

November 27, 1985

For: The Commissioners

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

Subject: WEEKLY INFORMATION REPORT - WEEK ENDING NOVEMBER 22, 1985

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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\*No input this week.

8512060066 851127  
PDR COMMS NRCC  
WEEKLY INFOREPT PDR



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

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492-7781

## HIGHLIGHTS OF WEEKLY INFORMATION REPORT

WEEK ENDING NOVEMBER 22, 1985

### South Texas Project Units 1 and 2

The owners of the South Texas Project have announced a delay in the projected fuel load for Unit 1 from December 1986 to "summer, 1987." They have characterized the delay as being of "approximately six months." No significant impact on the construction schedule for Unit 2 was announced, with completion scheduled "in 1989." It was noted that a comprehensive cost and schedule review is now underway to be completed by November 20, 1985.

### NUREG-0956 MANAGEMENT

The authors of the NUREG-0956 report on source terms met on November 14, 1985 with six former members of the American Physical Society study group to receive their individual comments. Among their most important comments were the following: (1) the science, apart from the numerical techniques, of the numerous source term computer codes should be widely published to permit a broader peer review; (2) the computer codes are not well validated against experimental data, and more should be done to perform and document such comparisons; (3) notwithstanding their shortcomings, the new source term codes should be used for decision making because the present basis for decision making (viz., TID-14844) is wrong; (4) the conclusions in draft NUREG-0956 as stated by the staff are too optimistic; (5) the NRC's two-tier code strategy (detailed mechanistic codes and integrated codes) is appropriate; (6) Uncertainties need more study so that an uncertainty range can be given for all results; (7) an impediment to further progress is the inability to do good containment failure analyses; and (8) the risk perspective in NUREG-0956 should be deleted. The meeting was open to the public.

### Origin-Swaps Involving U.S.-Supplied Material

In late October, staff members from IP, NMSS, and ELD met with representatives from DOE and State, at the request of State, to discuss the implications of "origin-swaps" which have the effect of changing the national origin of the feed components for uranium inventories. The implications of origin-swapping were discussed in a report to the Commission in August 1979 (SECY-79-58A), in which the staff concluded that origin-swaps involve no proliferation concerns. Domestic origin-swaps occur with some regularity but transactions including swaps across national boundaries occur, on the average, only about once each year. Department of State requested a discussion of the origin-swap process because of its concerns that the U.S. might lose control rights, such as retransfer and reprocessing approval rights, over U.S.-supplied materials when swaps occur. State is continuing to review the matter to ensure that U.S. understandings regarding U.S. control rights continue to be shared by our trading partners. Future requests for swaps will continue to be coordinated with the Executive Branch prior to approval.

### Incident Response

On November 19, 1985, the Chief, Incident Response Branch, Division of Emergency Preparedness and Engineering Response and staff member attended a meeting with FEMA and NRC to discuss the ground rules for NRC participation in the Shoreham exercise.

OFFICE OF ADMINISTRATION

Week Ending November 22, 1985

ADMINISTRATION OF THE FREEDOM OF INFORMATION ACT

STATUS OF REQUESTS

	<u>Initial Request</u>	<u>Appeal of Initial Decision</u>
Carryovers, 1984	179	23
Received, 1985	767	41
Granted	603	30
Denied	176	17
Pending	167	17

ACTIONS THIS WEEK

Received

Patty Day, NUS Corporation (85-756)	Requests a copy of SECY-85-288, "NRC's Approach to Training Evaluation Based on Policy Statement on Training and Qualification of Nuclear Power Plant Personnel."
Tab Wilkins, New York State Science & Technology Foundation (85-757)	Requests a list of project abstracts and firms who applied to NRC for FY85 SBIR funding.
Francis J. Kreysa, Neutron Products Inc. (85-758)	Requests copies of all registrations by six listed firms.
Diane Curran, Harmon, Weiss & Jordan (85-759)	Requests three categories of records related to the backfit rule published in the <u>Federal Register</u> on August 8, 1985, and any proposed or draft versions of the rule.
(An individual requesting information about himself) (85-760)	Requests records in the NRC on himself.
(NRC employee) (85-761)	Requests specified weekly summary reports on work assignments.

CONTACT: Donnie H. Grimsley  
492-7211

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Received, Cont'd

<p>Robin Kimling, Micro Mart, Inc. (85-762)</p>	<p>Requests a copy of the winning proposal submitted in response to RFP RS-ORM-85-334.</p>
<p>Bobby G. Hardwick, McClure, Brannan &amp; Hardwick (85-763)</p>	<p>Requests, on behalf of his client, records concerning his client's exposure to radiation at the Clinton nuclear power plant.</p>
<p>James J. Myron, The Applied Radiant Energy Corp. (85-764)</p>	<p>Requests a list of names and addresses of organizations that operate radioactive isotope irradiators categorized by the designation 03521.</p>
<p>Laurie Fowler, Law Offices of Brian Spears (85-765)</p>	<p>Requests records regarding allegations, findings and orders that Pullman Power Product employees intimidated and harrassed quality control inspectors at nuclear facilities.</p>
<p>Laurie Fowler, Law Offices of Brian Spears (85-766)</p>	<p>Requests copies of all records regarding an NRC investigation by OIA or others of an NRC employee.</p>
<p>Dana Bottorff, Ottaway News Service (85-767)</p>	<p>Requests a copy of the draft report of the November 9, 1985, meeting of the ACRS concerning Palo Verde.</p>

Granted

<p>Nina Bell, Nuclear Information and Resource Service (85-425)</p>	<p>In response to a request for all records regarding a Performance Appraisal Team inspection conducted at the San Onofre nuclear power plant starting the week of March 1, 1985, and fire protection deficiencies at San Onofre, made available 46 records.</p>
<p>Jim Pedro, NUS Corporation (85-717)</p>	<p>In response to a request for a copy of SECY-85-120, made available a copy of the requested paper.</p>
<p>Peter Rathje, Doc-Search Associates (85-723)</p>	<p>In response to a request for copies of specified monthly operation reports for the Haddam Neck nuclear power plant, made available 12 reports. Informed the requester that two additional reports are already available at the PDR.</p>
<p>(An individual requesting information about himself) (85-732)</p>	<p>In response to a request for records related to the license issued to Kelly Air Force Base, Texas, made available one record.</p>

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Granted, Cont'd

Joel M. Kaplan,  
Karlin & Fleisher  
(85-734)

In response to a request for copies of procedures, rules, and regulations in effect in 1973, 1974, 1975, and 1976 with respect to radiation exposure of persons working at the Zion nuclear power plant, made available six records.

Ellen M. Neering,  
Barri's, Sott,  
Denn & Driker  
(85-743)

In response to a request for records in the possession of the ACRS relating to Dr. Jorj Osterberg's compensation for work performed for the ACRS, informed the requester that no records were found subject to this request.

William R. Pearce  
(85-746)

In response to a request for a copy of the transcript of the ACRS Grand Gulf Subcommittee meeting held on January 18, 1974, informed the requester that the transcript is already available at the PDR.

Kenneth T. White  
(85-749)

In response to a request for a list with five categories of information regarding manufacturers who install sealed sources requiring leak testing into devices with registered designs for distribution to licensees, made available a printout furnishing this information.

Denied

Mozart G. Ratner,  
Attorney-At-Law  
(85-554)

In response to a request for copies of 33 specified records regarding the General Electric facility in Wilmington, North Carolina, made available five records. Denied portions of 22 records containing information which identifies procedures for safeguarding licensed special nuclear material at the licensed facility.

(NRC employee)  
(85-568)

In response to a request for records regarding an allegation of the employee's misconduct, made available three records. Denied portions of nine records, release of which would constitute an unwarranted invasion of personal privacy.

Joyce Miller Nelson,  
TCP, Inc.  
(85-716)

In response to a request for a copy of SECY-85-279, denied this paper in its entirety, release of which would tend to inhibit the open and frank exchange of ideas essential to the deliberative process.

Mozart Ratner,  
Attorney-At-Law  
(85-A-40-85-542)

In response to an APPEAL TO THE COMMISSION for the release of a draft handwritten note from Neil Jensen, OGC, to the General Counsel and an attached draft handwritten letter from N. Jensen to M. Ratner, continued to deny portions of this record, release of which would tend to inhibit the open and frank exchange of ideas and free flow of advice essential to the deliberative process and would interfere with an attorney's work-product privilege.

