

June 24, 1981

For: The Commissioners
From: T. A. Rehm, Assistant for Operations, Office of the EDO
Subject: WEEKLY INFORMATION REPORT - WEEK ENDING JUNE 19, 1981

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

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

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

*No input this week.

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

8107020084

SUMMARY OF WEEKLY INFORMATION REPORT

Week Ending June 19, 1981

San Onofre Unit 1

San Onofre commenced power operation on June 15, 1981, following an outage for refueling and steam generator repair.

Draft NRC/EPA Memorandum of Understanding on Control of Areas Contaminated with Radioactive Materials

On June 11, 1981, OMB, NRC, EPA and DOE representatives met to discuss the draft NRC/EPA Memorandum of Understanding (MOU) on control of areas contaminated with radioactive materials. General staff agreement has been reached on all sections of the MOU except one which discusses federal cleanup capability. The remaining issue concerns what should be said about the availability of funds from the Superfund Act.

Standard Review Plan (SRP) for Reviewing Radiological Contingency Plans for Fuel Cycle and Materials Facilities

Staff has completed above SRP. Submittal of radiological contingency plans are required by July 1, August 31, and October 29, 1981, respectively, for three separate groups of licensees.

Final Rule on Fire Protection for Operating Nuclear Power Plants, 10 CFR 50.48

On June 12, 1981 the Commission issued a Memorandum and Order denying a joint motion of several licensees to stay three items in the final rule pending judicial review.

St. Lucie Nuclear Power Plant, Unit 2

On June 16, 1981 the presiding ASLB issued an Order dismissing this OL proceeding as a result of the withdrawal of the intervenor in the proceeding.

FY 1983 and FY 1984 Budgets

The EDO reviewed the budget and made his initial mark.

OFFICE OF ADMINISTRATION

Week Ending June 19, 1981

ADMINISTRATION OF THE FREEDOM OF INFORMATION ACT

STATUS OF REQUESTS

	<u>Initial Request</u>	<u>Appeal of Initial Decision</u>
Received	278	9
Granted	202	1
Denied	32	6
Pending	44	2

ACTIONS THIS WEEK

Received

Walt Brennan,
Nixon and Company
(81-226)

Requests, on behalf of General Electric, all recorded incidents of radiation exposure to employees of The Crane Company and the results of any investigations.

Barbara Stamiris
(81-227)

Requests a copy of a document proposing terms of a compromise or agreement between the NRC and Consumers Power Company regarding quality assurance issues in the Midland soil settlement hearing.

Carter K. Combe,
Hale Russell & Gray
(81-228)

Requests nine categories of documents regarding the Rancho Seco nuclear power plant operated by the Sacramento Municipal Utility District.

John K. Bates,
Argonne National Laboratory
(81-229)

Requests a copy of the technical proposals for NRC-04-78-250, "Evaluation of Bulk Properties of Radioactive Waste Glasses and Ceramics Containment to Determine Long Term Stability" and NRC-04-78-252, "Evaluation of Relative Surface Properties of Alternative Nuclear Waste Encapsulants."

Paulann Caplovitz,
Department of Law,
State of New York
(81-230)

Requests six categories of documents regarding the \$210,000 civil penalty against Consolidated Edison Company in the Matter of Consolidated Edison Company of New York, Inc. (Indian Point Nuclear Power Station, Unit 2).

-E. B. Rosenberg,
Franklin Research Center
(81-231)

Requests a copy of the technical and business proposals submitted to the NRC by MUS, Informatics and Rehab, Inc. under Contract NRC-10-78-580 entitled "The Implementation and Operation of the Nuclear Regulatory Commission Document Control System."

CONTACT: J. M. Felton
492-7211

ENCLOSURE A

Received, Cont'd

(NRC employee)
(81-232)

Requests a copy of her Personnel Performance Appraisal prepared by two named individuals.

Thomas G. McWeeney
(81-233)

Requests information concerning the impact of the FOIA on the administration and the operation of the federal government and copies of the FOIA Annual Report for the years 1975 to 1980.

Jack Medkiff,
The Equitable Life
Assurance Society of
the United States
(81-234)

Requests a list of personnel in the State of New Jersey to include their name, GS level, salary, position title and location.

Kathleen M. Rowe,
Gray & Rogers Inc.
(81-235)

Requests a list of all companies licensed in the U.S. to package or dispose of radioactive wastes as a service to hospitals, laboratories and universities.

Mark A. Brown,
Carlton, Fields, Ward,
Emmanuel, Smith & Cutler,
P.A.
(81-236)

Requests five categories of information regarding the Crystal River nuclear power plant and Babcock & Wilcox Company.

Eugene Rosolie,
Coalition for
Safe Power
(81-A-9-81-199)

APPEAL TO THE EDO concerning a lack of response to a request for seven categories of documents regarding the Washington Public Power Supply System.

Granted

Kay E. Bustani
(81-121)

In response to a request for clarifications, alternatives, and exceptions taken to ANSI Standards for the quality assurance program pertaining to specified nuclear power plants, made available records for 28 utilities for which clarifications, alternatives, or exceptions were taken.

Lindsay Audin
(81-160)

In response to a request for three categories of records pertaining to spent fuel casks, made available eight documents. Informed the requester 18 additional documents subject to this request are already available at the PDR.

