982.

Security Support for ASLBP

The Division of Security provided security support in connection with the Susquehanna Prehearing held in Wilkes-Barre, PA. This support involved arranging for Federal Protective Officer coverage of the hearing.

OFFICE OF NUCLEAR REACTOR REGULATION

WEEK ENDING JULY 25, 1981

SEQUOYAH 2

TVA now estimates criticality on August 23, 1981 and all Physics tests completed by September 2, 1981. Power escalation tests (above 5% Power level) could begin on September 3, 1981.

The revised schedule was provided by TVA on July 17, 1981. The schedule is based on resolving all deficiencies on our IE list and the removal of the jammed RV stud. One of the 54 threaded studs (6 3/4" diameter) jammed approximately 5" into the RV flange. Attempts to remove the stud have failed; therefore, an outside contractor will work on the removal and possible repair of the threaded hole in the flange.

R. E. Ginna

Rochester Gas and Electric Corporation (RG&E) recently shipped 43.55-gallon drums of low specific activity waste from Ginna to the Beatty, Nevada burial site. During off-loading and receipt inspection one drum was found to have a small puncture near the rim where the lid is attached. Offloading was halted, RG&E was called, and RG&E dispatched a health physicist to Nevada. His examination showed no contamination either inside or outside the drum, which contained material solidified by a mixture of concrete and vermiculite. No other problems were noted during the offload. In spite of this, the State of Nevada has fined RG&E \$1500.00 and has suspended their permit for 3 months. RG&E has determined that the cause of the puncture was a defective part on the loading rig at the Ginna site. It will be replaced.

MAINE YANKEE ATOMIC POWER STATION

Maine Yankee commenced its 6th cycle of power operations on July 20, 1981 after a 63 day refueling outage.

Actions included during the cycle 6 refueling outage were; 1) Fuel loading for a 13 month power cycle, 2) replacement of one low pressure (LP) turbine rotor. Blades were removed from a second LP turbine disk and replaced by a shroud to maintain correct pressure drop, 3) addition of a steam driven main feedwater pump and 4) revision of reactor vessel fluence figures in the technical specifications.

Other plant modifications based on NRC requirements were the addition of a check valve in each safety injection line and Technical Specifications for surveillance of the check valves. The modifications are in compliance with NRC Confirmatory Order dated April 20, 1981.

ENCLOSURE B

MEETING NOTIFICATION

There will be an NRR meeting with the Babcock & Wilcox, Combustion Engineer, and Westinghouse NSSS Owners Groups to discuss the Thermal Shock to Reactor Pressure Vessels. Schedules are as follows:

Time & Date:	<u>B&W Group</u> July 28, 1981 1:00-4:15 p.m.	<u>Westinghouse Group</u> July 29, 1981 1:00-4:15 p.m.	<u>CE Group</u> July 30, 1981 1:00-4:15 p.m.
Location:	P-422 Phillips Building Bethesda, MD	P-110 Phillips Building Bethesda, MD	P-118 Phillips Building Bethesda, MD

TMI PROGRAM OFFICE

Met-Ed has announced that the current Director - TMI-2, Gale Hovey has announced his intent to resign. A replacement is being sought, and Met-Ed expects that Hovey will remain until his replacement is available and an orderly transition is accomplished.

NRC TMI PROGRAM OFFICE WEEKLY STATUS REPORT

Week of July 19 - 25, 1981

Plant Status

Core Cooling Mode: Heat transfer from the reactor coolant system (RCS) loops to Reactor Building ambient.

Available Core Cooling Modes: Decay heat removal systems. Long term cooling "B" (once through steam generator-B)

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

Backup Pressure Control Modes: Mini Decay Heat Removal (MDHR) System.
Decay Heat Removal (DHR) System.

