

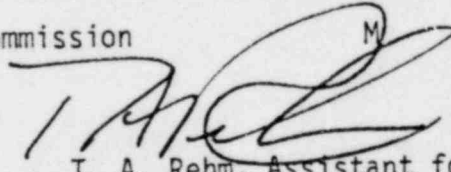


May 8, 1981

For: The Commissioners  
From: T. A. Rehm, Assistant for Operations, Office of the EDO  
Subject: WEEKLY INFORMATION REPORT - WEEK ENDING MAY 1, 1981

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.

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

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## SUMMARY OF WEEKLY INFORMATION REPORT

Week Ending May 1, 1981

### Zion Station, Unit No. 1

On April 22, 1981, Zion Unit 1 commenced operation after a 98-day refueling outage. The next refueling for Unit 1 is scheduled for April 1982. The next refueling for Unit 2 is October 1981 during which time it is planned that the two remaining steam generators will be modified with J tubes.

### McGuire

Duke Power Co. notified the staff that Unit No. 1 initial criticality has been delayed approximately a month (from May 7 to early June) due to a leak in the reactor vessel head flange caused by failure of the RV head flange inner metallic O-ring seal.

### US/IAEA Safeguards Agreement

The IAEA will complete their initial inventory verification activities at the Exxon Nuclear Fuel Fabrication facility on May 18, 19, and 20. An initial IAEA inspection will be conducted at Trojan on May 21 and 22, and at Rancho Seco on May 26 and 27.

### EPA/NRC/OSHA Hearing

The first joint hearing on occupational radiation protection was held in Washington, D.C. April 20-23. The material covered was devoted almost exclusively to EPA's proposed guidance on this subject. The testimony was generally negative, with several recommendations that the guidance should be withdrawn. The most common complaint was that too much detail is given, as opposed to broader policy considerations.

### Hydrogen Program

At a meeting on April 22, Sandia reviewed the status of the hydrogen program, proposed activities for the balance of FY81, and provided a scope of work for FY 82. The major conclusion of the meeting is that presently budgeted FY82 funds for the program are significantly below Sandia recommendations of an ideal level of effort and a minimum level of effort.

OFFICE OF ADMINISTRATION

Week Ending May 1, 1981

ADMINISTRATION OF THE FREEDOM OF INFORMATION ACT

STATUS OF REQUESTS

	<u>Initial Request</u>	<u>Appeal of Initial Decision</u>
Received	215	6
Granted	137	0
Denied	22	2
Pending	56	4

ACTIONS THIS WEEK

Received

Lindsay Audin  
(81-160)

Requests three categories of documents regarding inspection and enforcement reports performed at facilities fabricating spent fuel casks.

Sanford L. Hartman,  
Debevoise & Liberman  
(81-161)

Requests a list and copies of all documents comprising the "record" identified in Memorandum and Order, CLI-80-21.

Philip G. Sunderland,  
Terris & Sunderland  
(81-162)

Requests 11 categories of documents regarding the Senior Executive Service.

Robert Goldsmith,  
Citizens for a  
Better Environment  
(81-163)

Requests three categories of documents relating to an evaluation or estimate of the possibility that decontamination of Dresden 1 using NS-1 solvent will accomplish its goals as specified in Section 2.4 of the Final EIS.

(NRC employee)  
(81-164)

Requests the names of all secretaries, series GG-318, who have been selected and enrolled in the non-Governmental facility PARA-LEGAL STUDIES program from 1967 to date and the names of all ASLBP panel members who have been selected and enrolled in the non-Governmental facility ADMINISTRATIVE LAW PROCEDURE SESSION from 1967 to date.

Rick Pitcher,  
Occidental Life  
Insurance  
(81-165)

Requests the names, salary, or GG level and locations of NRC employees in Region V.

CONTACT: J. M. Felton  
492-7211

Received, Cont'd

James A. McLellan, Pro-Tech (81-166)	Requests the names of all licensed Reactor Operators and Senior Reactor Operators.
(NRC employee) (81-167)	Requests files on him in the Office of Inspector and Auditor, any charges made against him and his personnel file.
Gordon G. Hobson, Attorney-At-Law (81-168)	Referral from the Department of Energy for information relating to nuclear fallout and/or radioactivity in the Hanford, Washington area caused by the presence of nuclear weapons production or testing and records of all past claims made by employees of the Government or residents of Hanford, Washington concerning their exposure to radioactive materials.
Dennis E. Smith, Desmatics, Inc. (81-169)	Requests a copy of SECY-79-564, entitled "Domestic Safeguards, Technical Assistance and Research and Contracted Projects."
Kenneth I. Condra (81-170)	Requests the job classification, job rating, salary and period of employment with the NRC of a named individual.
Wendell R. Marschall, Mapleton Intervenors (81-171)	Requests the cost of a transcript of a meeting on April 27, 1981 regarding Consumers Power Company.
Irwin D. J. Bross, Roswell Park Memorial Institute (81-172)	Requests specific information on Contract NRC-10-10-03-06-3.
Steven P. Hershey, Community Legal Services (81-173)	Requests copies of all correspondence between the NRC and Philadelphia Electric Company since November 1, 1980.
Robert R. Belair, Hill, Christopher and Phillips. P.C. (81-A-6-81-84)	APPEAL TO THE COMMISSION for 17 documents pertaining to the Commission's February 20, 1981 Order in the Diablo Canyon physical security proceeding.

Granted

William Reynolds, American Friends Service Committee (81-125)	In response to a request for documents relating to the import of special nuclear material or spent fuel from the Chalk River Reactor in Ontario, Canada, made available eight documents.
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Granted, Cont'd

Lynn Connor,  
Doc-Search Associates  
(81-143)

In response to a request for four categories of information relating to wire and cables manufactured to Continental Wire and Cable Company, Anaconda Company, Okonite Company and Collyer Wire and Cable Company, informed the requester these documents are already available at the PDR.

Steven C. Sholly,  
Union of Concerned  
Scientists  
(81-149)

In response to a request for a copy of draft report prepared by the Instrumentation and Controls Division of Oak Ridge National Laboratory concerning a review of BAW-1564, a Babcock & Wilcox Company report entitled "Reliability Analysis of the Integrated Control System", made available this document.

Carol Schapira,  
Attorney-At-Law  
(81-152)

In response to a referral from the Department of Energy for copies of licenses and/or applications and renewals for Jersey Nuclear and related firms in connection with a fuel fabrication plant, handling of fissionable materials and a uranium mill located at Converse City, Wyoming, informed the requester these documents are already available at the PDR.

Denied

Allan Mazur,  
Syracuse University  
(80-615)

In response to a request for copies of the enclosures to a letter dated December 1, 1978 to Mr. Byron Lee (Commonwealth Edison Company) from J. G. Keppler (NRC) and Commonwealth Edison Company's response to NRC, denied portions of two documents containing unclassified safeguards information.