Granted, Cont'd

R. B. Borsum,
Babcock & Wilcox
(81-178)

In response to a request for a copy of SECY-80-186, made available this document.

Joseph C. Vierra,
Electronic Data
Systems Corporation
(81-203)

In response to a request for records generated under Contract NRC-04-77-065, made available this information.

(An individual requesting
information about herself)
(81-208)

In response to a request for information on herself in the NRC, informed the requester the NRC has no records on her.

David G. Hunt,
Amersham Corporation
(81-210)

In response to a request for information on Americium-241 alpha foil radiation sources manufactured by the Monsanto Research Corporation of Dayton, Ohio, made available two documents.

E. B. Rosenberg,
Franklin Research Center
(81-211)

In response to a request for two categories of information pertaining to Contract No. NRC-10-78-580, informed the requester this information is already available at the PDR.

Ann Spanel
(81-217)

In response to a request for all NRC sponsored studies of incidences of cancer near nuclear power plants and uranium mines, made available two documents. Informed the requester the NRC has no jurisdiction over uranium mines.

Denied

None

DIVISION OF CONTRACTS

Week Ending June 20, 1981

PROPOSALS UNDER EVALUATION

1. RFP No. RS-NMS-81-026
Title - Benchmarking of Computer Codes and Licensing Assistance
Description - Services to benchmark computer codes for supporting regulations and for performing reviews of proposed nuclear waste management systems, evaluate the codes, and provide licensing analysis using these codes are required.
Period of Performance - Five years
Sponsor - Office of Nuclear Material Safety and Safeguards
Status - Best and Final offers are due June 29, 1981.

CONTRACTS AWARDED

1. NRC-05-81-256
Title - Intrinsic Germanium Detector System
Description - The system will be utilized for routine spectral analyses in the regional laboratory and will also serve as backup or replacement detector for the mobile laboratory.
Period of Performance - 90 days
Sponsor - Office of Inspection and Enforcement
Status - A fixed priced contract in the amount of \$20,635.00 was awarded on June 17, 1981, to Princeton Gamma Tech, Princeton, NJ.

RFP'S ISSUED

1. RFP RS-ADM-82-356
Title - Operation and Maintenance of the NRC Document Control System (DCS)
Description - The contractor shall provide all necessary personnel, supplies and services to maintain and operate the NRC Document Control System. This effort shall consist of the following tasks:
Title List System; Catalog Index and Retrieval System; System for Abstracting NRC Documents; Microform System; Report Generation; Special Document Services; User Training and Assistance; System Statistics; Program Planning and Progress Reporting; Software Modification; Documentation, Procedures and Records; DCS Maintenance; and Facility Administration.
Period of Performance - Two (2) years
Sponsor - Office of Administration
Status - RFP Issued June 15, 1981. Proposals are due July 13, 1981.

FINANCIAL ASSISTANCE

1. NRC-G-04-81-008

Title - Geomorphic Aspects of Nuclear Waste Disposal

Description - Support provided for research into the potential for and methods of long term prediction of erosional and depositional changes of landscape. Results of the research will be of use to the NRC in assessing long-term topographic stability of sites for disposal of uranium mill tailings and low and high level waste sites.

Period of Performance - One year

Sponsor - Office of Nuclear Regulatory Research

Status - Grant awarded to Colorado State University in the amount of \$39,505.00 effective June 15, 1981.

CONTRACTS CLOSED OUT

(All administrative action completed and final payment made)

<u>Contract No.</u>	<u>Contractor</u>	<u>Close-Out Date</u>
NRC-01-78-018	Mt. Sinai School of Medicine	6/17/81
AT(49-24)-0363	Nunn, Snyder & Association	6/17/81
NRC-04-77-147	SRI	6/15/81
NRC-03-78-146	Peter M. Guttman	6/16/81
NRC-03-79-119	John M. Kuhlman	6/16/81
NRC-03-76-271	W. M. Lewis	6/16/81

OFFICE OF NUCLEAR REACTOR REGULATION

WEEK ENDING JUNE 18, 1981

SAN ONOFRE NUCLEAR GENERATING STATION, UNIT 1

San Onofre Unit 1 commenced its 8th cycle of power operation on June 15, 1981. The outage for refueling and steam generator repair commenced on April 9, 1980.

Actions included in this extended outage were: (1) fuel loading for an 18 month power cycle (2) steam generator repair (discussed below), (3) Inservice Inspection, (4) Scheduled refueling interval equipment overhauls, inspection and surveillance, (5) Disassembly and inspection of High Pressure and both Low Pressure Turbines, (6) Containment Integrated Leak Rate Test, and (7) Replacement of RHR pump couplings.

San Onofre Unit 1 was shut down on April 8, 1980, two days prior to a scheduled maintenance and refueling outage, due to increasing primary-to-secondary leakage. Initial steam generator diagnostics, including eddy current inspections and tube pulling and metallographic examinations indicated that significant intergranular attack (IGA) was occurring at the top of the tubesheet in the inlet side tubing of all three steam generators. Attack was initiated from the secondary side of the tubes. In July, 1980, SCE advised the NRC that development and implementation of a steam generator tube bundle repair using metallurgically joined sleeves had been undertaken. In February, 1981, when difficulties were being encountered with the metallurgically joined sleeve, an alternate design using a mechanical joint was developed. Ultimately, approximately 500 metallurgically joined sleeves and 6000 mechanical sleeves were installed. SCE has elected to reduce RCS temperature approximately 25°F in an attempt to reduce the rate of corrosion attack on the tubing.