Major Parameters (as of 0500, July 23, 1981) (approximate values)

Average Incore Thermocouples: 120°F
Maximum Incore Thermocouple: 143°F

RCS Loop Temperatures:

	A	B
Hot Leg	120°F	122°F
Cold Leg (1)	73°F	75°F
(2)	74°F	75°F

RCS Pressure: 92 psig

Reactor Building: Temperature: 76°F
Water level: Elevation 290.9 ft. (8.4 ft. from floor)
via penetration 401 manometer
Pressure: -0.15 psig
Concentration: 4.6×10^{-6} (LLD) uCi/ml Kr-85
(Sample taken 7/23/81)

Effluent and Environmental (Radiological) Information

1. Liquid effluents from the TMI site released to the Susquehanna River after processing, were made within the regulatory limits and in accordance with NRC requirements and City of Lancaster Agreement dated February 27, 1980.

During the period July 17, 1981, through July 23, 1981, the effluents contained no detectable radioactivity at the discharge point although individual effluent sources which originated within Unit 2 contained minute amounts of radioactivity. Calculations indicate that less than 1 millionth (0.000001) of a curie of Cs-137 was discharged. This represents less than 0.00001% of the permissible total liquid activity as specified in Technical Specifications for operational commercial reactors. Calculations also indicate that less than 1 tenth (0.1) of a Ci of Tritium (H-3) was discharged.

2. Environmental Protection Agency (EPA) Environmental Data. Results from EPA monitoring of the environment around the TMI site were as follows:

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

<u>Location</u>	<u>June 26 - July 3, 1981</u> (pCi/m ³)
Goldsboro	26
Observation Center	27
Middletown	28
Yorkhaven	28

All of the above levels of Kr-85 are considered to be background levels.

-- No radiation above normally occurring background levels was detected in any of the samples collected from the EPA's air and gamma rate networks during the period from July 16, 1981, through July 23, 1981.

3. NRC Environmental Data. Results from NRC monitoring of the environment around the TMI site were as follows:

-- 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)
HP-277	July 15, 1981 - July 22, 1981	<8.6 E-14	<8.5 E-14

4. Licensee Radioactive Material and Radwaste Shipments.

-- On Monday, July 20, 1981, a 40 ml Unit 2 reactor coolant sample was sent to Babcock and Wilcox (B&W), Lynchburg, Virginia.

-- On Friday, July 24, 1981, two Hittman steel liners containing Unit 1 solidified evaporator bottoms were shipped to U.S. Ecology, Richland, Washington.

Major Activities

1. Submerged Demineralizer System (SDS). Processing of the first batch (approximately 50,000 gallons) of intermediate radioactivity level water from the Auxiliary Building Reactor Coolant Bleed Tank (RCBT) was completed on July 19, 1981. Preliminary results indicate that the first batch resulted in a loading of approximately 320 curies of Cs-137 and 160 curies of Sr-90 on the first ion exchange vessel.

This represents greater than 99% removal of these radioactive materials from the process stream. Processing of the second batch (approximately 50,000 gallons) of RCBT water commenced on July 23, 1981. After the RCBT water is processed, the SDS will be used to process high level Reactor Building sump water.

2. Reactor Building Entry. Four teams, a total of nine people, entered the Unit 2 Reactor Building during entry number fourteen (designation change) on July 23, 1981. Team four included the first woman into the Reactor Building since beginning the Reactor Building entries last year.

The following tasks were successfully completed.

- Maintenance of the closed circuit TV system
- Removal of the Core Flood Tank "B" Transducers
- Photographs of air cooler equipment and components of the reactor fluid make-up system
- Radiation survey of the shallow end of the refueling pool
- Miscellaneous sample collection
- Installation of two radiation area monitors

3. EPICOR-II Second and Third Stage Liners. On June 30, 1981, the last two (of twenty-two) second and third stage EPICOR-II liners reached the burial site in Hanford, Washington, as reported in the Weekly Status Report for the week of June 28 through July 5, 1981. These liners were generated during the processing of contaminated water through the EPICOR-II system. The EPICOR-II system was used to process Auxiliary Building water (approximately 500,000 gallons) from the March 28, 1979 accident.