Stephen M. Rappoport,  
Slepkow, Slepkow &  
Rappoport, Inc.  
(81-133)

In response to a request for specified certified copies of documents pertaining to the nuclear incident on July 24, 1964 at the United Nuclear Corporation, made available one document. Denied portions of one document, the disclosure of which would constitute a clearly unwarranted invasion of personal privacy.

David F. Power,  
Attorney-At-Law  
(81-142)

In response to a request for specific communications between the NRC and the Defense Intelligence Agency, denied portions of one document containing classified information.

(NRC employee)  
(81-144)

In response to a request for copies of appraisals and/or evaluations of applicants in the selection of NRC Vacancy Announcement Numbers 81-0139 and 81-0140, made available 13 documents. Denied eight documents in their entirety and portions of nine documents, the disclosure of which would constitute a clearly unwarranted invasion of personal privacy.

DIVISION OF CONTRACTS

Week Ending May 2, 1981

RFP/IFB'S ISSUED

1. IFB RS-OIE-81-256  
Title - Intrinsic Germanium Detector System  
Description - The procurement involves the acquisition of a Princeton Gamma Tech Nuclear Power Reactor Cryostat Intrinsic Germanium Detector System or Equal.  
Period of Performance - Within 90 days  
Sponsor - Office of Inspection and Enforcement  
Status - IFB scheduled to be issued on May 1, 1981. Bid opening is scheduled for June 1, 1981.
  
2. RFP SR-RES-81-203  
Title - "Definition of Bounding Physical Tests Representative of Transport Accidents - Air and Ship"  
Description - Define a set(s) of radioactive material shipping package performance tests which bound the environments experienced in such accidents, based on an investigation and assessment of extremely severe air and marine transport accident events.  
Period of Performance - 18 months  
Level of Effort - 3 to 5 man years  
Sponsor - Office of Nuclear Regulatory Research  
Status - RFP issued on April 20, 1981. Proposals due May 20, 1981.

CONTRACT AWARDED

1. RFP RS-RES-81-168 (formerly RS-RES-81-235)  
Title - Seismic History of the Eastern Seaboard from New York to Norfolk, Virginia  
Description - The work to be accomplished under this contract comprises a comprehensive search of all available records in major repositories throughout the northeastern United States for the purpose of discovering new information on earthquake occurrence and effects. The region to be surveyed extends from New York to Norfolk, Virginia and includes the Appalachian Mountains within its western boundary. The historical period to be covered extends from the earliest records available up to 1930. The results of this search is to be published in a catalogue, suitable for interfiling with existing catalogues.  
Period of Performance - One Year  
Sponsor - Office of Nuclear Regulatory Research  
Status - Cost reimbursement contract awarded to the Pennsylvania State University in the amount of \$17,102.00 effective April 23, 1981.

CONTRACTS CLOSED OUT

(All administrative action completed and final payment made)

<u>Contract No.</u>	<u>Contractor</u>	<u>Closeout Date</u>
NRC-03-77-059	Science Applications, Inc.	4/22/81
NRC-03-78-190	Dr. M. Grant Gross	4/24/81
NRC-17-79-453	Bernard C. Doyle	4/27/81
NRC-03-78-182	MacKay School of Mines	4/24/81
NRC-03-79-136	Mark Messings	4/28/81
NRC-04-79-185	CGS, Inc.	4/23/81
NRC-04-78-256	EDITECH, Corp.	4/27/81
NRC-10-79-380	L. J. Hampton Associates	4/27/81
AT-(49-24)-0015	Nuclear Assurance Corp.	4/23/81
NRC-11-79-403	Dr. Theodore Wu	4/28/81
AT (49-24)-0278	Mr. E. E. Halmos	4/28/81
NRC-11-78-429	Battelle Columbus Lab.	4/28/81

FINANCIAL ASSISTANCE

1. NRC-04-81-011  
Title - Conference on Small Break Loss-of-Coolant-Accident Analysis  
in Light Water Reactors  
Description - To provide a forum for the exchange of information on  
Small Break LOCA's, an area of safety research which  
has been of increased interest to the NRC after the  
accident on TMI  
Period of Performance - 5 months  
Sponsor - Office of Nuclear Regulatory Research  
Status - Grant awarded to the American Nuclear Society, Northern  
California Section in the amount of \$3,000.00 effective  
April 7, 1981.

ADMINISTRATIVE MATTER

Sole source letter contract (NRC-05-81-254) was issued to Southwestern Bell Telephone Company on March 12, 1981. The contract provides for the installation of a private branch exchange (PBX) in NRC's Region IV offices. Rolm Corporation ((Rolm) and Fisk Telephone Systems, Inc. (Fisk) have both issued written protests to the U.S. General Accounting Office (GAO) challenging the sole-source status of Southwestern Bell. NRC issued a documented report responsive to the protests to GAO on March 19, 1981. Fisk submitted comments on the NRC report to GAO on April 10, 1981 with copies to the NRC. A GAO conference was held on April 24, 1981, at which time both NRC and Fisk representatives were afforded the opportunity to discuss the subject matter. NRC and Fisk were given five (5) working days to submit any additional written comments on the subject matter prior to GAO issuing a final decision. NRC does plan to submit additional comments.



DIVISION OF SECURITY

Week Ending May 1, 1981

Security Surveys

A representative of the Facilities and Systems Security Branch conducted surveys of the following security interests: Region V, Scitran, Inc., and Dr. Harold Lewis, Consultant, who are approved to use, process and otherwise handle NRC classified matter.

Air Rights III Building

Advised NRC employees of Air Rights III that the Rusco Card key system is operational and is being used to control access to NRC space. Procedures for obtaining a card key were given to those individuals in need of acquiring one.

\*Foreign Travel Defensive Security Briefing

SEC has prepared a written defensive security briefing which can be given to NRC employees traveling to Communist-controlled countries. Copies of this unclassified briefing can be obtained from the Information Security Branch.

\*Delete from PDR copy.

OFFICE OF NUCLEAR REACTOR REGULATION

WEEKLY HIGHLIGHTS - MAY 01, 1981

ZION STATION, UNIT NO. 1

On April 22, 1981 the Zion Unit No. 1 commenced operation after a 98 day refueling outage. The next refueling for Unit 1 is scheduled for April 1982. The next refueling for Unit 2 is October 1981 during which time it is planned that the two remaining steam generators will be modified with J tubes.

Actions taken during this refueling outage were: (1) fuel loading for a 12 month power cycle, (2) turbine maintenance for a failed bearing, (3) replacement of a leaking SS clad BIT with an all SS BIT, (4) containment leak rate testing (Appendix J); (5) installation of J tubes in the two remaining steam generators in Unit 1, (6) reactor coolant pump seal maintenance, (7) scheduled ISI and subsequent steam generator tube plugging, (8) snubber inspection, and (9) check valve testing.

Other plant modification based on NRC requirements included: (1) TMI modifications, and (2) hanger modifications per IE Bulletin 79-14.

MC GUIRE

The licensee (Duke Power Co.) notified the staff that Unit No. 1 initial criticality has been delayed approximately a month (from May 7, 1981 to early June) due to a leak in the reactor-vessel head flange caused by failure of the RV head flange inner metallic O-ring seal.