Other plant modifications based on NRC requirements included: (1) TMI mods, (2) Fire Protection mods, (3) refurbishing the recirculation flow control valves and replacing terminal blocks with in-line splices for Environmental Qualification, (4) the anchorage of safety related electrical equipment was reanalyzed and modified to ensure seismic withstand capability, (5) installing flow totalizer to monitor possible service water leaks inside containment per IE Bulletin 80-24, and (6) surveillance of safety injection system check valves per NRC order of April 20, 1981.

A steam generator inspection outage is presently scheduled after 6 months of full power operation. The next refueling outage is scheduled after 18 months of full power operation.

SPECIAL MEETING

There will be a meeting with INPO on Systems Review and Evaluation Criteria - Thursday, June 18, 1981, 9:30 A.M. - 4:00 P.M. Bob Lord and others of INPO will meet with Voss Moore to discuss:

- (1) INPO's pilot systems review with TVA.
- (2) Rating systems for HEDs.
- (3) Control room performance criteria.

NRC TMI PROGRAM OFFICE WEEKLY STATUS REPORT

Week of June 7 -13, 1981

Plant Status

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

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

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

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

Major Parameters (as of 0400, June 12, 1981) (approximate values)

Average Incore Thermocouples: 117°F
Maximum Incore Thermocouple: 143°F

RCS Loop Temperatures:

	A	B
Hot Leg	116°F	119°F
Cold Leg (1)	68°F	71°F
(2)	69°F	69°F

RCS Pressure: 97 psig

Reactor Building: Temperature: 71°F
Water level: Elevation 290.8 ft. (8.3 ft. from floor)
via penetration 401 manometer
Pressure: -0.4 psig
Concentration: 1.8×10^{-6} uCi/ml Kr-85 (Sample taken 6/8/81)

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 June 7, 1981, through June 13, 1981, the effluents contained no detectable radioactivity at the discharge point although individual effluent sources which originated within Unit 2 contained minute amounts of radioactivity. Calculations indicate that less than 1 millionth (0.000001) of a curie of Cs-137 was discharged. This represents less than 0.000001% of the permissible total liquid activity as specified in Technical Specifications for operational commercial reactors.

2. Airborne effluents from the TMI site released to the environment, after processing, were made within the regulatory limits and in accordance with NRC requirements.

During the reporting period April 1-30, 1981, the licensee reported the following gaseous releases:

	<u>Curies</u>
Noble Gases	17.31
Particulates	0.000000785
Tritium	2.3

The above releases represent a small fraction of the allowable regulatory limits. The instantaneous airborne effluents are measured on a continuous basis, however, for accurate calculation of total curies released, effluent samples are analyzed in the laboratory and the data evaluated. On the basis of the data from these samples, a draft effluent report is issued monthly by the licensee. Airborne effluent information will be provided in the weekly status report on a monthly basis.

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

-- The EPA measured Kr-85 concentrations (pCi/m^3) at several environmental monitoring stations and reported the following results:

<u>Location</u>	<u>May 29 - June 5, 1981</u> (pCi/m^3)
Goldsboro	22.5
Observation Center	31.4
Middletown	26.0
Yorkhaven	24.1

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 June 4, 1981, through June 11, 1981.

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

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

<u>Sample</u>	<u>Period</u>	<u>I-131</u> (uCi/cc)	<u>Cs-137</u> (uCi/cc)
HP-271	June 3, 1981 - June 10, 1981	<8.5 E-14	<8.5 E-14

- Environmental TLD measurements for the period March 12 - April 9, 1981, around TMI indicated gamma radiation to be at the natural background levels. Fifty-nine TLD's registered doses ranging from 0.1 mR/day to 0.3 mR/day. Average dose was 0.2 mR/day. These dose rates are consistent with natural background radiation in the TMI area.

5. Licensee Radioactive Material and Radwaste Shipments

- On Monday, June 8, 1981, a 40 ml Unit 2 reactor coolant sample was sent to Babcock and Wilcox (B&W), Lynchburg, Virginia.
- On Monday, June 8, 1981, one 6' x 6' EPICOR-II dewatered resin liner (liner DS-5) from Unit 2 was shipped to U. S. Ecology, Richland, Washington.
- On Monday, June 8, 1981, one 6' x 6' EPICOR-II dewatered resin liner (liner DS-7) from Unit 2 was shipped to U. S. Ecology, Richland, Washington.
- On Tuesday, June 9, 1981, one 6' x 6' EPICOR-II dewatered resin liner (liner DS-6) from Unit 2 was shipped to U. S. Ecology, Richland, Washington.
- On Tuesday, June 9, 1981, a 1,000 ml. Unit 1 WECST (waste evaporator condensate storage tank) sample was mailed to Teledyne Isotopes, Westwood, New Jersey.
- On Tuesday, June 9, 1981, two Hittman 6' x 6' steel liners containing Unit 1 solidified evaporator bottoms were shipped to U. S. Ecology, Richland, Washington.
- On Thursday, June 11, 1981, one 6' x 6' EPICOR-II dewatered resin liner (liner DS-2) from Unit 2 was shipped to U. S. Ecology, Richland, Washington.
- On Thursday, June 11, 1981, 78 drums containing Unit 2 contaminated laundry were shipped to Tri-State Industrial Laundries, Utica, New York.
- On Friday, June 12, 1981, two Hittman steel liners containing Unit 1 solidified evaporator bottoms were shipped to U. S. Ecology, Richland, Washington.