Regional inspectors from the U.S. Nuclear Regulatory Commission's Region V office in Walnut Creek, California, have visited the Hanford burial site for inspection purposes. The inspectors have concluded, based on physical verification of the burial of the 22 liners, and proper documentation, that all applicable burial site criteria were satisfied for the TMI wastes.

OFFICE OF NUCLEAR MATERIAL SAFETY AND SAFEGUARDS

Items of Interest

Week Ending July 24, 1981

United Nuclear Corporation (UNC) - Wood River Junction, Rhode Island

On July 16, 1981, E. Fay, CA and W. T. Crow, NMSS met with Congresswoman Claudine Schnieder of Rhode Island to discuss the decommissioning of the United Nuclear Corporation (UNC) facility at Wood River Junction, Rhode Island. Mrs. Schnieder's main concerns were (1) the ground water contamination caused by a leak in the UNC lagoon liners, (2) the disposal of the solid waste and rubble accumulated during the decontamination process. Regarding the ground water contamination, Mrs. Schnieder was told that the NRC is evaluating the aquifer contamination to see if we can predict how long it will take for it to purge itself naturally to background concentrations and secondly, what, if anything, can be done to enhance the purging of the aquifer. This study should be complete by the end of the year. With regard to the solid wastes stored on site, Mrs. Schnieder was informed that UNC had petitioned DOE to assume responsibility for disposal under P.L. 96-573 and UNC was postponing shipping to a licensed burial ground until they heard from DOE.

Kerr-McGee West Chicago Site

A meeting was held with representatives of Kerr-McGee to discuss whether an EIA or EIS should be used to support licensing action on Kerr-McGee's proposed stabilization plan for their West Chicago site. It was concluded that an EIS would be issued. A preliminary draft EIS has been prepared by Argonne National Laboratory and internal comments on the draft are being prepared by NMSS.

Mississippi Power and Light Company

Materials License No. SNM-1882 for the Mississippi Power & Light Company was issued on July 15, 1981. The license authorizes the receipt, possession, inspection and storage of uranium enriched in the ^{235}U isotope contained in fuel assemblies and in fission chambers. It also authorizes the receipt, possession and use of Sb-Be neutron sources. The license is for Unit 1 of the Grand Gulf Nuclear Station located in Claiborne County, Mississippi.

License Renewal Applications

The Material Licensing Branch has conceived and developed an idea to prepare license renewal applications for certain medical licensees much the same way that IRS prepares tax returns for certain classes of wage earners. Preprinted forms and sample procedures from the medical licensing guide are used, thus conserving NRC resources.

License Renewal Applications (cont'd)

Licensees benefit by saving staff time or fees to consultants for preparing applications. NRC benefits by eliminating the tedious review of page after page of printed matter that most licensees submit. All present assurances of health and safety are retained while providing regulatory relief and reducing NRC review time. If successful, this method may be expanded to include certain classes of industrial licensees, and the preprinted applications may eventually be prepared by a computer.

As part of the initial trial program, the first batch of preprinted applications was mailed on July 15. Recipients were informed that participation is voluntary. Progress will be reported periodically.

INMM.14 Subcommittee on International Standards

On July 12, Safeguards representatives attended the INMM.14 Subcommittee meeting. Participants from IAEA, GE, AGNS, PNL, BNL, and ISPO reviewed the international standard being prepared on Physical Inventory Taking and Verification, which was prepared by the subcommittee's three working groups. This initial draft will be revised for review and integration at the next meeting, tentatively scheduled for November 1981 at the NRC.

Proposed Rule - 10 CFR Part 61

Proposed Rule - 10 CFR Part 61 "Licensing Requirements for the Land Disposal of Radioactive Waste" will be published in the Federal Register on Friday, July 24, 1981.