A new O-ring seal will be installed. Cause of the failure has not been determined.

ALL PWR APPLICANTS AND LICENSEES

A meeting will be held 10:00 AM, Wednesday, April 29, 1981 in Room P-118 of the Phillips Building in Bethesda, Maryland to discuss with the PWR Owners Groups thermal shock to reactor pressure vessels by overcooling transients and the potential consequences of subsequent repressurization at relatively low temperatures. The meeting is being held to provide an update of industry efforts committed to during the 31 March 1981 meeting as well as to discuss the safety significance related to continued operation of these plants.

SIGNIFICANT NHR MEETING

On May 7, 1981, to discuss ENC Analyses of LOFT L3-6.

# NRC TMI PROGRAM OFFICE WEEKLY STATUS REPORT

Week of April 26.- May 2, 1981

## Plant Status

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

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

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 0430, May 1, 1981) (approximate values)

Average Incore Thermocouples: 114°F

Maximum Incore Thermocouple: 141°F

RCS Loop Temperatures:

	A	B
Hot Leg	112°F	115°F
Cold Leg (1)	66°F	65°F
(2)	66°F	65°F

RCS Pressure: 99 psig

Reactor Building: Temperature: 64°F

Water level: Elevation 290.7 ft. (8.2 ft. from floor);  
via penetration 401 manometer

Pressure: -.6 psig

Concentration: Less than LLD ( $4.3 \times 10^{-6}$ )  
(sample taken 4/30/81)

## 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 April 24, 1981, through April 30, 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 2 millionths (0.000002) of a curie was discharged. This represents less than 0.00002% of the permissible total liquid activity as specified in Technical Specifications for operational commercial reactors.

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 ( $\text{pCi}/\text{m}^3$ ) at several environmental monitoring stations and reported the following results:

<u>Location</u>	<u>April 17 - April 24, 1981</u> ( $\text{pCi}/\text{m}^3$ )
Goldsboro	22
Observation Center	25
Middletown	33
Yorkhaven	25

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 April 24, 1981, through April 30, 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> ( $\text{uCi}/\text{cc}$ )	<u>Cs-137</u> ( $\text{uCi}/\text{cc}$ )
HP-264	April 15, 1981 - April 22, 1981	< 8.5 E-14	< 8.5 E-14
HP-265	April 22, 1981 - April 29, 1981	< 8.6 E-14	< 8.6 E-14

- Environmental TLD measurements for the period February 5 to March 12, 1981 around TMI, and the Island stations for the period November 28, 1980 to March 13, 1981, indicated gamma radiation to be at the natural background levels. Fifty-eight TLD's registered doses ranging from 0.17 mR/day to 0.32 mR/day. Average dose was 0.24 mR/day. These dose rates are consistent with natural background radiation in the TMI area.

#### 4. Licensee Radioactive Material and Radwaste Shipments

- On Monday, April 27, 1981, a 40 ml Unit 2 reactor coolant sample was sent to Babcock and Wilcox (B&W), Lynchburg, Virginia.
- On Monday, April 27, 1981, one 4' x 4' EPICOR II dewatered resin liner (liner DF-13) from Unit 2 was shipped to U. S. Ecology, Richland, Washington.
- On Tuesday, April 28, 1981, one 4' x 4' EPICOR II dewatered resin liner (liner DF-4) from Unit 2 was shipped to U. S. Ecology, Richland, Washington.
- On Wednesday, April 29, 1981, one 4' x 4' EPICOR II dewatered resin liner (liner DF-7) from Unit 2 was shipped to U. S. Ecology, Richland, Washington.

#### Major Events

1. Reactor Building Entry. The ninth entry into the Unit II reactor building (RB) was completed on Thursday, April 30, 1981. During this entry preparations were completed for a decontamination experiment which will be performed on the next entry. Additionally, a floating pump was placed in the RB sump water. This pump will be used to pump sump water to the submerged demineralizer system. Eight persons entered the RB during the entry and based on preliminary indicators (dosimeters), the maximum individual exposure was 618 millirem. The next RB entry is tentatively scheduled for May 14, 1981. The RB was purged prior to the entry to reduce airborne Krypton concentrations. Air samples taken before and after the purge indicate that approximately three curies of Krypton-85 were released to the environment.
2. Ground Water Monitoring. Test boring two was placed on an accelerated sample analysis schedule when minute amounts of radioactive cesium were detected in the water samples taken during the months of December through March. The cesium activity subsequent decreased to below the lower limit of detection (LLD) on the most recent analysis results available from test boring two from samples taken on April 22, 1981.

Tritium activity in the test borings has remained in the same range as previously reported. An exception has been test boring nine. Samples taken from test boring nine on February 25, 1981, indicated an increase in tritium activity to 6310 picocuries per liter (pCi/L). Samples taken on March 4, 11, and 18, 1981, indicated 3660, 2940 and 3310 pCi/L of tritium respectively. Test boring nine is located adjacent to the borated water storage tank (BWST). During the time when tritium activity increased in test boring nine, excavation work was in progress around the BWST. The excavation may have altered the normal flow paths of the ground water.

Leaks from the BWST associated valves and fittings may have been the source of the ground water contamination. The licensee has constructed a trough and a rain cover around the potentially leaky BWST components. The weekly monitoring of the ground water activity will continue.

3. Submerged Demineralizer System (SDS). Preparation of the Safety Evaluation Report (SER) by the TMI Program Office is in progress although some necessary information has not yet been received. On April 30, 1981, the licensee submitted a revised schedule for providing the needed information.

The licensee is performing functional tests of the SDS components to verify that the equipment will operate as designed. The testing does not involve processing of contaminated water. The licensee has pumped approximately 112,000 gallons of EPICOR II processed water into the fuel pool. The fuel pool will be completely filled when the functional testing allows and concerns raised about airborne tritium concentrations are resolved (this item is discussed in the next paragraph).

4. Elevated Tritium Levels in Fuel Handling Building. At approximately 10:00 p.m. on April 29, 1981, licensee representatives obtained analytical results for an airborne concentration of  $3.1 \times 10^{-5}$  uCi/cc (tritium, H-3) for a grab sample taken between 2:00 p.m. to 7:00 p.m. earlier in the day. The sampling process was performed while EPICOR II processed water, which contained 0.22 uCi/ml of H-3, was transferred to partially fill the "B" Spent Fuel Pool, which will be used to shield the Submerged Demineralizer System during its operation. The sample was taken inside the pool. Subsequent samples were immediately taken at the 347' elevation (working area) of the Fuel Handling Building (FHB) adjacent to the "B" pool.

The second sample results became available at 4:45 a.m., April 30, 1981, and showed  $2.2 \times 10^{-5}$  uCi/cc (H-3). The 347' elevation was subsequently declared an airborne radioactivity area. The transfer process was secured at 2:30 a.m., April 30, 1981.