WEEKLY INFORMATION REPORT  
DIVISION OF CONTRACTS  
WEEK ENDING NOVEMBER 22, 1985

RFP ISSUED

RFP No.: RS-ORM-85-336

Title: "ADP Information Technology Support Center Contract"

Description: End user computing support services for users of NRC microcomputers and NRC users of the NIH computer facility.

Period of Performance: Two years

Sponsor: Office of Resource Management

Status: Closing date has been extended to December 6, 1985.

PROPOSAL UNDER EVALUATION

RFP No.: RS-SEC-86-201

Title: "Stenographic Reporting Services"

Description: Contractor will provide stenographic reporting services for NRC Commission meetings held in the Washington, D.C. Metropolitan Area.

Period of Performance: Two years with an option to extend one additional year.

Sponsor: Office of the Secretary

Status: Negotiations completed on November 19, 1985. Best and Final offers due on November 26, 1985.

CONTRACT AWARDED

RFP No.: RS-ADM-86-235

Title: "NRC Translation Services"

Description: The contractor will be required to furnish translation services for reports and other related material provided by NRC when issued by a formal work order.

Period of Performance: Two years

Sponsor: Office of Administration/Technical Information & Document Control

Status: Fixed Price Requirements Contract No. NRC-10-86-235 awarded to SCITRAN, Santa Barbara, California, in the estimated amount of \$230,716.00, effective November 18, 1985.

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ENCLOSURE A

OFFICE OF NUCLEAR REACTOR REGULATION

ITEMS OF INTEREST

Week Ending November 22, 1985

Kewaunee Plant - Plant Trip

On November 13, 1985 at 23:29 CST a steam flow/feed flow mismatch resulted in a low steam generator level which in turn caused a reactor trip. Both main trip breakers functioned properly. One of these breakers had failed a bench test on November 7, 1985, a test required by IEB 85-02. The "A" steam generator main feedwater regulating valve was found with its operator sitting 20° from vertical, two of four bolts holding operator to yoke broken and the operator shaft bent. The plant came down normally after the trip. Restart was planned for about 20:00 CST on November 14, 1985. There was local (Green Bay) media interest in the event due to the November 7 reactor trip breaker test failures.

River Bend Station

On November 8, 1985, Gulf States discovered 16 junction boxes which had not been sealed in accordance with their equipment qualification program. Therefore, GSU declared the affected ESF systems inoperable and proceeded in accordance with the action statements of the Technical Specifications. Simultaneously, GSU sealed the junction boxes within the time frame required by the action statements. No shutdown was necessary. Region IV is following up.

Subsequent to finding the problem with the junction boxes, GSU conducted a thorough review of its records to determine if there exists similar problems in other safety grade equipment. On November 13, 1985, this review effort identified supplementary steel bracing to pipe supports for the service water piping system had not been installed as called for in the design. As a result, the service water system was declared inoperable, which initiated an LCO. GSU was not able to complete the repairs within action statement's time limit and the plant was taken to hot shutdown. GSU has completed installation of the bracing on one train of the service water system, and expects to complete the other train later and to continue with surveillance testing. Prior to this shutdown, the River Bend Station was at 4½% of rated power, approaching the rated conditions for reactor coolant pressure and temperature.

GSU received their low power license on August 29, 1985, went critical on October 31, 1985. The Commission meeting on full power license for River Bend was scheduled for November 15, 1985.

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### Fermi-2

At about 11:00 a.m. on November 13, 1985, emergency diesel generator (EDG) No. 13 at the Fermi-2 facility suffered significant damage at about two hours into a 24-hour test run. The damage observed to date to cylinder no. 3 of the upper crankline is: (1) a cracked cylinder liner; (2) a broken piston skirt; and (3) damage to the connecting rod bearing. It is presumed that a nearby main crankline bearing has been damaged and initiated the observed damage in cylinder no. 3. Both division 2 EDGs (Nos. 13 and 14) had "cold, dry" starts on November 10, 1985, when they inadvertently were automatically started during a routine surveillance test. EDG Nos. 11 and 12 (division 1) suffered similar damage in January 1985. The cause for those failures was attributed to "dry" starts (Fairbanks Morse Diesel Generators).

The Fermi-2 facility has been in cold shutdown since early October 1985 to install the independent alternate shutdown system for fire protection and to install environmentally qualified equipment. Prior to this damage to EDG No. 13, the Fermi-2 restart was scheduled for November 30, 1985. Restart after repairs is now tentatively scheduled for December 6, 1985.

### Peach Bottom Atomic Power Station, Unit 2 and 3

On November 10, 1985, smoke was reported in the Radwaste Building. Unit 2 was at 100% power and Unit 3 was in a fuel reloading outage. The licensee's fire and damage team responded and discovered a fire in a cable tray. The fire was extinguished within a few minutes with portable CO<sub>2</sub> and Ansul extinguishers. Due to a hourly fire watch in this area as a result of the licensee's interpretation of the Peach Bottom TSSs, the fire was detected and responded to in an expeditious fashion. Follow-up investigations by the licensee and Regional personnel indicate that damage was confined to a section of the cable tray and associated cable.

The affected equipment included the liquid radwaste processing system and associated controls. No safety related equipment cables or equipment were affected. No release of liquid radwaste occurred during this event and it appears that no accidental liquid release would have occurred during this event due to equipment failure since the liquid radwaste is not continuously released but rather batch released.

During the fire, voltage on a static inverter dipped, resulted in a change in the electro-hydraulic control system and consequently caused recirculation runback, thereby reducing power to 75%. Fuel loading was suspended at Unit 3. The licensee replaced the damaged cable and Unit 2 returned to 100% power (from 75%) on November 11 and fuel movement was resumed on Unit 3. The Region has sent their fire protection personnel to the site to continue the investigation of this fire.

### South Texas Project Units 1 and 2

The owners of the South Texas Project have announced a delay in the projected fuel load for Unit 1 from December 1986 to "summer, 1987." They have characterized the delay as being of "approximately six months." No significant impact on the construction schedule for Unit 2 was announced, with completion scheduled "in 1989." It was noted that a comprehensive cost and schedule review is now underway to be completed by November 20, 1985.

### Yankee Power Station

During performance of secondary side inspections on the four steam generators (SG), the licensee identified weld cracks on feedwater spargers for SG Nos. 2 and 3. The sparger on SG No. 2 had a 2" crack on the weld between the nozzle and the sparger ring. The sparger on SG No. 3 had a 360 degree circumferential crack in the weld between the nozzle and the sparger ring. Additionally the licensee is investigating the possibility that three sparger monitoring brackets are missing from SG No. 3.

The licensee is formulating plans to perform repairs to the spargers and locate the missing brackets. The resident inspector is following the licensee's correction actions.

### UCLA Reactor

After four years of litigation and one year of negotiations among the parties, the UCLA proceedings for license renewal and their operating license have been terminated by ASLB Board Orders. One Order: (a) approves the parties' stipulation, (b) places all conditions and technical specifications of NRC License R-71 into the Order, (c) terminates License R-71, (d) permanently prohibits operation of the UCLA reactor and any use of its parts in another UCLA reactor, (e) grants UCLA's request to withdraw its license renewal application, and (f) terminates the license renewal proceeding. The second Order terminates the license termination (dismantlement) proceeding.

### Comanche Peak Unit 1 and 2

Revised cost and schedule estimates were announced on November 18 by Texas Utilities Electric Company. A detailed reanalysis and reinspection effort is presently underway. This effort, and all related plant modifications that may be necessary, is now estimated to be complete in time to support commercial operation of Unit 1 in mid-1987 and Unit 2 six months later.

If this schedule is achieved, it is estimated that the plant will cost \$5.46 billion.

Previous schedule and cost estimates made in January 1985 were: early 1986 (Unit 1) and mid-1987 (Unit 2) and \$4.56 billion.



Calvert Cliffs Units 1 and 2

We have received an application for exemption from Appendix E, dated November 18, 1985, which would reduce the Calvert Cliffs EPZ. At the present time, Appendix E requires a 10 mile EPZ; the licensee has requested a 2 mile EPZ.

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NRC TMI PROGRAM OFFICE WEEKLY STATUS REPORT  
WEEK ENDING NOVEMBER 22, 1985

1. DEFUELING

On November 18, 1985, the licensee modified their immediate defueling strategy from that of pick and place to that of cutting the distorted fuel rods. Defueling progress has been slow due to interferences and inability to separate fused endfittings. The licensee is cutting fuel rods to reduce the interference and improve packing density in the fuel canisters. A problem developed during the week with the defueling tools hydraulic system. Boron in the system plated out on system filters which caused the system to be shutdown on high filter differential pressure. The fluid is being replaced by an alternate approved hydraulic fluid that has boron in solution. Defueling should recommence on November 26, 1985. Photographic mapping of the debris bed has been accomplished during the delay. NRC staff observations indicate licensee is continuing to aggressively pursue problem areas and is making improvements that should enhance overall defueling efficiency.