Meetings - Division of Fuel Cycle and Material Safety

1. Subject: Meeting with Combustion Engineering to discuss NRC comments on SNM License 1067 (Docket /0-1100) renewal application.
Date/Time: July 22 and 23, 1981 (all day meetings)
Place: 5th Floor Conference Room, SS
Attendees: N. Ketzlach, A. L. Soong, B. Kosla (FC), J. Roth (IE)
F. J. Pianki, G. A. Johnstone, G. J. Bakvich, (CE)
2. Subject: NUPAC, 60B Package
Date/Time: 8:30-11:30, July 23, 1981
Place: 5th Floor Conference Room, SS
Attendees: Odegaarden and J. Fan (FC); D. Helsing (NUPAC)
3. Subject: Meeting with staff of EPA regarding Memorandum of Understanding.
Date/Time: July 28, 1981, 9:00 a.m.
Place: 5th Floor Conference Room, SS
Attendees: R. E. Cunningham, R. G. Page, D. Mausshardt (NMSS)
G. Cunningham, R. Fonner and F. Chanania (ELD)
J. Axelrad, et al (EPA)
4. Subject: Meeting with Deputy Director General Semenov of the IAEA to discuss IAEA and U.S. nuclear safety programs and issues.
Date/Time: 2:30 p.m., July 28, 1981
Place: Room 560, SS
Attendees: R. E. Cunningham, FC and DDG Semenov, IAEA
5. Subject: Meeting with General Electric Company of the United Kingdom to discuss Topical Report for Independent Spent Fuel Storage Installation
Date/Time: July 29, 1981, 9:00 a.m.
Place: Room 450, SS
Attendees: L. C. Rouse and J. Roberts (FC), D. Reisenweaver (RES), and David Wheeler (GE)
6. Subject: Meeting at Argonne National Laboratory to discuss staff comments on the preliminary draft EIS for the Kerr-McGee West Chicago Site.
Date/Place: 9:00 a.m., Chicago, Illinois, July 29 and 30, 1981
Attendees: W. A. Nixon and E. Y. Shum (FC) and staff from Argonne National Laboratory.
7. Subject: Meeting to discuss proposed technical specifications for the GE-Morris Operation.
Date/Time: 9:00 a.m., July 30, 1981
Place: 8th Floor Conference Room, SS
Attendees: T. Clark (FC) and C. C. Herrington, et al, GE

Planned Meetings - Division of Safeguards

Subject: Meeting with NFS-Erwin and representatives of LLL to assist
vulnerability assessment.

Date: August 3-6, 1981

Location: Erwin, Tennessee

Attendees: S. Frattali
B. Mendelsohn, SG
D. Joy, SG

OFFICE OF INSPECTION AND ENFORCEMENT

Items of Interest

Week Ending July 24, 1981

1. The following Preliminary Notifications were dispatched during the week:
 - a. PNO-I-81-81 Technical Operations, Burlington, Mass. - Radiography Source Reported Lost in Transit
 - b. PNO-I-81-82 National Bureau of Standards Reactor (DN 50-184) - Valve Malfunction Resulting in Draining Moderator
 - c. PNO-II-81-55 Turkey Point 4 - Pressurizer Spray Valve Leakage Into Containment
 - d. PNO-II-81-56 Surry Unit No. 2 - Spurious Safety Injection and Reactor Trip
 - e. PNO-II-81-57 Brunswick Unit 2 - Plant Shutdown Due to Main Steam Isolation Valve Failure
 - f. PNO-III-81-64 LaSalle County Station - Structural Damage to Reactor Building Roof
 - g. PNO-IV-80-34B South Texas Project, Units 1 & 2 - Update-Expansion of Previously Authorized Complex Concrete Placement
 - h. PNO-V-81-39A San Onofre Nuclear Generating Station, Unit No. 1 - Gaseous Waste Decay Tank Failure from Apparent Hydrogen Ignition
 - i. PNO-V-81-42 San Onofre Nuclear Generating Station, Unit No. 1 - Gaseous Waste Decay Tank Failure from Apparent Hydrogen Ignition
 - j. PNS-V-81-07 Diablo Canyon, Unit 1 - Pre-Operational Physical Security Inspection Testing
 - k. Notice of Non-Routine Event Involving Agreement State or Agreement Materials - 81-06 Analytic Inspection, Inc., Lafayette, Louisiana - Offshore Radiography Incident
2. The following IE Circulars were issued:
 - a. IE Circular 81-11, "Inadequate Decay Heat Removal During Reactor Shutdown", was issued on July 24, 1981, to all holders of BWR operating licenses or construction permits.
 - b. IE Circular 81-12, "Inadequate Periodic Test Procedure of PWR Protection System", was issued on July 22, 1981, to all nuclear power reactor facilities holding an operating license or a construction permit.