Major Activities

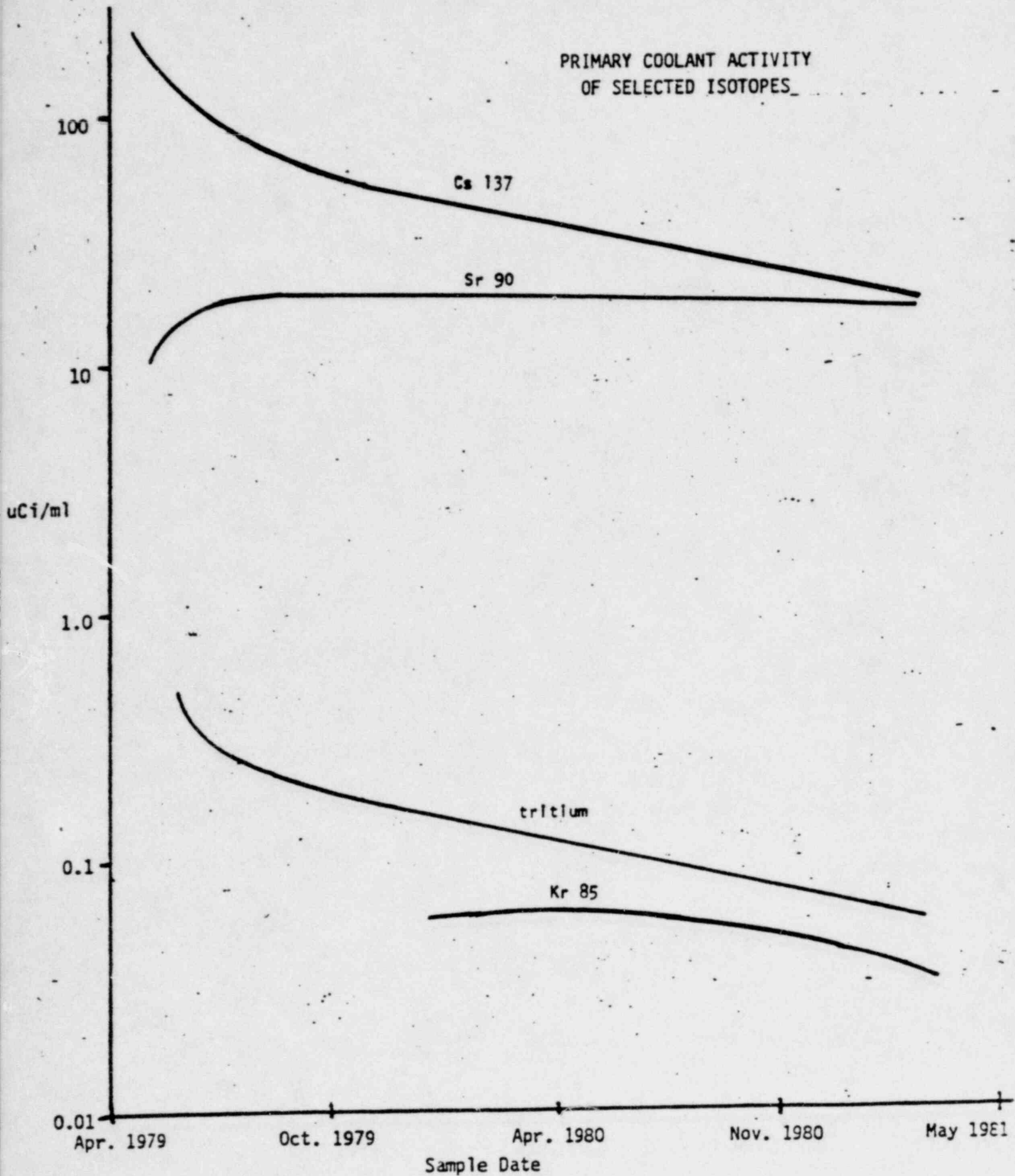
1. Reactor Coolant Water Activity. Included in this weekly status report is a summary of the radioactivity in the reactor coolant system (RCS). RCS samples are drawn and analyzed weekly. Based on these samples, the present gross beta-gamma activity in the primary system water is approximately 60 uCi/ml. Cesium-137 and strontium 90 are the predominant contributors to the activity in the primary system. The graph attached to this report depicts the change in Cs-137 and Sr-90 activity with time after the accident. The graph also includes plots of the tritium and Kr-85 concentrations in the RCS.

Natural radioactive decay has reduced the activity contributions of most other measurable radioisotopes in the RCS to insignificant levels. In addition to natural decay, activity in the primary system is being reduced by dilution caused by the approximate 0.1 GPM RCS leak and make-up rate. Sr-90 activity has remained relatively constant due to the apparent continuous low leach rate of strontium from the fuel. The submerged demineralizer system (SDS) will be used in a feed and bleed mode to remove most of the remaining activity from the primary system. Feed and bleed entails draining approximately 70,000 gallons of primary coolant to a reactor coolant bleed tank (RCBT) while making up from the stand-by pressure control system. Once drained, the primary water will be processed through the SDS and returned to the RCS. As processed water is returned to the RCS, RCS water will be drained to the RCBT for additional processing.