2. PLANT STATUS

- The facility remains in long term cold shutdown with the Reactor Coolant System (RCS) vented to the reactor building atmosphere and the reactor vessel head and plenum assembly removed from the reactor vessel.
- The plenum is on its storage stand in the deep end of the fuel transfer canal. A dam has been installed between the deep and shallow ends of the fuel transfer canal. The deep end is filled with water to a depth of about 20 feet (about 5 feet above the top of the plenum).
- The modified internals indexing fixture is installed on the reactor vessel flange and is flooded to elevation 327 feet 6 inches (15½ feet above the top of the core region). The defueling platform is installed over the Internal Indexing Fixture for defueling.

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- Calculated reactor decay heat is less than 12 kilowatts.
- RCS cooling is by natural heat loss to the reactor building ambient atmosphere. Incore thermocouple readings range from 71°F to 95°F with an average of 83°F.
- The average reactor building temperature is 56°F. The reactor building airborne activity at the Westinghouse platform is 1.2 E-7 uCi/cc Tritium and 2.5 E-10 uCi/cc particulate, predominantly Cesium 137.
- Spent Fuel Pool "A" is flooded to a depth of 20 feet. About 6 feet of water is over fuel canister storage racks.

### 3. WASTE MANAGEMENT

- Both trains of the reactor vessel filtration portions of the defueling water cleanup system (DWCS) have been shutdown when the filter differential pressure reached the procedural limit. Evaluation is in progress of the particulate suspension in the RCS. A procedure has been approved to backwash the filters.
- Submerged Demineralizer System (SDS) processing of batch 126 continues, Fuel Transfer Canal recycle through both Trains and "B" cation sand filter. A total of 319,705 gallons has been processed in batch 126 to date.
- EPICOR II is temporarily shutdown while changing out liners.
- Total volume processed through SDS to date is 3,511,667 gallons, and the total volume processed through EPICOR II is 2,700,737 gallons.

### 4. DOSE REDUCTION/DECONTAMINATION ACTIVITIES

- Decontamination activities are continuing on the 281' level of the auxiliary building. Scabbling of reactor coolant bleed tank cubicles is in progress.
- Average general area radiation dose rate is 40 mrem per hour on the 347' level of the reactor building and is 67 mrem per hour on the 305' level of the reactor building.
- Decontamination of the pressurizer and "A" D-ring is in progress.

### 5. ENVIRONMENTAL MONITORING

- US Environmental Protection Agency (EPA) sample analysis results show TMI site liquid effluents to be in accordance with regulatory limits, NRC requirements, and the City of Lancaster Agreement.

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- TMI water samples taken by EPA at the plant discharge to the river consisted of seven daily composite samples taken from November 3 through November 9, 1985. A gamma scan detected no reactor related activity.
- The Lancaster water sample taken at the water works intake and analyzed by EPA consisted of a seven day composited sample taken from November 3 through November 9, 1985. A gamma scan detected no reactor related radioactivity.
- The NRC outdoor airborne particulate sampler at the TMI Site collected a sample between November 13 and November 20, 1985. No reactor related radioactivity was detected. Analysis showed iodine-131 and Cesium-137 concentrations to be less than the lower limits of detectability.

6. REACTOR BUILDING ACTIVITIES

- The initial phase of defueling the reactor core is in progress.
- Installation of the vacuum defueling system is in progress.

7. AUXILIARY AND FUEL HANDLING BUILDING ACTIVITIES

- Installation of the balance DWCS continued.
- Spent Fuel Pool has been flooded to a depth of about 20 feet (about 6 feet above the top of the fuel canister storage racks).

8. NRC EVALUATIONS IN PROGRESS

- Technical Specification Change Request number 49.
- Recovery Operations Plan Change number 31.
- SDS Technical Evaluation and System Description Update.
- Core Stratification Sample Safety Evaluation.
- Defueling Water Cleanup System Technical Evaluation Report, Revision 7.
- Containment Air Control Envelope Technical Evaluation Report, Revision 5.
- Solid Waste Facility Technical Evaluation Report.

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9. PUBLIC MEETING

The Advisory Panel for the Decontamination of TMI-2 met with the Commissioners in Washington, DC on November 19, 1985. At that meeting the Panel informed the Commission of their recent briefings by GPUN on defueling plans. Additional topics of discussion included: (1) licensee measures to prevent criticality during defueling, (2) licensee schedule for conducting defueling activities, (3) panel activities related to TMI-2 accident health effects issues, and (4) status of licensee plans for disposition of processed accident water.

The Panel also informed the Commission of its plans for discussing issues at future panel meeting.

The next meeting of the Advisory Panel is scheduled for December 12, 1985, at the Holiday Inn, 23 South Second Street, Harrisburg, PA, from 7:00 PM to 10:00 PM.

At that meeting GPUN will provide a status of defueling activities and Mr. and Mrs. Aamodt will provide information regarding their health effects evaluations.

Persons desiring the opportunity to speak before the Panel are asked to contact Mr. Thomas Smithgall at 717-291-1042 or write to him at 2122 Marietta Avenue, Lancaster, Pennsylvania 17603.

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OFFICE OF NUCLEAR MATERIAL SAFETY AND SAFEGUARDS

Items of Interest

Week Ending November 22, 1985

Near-Term NRC Actions Under the Nuclear Waste Policy Act (NWSA)

Section: 114(e) of NWSA: Project Decision Schedule (PDS)

Status: In the draft PDS, DOE requested that all affected Federal agencies review and revise Section 10 - Compliance with Federal Statutes, Regulations, and Permits, and submit a report to DOE by January 1, 1986. The report should include the Federal agency action required by the statute, regulation or permit, and the amount of time which should be scheduled to permit agency action.

Action: The requested report is currently being prepared by ELD and DWM for submittal to DOE.

NFS-Erwin

Strike by OCAW members continues. There has been some negotiating between the Union and NFS within the last six weeks but no resolution has been reached. NFS is conducting limited operations of the HEU production, scrap recovery and R&D facilities. No problems with site operations have arisen to date.

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Items of Interest  
Week Ending November 22, 1985

1. The following Significant Enforcement Actions were taken during the past week:

None.

2. The following IE Preliminary Notifications were issued during the past week:

- a. PNS-I-85-15, Northeast Nuclear Energy (Millstone Units 1 & 2), Handgun Found in Contractor Vehicle Exiting the Plant Protected Area.
- b. PNO-I-85-87, General Public Utilities Nuclear Corporation (Oyster Creek), Unplanned Scram and Steam Line Isolation.
- c. PNO-II-85-109, Tennessee Valley Authority (Browns Ferry Units 1, 2, & 3), Contamination of Individuals During Emergency Drill.
- d. PNO-II-85-109A, Tennessee Valley Authority (Browns Ferry Units 1, 2, & 3), Update on Contamination of Individuals During Emergency Drill.
- e. PNO-II-85-110, Florida Power and Light Company (Turkey Point Units 1 & 2 and St. Lucie Units 1 & 2), and Florida Power Corporation (Crystal River Unit 3), Actions in Response to Hurricane Kate.
- f. PNO-III-85-95, Detroit Edison Company (Fermi Unit 2), Damage to Diesel Generator During Testing.
- g. PNO-III-85-96, Commonwealth Edison Company (Byron Unit 2 and Braidwood Units 1 & 2), Commonwealth Edison Announces New Inservice Dates for Byron, Braidwood.
- h. PNO-III-85-97, Testing Engineers and Consultants, Inc. (Troy, MI), Theft of Moisture-Density Gauge.
- i. PNO-IV-85-58, Gulf States Utilities (River Bend), Reduced Thermal Limit Potentially Exceeded.
- j. PNO-IV-85-58A, Gulf States Utilities (River Bend), Personnel Error in Exceeding Reduced Thermal Limit.
- k. PNS-V-85-05, Sacramento Municipal Utility District (Rancho Seco), Improper Access Controls.
- l. IE Bulletin 85-03, Motor-Operated Valve Common Mode Failures During Plant Transients Due to Improper Switch Settings was issued November 15, 1985 to all holders of nuclear power reactor operating licenses or construction permits for action.