3. The following IE Information Notice was issued:

- a. IE Information Notice 81-21, "Potential Loss of Direct Access to Ultimate Heat Sink", was issued on July 21, 1981, to all nuclear power reactor facilities holding an operating license or construction permit.

OFFICE OF NUCLEAR REGULATORY RESEARCH

IMPORTANT EVENTS FOR THE WEEK ENDING JULY 24, 1981

A. Experimental Programs Branch

1. LOFT

The containment vessel leak test conducted the first week in July has been reviewed by the DOE/ID safety staff and accepted. This fulfills the periodic testing requirement for demonstration of containment integrity.

Preparations are going smoothly for the July 30, 1981 scheduled L6-7/L9-2 simulation of the ANO-2 turbine trip and St. Lucie cooldown transients. The tests will be witnessed by Mr. Heinz Seipel, Director of Safety and Environmental Research of the West German Ministry for Science and Technology. During the week of the test, Mr. Seipel will be in Silver Spring, Maryland, to meet with Mr. Minogue for discussions about the LOFT program.

Hitachi has accepted the invitation of the Integral Systems Section to present results of their BwK integral systems facility tests at the Water Reactor Safety Information Meeting in October. A similar invitation was extended to the Korean Advanced Energy Research Institute to participate in the meeting. They will be making presentations on heat transfer and flow stability criteria.

2. PWR BDHT

The final ORNL THTF data tapes have been sent to the data bank at INEL. The following types of test data are available: (a) bundle uncover/recovery (small break LOCA), (b) large break LOCA simulation, (c) transient film boiling, and (d) quasi steady state film boiling. All of the ORNL THTF tests have been mounted at INEL except for the Series II Bundle Uncover/Recovery Tests. These should be available to Data Bank Users by the end of this month.

3. FLECHT SEASET

Westinghouse successfully completed the last 21 rod blocked bundle test series. This bundle uses the exact blockage shape and configurations to be used in the 17 x 17 blocked bundle. The test data is being qualified and significant findings will be reported at the Ninth Water Reactor Information Meeting in October.

4. Semiscale

The test NC-2 (Natural Convection) results show an increasing mass circulation rate with decreasing inventory which reaches a maximum, and then decreases to approximately zero. Reflux behavior initiated between 60 and 70 percent of original inventory (excluding the pressurizer). Visual observations clearly show the reflux behavior, with about half of the water flowing out the cold leg side of the steam generator and half returning via the hot leg.

Tests NC-3 and -4, to obtain the effect of additional parameter variations, will be combined and are expected this week.

5. BWR Refill/Reflood Program

Separate effects tests in the 30° Sector Steam Test Facility (SSTF) have been completed and the first two systems effects tests were successfully conducted. These latter tests are simulation of the late blowdown and refill phase of a BWR LOCA. Testing will continue through August when the facility will be reconfigured from a BWR/6 to a BWR/4 configuration.

6. BWR FIST

Design and scaling analyses continued. Major efforts include vessel design and evaluation of existing components for use in the upgraded facility. A significant question involves the jet pumps. Current plans call for modifying the old TLTA jet pumps to correct the height scaling. It is uncertain how the modifications will influence the jet pump performance. GE is investigating possible performance testing of the modified pumps.