At approximately 10:00 a.m., a sample analysis indicated  $1.2 \times 10^{-6}$  uCi/cc, (H-3) and personnel entry into the area was resumed since the airborne (H-3) concentration was reduced to below 25 percent of MPC (occupational maximum permissible concentration per 10 CFR 20).

Licensee analytical results of a grab sample taken at 0553 to 0740 on April 30, 1981, from the FHB exhaust indicated an H-3 concentration of less than the Lower Limit for Detection (LLD  $< 4.5 \times 10^{-9}$  uCi/cc). The NRC resident staff have compared the monthly H-3 effluent and determined that the H-3 airborne releases during April (2.8 Ci) were essentially the same as March (2.7 Ci). Based on the monthly effluent data it appears that the slightly elevated and localized H-3 concentrations in the FHB during April 29 and 30, 1981, has not contributed to any significant increase in the plant monthly H-3 effluent.

Further, the licensee initiated a bioassay for selected personnel present at the 347' elevation area of the FHB during the period of the apparent increase in H-3 airborne concentrations. The source of the apparent localized H-3 concentrations is still being examined by the onsite staff.

Meeting Held

On Thursday, April 30, 1981, Harold Denton and Lake Barrett attended the annual convention of the Pennsylvania Osteopathic Medical Association at the Host Farm in Lancaster. Mr. Denton addressed the convention at its opening session followed by an open question session. The majority of the questions centered around general issues regarding the cleanup program of TMI Unit 2, and the recent Japanese event at Tsuruga Nuclear Power Plant.

Future Meetings

1. On Tuesday, May 5, 1981, Lake Barrett will conduct a plant tour for area mothers.
2. On Wednesday, May 13, 1981, Lake Barrett and Oliver Lynch will participate in a meeting with the Susquehanna Valley Alliance on the Programmatic Environmental Impact Statement. The meeting will be held at 7:30 p.m., in the Friends Meeting House in Lancaster at 110 Tulane Terrace.



OFFICE OF NUCLEAR MATERIAL SAFETY AND SAFEGUARDS

Items of Interest

Week Ending May 1, 1981

US/IAEA Safeguards Agreement

The Design Information Questionnaire (DIQ) for the Trojan Nuclear Plant was forwarded to the State Department for transmittal to the IAEA in Vienna on April 23, and the one for the Rancho Seco Nuclear Generating Station was forwarded on April 28, 1981.

The IAEA will complete their initial inventory verification activities at the Exxon Nuclear Fuel Fabrication on May 18, 19 and 20. An initial IAEA inspection will be conducted at the Trojan Nuclear Plant on May 21 and 22, and at the Rancho Seco Nuclear Generating Station on May 26 and 27.

Meeting with B&W-Naval

Representatives from B&W-Naval met with members of the Material Control and Accountability Licensing Branch on April 27 to discuss modifications to their FNMC Plan to allow recovery of scrap generated by another licensee.

New License Conditions for Nuclear Fuel Services, Erwin, Tennessee

On April 30, 1981, we issued Amendment No 9 to License SNM-124 held by Nuclear Fuel Services, Erwin, Tennessee to incorporate additional requirements to improve emission controls and environmental sampling. The new requirements were discussed in SECY-81-193 dated March 25, 1981.

Speech

Joseph DeImedico addressed the International Symposium Workshop on Quality Assurance in Nuclear Medicine, held April 27-29 at the Pan American Health Organization Building in Washington, D.C. The title of his presentation was "Objectives of the Regulatory Agencies"(Procedures of Monitoring Radiation Safety). This symposium was sponsored by the Federated Council of Nuclear Medicine Organizations and the Bureau of Radiological Health.

Planned Meetings      Division of Safeguards

1. Subject: Safeguards Agreement Working Group  
Date: May 5, 1981  
Location: State Department, Washington, D. C.  
Attendees: Paul Morrow, Eugene Sparks, SGMD  
Representatives of State, ACDA, DOE
  
2. Subject: Meeting with B&W-Naval and NUSAC to implement the Advanced  
Materials Accountability Simulation Study (AMASS)  
Date: May 11-15  
Location: Lynchburg, VA  
Attendees: H. McClanahan, B&W  
R. Hawkins, NUSAC  
G. Gundersen, SGML  
M. Messinger, SGMD
  
3. Subject: Discussion with IAEA on upcoming inspections at Exxon, Trojan  
and Rancho Seco  
Date: May 12 and 14, 1981  
Location: State Department, Washington, D. C.  
Attendees: Paul Morrow, Eugene Sparks, SGMD  
Representatives of State, ACDA, DOE and IAEA
  
4. Subject: Upcoming IAEA Reactor Inspections  
Date: May 14, 1981  
Location: NRR  
Attendees: Paul Morrow, SGMD  
Eisenhut and Tedesco, NRR  
Representatives of IAEA

Absences of Director and Deputy Director

5/8/81 D. R. Chapell

5/15/81 R. F. Burnett - Acting - D. R. Chapell

Planned Meetings - Division of Waste Management

1. Subject: 13th Annual National Conference of Radiation Control  
Date: May 4, 1981  
Location: Little Rock, Arkansas  
Attendee: R. Browning (speaker)
  
2. Subject: Search of U.S. Ecology Files for material determined to support NRC staff position in the pending Sheffield hearing  
Date: May 4-7, 1981  
Location: Louisville, Kentucky (U.S. Ecology)  
Attendees: J. Shaffner, WMLL, H. J. McGurren, ELD
  
3. Subject: Review of Brookhaven nuclear waste management activities  
Date: May 12, 1981  
Location: Upton, NY (BNL)  
Attendees: J. Martin, R. Browning, F. Cook

Absences of Director and Deputy Director

5/4/81 - R. Browning  
5/8/81 - R. Browning - Exec. Seminar, USDA Grad. School  
5/12/81 - J. Martin & R. Browning - BNL

Meetings - Division of Fuel Cycle and Material Safety

1. Subject: 13th Annual National Conference on Radiation Control  
Date/Time: May 4-6  
Location: Little Rock, Arkansas  
Attendees: F. D. Fisher will participate in an emergency preparedness task force meeting - May 2.  
  