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3. The following IE Information Notices and IE Bulletins were issued during the past week:
- a. IE Information Notice 85-58, Supplement 1, Failure of a General Electric Type AK-2-25 Reactor Trip Breaker was issued November 19, 1985 to all nuclear power reactor facilities designed by Babcock and Wilcox, Combustion Engineering, and holding an operating license or a construction permit.
  - b. IE Information Notice 85-87, Hazards of Interting Atmospheres was issued November 18, 1985 to all nuclear power reactor facilities holding an operating license or a construction permit and fuel facilities.
  - c. IE Information Notice 85-88, Licensee Control of Contracted Services Providing Training was issued November 18, 1985 to all nuclear power reactor facilities holding an operating license or a construction permit.
  - d. IE Information Notice 85-89, Potential Loss of Solid-State Instrumentation Following Failure of Control Room Cooling was issued November 19, 1985 to all nuclear power reactor facilities holding an operating license or a construction permit.
  - e. IE Information Notice 85-90, Use of Sealing Compounds in an Operating System was issued November 19, 1985 to all nuclear power reactor facilities holding an operating license or a construction permit.

4. Other Items

a. Senior Management Meeting

Director, IE, and Director, Division of Inspection Programs, were at the Pilgrim site November 21-22, 1985 to attend a senior management meeting and the exit meeting for the Safety System Functional Inspection conducted at Pilgrim.

b. Senior Management Meeting

Deputy Director, IE, attended a senior management meeting in Region V November 19-20, 1985 and visited the South Texas site November 21-22, 1985.

c. Construction Appraisal Team (CAT) Inspection

Branch Chief, Reactor Construction Programs Branch, Division of Inspection Programs was at the South Texas site November 19-22, 1985 to participate in the final week of the CAT inspection. The exit meeting with the utility was held on November 22, 1985.

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d. Vendor Program

The Vendor Program Branch, Division of Quality Assurance, Vendor, and Technical Training conducted the following inspections this week:

- (1) Valley Steel, St. Louis, MO - allegation inspection relating to improper material substitution.
- (2) Combustion Engineering, Windsor, CT - to review CE actions concerning problems which occurred at Palo Verde when the pressurizer auxiliary spray system was lost and to review previous inspection findings.
- (3) 3M, St. Paul, MN - to review 3M actions concerning recent problems with fire retardant tape that had been applied to cable trays to meet Appendix R requirements.
- (4) Northeast Utilities, Millstone 1 and 2, CT, HQ, and Berlin, CT - to review licensee's equipment qualification program implementation as required by 10 CFR 50.49 for Millstone 1 and 2.
- (5) Wyle Laboratories, Huntsville, AL - to review test results relating to recent EQ testing to TVA and Niagara Mohawk, inspect cables from previous HELB test, verify continued implementation of the QA program, and perform technical review of recent test reports for other customers.
- (6) TVA, Knoxville, Chattanooga, and Daisy, TN - to assist NRR in their EQ audit of Sequoyah nuclear plant.

e. Technical Training

IE, regional, and NRR representatives met in Chattanooga on November 21, 22, 1985 as an Advisory Group to the TTC on technical training. MDTs also sent an observer.

f. Quality Assurance

Representatives of the Quality Assurance Branch, Division of Quality Assurance, Vendor, and Technical Training visited Sargent and Lundy offices in Chicago, IL on November 18-22, 1985 in conjunction with inspection activities associated with implementation of corrective actions resulting from Byron 1 IDR and IDVP, and Clinton IDVP.

g. Seismic Qualification of Relays

A representative of the Engineering and Generic Communications Branch, Division of Emergency Preparedness and Engineering Response attended a meeting in Clearwater, FL on November 19-21, 1985 concerning seismic qualification of relays.

ENCLOSURE D

h. Intergranular Stress Corrosion Cracking (IGSCC) Detection

A representative of the Engineering and Generic Communications Branch, Division of Emergency Preparedness and Engineering Response was at the EPRI NDE Center, Charlotte, NC November 20-22, 1985 to review requalification testing of ITL, GE, and TVA NDE personnel in IGSCC detection with Automated U.T. Systems. Retest results of LMT, CE and NES were also reviewed.

i. Incident Response

- (1) Indian Point 2 personnel visited the NRC Operations Center to discuss event reporting and NRC response to emergencies.
- (2) On November 19, 1985, the Chief, Incident Response Branch, Division of Emergency Preparedness and Engineering Response and staff member attended a meeting with FEMA and NRC to discuss the ground rules for NRC participation in the Shoreham exercise.
- (3) Representatives of the Incident Response Branch, Emergency Preparedness Branch, and Operating Reactor Programs Branch, conducted a joint assessment of Region IV during the Wolf Creek exercise on November 20, 1985. Headquarters participation in this exercise included the Executive Team with Commissioner Asselstine as ET Director, the Reactor Safety Team, Protective Measures Team, Liaison Teams, and the Administrative Support Team.

j. Emergency Preparedness

- (1) Representatives of the Emergency Preparedness Branch (EPB), Division of Emergency Preparedness and Engineering Response participated as observers in exercises at Perry, Three Mile Island, and Wolf Creek, and as a member of the onsite emergency preparedness appraisal at Clinton.
- (2) A representative of EBP was in Cairo, Egypt this week assisting the Egyptian government in developing an onsite and offsite radiation monitoring program for nuclear power plants.

k. Public Meeting

A representative of the Reactor Construction Programs Branch, Division of Inspection Programs attended the public meeting in Bethesda November 19-20, 1985 concerning the Comanche Peak Response Team Program.

ENCLOSURE D

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1. Events Analysis

Representatives of the Events Analysis Branch, Division of Emergency Preparedness and Engineering Response, attended a meeting at Oak Ridge National Laboratory November 20, 1985 to discuss changes to the Nuclear Operations Analysis Center's Part 21/50.55(e) Data Base which was developed for the NRC. The purpose of these changes is to facilitate the use of this data base in tracking of Part 21/50.55(e) reports by NRC Headquarters and Regional Offices.

m. Assessment of Inspection Program

A representative of the Safeguards Materials Program Branch, Division of Inspection Programs was on an assessment of inspection programs with Region I this week in Hartford, CT.

n. Trial Outage Inspection

Representatives of the Reactor Construction Programs Branch, Division of Inspection Programs, and consultants, began the pre-operations readiness inspection part of the trial outage inspection at Fort Calhoun nuclear plant. The trial inspection program is scheduled for completion on December 6, 1985.

## OFFICE OF NUCLEAR REGULATORY RESEARCH

### Items of Interest

Week Ending November 22, 1985

#### Melt-Progression Experiment DF-3 in ACRR

The DF-3 (Debris Formation-3) experiment on core-melt progression under core-uncovery accident conditions has been successfully performed in the ACRR test reactor at Sandia National Laboratories. DF-3 is one in a series of small integral (multi-effect) experiments to provide detailed data on the governing processes in the development of fuel damage, core-melt progression, and hydrogen generation. Results of these experiments are used for the development and validation of models of the governing processes in the mechanistic SCDAP fuel damage and MELPROG core-melt-progression codes. Time-continuous data on the damage processes and on surface temperatures are taken by cinematography of the fuel bundle during the temperature transient to about 2500K produced by steam oxidation of the Zircaloy fuel cladding. The DF-3 experiment contained a PWR Ag-In-Cd control rod in the center of the 9-rod fuel bundle, so that the control-rod failure temperature and aerosol generation could be measured, along with the effects of the control-rod materials on core-melt progression. This program is part of the joint international integrated Severe Fuel Damage and Source-Term research program of the NRC and its ten foreign partners. Half of the funding of this program is furnished by the foreign program partners.

Preliminary results indicate that the DF-3 experiment successfully met its goals. A dense cadmium aerosol rapidly formed upon failure of the control rod at about 1700K. Peak temperatures from thermocouple readings were about 2400K. Information on surface temperatures and control-rod material effects on core melt progression must await detailed examination of the cinematographic film and post-irradiation examination (PIE).

#### NRU REACTOR TEST

Full Length High Temperature test FLHT-2 will be run at Chalk River Canada the week ending December 14, 1985. This is a coolant boilaway test of a twelve rod full length, commercial enrichment fuel assembly. Peak cladding temperatures will approach or exceed 2400K. Hydrogen concentrations will be monitored as the test progresses. The cladding temperature and hydrogen release rate data are needed to evaluate the effectiveness of current accident progression computer models in predicting axial temperature and hydrogen release relationships for full length fuel assemblies.