B. Fuel Behavior Branch

1. WPU

The test assembly for the clad ballooning test, MT-2, has been inserted in the NRU Reactor and in-pile check out of instrumentation has been initiated. Fuel preconditioning is scheduled for July 22 and 23 and actual clad ballooning on July 23-24. New fuel transfer procedures should permit visual examination of the test assembly during the time of July 25-30. Test MT-2 is the second of a series of clad ballooning and rupture tests on an assembly of full-length, commercial enrichment fuel rods. The target rupture temperature is 1400°F-1500°F, a range where appreciable clad ballooning is expected at the relatively low anticipated clad heatup rate at rupture.

Publications to be Issued in the Near Future

Title: Standard Format and Content for the Safety Analysis Report for
An Independent Spent Fuel Storage Installation (Dry Storage)

Expected Issuance Date: September 1981

Description: Provides guidance on the content and format for the SAR for
a Dry ISFSI. It is the compliment of Reg. Guide 3.44.

Contact: D. Reisenweaver
443-5910

Publication Issued During the Week of July 20-24, 1981

Reg. Guide 3.47 - Nuclear Criticality Control and Safety of Homogeneous
Plutonium-Uranium Fuel Mixtures Outside Reactors

ITEMS OF INTEREST
OFFICE OF INTERNATIONAL PROGRAMS
WEEK ENDING JULY 24, 1981

Chinese Response to Arrangement Proposal

By cable dated July 22, IP was advised by the U.S. Embassy in Beijing that the State Scientific and Technical Commission of the People's Republic of China had responded to the cooperative arrangement proposal forwarded by NRC via diplomatic channels in December 1980 which J. D. Lafleur followed up with detailed discussions during a June 1981 visit to Peking. As was indicated at the conclusion of these discussions, the Chinese have accepted most of the original proposal, with only a few relatively unimportant items remaining to be resolved. The primary divergence is their proposal to add a new item allowing for the assignment of Chinese specialists to "participate in research work on reactor safety in US institutions and universities and to prepare programs for accident analysis." They also wish to receive safety research reports on a routine basis.

IP will have to explore the feasibility of these suggestions with RES, ELD, and the Executive Branch before developing a response.

NEA Study: Safety of the Fuel Cycle

The OECD Nuclear Energy Agency has published the "State-of-the-Art Report on Nuclear Fuel Cycle Safety" (CSIN/SOAR No. 3), which had been under preparation for the last 2 1/2 years by a Working Group of the Committee on the Safety of Nuclear Installations. The report examines the safety of each individual stage of the fuel cycle, from uranium mining and milling to decommissioning. Particular emphasis is placed on accident analysis and on areas where further work would be desirable. Certain aspects, such as radiation protection of workers, the release of radioactive effluents in normal operations, and the disposal of radioactive waste are not included in the review.

IP's copy of the report has been sent to the NRC Library where it may be requested from the Circulation Loan Desk, X28548.

Foreign Visits to NRC

On Monday Dr. Lee of the Korean Advanced Energy Research Institute (KAERI) met with J. Lee and D. Powers, NRR, to discuss fuel rod bowing in Ko-Ri I.

On Tuesday Messrs. B. Favez, J. Mira, G. Simmonet and J. Stolz of Electricite de France (EdF) met with P. Collins and J. Cramer (NRR) and R. Di Salvo and J. Jenkins (RES), to discuss the training and licensing of operators and problems of human factors and related research.

On Wednesday G. Linsley of the U.K. National Radiological Protection Board met with E. Branagan and B. Richter (NRR), J. Martin and H. Peterson (RES) to discuss various environmental radiation questions.

On Thursday Professors Gharibba, Vacca and Ienco of the Italian Institute for Economy of Energy Sources met with H. R. Denton, NRR Director, to discuss the action now being taken to speed up the U.S. licensing process.

OFFICE OF STATE PROGRAMS

ITEMS OF INTEREST

WEEK ENDING JULY 24, 1981

On July 21, 22 and 23, Bob Trojanowski, State Liaison Officer, Region II, participated in a Regional Assistance committee meeting in Thomasville, Ga. The purpose of this meeting was to review the State of Florida Radiological Emergency Response plan to incorporate the plans for the local counties affected by operations at Turkey Point, St. Lucie and Crystal River nuclear power plants.