2. Submerged Demineralizer System (SDS). Functional tests are complete with the exception of a few items which are undergoing engineering evaluation and further testing. Operator training on components not involved with the outstanding functional testing is in progress. The operator training does not involve processing of contaminated water. The licensee is preparing procedures for NRC approval. The procedures are based on functional testing procedures and operator comments as a result of the operator training.

The staff's evaluation of the licensee's request to operate the SDS is near completion. Final NRC approval is expected to occur the week of June 15, 1981, contingent upon internal NRC review. Upon completion of the NRC evaluation, a press conference is expected to be held by the NRC at its Middletown Office to discuss the SDS.

PRIMARY COOLANT ACTIVITY
OF SELECTED ISOTOPES



OFFICE OF NUCLEAR MATERIAL SAFETY AND SAFEGUARDS

Items of Interest

Week Ending June 19, 1981

Draft NRC/EPA Memorandum of Understanding on Control of Areas Contaminated with Radioactive Materials

On June 11, 1981, OMB, NRC, EPA and DOE representatives met to discuss the draft NRC/EPA Memorandum of Understanding (MOU) on control of areas contaminated with radioactive materials. EPA and NRC representatives indicated that general staff agreement had been reached on all sections of the MOU except one which discusses federal cleanup capability. The remaining issue concerns what should be said about the availability of funds from the Superfund Act. OMB representatives urged that the MOU be finalized and signed at an early date.

Standard Review Plan for Reviewing Radiological Contingency Plans

Staff has completed the preparation of "Standard Review Plan for the Review of Radiological Contingency Plans for Fuel Cycle and Materials Facilities." This is to be used in reviewing the acceptability of radiological contingency plans submitted by licensees pursuant to orders issued to certain fuel cycle and material licensees on February 11, 1981. The orders require submittal of radiological contingency plans by July 1, 1981, for one group of licensees, August 31, 1981 for another group, and October 29, 1981 for the last group.

Meeting with Exxon

A meeting was held on June 17, 1981 with Exxon and NMSS to discuss the status of renewal, handling of waste and the status of proposed amendments to Part 20. Exxon was informed that their renewal should be issued in two months and the target date for Part 20 is late this year.

PLANNED MEETINGS - DIVISION OF WASTE MANAGEMENT

1. Subject: Mtg with Illinois Geological Survey and U.S. Geological Survey
to discuss progress and observe field operations
Date: June 22-23, 1981
Location: Sheffield, Illinois
Attendees: D. Siefken, WMLL K. Cartwright, Ill. Geol. Survey
 J. Starmer, WMLL B. Foster, U.S. Geol. Survey

Planned Meetings - Division of Safeguards

1. Subject: Discussion and review of Chapter 4 of the Fundamental Nuclear Material Control Plan for B&W Commercial Nuclear Fuel Plant
Date: June 22-24; 1981
Location: B&W, Lynchburg, VA
Attendees: H. Bartz, SGML
D. Zeff (B&W)

2. Subject: Action Plan Working Group Meeting
Date: June 23, 1981, 9:00-1:00 p.m.
Location: Department of State
Attendees: T. S. Sherr, M. Lopez-Otin, NMSS
Ken Cohen, Dave Myers, IP
Representatives of DOS, ACDA and DOE

Absences of Director and Deputy Director

6/26/81 - D. R. Chapell

Meetings - Division of Fuel Cycle and Material Safety

1. Subject: To visit with the State of Rhode Island officials to discuss an Agreement between the State and the NRC and also to visit United Nuclear Corporation.
Date/Time: June 23-25
Location: Providence and Wood River Junction, Rhode Island
Attendees: W. T. Crow (FC)

2. Subject: British Visit - U.K. Nuclear Installations Inspectorate to discuss developments in criticality safety regulations.
Date/Time: June 23 - 1:30
Location: Willste - 5th floor conference room
Attendees: K. Smith (U.K. Nuclear Installations Inspectorate),
R. H. Odegaarden (FC), R. L. Stevenson (FC),
N. Ketzlach (FC), C. Marotta (FC)

3. Subject: Plutonium Waste Shipment
Date/Time: June 25
Location: Willste
Attendees: Ben Wilson (General Electric Co.), C. E. MacDonald (FC),
R. Odegaarden (FC), R. Chappell (FC)

ABSENCES OF DIRECTOR AND DEPUTY DIRECTOR

Richard E. Cunningham - June 22 & 23 (Annual Leave & Return from Travel)

OFFICE OF INSPECTION AND ENFORCEMENT

Items of Interest

Week Ending June 19, 1981

1. The following Notification of Significant Enforcement Action was dispatched during the past week:
 - a. EN-81-21 Magnaflux Corporation, Chicago, IL - A Notice of Violation and Proposed Imposition of Civil Penalties in the amount of \$8,000 was issued on June 17, 1981, to subject licensee. This action was based on alleged violations involving a radiation dose to a radiographer in excess of NRC requirements, failure to conduct radiation surveys of a radiography exposure device after each radiographic operation, failure to have installed a radiation monitoring system interlocked with the entrance to a permanent radiographic facility to warn of high radiation, and failure to calibrate a radiation survey instrument at the required intervals.