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ENCLOSURE E

#### Oconee Steam Generator Overfill Transient Calculation

As part of the confirmatory research on the pressurized thermal shock rulemaking, the Idaho National Engineering Laboratory has calculated the thermal hydraulic behavior of a combination main steamline break and steam generator tube rupture. The scenario was defined with assistance from staff working on Unresolved Safety Issues A-47 (Control Systems). It is assumed that the steam generator overfills causing a steamline break and a subsequent rupture of two steam generator tubes. The calculations show that such a scenario would result in downcomer fluid temperatures of 230°F and a pressure of 1600 psia at approximately 2 hours into the transient.

These results have been transmitted to NRR's Generic Issues Branch and RES' Reactor Risk Branch to establish the scenarios probability of occurrence and overall likelihood of providing "through-wall" cracks.

#### Nuclear Plant Data Bank (NPDB) Meeting with the Los Alamos National Laboratory (LANL)

The NPDB is a computer based storage system for reactor geometric and operating data. The purpose of the NPDB is to generate TRAC-PF1 and RELAP5 input decks in response to user mesh cell definitions. LANL, Sciencetech, Incorporated, RES, and NRR staff met in Silver Spring on November 15, 1985 to ensure a coordinated effort with integrated results. Cost reductions will be effected by LANL and Sciencetech by realigning the priorities of tasks in the project schedule.

#### NUREG-0956 MANAGEMENT

The authors of the NUREG-0956 report on source terms met on November 14, 1985 with six former members of the American Physical Society study group to receive their individual comments. Among their most important comments were the following: (1) the science, apart from the numerical techniques, of the numerous source term computer codes should be widely published to permit a broader peer review; (2) the computer codes are not well validated against experimental data, and more should be done to perform and document such comparisons; (3) notwithstanding their shortcomings, the new source term codes should be used for decision making because the present basis for decision making (viz., TID-14844) is wrong; (4) the conclusions in draft NUREG-0956 as stated by the staff are too optimistic; (5) the NRC's two-tier code strategy (detailed mechanistic codes and integrated codes) is appropriate; (6) Uncertainties need more study so that an uncertainty range can be given for all results; (7) an impediment to further progress is the inability to do good containment failure analyses; and (8) the risk perspective in NUREG-0956 should be deleted. The meeting was open to the public.

ENCLOSURE E

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### Meetings on Natural Analogues to HLW Repositories

On November 12 and 13 Dr. Peter Airey of the Australian Atomic Energy Commission (AAEC), Mr. Harold Wollenberg and Dr. John Apps of Lawrence Berkeley Laboratories (LBL), and Dr. E. J. Bonano of Sandia National Laboratories met with RES and NMSS staff to review research to date conducted by the AAEC on natural analogues to high level waste repositories. "Natural analogues" are naturally occurring geologic systems and features that in various ways can be viewed as qualitatively similar to anticipated stages in the lifetime of a geologic repository. The natural analogues being studied by AAEC are three large uranium ore deposits in northern Australia. By comparing calculated results from repository performance models against measurements of species and concentrations of migrating radionuclides from natural analogues, some measure of the predictive capability and accuracy of such models can be realized.

A primary focus of the meeting was on establishing direct communication between the NRC mathematical modeling group at Sandia and the field and laboratory researchers at the AAEC and LBL. The group discussed specific problems and needs that should be addressed in attempting to test models. The data being developed by Dr. Airey's group is being used by them to test Sandia's SWIFT model. Although preliminary, results to date indicate good agreement between model predictions and field observations. Further data developed by the AAEC group will be used by Sandia in their NRC research.

On November 5-7, 1985, Dr. Claudia Hackbarth, RES, participated in a meeting of the "Natural Analogues Working Group" convened under the auspices of the Commission of the European Communities in Brussels, Belgium. The primary objective of this meeting was to stimulate international interaction between modelers and earth scientists, in order to challenge the latter to provide usable data by the former from natural systems for testing of models used to assess expected performance of geologic repositories. The NRC-sponsored research presented by Peter Airey of Australia was the best example of such a successful interaction to date. Several other international projects were discussed, at least one of which the DOE may fund. Specifically, DOE is interested in studying a high-grade uranium ore body exposed by erosion in Brazil, as an analogue to radionuclide transport from a high-level repository in crystalline rock, the probable media for DOE's second HLW geologic repository.

ENCLOSURE E

NOV 22 1985

ITEMS OF INTEREST  
OFFICE OF INTERNATIONAL PROGRAMS  
WEEK ENDING NOVEMBER 22, 1985

Origin-Swaps Involving U.S.-Supplied Material

In late October, staff members from IP, NMSS, and ELD met with representatives from DOE and State, at the request of State, to discuss the implications of "origin-swaps" which have the effect of changing the national origin of the feed components for uranium inventories. The implications of origin-swapping were discussed in a report to the Commission in August 1979 (SECY-79-58A), in which the staff concluded that origin-swaps involve no proliferation concerns. Domestic origin-swaps occur with some regularity but transactions including swaps across national boundaries occur, on the average, only about once each year. Department of State requested a discussion of the origin-swap process because of its concerns that the U.S. might lose control rights, such as retransfer and reprocessing approval rights, over U.S.-supplied materials when swaps occur. State is continuing to review the matter to ensure that U.S. understandings regarding U.S. control rights continue to be shared by our trading partners. Future requests for swaps will continue to be coordinated with the Executive Branch prior to approval.

Foreign Visitors

On Tuesday Director General Howard K. Shapar of the OECD's Nuclear Energy Agency met with all five Commissioners and IP Director James R. Shea to discuss programs of mutual interest.

On Tuesday Mr. John Sidwell, Director of Security of the UK Atomic Energy Authority (UKAEA), and Mr. Wynn Llewelyn, Head of the UKAEA Programs Branch, met representatives of the NMSS Division of Safeguards and the NMSS Division of Fuel Cycle and Material Safety to discuss protection standards and transportation criteria for special nuclear materials.

Foreign Trip Reports

C. T. Alexander, M. A. Dinkins, N. D. McCollough, and H. R. Payne, ORNL  
August 5-September 6, 1985; Visited Japan:

The purpose of the trip was to supervise and perform the installation, termination of sensor cables, and final checkout of Slab Core Test Facility-III ORNL/USNRC-supplied sensors at JAERI-Tokai.



Foreign Trip Reports continued

Nunzio J. Palladino, USNRC Chairman  
September 19-27, 1985; Visited Yugoslavia and Austria:

While in Yugoslavia, the Chairman signed a new Arrangement between NRC and the Yugoslav FCEI, held discussions with senior nuclear safety officials, and visited the Boris Kidric Institute of Nuclear Sciences near Belgrade. In Vienna he attended the IAEA General Conference, participated in a special, two-day scientific program on nuclear safety involving senior regulatory officials from around the world, and signed a renewal of the NRC-Finnish STUK information exchange arrangement.

W. R. Corwin, Development Engineer, ORNL  
October 7-18, 1985; Visited Finland, the FRG, Italy, and France:

The purpose of the trip was to participate in the 11th MPA Seminar on Safety and Reliability of Pressure Components and to obtain information from principal European laboratories involved in reactor pressure vessel cladding and crack arrest research.

R. E. Battle, ORNL Staff Member  
October 16-18, 1985; Visited the UK:

The purpose of the trip was to participate in an on-site AC power system specialist meeting in London.

C. N. Kelber, Associate Director for Scientific Programs, RES  
October 26-November 9, 1985; Visited France and the UK:

Dr. Kelber attended the CABRI project Comité Mixte meeting in Aix-en-Provence, the last meeting in which the NRC will participate. In Grenoble he attended the CEA international seminar on Cathare and Bethsy. In Culcheth, UK, he reviewed the SRD staff's technical views on selected topics including LMFBR safety, plant aging, PRA technology, and advanced computing methods.

Richard E. Cunningham, Director, FCMS, NMSS  
October 28-November 2, 1985; Visited the UK and France:

Mr. Cunningham participated in the ICRP meeting in Eastbourne, UK. The full commission and its four committees met during the session. In Paris he participated in the IEA/NEA Steering Committee Meeting and the jointly sponsored IEA/NEA "Year 2000" Workshop.

Kyo S. Kim, WMBR, RES  
November 14-19, 1985; Visited Japan:

Mr. Kim visited JAERI in Tokai-Mura to discuss the experiments that JAERI is undertaking under an NRC-JAERI Agreement. The discussions with JAERI staff related to (a) flow-through glass leaching experiments, (b) transportation of ATM-5 radioactive glass, (c) slow strain rate tests, and (d) radionuclide migration experiments.