On July 23 Mr. Trojanowski also met with Florida's designated NRC State Liaison Officer, Mr. Hamilton S. Owen, Jr., Administrator, Power Plant Siting Section, Division of Environmental Regulation, to discuss low level waste disposal and other matters of mutual interest.

The California Health Department radiation control program will be reviewed during the period July 27 - August 8, 1981. NMSS' Materials Certification and Procedures Branch will assist.

SP and NMSS representatives met with Maryland Radiation Control Program personnel to provide technical assistance to the State on the environmental surveillance aspects of Neutron Products, Inc. The meeting included a visit to the NPI facility on July 21. A representative of Oak Ridge Associated Universities, an NMSS contractor, was also present.

OFFICE OF MANAGEMENT AND PROGRAM ANALYSIS

Items of Interest

WEEK ENDING JULY 24, 1981

Publications

- (1) Operating Unit Status Report (Gray Book), NUREG-0020, dated June 1981;
- (2) SEP Status Summary Report, NUREG-0485, dated May 1981; and
- (3) Standards Development (Green Book), NUREG-0566, dated June 1981, were distributed.

OFFICE FOR ANALYSIS AND EVALUATION OF OPERATIONAL DATA

ITEMS OF INTEREST

WEEK ENDING JULY 24, 1981

Meeting with INPO and NSAC

On July 21, 1981, AEOD (Carl Michelson and Jack Heltemes) met with INPO (Dennis Wilkinson and others) and NSAC (Ed Zebroski) as an initial step in the implementation of the INPO/NSAC/NRC Memorandum of Agreement. INPO described their process for receiving, reviewing, and disseminating information on operational events. INPO provided AEOD with copies of the 4 INPO/NSAC evaluation reports, 18 Significant Operating Event Reports (SOERs), and 101 of the 114 Significant Event Reports (SERs) issued to date. The remaining SERs are to be forwarded in the near-future. INPO also discussed their LER trend analysis program using 17 "Special Interest Codes," and provided details on their 3 data files, i.e., reference documents, INPO internal records control, and technical information on individual plants.

The recent decisions regarding the shift of NSAC away from direct involvement in operational experience analysis, and the assumption by INPO of the management and funding responsibilities for NPRDS were also discussed. Because of these shifts in activities (effective January 1, 1982), it was indicated that: (a) the event evaluation program (SEE-IN) would be revised to cover only INPO activities; (b) prior to January 1, 1982, a new Memorandum of Agreement should be developed to account for the new organizational responsibilities; (c) the funding for NPRDS will be borne by industry in CY 1982 and NRC funds will not be needed; and (d) AEOD reports should be sent to NSAC only for information.

The next coordination meeting has been tentatively established for mid-September in Washington.

ITEMS APPROVED BY THE COMMISSION - WEEK ENDING JULY 24, 1981

A. SECY-81-359 - TECHNICAL ASSISTANCE IN SUPPORT OF NRC REACTOR LICENSING. Memo SECY to Dircks, dtd 7/20/81.

This is to advise you that the Commission (with three Commissioners approving) has granted approval for the staff to enter into the subject contract subject to the following conditions:

1. Provide a report showing the specific tasks to be accomplished with definitions of the deliverables, the criteria under which acceptability of the deliverables will be judged, and the schedules for delivery. This report should be submitted by October 1, 1981. Subsequent reports should be provided each 6 months thereafter, providing the accomplishments in that interval. (NRR)
2. The NRR Technical Assistance Task Force effort should be vigorously pursued.
3. Careful attention should be given to the OIA report on this contract and NRR priorities.
4. Periodic reports (no more frequent than once per quarter) should be submitted on the contribution of this and other NRR contracts to the Licensing Schedules of new plants and the backlog of licensing actions on operating plants. The first report should be submitted by September 1, 1981. (MPA)

Commissioner Ahearne disapproved the subject contract. Attached are his dissenting comments. Although granting approval, the other Commissioners agree with these comments.