R. G. Page and Ray Johnson (EPA) will discuss Federal Roles in Remedial Action for Contaminated Sites - May 5.  
  
R. G. Page will discuss Emergency Planning for Onsite Response at Fuel Cycle and Materials Facilities - May 6.
2. Subject: Public Meeting Sponsored by DOE to Discuss DOE Remedial Action Plan for Canonsburg  
Date/Time: April 29  
Location: Canonsburg, Pennsylvania  
Attendees: W. A. Nixon (FC), DOE Representative, State and Local Officials

Absences

Richard E. Cunningham - May 8 - Scheduled to attend SES Executive Seminar  
Thomas F. Carter - May 11 - 1:00-5:00 - Leave

OFFICE OF INSPECTION AND ENFORCEMENT

Items of Interest

Week Ending May 1, 1981

1. The following Notifications of Significant Enforcement Action were dispatched during the past week:
  - a. EN-80-57A Consolidated Edison Company of N. Y., Inc. (Indian Point Unit 2) - An Order Imposing a Civil Penalty in the amount of \$5,000 was issued to subject licensee on April 29, 1981. Previously, a Notice of Violation and a Notice of Proposed Imposition of Civil Penalty in the amount of \$5,000 was issued based on an item of noncompliance involving exceeding the Technical Specification Limiting Conditions for Operation of the containment spray system. After consideration of the licensee's response, the IE staff concluded that the item of noncompliance did occur and that no adequate reasons were given by the licensee for mitigation or remission of the proposed penalty.
  - b. EN-81-13 Mayo Clinic - A Notice of Violation and a Notice of Proposed Imposition of a Civil Penalty in the amount of \$1,500 was issued to subject licensee on April 27, 1981, based on an alleged violation involving failure to assay a radiopharmaceutical resulting in a misadministration to a patient of a different isotope than what was intended. This violation was a Severity Level III event ordinarily resulting in a civil penalty of \$4,000; however, the licensee immediately took steps to correct the problem and preclude similar events in the future, and immediately notified the NRC. The licensee also showed good faith by self-identification of the problem and by implementation of prompt and effective corrective actions. Therefore, it was determined that a total of 75 percent reduction in the civil penalty was justified.
2. Preliminary Notifications relating to the following actions were dispatched during the past week:
  - a. PNO-I-81-56 Peach Bottom Unit 3 - Possible Overexposure of One Individual
  - b. PNO-I-81-57 Peach Bottom Units 2 & 3 - Radioactive Waste Discharge Line Break
  - c. PNO-I-81-58 Peach Bottom Units 2 & 3 - Possible Strike by Contract Guard Force
  - d. PNO-II-81-32 Brunswick 1 - Loss of Normal Decay Heat Removal
  - e. PNO-III-81-40C Duane Arnold Energy Center - Possible Defects in Recirculation Piping and Thermal Sleeve Welds
  - f. PNO-III-81-43 Davis-Besse Site - Plant Startup After Steam Generator Repair
  - g. PNO-III-81-44 Point Beach, Unit 2 - Steam Generator Tube Degradation
  - h. PNO-III-81-45 Monticello Site - Loss of Offsite Power During Refueling Outage
  - i. PNO-IV-81-11 Cooper Nuclear Station - Failed Turbine Blades

ENCLOSURE D

- j. PNO-V-81-25 San Onofre Nuclear Generating Station Unit No. 1 - Earthquake at San Onofre Unit 1
- k. PNO-TMI-81-09 Three Mile Island, Unit 2 - Epicor-II Resin Liner Shipment
- l. PNO-TMI-81-10 Three Mile Island - Elevated Tritium Levels in the Fuel Handling Building

OFFICE OF NUCLEAR REGULATORY RESEARCH

IMPORTANT EVENTS FOR THE WEEK ENDING MAY 1, 1981

1. EPA/NRC/OSHA Hearing

The first EPA/NRC/OSHA hearing on occupational radiation protection was held in Washington, D.C., April 20 thru April 23, 1981. The sessions were attended at any one time by only 20 to 50 personnel, including participants, of which there were about 22 during the four full days and one evening session. The material covered was devoted almost exclusively to EPA's proposed guidance on this subject. The testimony was generally negative, with several recommendations that the guidance should be withdrawn. Although virtually every aspect of the guidance was criticized, the most common complaint was that too much detail is given, as opposed to broader policy considerations. The out-of-Washington hearings begin in Houston on May 1, 1981, and end in San Francisco on May 9, 1981.

Two reasons for postponing the guidance were discussed at considerable length by several participants. First, a serious question recently has been raised about the neutron dose estimates for the Hiroshima atomic bomb survivors. It now appears that the neutron doses may have been much smaller than previously assigned. If this is shown to be the case, then virtually all of the radiation-induced cancers at Hiroshima were caused by gamma radiation, with the inference that gamma radiation may have a higher risk than previously thought. Some participants believe that this question should be resolved before the new occupational radiation protection guidance is established.

The second reason given for postponing the guidance involves waiting for the NCRP to publish its new recommendations on occupational health protection. The NCRP is working on a protective system based on risk rather than dose. Since the dose is just one component of a risk estimation, many participants are intensely interested in the NCRP work. (NOTE: In risk calculations the risk is usually considered to be proportional to the product of the dose, the risk factor, and the number of subsequent years of life at risk.)

A great deal of valuable information was provided for the record. Among the testimony of particular interest was a presentation by representatives of Westinghouse in which previously undisclosed details were given concerning their crew of nuclear power reactor maintenance workers. This crew consists of over 100 highly skilled personnel who go from one plant to another to perform maintenance during outages. It was stated that the average dose for these individuals is about 6 rems per year, that about 25% of them have been members of the crew for 20 years or more, that the employment turnover is very low, and that most of the crew is expected to remain on this job until retirement. The Westinghouse participants indicated that there are other companies performing similar services. Using 1980 BEIR

report risk factors, about 7% of such workers would be predicted to contract radiation induced cancer. These doses are within current NRC occupational dose limits. (NOTE: In accordance with NRC annual reporting requirements, a worker receiving two rems at each of four different plants is reported as four workers each receiving two rems, not as one worker receiving eight rems.)

The Commission recently established a regulation which requires licensees to tell terminating workers the dose they received, to request such information from new workers and thereby to consider the total dose received by workers during any quarter at any facility. An ongoing NRC rulemaking action, which was published last year for public comment, would limit individual occupational doses to 3 rems per quarter and 5 rems per year. These two regulations, working together, would effectively prohibit annual individual doses exceeding 5 rems, including transient workers, such as the maintenance work crews. (NOTE: More than 80 letters of comment were received on the 5 rems-per-year proposed rule; many of these letters complained that flexibility to exceed 5 rems/yr is sometimes needed. The Commission has not been requested to take final action on this rule pending completion of the joint hearings.)

Contact: R. E. Alexander  
443-5975

2. Heissdampfreaktor (HDR)

RES has invited HDR officials to Washington during the week of May 10, 1981, to plan FY 1982 seismic research at HDR. NRC contractors will also attend. HDR is a decommissioned West German reactor used for nuclear safety research.

Contact: John O'Brien  
443-5860



## Severe Accident Assessment Branch

### 1. TRANS-2 Experiment in ACRR

TRANS-2 (Transition Phase-2), the second in a series of unique in-pile experiments on the streaming and freezing of molten reactor fuel through structure has been successfully performed in the ACRR test reactor at Sandia National Laboratory. In these laboratory-type experiments, the test reactor is used to rapidly melt a pellet of fuel with a pulse of neutrons, and the molten fuel is then driven under constant pressure into a stainless-steel tube. The depth of penetration and the final distribution of the fuel are measured by post-experiment x-radiography and in real time by wall thermocouples and by in-core fuel-position diagnostics.