2. Preliminary Notifications relating to the following actions were dispatched during the past week:
 - a. PNO-I-81-66 Beaver Valley Power Station, Unit 1 - Airborne Radioactivity in Auxiliary Building
 - b. PNO-II-81-43 Crystal River 3 - Reactor Trip--Loss of Offsite Power Due to Lightning Strike
 - c. PNO-III-81-53C General Electric, Morris Operation and Dairyland Power Cooperative, LACBWR - Contaminated Spent Fuel Cask-Update
 - d. PNO-III-81-56 Prairie Island, Unit 2 - Shutdown in Excess of 48 Hours - Inability to Manually Rotate Reactor Coolant Pump
 - e. PNO-V-81-34 U.S. Bureau of Mines - Thorium Metal Fire
 - f. PNS-I-81-13 Oyster Creek Nuclear Generating Station - Possession of Marijuana
 - g. PNS-I-81-14 Beaver Valley Power Station, Unit 1 - FBI Issues Press Release Regarding Valve Tampering at Beaver Valley, Unit 1
 - h. RII-81-42 Tennessee Nuclear Specialties, Inc. - Media Interest in Alleged Unsafe Working Conditions

3. The following IE Information Notice was issued:
 - a. IE Information Notice 81-18, "Excessive Radiation Exposures to the Fingers of Three Individuals Incurred During Cleaning and Wipe Testing of Radioactive Sealed Sources at a Sealed-Source Manufacturing Facility", was transmitted on June 12, 1981, for issuance on June 23, 1981 to selected licensees whose programs may involve potential for high exposures of the fingers or hands of employees.

ENCLOSURE D

OFFICE OF NUCLEAR REGULATORY RESEARCH

IMPORTANT EVENTS FOR THE WEEK ENDING JUNE 19, 1981

A. Experimental Programs Branch

1. LOFT

Preparations continue on schedule for the containment vessel leak rate test on July 4, 1981 and the cooldown transient experiments (simulating ANO and St. Lucie) on July 30, 1981. Detailed cost estimates on completing the on-line isotope detection system needed for the final large break experiment are expected to be final by August 20, 1981, and to be within the amount now budgeted.

A meeting is scheduled on July 9, 1981 for RES, NRR and INEL to discuss the remaining LOFT test schedule, including contingency tests.

Preparations are being made for an ACRS research review meeting at INEL on June 23-25, 1981.

A backlog of 11 RILs on LOFT results is beginning to ease, as 4 of the RILs are reaching final form.

An ACRS ECCS subcommittee meeting is being planned to take place in Monterey on August 28, 1981, immediately following the ANS Small Break Specialists Meeting.

2. FLECHT SEASET

Shakedown test for the last 21 rod blocked bundle has been completed. This bundle uses the identical blockage shape and configuration as the upcoming 17 x 17 blockage test. W identified four (4) additional test conditions needed to overlap the 17 x 17 unblocked data and the 17 x 17 blockage test. Due to subtask cost ceiling, NRC and EPRI are concerned with W's recommendation to eliminate the gravity reflood test in this 21 rod bundle, which is considered to be low priority.

3. 2D/3D Program

An independent review of the 2D/3D instrumentation by Intermountain Technology Incorporated has been initiated to make sure that the instrument development work is being pursued in the best possible manner and that the USNRC can meet its commitment to deliver key instruments to the 2D/3D facilities, particularly the Upper Plenum Test Facility (UPTF). Of particular concern is the mass flow measurement in the interface between the upper plenum and the core. The review will be completed by July 15, 1981.

At the 2D/3D experts meeting in Erlangen, held on June 3-4, 1981 FRG agreed to review and suggest changes for the design and operation of the simulated steam generators and pumps in UPTF, based on the LANL TRAC calculations and Creare hot leg injection data which showed flow reversals and oscillations.

The main results of the 2D/3D Coordination meeting in Munich, held on June 9-11, 1981, were:

I. Analysis and Design

A. UPTF

- . FRG review of design and operation of UPTF loop simulation to be completed by end of July 1981. Suggested changes to be transmitted to USNRC and reviewed with LANL personnel.
- . Calculations for influence of UPTF containment pressure fluctuations on vessel thermal hydraulics to be performed by US, based on existing FRG calculations and FRG/JAERI data.

B. CCTF - Core II

- . Refill Tests in CY 1982 - LANL and Crete will perform operational studies for CCTF - Core II refill tests beginning in early FY 1982.
- . Reflood Tests - JAERI will provide NRC with the range of parameters to be possibly studied by August 1981. LANL will then perform parameter sensitivity studies with TRAC to investigate the most important parameters to be tested. This study will be completed by the end of CY 1982.

C. SCTF - Core I

- . JAERI will provide LANL with MgO properties and results from test numbers 505 and 506, including HL spool piece data by July 1981.
- . LANL will respond to the JAERI suggestions for calculations in FY 1981 by July 1981.