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ENCLOSURE G

OFFICE OF STATE PROGRAMS

ITEMS OF INTEREST

WEEK ENDING NOVEMBER 22, 1985

NARUC Conference

Jerome Saltzman attended the meeting of the Committee on Electricity of the National Association of Regulatory Utility Commissions (NARUC) in New York City on November 18. High level waste management, decommissioning and Price-Anderson were included among the subjects discussed by the NARUC Committee.

Meeting With Nuclear Insurers

Jerome Saltzman met with principal officials of the American Nuclear Insurers (ANI) in their offices in Farmington, Connecticut on November 19. Developments in Price-Anderson legislation, the general state of the casualty insurance industry, insurance views on NRC property insurance and cleanup funding rulemaking and other matters of continuing interest between the NRC and the nuclear insurance pools were discussed.

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ENCLOSURE H

OFFICE FOR ANALYSIS AND EVALUATION OF OPERATIONAL DATA

ITEM OF INTEREST

WEEK ENDING NOVEMBER 22, 1985

At about 5:00am on November 21, 1985, San Onofre Unit 1 experienced a loss of an auxiliary transformer. This resulted in a loss of a vital bus, and the control room lighting was lost. Per procedures, the reactor was manually scrammed which resulted in a short-term (approximately four minutes) loss of all AC power. A sizeable, unisolable leak was then identified in the feedwater system which is used to maintain steam generator levels, and other failures were experienced in the plant equipment. The plant is now in cold shutdown. There were no releases and adequate core cooling was maintained at all times.

Because of the nature and complexity of this event, the EDO approved the sending of a five member Incident Investigation Team (IIT) of technical experts to the site to: (a) fact find as to what happened; (b) identify the probable cause as to why it happened; and (c) make appropriate findings and conclusions which would form the basis for any necessary follow-on actions.

The team is comprised of: The team leader, Thomas Martin, Director of the Division of Engineering and Technical Programs, Region I; Wayne Lanning, Chief, Incident Investigation Staff, AEOD; Steven Showe, Chief, PWR Training Branch, IE - Chattanooga; William Kennedy, Safety Operational Engineer, Division of Human Factors, NRR; and Matthew Chiramal, Chief, Engineering Section, AEOD. The team was selected on the basis of their knowledge and experience in the fields of reactor systems, reactor operations, human factors, and power distribution systems. Team members have no direct involvement with San Onofre Unit 1. The team started the onsite investigation on November 22.

The licensee agreed to a request by Jack Martin, Regional Administrator, to preserve the equipment in an "as-found" state until the licensee and the NRC team have had an opportunity to evaluate the event. The licensee has also agreed to maintain Unit 1 in a shutdown condition until concurrence is received from the NRC to return to power.

The IIT report will constitute the single NRC fact finding investigation report. It is expected that the team's report will be issued within 45 days from now.

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ENCLOSURE J

## REGION 1

### ENCLOSURE

#### TMI-1 STATUS REPORT FOR THE PERIOD NOVEMBER 15-22, 1985

##### 1. Plant Status

As of 8:00 a.m. on November 22, 1985, TMI-1 was at 48% power.

##### 2. Test Program Status

The licensee's planned test program and current status for restart of TMI-1 are shown on the attached Figure 1. As of 1:30 a.m. on November 23, 1985, the licensee will complete the required 30 days of operation at the 48% power testing plateau. Upon receipt of authorization from the Region I Administrator, the licensee plans to slowly increase power to the 75% testing plateau. Initial testing at the 75% power plateau will include a turbine runback to 60% of rated power and return to the 75% plateau. As discussed in last week's status report, the licensee plans to remain at 75% power beyond the required 30 days to delay operation at 100% power until late December 1985. This would defer the planned trip from 100% power and subsequent maintenance/management review until after the holiday season.

##### 3. Facility Operations Summary

Steady-state operation at 48% power continued throughout the period, except during an inadvertent power excursion to 53% as described below.

##### 4. Items of Special Interest

###### NRC Notifications

As has been the case in prior periods, there were no events that required notification of NRC by the licensee. There are, however, several items of interest and they are discussed below.

###### Inadvertent Power Excursion

On November 19, 1985, power was inadvertently raised from 48% to 53% of rated power as a result of an instrument and control technician accidentally raising the setting on the main turbine generator unit load demand module of the integrated control system (ICS). The technician was in the process of replacing a meter located directly above the ICS module; and, in reaching over the control room console, his belt buckle caught on the module toggle switch causing power to increase. The shift supervisor immediately recognized that the plant was in a transient and directed that manual control be taken off the turbine generator. Power was returned to 48% of rated power within five minutes of the initiation of the transient.

### Emergency Drill and Exercise

The licensee conducted an annual emergency exercise on November 20, 1985. The TMI-1 Restart Staff, in conjunction with NRC TMI-2 Program Office personnel, provided the initial NRC response during the exercise with subsequent participation and assessment by NRC personnel from Region I. A post-exercise critique was conducted by the licensee at the licensee's media center on November 21, 1985. The NRC concluded that the licensee's emergency response was considered adequate to protect the public health and safety but several open items were identified. The detailed findings of the exercise are expected to be issued in four to six weeks.

### New Fuel Shipments

On November 19, 1985, the licensee received the last of nine shipments of new fuel for use during future refuelings through 1988. This shipment included ten fuel assemblies which brought the total new fuel assemblies received to 103.

### Meeting with Susquehanna Valley Alliance

On the evening of November 21, 1985, the Director, TMI-1 Restart Staff, met with about fifteen members of the Susquehanna Valley Alliance near Lancaster, Pennsylvania. Following a discussion of the organization and functions of the staff, the Director responded to various questions from the group. SVA members expressed their general and specific concerns regarding the safety of nuclear power plants and their particular concerns regarding both TMI-1 and TMI-2. SVA plans to formalize a request for additional offsite monitoring by NRC. SVA members stated that information in past status reports was generally useful to them and they wanted to continue receiving these reports. They expressed disappointment regarding the time it takes to receive the reports.

## 5. TMI-1 Restart Staff Status During the Period

The TMI-1 Restart Staff continued 16-hour shift coverage during the period. The shifts were manned by NRC personnel from Regions II and IV and by a reactor operator examiner from EG&G Idaho, Inc., an NRC contractor. A Region I project engineer, a reactor engineer, and a startup inspector were on site during portions of the period to augment the resident inspection staff.

The staff's inspection plan for this period covered the primary functional areas of operations, maintenance, surveillance, and restart testing with the division of responsibility as noted in previous status reports. The staff continued to evaluate the performance of licensee personnel and the plant to determine whether the licensee should be permitted to proceed beyond the next hold point, which will be reached after 30 days of operation at 48% power as discussed previously in Section 2.

ENCLOSURE L

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Contact from the press and public was minimal throughout the period with the exception of the media coverage of the emergency exercise. We continued to maintain daily contact with representatives of the Commonwealth of Pennsylvania during this period.

The TMI-1 Restart Staff issued one daily highlight report for the Executive Director for Operations on November 20, 1985, regarding the inadvertent increase to 53% of rated power that occurred on November 19. The sixth weekly status report for the period November 8-15, 1985, was issued on November 18, 1985.

6. TMI-1 Restart Staff Composition During Period

The TMI-1 Restart Staff was comprised of the following personnel during the period:

- W. F. Kane, TMI-1 Restart Director
- R. J. Conte, TMI-1 Restart Manager
- D. R. Haverkamp, Technical Assistant
- F. I. Young, Resident Inspector, TMI-1
- W. H. Baunack, Project Engineer
- R. J. Urban, Reactor Engineer
- N. J. Blumberg, Startup Inspector
- W. D. Johnson, Shift Inspector, Region IV
- M. A. King, Shift Inspector, EG&G Idaho, Inc.
- T. L. Morgan, Shift Inspector, EG&G Idaho, Inc.
- W. T. Orders, Shift Inspector, Region II
- C. P. Hix, Secretary
- L. M. Prough, Secretary

ENCLOSURE L

NOV 22 1985



REGION III  
STATUS REPORT

DAVIS-BESSE LOSS OF FEEDWATER EVENT  
NOVEMBER 21, 1985

Plant Status

The plant remains in cold shutdown. The circulating water canal is drained. Decay heat loop No. 2 is drained and out of service for maintenance.