Results from these experiments are being used to assess the current conflicting models of molten fuel streaming and freezing developed for fast reactor safety analysis. Fuel streaming and freezing is a key factor in determining whether or not the transition phase of a severe LMFBR accident can undergo an energetic recriticality. The results of these experiments and the models also have generic applicability to the problem of molten-fuel relocation in a severe LWR accident. Similar experiments are currently being planned for LWR-specific fuel melts and conditions.

Very preliminary results indicate that TRANS-2, at 600°C initial stainless-steel tube temperature, was similar to TRANS-1, with a 400°C initial temperature. The penetration lengths to the blockages were about 70 cm, and apparently in both cases appreciable fuel had penetrated beyond the blockage and the bore was lined with a fuel crust. In TRANS-3, to be performed at 800°C tube temperature, the steel should melt on contact with molten fuel. The steel-ablation unstable-fuel-crust model predicts that, under these conditions, mixing of the fuel and steel will produce a blockage at a very short penetration length (about 20 cm). TRANS-3 is scheduled for July.

### 2. NRC-EPRI Program Management Meeting

An EPRI-NRC program management meeting was held in Chicago on April 24, 1981. This one day management meeting provided a review of EPRI-NRC jointly sponsored research projects and a review of other research programs sponsored by the two organizations. This review included discussions on FLECHT-SEASET, REFILL/REFLOOD programs and the TLTA program. These discussions were concerned with both the technical aspects of the program and potential budgetary problems associated with each. The meeting also covered research sponsored by each organization related to degraded core accidents, hydrogen control and mitigation, fission-product release and qualification testing. Additionally, RES reviewed work on SEMISCALE, 2D/3D and fuel behavior programs and EPRI reviewed the programs on valve testing and passive restraints.

### Analytical Models Branch

1. Fortran coding of TRAC-PF1, the fast-running small-break version of TRAC has been completed. Developmental assessment has started and the code is being compared with data from small-break tests in Semiscale, LOFT and PKL. An improved simulation of on/off trips and controls has also been coded and is being tested to prepare the code for use on those operational transients that do not require dynamic controls.
2. A TRAC-PD2 fine-node calculation of a large-break LOCA in a USPWR has been completed. It has been reviewed by RES and once additional comments on depressurization rate, downcomer liquid level, nodding and LPIS injection rate have been prepared it will be transmitted for review to NRR.
3. In preparation for the June meeting on UPTF design and operation, to be held at Erlangen, a status report meeting is being held at NRC on April 29, 1981. The following organizations are reporting: LASL on their loop calculations with (GPWR) and without (UPTF) active pumps and steam generators; MPR on potential loads in UPTF; CREARE on plugging experiments and hot-leg oscillation analysis; and NRC on scaling of CREARE test results and data to support the TRAC calculations.

### Fuel Behavior Branch

1. Technical Bases Report on Fission Product Behavior (Draft NUREG 0772)

The format and approach to the documentation of peer reviewer comments were resolved at a meeting with key authors on April 21 at Headquarters. Final, revised camera-ready chapters are due at Headquarters on May 4. Contractor inputs to Chapter 1 (Summary) revisions are due this week.

2. Hydrogen Program

At a meeting on April 22, in response to an RES request, Sandia reviewed the status of the hydrogen program, proposed activities for the balance of FY81, and provided a scope of work for FY82. Sandia also provided a comprehensive work plan which includes all presently identifiable tasks which should be pursued. The major conclusion of the meeting is that presently budgeted FY82 funds (\$650K) for the program are significantly below Sandia recommendations of an ideal level of effort (at \$2900K) and a minimum level of effort (at \$1900K).

Experimental Programs Branch

1. Semiscale

Test S-UT-7, 5 percent cold leg break with UHI, was conducted as planned on April 22, 1981. This completes the small-break test series. We have initiated facility modifications required for the natural convection series, which we plan to start in June. These are principally instrumentation changes required to study low flow rates and two-phase behavior.

We have initiated planning for a Semiscale Review Group meeting. This will be held in Idaho in conjunction with an ACRS meeting planned for July 1981.

We are also investigating conduct of an experimental program analysis workshop. The objective is twofold: to assure that all interested analysts have the most recent information pertaining to the facilities and to provide a forum where analysts can share the knowledge.

2. FLECHT SEASET

The negotiations among NRC, EPRI and Westinghouse has begun for the program funding change. A final resolution is expected to be reached before the end of May 1981.

3. BWR Full Integral Simulation Test (FIST)

NRC Commissioners have approved the research plan to upgrade the TLTA facility (renamed FIST) to investigate BWR small-break LOCA and operational transients. A contract modification prepared by NRC has been sent to the other two parties (GE and EPRI) for signature. This contract modification will allow GE to order hardware associated with the planned upgrade and execute Phase I testing. GE has been authorized to start design work for the first phase of the upgrade.

OFFICE OF THE EXECUTIVE LEGAL DIRECTOR

ITEMS OF INTEREST

WEEK ENDING MAY 1, 1981

Blue Hills Station, Units 1 and 2

On April 28, 1981, the ASLB issued a Partial Initial Decision (Early Site Review) in which it determined that the Blue Hills site is suitable with respect to the factors considered.

ITEMS OF INTEREST  
OFFICE OF INTERNATIONAL PROGRAMS  
WEEK ENDING MAY 1, 1981

Foreign Visits to NRC

On Thursday Mr. Hans Haunschild, State Secretary of the FRG Ministry for Research and Technology (BMFT) and Messrs Loosch and Patermann, also of the BMFT, met with Chairman Hendrie, Commissioners Ahearne and Gilinsky, and J. Shea, IP, to discuss export licensing policies and the acceleration of the US reactor licensing process. A renewal of the NRC-BMFT Technical Exchange and Cooperation Arrangement in the field of reactor safety research and development was signed.

On Thursday Dr. H. L. Striem, Head of the Israeli Atomic Energy Commission's Site Licensing Department, met with R. Jackson, L. Reiter and P. Justice of the Geosciences Branch to discuss seismo-geological considerations for site licensing.

OFFICE OF STATE PROGRAMS

ITEMS OF INTEREST

WEEK ENDING MAY 1, 1981

On April 29, 1981, Tom Elsasser, RSLO, Region I, attended a public meeting in the evening in Salem, New Jersey, at which the off-site State and local radiological emergency response plans for the Salem Nuclear Generating Station were discussed.

OSP has been informed by the New York Department of Environmental Conservation that DEC's Commissioner has signed a consent order for Self Powered Lighting, Inc., a New York State licensee, which contains provisions to phase down the emission for their operation in Elmsford, New York, from 100 Ci of tritium oxide to 25 Ci of tritium oxide per year. Self Powered Lighting, Inc. manufactures tritium exit signs and other light sources.

We were informed by a Colorado official on April 30, 1981, that the Home Stake Mining Company has decided not to continue with its Pitch Project uranium mill which was licensed by Colorado on March 24, 1981. The reason given for putting the project on hold is reportedly due to the slump in the uranium market.