II. Instrumentation

- A. NRC will submit technical justifications of the tie-plate dp measurement by October 1981.
- B. A trilateral expert meeting will be held to establish the steam/water flow ranges to be expected across the UCSP in PWR's.
- C. UPTF instrumentation interface meeting will be held in late July 1981.
- D. Technical and financial consequences of a change to 18 x 18 from 16 x 16 geometry to be discussed at an expert meeting in July 1981.

4. Semiscale

System operational testing is underway following extensive modifications for the Natural Circulation (NC) test series. The first NC test is anticipated on June 23, 1981. PKL representatives have been visiting INEL and have been very helpful in discussing PKL NC test experience and in providing recommendations.

ORNL is planning to utilize Semiscale test NC-4 for PWR noise analysis work, and will connect some of their equipment into the facility.

W liquid level detector data have been placed into the data bank for ready access by W and ORNL. Suitable password protection is provided to fulfill our agreements pertaining to data handling.

B. Analytical Models Branch

1. INEL notified us that the task on RELAP-4/MOD7 code self-initialization of the steam generator secondary side has been successfully completed. The letter report is being sent out. This task was requested by NRR, to help user-convenience.
2. COBRA/TRAC code tape and draft documentation were sent to the National Energy Software Center. This completes an important milestone. The code is now being used to produce best-estimate results on PWR-UHI large break LOCA consequences (of interest to NRR).
3. Dr. N. Zuber is presenting an invited paper at the Symposium of the International Union of Applied and Theoretical Mechanics (IUTAM) at the California Institute of Technology. The topic of the paper is "Applications of the Catastrophe Theory Modeling of Two-Phase Flow and Heat Transfer Phenomena."
4. NRR has requested RES to perform an audit calculation for BWR-3 plant using the WRAP-BWR-EM package. There are enough FY 81 funds available at SRL to perform this calculation providing EXXON submits the necessary input information (they would use in their systems analysis) by the end of July, at the latest.

If this is not possible so that SRL work would have to continue during FY 82, the problem arises because

- (a) No FY 82 funds are being allocated to SRL
- (b) SRL is unwilling to allocate personnel to the WRAP support if the NRC has no long range plans for the use of this code. NRR has indicated a lack of long range interest.

C. Fuel Behavior Branch

1. PBF

Test TC-4 has been installed in the PBF facility and the loop system brought up to PWR pressure and temperature, instruments have been checked out and repaired where necessary, and preparations have been completed to allow the reactor to go critical late in the afternoon of June 15, 1981. The first blowdown test of this series was conducted in the late evening of June 15, 1981. The test series should be completed by June 26, 1981, providing additional data on the effects of external thermocouples on the quenching behavior of test fuel rods, on slug flow in fuel bundles, on temperature gradients from fuel surfaces to rod surfaces, and on the calibration of new, embedded interior thermocouples for the LOFT L2-5 and L2-6 tests to be conducted in FY 82/83.

2. Technical Bases Report on Fission Product Release (NUREG-0772)

NUREG-0772 was released for publication on June 12, 1981, and is scheduled to be printed and distributed by June 19, 1981. We have been advised by the ACRS staff that an RES staff review of the Fission Product Release and Transport for the FY 83 budget will not be necessary because of NUREG-0772, its detailed review by the ACRS Subcommittee on Reactor Radiological Effects and the research program focus provided by the document.

3. Fuel Testing Task Force

The task force met on June 10 and 11, 1981, to develop positions on key technical and programmatic issues, focus on major findings/conclusions, and to review some initial draft inputs to the Draft Task Force Report. Preparation of the draft report is now in progress in Headquarters with a target schedule for draft review copies to non-NRC task force members by June 22 and draft to DAE and RES management by June 24. Final inputs from reviewers are due June 26. If necessary, a final task force meeting will be held on June 30 to review final draft report. In order to meet these deadlines, other assignments of branch task force members are being curtailed during the period June 15-23, 1981.

Publications to be Issued in the Near Future

Title: Design and Fabrication Code Case Acceptability ASME Section III, Division 1 (Reg. Guide 1.84, Rev. 18)

Expected Issuance Date: June 1981

Description: The guide on Design and Fabrication Code Case Acceptability has been revised to include new code cases and those code cases which were revised or annulled subsequent to Revision 17 of the guide.

Contact: E. O. Woolridge
443-5904

Title: Materials Code Case Acceptability ASME Section III, Division 1 (Reg. Guide 1.85, Rev. 18)

Expected Issuance Date: June 1981

Description: The guide on Materials Code Case Acceptability has been revised to include new code cases and those which were revised or annulled subsequent to Revision 17 of the Reg. Guide.

Contact: E. O. Woolridge
443-5904

Publication(s) Issued During the Week of June 15-19, 1981

Draft Regulatory Guide and Value/Impact Statement: Establishing Quality Assurance Programs for Packaging Used in the Transport of Special Form and Certain Normal Form Radioactive Material, Task TP 019-4. Comments requested by August 19, 1981. Contact: M. E. Wangler (443-5946)

OFFICE OF THE EXECUTIVE LEGAL DIRECTOR

ITEMS OF INTEREST

WEEK ENDING JUNE 19, 1981

Final Rule on Fire Protection for Operating Nuclear Power Plants,
10 CFR 50.48

On June 12, 1981, the Commission issued a Memorandum and Order (CL1-81-11) in which it denied a joint motion of several licensees to stay three items in the final rule pending judicial review. The three items were: Item G, Fire Protection for Safety Shutdown Capability; Item L, Alternative and Dedicated Shutdown Capability; and Item O, Oil Collection System for Reactor Coolant Pump.