The Offices of Nuclear Reactor Regulation and Administration (Contracts) were informed of this action by telephone on July 17, 1981.

It is requested that you inform the Office of the Secretary when the contract is awarded.

Attachment: As Stated (Not included)

B. SECY-81-390 - LICENSED FUEL FACILITY STATUS REPORT - VOLUME 1, NO. 6, JANUARY 1981 ISSUE. Memo SECY to Dircks, dtd 7/21/81.

This is to advise you that the Commission (with all Commissioners approving) has approved the proposed report and authorized its release to the public.

C. SECY-81-397 - EXECUTIVE BRANCH RESPONSE ON PROPOSED EXPORT OF TRITIUM GAS TO ISRAEL, XBO01130. Memo SECY to Dircks, dtd 7/24/81.

This is to advise you that the Commission (with all Commissioners approving) has authorized the denial of the license to Milcor Corporation to export 30,000 curies of bulk tritium gas to Israel.

The Office of International Programs was informed of this action by telephone on July 24, 1981.

In connection with his approval, Commissioner Gilinsky posed the question: "How many grams does this amount to?" The staff has already informed him that it comprises approximately three grams.

It is requested that you forward to the Office of the Secretary a copy of the letter to Milcor Corporation after signature and dispatch by the Director, International Programs.

D. SECY-81-400 - PROPOSED LICENSE TO EXPORT SOURCE MATERIAL TO ALL DESTINATIONS EXCEPT CUBA, KAMPUCHEA, NORTH KOREA, AND VIETNAM (XMO8522). Memo SECY to Dircks, dtd 7/24/81.

This is to advise you that the Commissioners have reviewed the subject license to Gerard Kluyskens Company, Inc. The Commission (with four Commissioners approving) has accepted your recommendation to export unlimited quantities of source material to all destinations except Cuba, Kampuchea, North Korea and Vietnam comprising rare earth polishing compounds (primarily cerium oxide), contaminated with small amounts of natural uranium and/or thorium in concentrations ranging from 0.05 percent to 0.25 percent.

Commissioner Ahearne's approval is subject to making explicit the 500 kg/yr and 10,000 kg limit. The staff of the Office of International Programs, which was informed of this action by telephone on July 23, 1981, has indicated that this condition will appear in the license.

E. SECY-81-232 - COMMENTS ON THE EPA PROPOSED FEDERAL RADIATION PROTECTION GUIDANCE FOR OCCUPATIONAL EXPOSURES. Memo SECY to Dircks, dtd 7/24/81.

This is to advise you that the Commission (with all Commissioners in agreement) has authorized dispatch of the comments to EPA concerning the proposed EPA guidance.

The Chairman signed and dispatched the letter forwarding the comments to the Administrator, EPA, on July 24, 1981.

F. SECY-81-398 - SECTION 208 REPORT TO THE CONGRESS ON ABNORMAL OCCURRENCES FOR JANUARY-MARCH 1981. - Memo SECY to Dircks, dtd 7/24/81.

This is to advise you that the Commission (with all Commissioners approving) has approved the proposed report to the Congress, subject to the modifications to pages 4 and 5 as indicated on the attached sheet.

The Office of Analysis and Evaluation of Operational Data was informed of this action by telephone on July 23, 1981.

It is requested that you forward the report, as modified in the attachment, and the forwarding letters to the Congress to the Office of the Secretary for signature by the Chairman (Suspense: c.o.b. August 12, 1981).

Attachment: *Not included*

G. INTERIM HYDROGEN CONTROL RULE (SECY-81-245). Memo SECY to Dircks, dtd 7/24/81.

The Commission would like the revised Interim Hydrogen Control Rule by August 17, 1981. The new rule should contain more definitive instructions regarding analysis scenarios and equipment survivability, as was discussed in the last Commission meeting.