The House Committee on Energy and Commerce (Rep. Ottinger) held hearings on May 1 regarding Rep. Ertel's bill to establish a national insurance program to cover on-site damage from a nuclear accident. Met-Ed and the Pa. PUC testified. The Energy and Environment Subcommittee (Rep. Udall) holds hearings on May 4 and 5 regarding the financial status of GPU.

OFFICE OF MANAGEMENT AND PROGRAM ANALYSIS

Items of Interest

WEEK ENDING MAY 1, 1981

Congressional Correspondence

Delivered to EDO responses to Senator Simpson's questions on emergency preparedness.

Publications

Distributed March issue of Operating Unit Status Report, NUREG-0020, (Gray Book).

OFFICE FOR ANALYSIS AND EVALUATION OF OPERATIONAL DATA

ITEMS OF INTEREST

WEEK ENDING MAY 1, 1981

Engineering Evaluation on Millstone 2 Event

An AEOD engineering evaluation on a January 2, 1981 event at Millstone 2 has recently been completed. This event involved a reactor trip following de-energization of a 125 V dc bus and had several associated failures. The evaluation did not identify any new safety concerns other than those included in generic task A-30 and USI-A44.

As a result of the evaluation, the report identified a number of lessons which are now under review.

Presentation of a Paper

Carl Michelson presented a paper on April 27, 1981 at the Fourth Symposium on the Training of Nuclear Facility Personnel held in Gatlinburg, Tennessee. The paper summarized the organization and programs of AEOD and highlighted some of the AEOD observations after one year of analyzing operational experience.



ITEMS APPROVED BY THE COMMISSION - WEEK ENDING MAY 1, 1981

- A. STAFF REQUIREMENTS - DISCUSSION OF REVISED LICENSING PROCEDURES, 3:00 P.M., THURSDAY, APRIL 23, 1981, COMMISSIONERS' CONFERENCE ROOM, D.C. OFFICE (OPEN TO PUBLIC ATTENDANCE). Memo SECY to Bickwit, dtd 4/27/81.

I. Sua Sponte Powers of the Boards

The Commission, without reaching a decision, considered several proposals concerning the sua sponte powers of the boards. Chairman Hendrie noted that the Commission would discuss this matter further at a future meeting.

II. SECY-81-111A - Intervention in NRC Adjudicatory Proceedings

The Commission discussed the subject paper and several proposals concerning the raising of contentions in licensing proceedings. The Commission requested that OGC prepare language for a proposed rule that would require prospective intervenors to include in their supplement to the petition to intervene a concise statement of facts supporting each contention together with references to the written documents and other information relied upon to show the existence of their facts. The language should also specify that, if prospective intervenors failed to provide such a statement, that particular contention would not be admitted.

(OGC) (SECY Suspense: 4/28/81)

- B. STAFF REQUIREMENTS - BRIEFING ON EFFECTIVE INTERIM AMENDMENTS TO 10 CFR 50 ON HYDROGEN CONTROL AND CERTAIN DEGRADED CORE CONSIDERATIONS (SECY-81-245), 10:00 A.M., THURSDAY, APRIL 23, 1981, COMMISSIONERS' CONFERENCE ROOM, D.C. OFFICE (OPEN TO PUBLIC ATTENDANCE). Memo SECY to Dircks, dtd 4/27/81.

The Commission was briefed by staff on the proposed interim rule on hydrogen control and certain degraded core considerations.

Commissioner Gilinsky would like to have the staff explain to him why the evaluation of instability is not required for steel containments (reference pages 21-22 of Enclosure C to SECY-81-245).

The Commission agreed to deletion of the last sentence of the paragraph ending on page 22 of Enclosure C to SECY-81-245 from the proposed rule.

(EDO)

The Commission reached no decision at the meeting. The Chairman indicated that further consideration would be given to the proposal at a Commission meeting at a later date.

- C. STAFF REQUIREMENTS - AFFIRMATION SESSION 81-16, 4:35 P.M., THURSDAY, APRIL 23, 1981, COMMISSIONERS' CONFERENCE ROOM, D.C. OFFICE (OPEN TO PUBLIC ATTENDANCE).  
Memo SECY to Dircks/Bickwit, dtd 4/27/81.

I. SECY-81-191/191A - LEITHAUSER MOTION FOR OFFICIAL NOTICE OF INTERVENOR STATUS

The Commission, by a vote of 4-0, approved a proposed Order, as modified by Commissioner Gilinsky, which refers a motion of Mr. John Leithauser to the Licensing Board for appropriate action.

(Subsequently, the Order was signed by the Secretary.) (OGC)

II. SECY-80-546/SECY-81-114 - FIRE PROTECTION RULE FOR FUTURE PLANTS

The Commission, by a vote of 4-0, has approved adoption of Alternative 3 of the subject paper to develop a proposed fire protection rule containing requirements in those areas which are generic and applicable to most plants, while leaving plant-dependent features to staff evaluation under generic requirements.

(NRR) (SECY Suspense: 5/1/82)

In connection with their votes, the Commissioners agreed with Commissioner Gilinsky that until a rule is in place, new licenses (those issued after January 1, 1979) should contain a condition requiring compliance with commitments made by an applicant and agreed to by the staff.

(NRR)

- D. SECY-81-140 - REQUEST FOR PROPOSAL (RFP) NO. RS-RES-81-184, ENTITLED "BENCH-MARKING OF COMPUTER CODES USED IN STRUCTURAL DESIGN OF NUCLEAR POWER PLANTS".  
Memo SECY to Dircks, dtd 4/28/81.

This is to advise you that the Commission (with all Commissioners agreeing) has disapproved the proposed contract. In connection with their disapprovals the Commissioners had the following comments:

1. Chairman Hendrie:

"The project is simply too ambitious and is, I think more than the staff can digest - particularly Task I. There is merit, however, in the underlying aim of developing reliable codes, or verifying them, in the structural area. I would like to see a more modest proposition for this purpose, one where results would be more easily manageable by staff and with less ambitious results that the staff can more easily use. The piping code efforts of a few years ago provide an example of this."

D. (continued)

2. Commissioner Gilinsky:

"This paper indicates a need to develop better tools for checking structural analyses. I support efforts in this area but I understand there are differences between NRR and RES on how to approach this. The two offices should get together and make another more moderate proposal."

3. Commissioner Ahearne:

- a. "This approach, based on the Statement of Work, looks for a 'guarantee' that analysis is accurate, for a system that is 'foolproof'. Unless we are going to design plants ourselves, I believe a., b., c. in the Statement of Work are enough for a competent reviewer."
- b. "We are apparently searching for codes that may go well beyond what the data will support in calculational precision."
- c. "Approval of Senior Contract Review Board should be keyed to size of contract, not expense rate."

4. Commissioner Bradford agreed with Commissioner Ahearne.

The Office of Research and the Division of Contracts was informed of this action by telephone on April 28, 1981.