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ENCLOSURE L

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Region III STAFF ACTIONS AS ASSIGNED BY W. DIRCKS MEMO OF AUGUST 5, 1985

1. Item: Adequacy of the licensee's management and maintenance activities

<u>ACTION</u>	<u>STATUS/COMMENTS</u>
(b) Evaluate and take action on the licensee's response to findings concerning management practices (e.g., control of maintenance programs and post-trip reviews).	Region III is observing maintenance activities and evaluating LER's, DVR's and other items as they relate to the control of maintenance. A maintenance survey team inspection conducted on September 16-20, 1985 confirmed previous concerns identified by Region III. An IE inspection team will assess maintenance and management practices prior to restart.

6. Item: Reliability of the AFW containment isolation valves and other safety-related valves

<u>ACTION</u>	<u>STATUS/COMMENTS</u>
(a) Monitor the licensee's troubleshooting activities	Troubleshooting activities related to containment isolation ++ valves AF599 and AF608 are complete. Region III specialists are evaluating and monitoring MOVATS testing on other safety-related motor operated valves. Of a total of 167 valves, 101 have been completed. 17 valves will require retest.
(e) Determine that the procedures for adjustments of the AFW isolation valves such as torque switch bypass switches are clear and proper, and that associated training programs are adequate. Confirm that adjustment settings are consistent with plant procedures.	Limiter torque operators for valves AF599 and AF608 have been adjusted and the valves have been tested under differential pressure conditions. Procedure reviews and evaluations of the training program will be completed prior to restart. confirmatory testing will be performed during startup.

ENCLOSURE 1

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7. Item: Adequacy of emergency notifications

ACTION

- (a) Verify the adequacy of the licensee's procedures and training for the reporting of events to the NRC Operations Center.

STATUS/COMMENTS

Investigation of the adequacy of the licensee's procedures and training for the reporting of events to the NRC Operations Center has been completed. One violation of NRC requirements was found. Inspection results are documented in Inspection Reports 85023 and 85034. IE Information Notice 85-80 was issued dealing with timely declaration of Emergency Class, implementation of an Emergency plan, and Emergency Notifications based in part on the findings and conclusions derived from the Davis Besse June 9, 1985 event.

8. Item: Reliability of AFW pump turbines

ACTION

- (a) Monitor the licensee's troubleshooting activities including possible hot plant operation to confirm failure mode.
- (d) Verify that the AFW system has been adequately tested to confirm system configuration involved with design basis events.
- (e) Review the implementation of the operator training program to assure proper operator actions, such as resetting of trip throttle valve.

STATUS/COMMENTS

Troubleshooting activities are complete. Region III will monitor confirmatory testing during plant startup as part of startup test activities.

Results of test review group meetings have culminated in the development of a charter outlining test review group responsibilities and activities. AFW testing will be included as part of the testing review team effort.

The licensee is developing a training program on resetting of the trip throttle valve. This training will include resetting of trip mechanism at operating conditions, therefore, the training will be completed during plant restart.

ENCLOSURE 1

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9. Item: Reliability of the PORV

ACTION

- (a) Monitor the licensee's troubleshooting activities

STATUS/COMMENTS

Troubleshooting activities have been completed. Confirmatory ++ testing will be conducted at operating temperature and pressure. Testing of an equivalent valve indicated a lower flow condition than expected. Flow results from Crosby (valve manufacturer) testing were higher than the flow results from the Marshall Steam Station test facility. All test data indicated flow was less than expected. Additional testing of a modified PORV completed at the Marshall Steam Station facility on November 15, 1985, demonstrated an acceptable flow rate.

12. Item: Resolution of equipment deficiencies

ACTION

- (a) Monitor the licensee's troubleshooting activities

STATUS/COMMENTS

All the Region III activities relative to troubleshooting/root cause activities have been completed and are documented in Inspection Reports 85-021, 85-022 and 85-025.\*

\*Inspection Report 85025 is in draft and will be issued in approximately 1 week.

ENCLOSURE 1

### Other Activities

Installation of the new electric motor driven startup feedwater pump is complete. Testing of the motor (uncoupled from the pump) was completed on November 14, 1985. Calibration of the associated instrumentation is in progress. ++

Evaluations and inspections of safety system piping supports are continuing. ++ Nonconformance Reports (NCRs) have been written against 2119 of 2314 pipe supports inspected so far. Rework is required on 154 of the 797 supports that have had NCRs dispositioned (earlier status reports had reported the number of NCRs in an interim stage of the disposition process) by the licensee's staff. Rework has been completed on 44 supports.

MOVATS testing continues on the 167 safety-related motor-operated valves onsite. ++ Of the 101 valves completed, 17 will require retesting due to maintenance activities. The licensee is repairing and testing valve motor operators continuously with three overlapping ten-hour shifts.

The NRC test review team continues to provide weekly coverage of licensee testing activities. ++ Presently, there are very few tests ready for performance. The review team believes that the testing schedule will accelerate by the first week in December and in the meantime is focusing its attentions on the review of the individual test procedures. The licensee's schedules presently indicate that the test program will be complete by February 2, 1986. The test review group has assessed the licensee's schedule and concluded that completion in early March 1986 is more realistic.

During the review of the Control Room Emergency Ventilation System as part of the SRTP, the licensee determined that existing system tests did not adequately address the operability of the system cooling function. Region III is evaluating the significance of this matter.

ENCLOSURE L

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ITEMS ADDRESSED BY THE COMMISSION - WEEK ENDING NOVEMBER 22, 1985

A. STAFF REQUIREMENTS - YEAR END PROGRAM REVIEW, 10:00 A.M., THURSDAY, NOVEMBER 7, 1985, COMMISSIONERS' CONFERENCE ROOM, D.C. OFFICE (OPEN TO PUBLIC ATTENDANCE)

Memo SECY to W. J. Dircks dated 11/20/85

The Commission met with the staff to receive the end-of-year status report on NRC expenditures, program goals and accomplishments.

The Commission requested that staff provide a list of high priority items, including those discussed at the meeting, which they believe should receive attention in the next budget cycle.

(EDO)

(SECY Suspense: 1/3/86)

The Commission requested a staff paper on the materials licensing backlog including how long renewals have been pending.

(NMSS)

(SECY Suspense: 1/3/86)

Chairman Palladino's interest in IE's Outage Program resulted in staff plans to brief the Commission within the next few months.

(IE)

(SECY Suspense: 2/86)

Commissioners Asselstine and Bernthal requested a report on research projects which for budgetary reasons could not be accomplished. The report should include the impact of cancelled or deferred research projects.

(RES)

(SECY Suspense: 12/10/85)

Commissioner Zech requested the staff to consider the need for utilities with plants that are either closed or at which construction has been halted to maintain operational, construction and maintenance records in the event the utility contemplates reactivation or sale of the plant or plant equipment to another utility. The staff is to also examine the method by which the NRC could institute guidance or requirements in this area.

(NRR)

(SECY Suspense: 1/10/86)

Although Commissioner Roberts agrees that the maintenance of records would be sound management on the part of the utilities, he believes that the NRC lacks jurisdiction to require licensees to maintain the pertinent records and that it would be inappropriate for the NRC to involve itself in such utility management decisions.

ENCLOSURE 0

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B. STAFF REQUIREMENTS - DISCUSSION OF ENVIRONMENTAL QUALIFICATION EXEMPTION REQUEST - FORT ST. VRAIN, 2:00 P.M., TUESDAY, NOVEMBER 19, 1985, COMMISSIONERS' CONFERENCE ROOM, D.C. OFFICE (OPEN TO PUBLIC ATTENDANCE) Memo SECY to W. J. Dircks dated 11/21/85

The Commission met with staff and representatives of Public Service of Colorado to discuss the environmental qualification (EQ) extension of the November 30, 1985 deadline for Fort St. Vrain.

The following persons participated in the meeting:

R.F. Walker

Chairman of the Board, President, and CEO  
Public Service of Colorado

O.R. Lee

Vice President Electric Production  
Public Service of Colorado

Chairman Palladino directed the staff to provide to the Commission by 12 noon, Friday, November 22, 1985 staff's recommendation on Public Service of Colorado's extension request.  
(NRR) (SECY Suspense: 11/22/85)

C. STAFF REQUIREMENTS - AFFIRMATION/DICUSSION AND VOTE, 3:30 P.M., THURSDAY, NOVEMBER 14, 1985, COMMISSIONERS' CONFERENCE ROOM, D.C. OFFICE (OPEN TO PUBLIC ATTENDANCE) Memo SECY to W. Dircks and H. H. E. Plaine dated 11/21/85

I. SECY-85-319A - Order Regarding Environmental Qualification Extension of the November 30, 1985 Deadline for Nine Mile Point Nuclear Power Station, Unit 1

The Commission, by a 5-0 vote, approved an order granting an extension in the November 30, 1985 equipment qualification deadline to the next outage of sufficient duration to install the equipment but no later than March 30, 1986.

(Subsequently, on November 15, 1985 the Secretary signed the Order.)

II. SECY-85-321A - Order Regarding Environmental Qualification Extension of the November 30, 1985 Deadline for Brunswick Steam Electric Plant, Unit 2

The Commission, by a 4-1 vote (Commissioner Roberts disapproving) approved an order denying a request by Carolina Power and Light Company for an extension of the November 30, 1985 equipment qualification deadline for Brunswick Unit 2.

C. CONTINUED

Commissioner Zech noted that in his view the circumstances in this case may be a factor in mitigating any civil penalties.

(Subsequently, on November 15, 1985 the Secretary signed the Order.)

III. SECY-85-322 - Final Amendments to 10 CFR 50.12, "Specific Exemptions"

The Commission (with Chairman Palladino and Commissioners Roberts, Bernthal, and Zech agreeing) approved for publication final revisions to the criteria set forth in 10 CFR 50.12(a) for granting exemptions from the requirements of 10 CFR Part 50 with modifications as indicated on the attached pages 33, 51, 60, and 65. Commissioner Asselstine approved in part and disapproved in part. His disapproval is to the addition to page 33 and the failure to include his proposed changes to pages 56, 60, and 66.

You should revise the rule as indicated and return it for signature and publication in the Federal Register.

(EDO)

(SECY Suspense: 12/9/85)

Attachments: (Not attached)  
As stated

D. STAFF REQUIREMENTS - CONTINUATION OF 9/11 DISCUSSION OF PROPOSED STATION BLACKOUT RULE, 2:00 P.M., THURSDAY, NOVEMBER 14, 1985, COMMISSIONERS' CONFERENCE ROOM, D.C. OFFICE (OPEN TO PUBLIC ATTENDANCE) Memo SECY to W. J. Dircks dated 11/22/85

The Commission met with staff to discuss the "Proposed Station Blackout Rule" (SECY-85-163).

Chairman Palladino and Commissioner Zech requested staff to inform the Commission as to whether or not the Committee to Review Generic Requirements (CRGR) has significant technical reservations regarding the proposed rule.

~~##4444~~ (DEDROGR) (EDO Suspense: 12/6/85)

Chairman Palladino requested that Commissioners provide the Secretariat with votes on SECY-85-163.

(OCM)

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NRR MEETING NOTICES\*

NOVEMBER 22, 1985

<u>DATE/TIME</u>	<u>DOCKET NUMBER</u>	<u>LOCATION</u>	<u>PURPOSE</u>	<u>APPLICANT/ ATTENDEES</u>	<u>NRR CONTACT</u>
11/25/85 9:00 am	50-244	Giinna Site Ontario, NY	To discuss proposed RG&E management organization	Rochester Gas & Electric	J. Clifford
11/26/85 9:00 am	50-344	Trojan Site Columbia Cty., Ore.	To discuss requested exemp- tions of Section III.G of App. R (Fire Protection) and to tour affective 5 areas	Portland General Elec.	E. Tourigny
11/26/85 9:00 am	50-346	B&W Company Off. Ladow 220 Bethesda	Discuss modifications to SFAS to assure compliance with IEEE 279	Toledo Edison	A. De Agazio
11/26/85 10:30 am	50-206	P-114 Bethesda	To discuss the proposed stress- strain correlation for large bore piping seismic analysis (San Onofre 1)	Southern Calif. Edison Impell Corp.	R. Dudley
12/3/85 10:00 am	50-272 50-311	P-442 Bethesda	To discuss RVLIS tech specs and commitment regarding core exit thermocouples	Public Serv. Elec. & Gas Co.	D. Fischer
12/3/85 9:30 am	50-259/260/ 296	P-110 Bethesda	To brief staff reviewers on revised Appendix R plan for Browns Ferry	TVA	W. Long
12/3/85 1:30 pm		P-422 Bethesda	Quarterly Meeting of EPRI Light Water Reactor Steering Committee and NRC Policy Committee to assess progress and provide guidance for the EPRI Advanced LWR Program	EPRI AIF	D. Moran

\* Copies of summaries of these meetings will be made publicly available and placed in the respective docket file(s) in the NRC and local public document rooms

ENCLOSURE

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NRR MEETING NOTICES\*

<u>DATE/TIME</u>	<u>DOCKET NUMBER</u>	<u>LOCATION</u>	<u>PURPOSE</u>	<u>APPLICANT/ ATTENDEES</u>	<u>NRR CONTACT</u>
12/3/85 9:00 am		B&W Offices 7910 Woodmont Bethesda	To discuss issues of current interest between the B&W Owners Group Analysis Committee and the NRC Staff	B&W Owners Group	W. Paulson
12/4/85 9:00 am	50-247	P-110 Bethesda	To discuss status of detailed control room design review	Consolidated Edison	M. Slosson
12/4/85 9:00 am	50-315 50-316	P-422 Bethesda	To discuss steam generator tube leaks, tube plugging & corrosion rate for surveillance requirements in Unit 2	Indiana & Michigan Elec. Co.	D. Wigginton
12/5/85 9:00 am	50-275 50-323	MNBB-6507 Bethesda	To discuss proposed spent fuel pool reracking	Pacific Gas & Elec.	H. Schierling
12/5/85 9:00 am	50-315 50-316	P-422 Bethesda	To discuss hydrogen control inside containment and efforts to meet 10 CFR 50.44 for D.C. Cook 1&2	Indiana & Michigan Elec. Co.	D. Wigginton

Copies of summaries of these meetings will be made publicly available and placed in the respective docket file(s) in the NRC and local public document rooms.

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NMSS MEETING NOTICES

FOR WEEK ENDING: 4/22/85

Division of Fuel Cycle and Material Safety

<u>DATE/TIME</u>	<u>DOCKET NUMBER</u>	<u>LOCATION</u>	<u>PURPOSE</u>	<u>ATTENDEES/ APPLICANT</u>	<u>NRC CONTACT</u>
12/4/85 8:30-5:00		Baltimore, MD	Presentation at Johns Hopkins University - Seminar on Low-Level Waste - Under the auspices of CARER.	R. Cunningham (FC)	Cunningham
12/6-7/85	40-6940	Reading, PA	Accompany ORAU on confirmatory survey of KBI Reading facility.	D. Cool (FC)	Cool
12/10-12/85	40-6563	St. Louis, MO	Mallinckrodt - accompany Oak Ridge Environmental Assessment Team on site visit and to answer questions.	M. Horn (FC) E. Shum (FC)	Shum

Division of Waste Management

December 3-4	NRC, Willste Bldg. Silver Spring, MD	Generic Seismo-Tectonics Meeting	MBlackford DOE staff	SCoplan
December 3-4	BWIP, Richland, WA	BWIP ES Design	JLinehan JBuckley DOE Staff	JLinehan
December 4-5	DOE, HQ Washington, DC	Generic QA Meeting	JKennedy DOE staff	JKennedy

Division of Safeguards

None

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November 22, 1985

RII MEETING NOTICE

<u>DATE/TIME</u>	<u>DOCKET NUMBER</u>	<u>LOCATION</u>	<u>PURPOSE</u>	<u>ATTENDEES/ APPLICANT</u>	<u>NRC CONTACT</u>
11/25/85 12:30 pm		RII Office	Meeting with Georgia Power Company representa- tives to discuss Vogtle Readiness Review Module Submittals	Licensee, NRR, IE and selected RII personnel	Walker
1:30 pm		RII Office	Meeting with FEMA to discuss results of the Browns Ferry exercise	FEMA representatives and selected RII personnel	Stohr
11/16/85 9:00 am		RII Office	First SALP Board Meeting B&W NNFD Facility	Representatives from NMSS, IE, EDO and selected RII staff members	Stohr

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REGION III MEETING NOTICES

WEEK ENDING: November 22, 1985

DATE/TIME	DOCKET NUMBER	LOCATION	PURPOSE	ATTENDEES/ APPLICANT	NRC CONTACT
12/14/85	50-373 50-374	Glen Ellyn, IL	Enf. Conf. LaSalle	Commonwealth Edison A.B. Davis & staff	A.B. Davis
12/15/85 9:15 a.m.	50-155	Glen Ellyn, IL	Enf. Conf. Big Rock	Consumers Power A.B. Davis & staff	A.B. Davis

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