E. SECY-81-153 - NUCLEAR DATA LINK (NDL) MANAGEMENT PLAN. Memo SECY to Dircks, dtd 4/28/81.

This is to advise you that the Commission (with all Commissioners approving) has agreed to the implementation of a prototype NDL, subject to the comments noted below:

- a. The Commission believes that a better plant-data transmission system to the Operations Center than the present people-on-telephones arrangement is needed if they are to carry out even the most moderate role in emergencies.

## E. (continued)

- b. As a first step the staff should install several prototype data links, one to a PWR, one to a BWR, and possibly one to a reactor simulator. Installation of the prototype displays need not await the choice of an overall contracting scheme or contractor. Consideration should be given to the use of a "transmit" switch at the plant to transmit data only in the case of an accident so as to remove much of the complaint about potential intrusion into normal operation via the NDL.
- c. Following evaluation of the experience with the prototype displays the Commission will decide how far they wish to go in the development of the automated NDL concept.
- d. The Commission believes that a "Systems Integrator" approach as described in Enclosure 5 to SECY-81-153 should be used in the program development. This would place on the system integrator the responsibility for handling program contracting, including preparation of RFP's, evaluation of proposals, negotiation and awarding of contracts, and the administration of the contracts. This would result in the highly desirable feature of having one organization accountable for the successful completion of the NDL. Option C, where the NRC would choose subcontractors, would leave the technical integrator with neither the sense of responsibility that the contractors were his choice, nor could he be held accountable if the subcontractors produce an inadequate product.

The systems integrator should also be explicitly precluded from developing the software or hardware so as to provide protection against charges of conflict of interest.

The solicitation of interest for the systems integrator position should go to organizations such as the Jet Propulsion Laboratory, among others.

In the final RFP the system integrator would be asked to reexamine the stand-alone versus standard concept.

- e. The Commission believes it would be helpful for a systems integrator to be brought on board in time to help evaluate the prototype phase, if it can be done without the commitment of a large contract. The NRC should not select contractors for the full NDL system until the experience with the prototype has been evaluated.

F. STAFF REQUIREMENTS - DISCUSSION OF REVISED LICENSING PROCEDURES, 10:05 A.M., TUESDAY, APRIL 28, 1981, COMMISSIONERS' CONFERENCE ROOM, D.C. OFFICE (OPEN TO PUBLIC ATTENDANCE). Memo for the Record fm SECY, dtd 4/30/81.

- I. SECY-81-202/A/B - Proposed Statement of Policy (See also SECY memo dtd 4/27 forwarding Commissioner Gilinsky's comments.)

The Commission continued its discussion and reached agreement on all sections of the proposed Statement of Policy except: Part III, Section A (Time), which will be discussed further in connection with a proposed hearing schedule; Part III, Section J (Sua Sponte), which is to be discussed further after consideration of an ASLBP memorandum to Commissioner Ahearne, which is anticipated by 5/1; and Part IV (Conclusion), which is to be drafted for Commission consideration by Commissioner Bradford. (OGC)

- II. SECY-81-252 - Proposed Changes to 10 CFR Part 2, Analysis of Public Comments and Recommendations of NRC's Legal Offices and Licensing Panels

The Commission discussed the subject paper and tentatively agreed to approve the staff recommendations on four of the six proposed changes (proposed changes numbered 2, 3, 4 and 6 in SECY-81-252). The Commission deferred a decision on the other two proposed changes (numbers 1 and 5 in SECY-81-252). Chairman Hendrie noted that the recommendations would be discussed at a future Commission meeting at which time Commissioner Gilinsky's proposed alternative to Item 1 will also be considered. (OGC)

Another meeting on Revised Licensing Procedures has been scheduled for May 7.

- G. SECY-81-22B - SIXTH DOE/NRC REPORT ON DOMESTIC SAFEGUARDS - DOE REWRITE. MEMO SECY to Dircks, dtd 4/30/81.

This is to advise you that the Commission (with all Commissioners approving) has approved the sixth DOE/NRC Report on Domestic Safeguards -- DOE Rewrite with the modifications noted on the attached pages 2 and 3.

The Office of Nuclear Material Safety and Safeguards was informed of this action by telephone on April 29, 1981.

Attachment: Not included

H. SECY-81-260 - RENEWAL OF NRC-BMFT TECHNICAL EXCHANGE ARRANGEMENT IN THE FIELD OF REACTOR SAFETY RESEARCH AND DEVELOPMENT. Memo SECY to Dircks, dtd 4/30/81.

This is to advise you that the Commission (with all Commissioners approving) has noted the status of the renewal of the NRC-BMFT safety research arrangement and has designated Chairman Hendrie to sign this arrangement with State Secretary Haunschild during his April 30 visit to NRC.

Commissioner Ahearne approved the paper with the understanding that the NRC explains (informally is acceptable) to BMFT the points made by the Department of State in its letter of April 21, 1981. The other Commissioners agree.

The Office of International Programs was informed of this action by telephone on April 29, 1981.

It is requested that you provide a copy of the research arrangement to the Office of the Secretary after signature by the Chairman and Mr. Haunschild.

I. STAFF REQUIREMENTS - DISCUSSION OF FULL-POWER OPERATING LICENSE FOR SALEM-2, 1:30 P.M., TUESDAY, APRIL 28, 1981, COMMISSIONERS' CONFERENCE ROOM, D.C. OFFICE (OPEN TO PUBLIC ATTENDANCE). Memo SECY to Dircks, dtd 4/30/81.

The Commission was briefed by staff and by Mr. John E. Dickey (FEMA) on the emergency planning exercise at the Salem site and on the review of fire protection aspects of the plant.

The Commission deferred final action on the staff recommendation to authorize issuance of the license, pending a meeting to hear the results of a fire protection plant review to be conducted by R. Mattson.

(NRR) (SECY Suspense: 5/12/81)

Commissioner Bradford requested information on how the misstatement regarding completion of the alternate shutdown system was reported in the SER Supplement Number 5.

(NRR) (SECY Suspense: 5/12/81)

- J. STAFF REQUIREMENTS - PROPOSED RULE ON OL APPLICATIONS (SECY-81-246) AND INTERIM AMENDMENTS ON HYDROGEN CONTROL, (SECY-81-245), 10:10 A.M., THURSDAY, APRIL 30, 1981, COMMISSIONERS' CONFERENCE ROOM, D.C. OFFICE (OPEN TO PUBLIC ATTENDANCE).  
Memo SECY to Dircks, dtd 5/1/81.

The Commission, by a vote of 3-1 (Commissioner Bradford dissenting), approved a Federal Register Notice as modified below seeking comment on a proposed rule that incorporates into 10 CFR Part 50 a set of TMI-2 requirements for operating license applications.

The Commission requested that the Federal Register Notice be modified:

1. to indicate in the Statement of Consideration that a similar rulemaking with respect to operating reactors will be published for comment in the near future;
2. to incorporate the items on the attached errata sheet that was distributed by staff at the meeting; and
3. to solicit comment on the effective date and its application to pending proceedings.

The Commission requested that the Federal Register Notice be sent to all known interested persons.

Attachment: Not included