St. Lucie Nuclear Power Plant, Unit 2

On June 15, 1981, the Commission issued a Memorandum and Order with respect to the results of its review of ALAB-603 regarding the designation of the loss of all AC power as a design basis event. The Commission determined that ALAB-603 does not establish generic guidelines for determining the design basis event to be used for plant design and operation and does not establish station blackout as a design basis event as that term is used by the NRC staff.

St. Lucie Nuclear Power Plant, Unit 2

On June 16, 1981, the presiding ASLB issued an Order in which it dismissed this operating license proceeding as a result of the withdrawal of the intervenor in the proceeding.

Diatlo Canyon Nuclear Power Plant, Units 1 and 2 (Seismic Proceeding)

On June 16, 1981, the Appeal Board issued its Decision (ALAB-644). The Appeal Board denied the exceptions to the ASLB partial initial decision of September 27, 1979 (LBP-79-26); found no error warranting corrective action in the ASLB partial initial decision of June 12, 1978 (LBP-78-19) to which no exceptions were taken; and affirmed the two ASLB partial initial decisions referred to above.

Turkey Point Nuclear Generating Units 3 and 4

On June 19, 1981, the presiding ASLB in this proceeding involving proposed operating license amendments to permit steam generator repairs issued a Final Order permanently cancelling the evidentiary hearing on the grounds set forth in its Order of May 28, 1981, and authorizing the Director, NRR to issue appropriate amendments to the license in accordance with the commitments made by the licensee.

ITEMS OF INTEREST
OFFICE OF INTERNATIONAL PROGRAMS
WEEK ENDING JUNE 19, 1981

Foreign Visits to NRC

On Monday Dr. K. Pfeiffer and Mr. H. Kaiser of Kraftwerk Union, FRG, met with R. Burnett, Director, DS/NMSS, E. Quinn, PSDB/NMSS, D. Matthews, PSLB/NMSS, and O. Chambers, IE to discuss radiological sabotage protection.

On Thursday Mr. J. Haslam of the UKAEA met with C. Michelson, Director, AEOD, and J. Heltemes, G. Boyle, S. Rubin, T. Wolf, and E. Imbro of AEOD to discuss sequence coding techniques and search procedures as well as data processing and storage.

On Friday Mr. J. Petric of the U.K. Nuclear Installations Inspectorate met with C. Grimes, SSPB/NRR, to discuss NRC activities on RESAR safety evaluation.

OFFICE OF STATE PROGRAMS

ITEMS OF INTEREST

WEEK ENDING JUNE 19, 1981

The Oregon Health Department radiation control program will be reviewed during the week of June 22.

The State of New Mexico concluded 3 days of hearings on proposed regulations for the control of uranium mills and tailings on June 13, 1981. Several NRC witnesses, industry witnesses and public interest groups testified. The State's decision on adoption of regulations has a major bearing on whether New Mexico will enter into an amended agreement to allow the State to continue regulation of tailings after November 8, 1981. The New Mexico Environmental Improvement Board has held the record open for further submissions by the interested parties.

The State of Colorado held hearings on June 17, 1981, on proposed changes to the State's regulations for regulating uranium mills and tailings. The Colorado Department of Public Health supports the NRC regulations and believes they are reasonable and appropriate in light of their past experiences and due to the latitude provided in the regulations. Colorado so testified before the Senate Subcommittee on Nuclear Regulation on June 16, 1981. The Colorado Board of Health is holding its record open until July 1, 1981 and will make a decision on August 19, 1981.

Marie Janinek attended a conference on the transportation of hazardous materials, sponsored by the Institute for Risk Analysis of American University, held in Arlington, Virginia, June 15-16. Topics discussed included training needs for State and local government personnel; impact of reduced future Federal funding; effects of Federal deregulation on safety; responsibilities of carriers and shippers and operational aspects of emergency response. State and local governments are particularly concerned that they will be unable to take advantage of Federal training opportunities if the travel and per diem costs are not borne by the Federal Government. Criticism was also expressed at the transportation regulations of DOT (49 CFR) for their enormous volume, complexity, and lack of clarity.

On June 10, 1981, Thomas C. Elsasser, RSLO, Region I and other members of RAC I were in Montpelier, Vermont to discuss the review of the Vermont radiological response plan with various State officials, including Lt. Governor Madeleine Kunin.

William B. Menczer, RSLO, Region III, met on June 15, 1981, with Ms. Mary Camp of the Illinois Commerce Commission to discuss NRC regional operations and enforcement activities at the Illinois nuclear power plants.

On June 17, 1981, Mr. Menczer was in Camanche, Iowa, attending a public meeting regarding Iowa emergency plans for the Quad Cities Power Station. Later that evening, Mr. Menczer was in Cordova, Illinois, attending a similar meeting regarding Illinois emergency plans. He was accompanied by the Senior Resident Inspector from Quad Cities at both meetings.

OFFICE OF MANAGEMENT AND PROGRAM ANALYSIS

Items of Interest

WEEK ENDING JUNE 19, 1981

Background For Commissioner Ahearne

With other offices and regions, prepared an information paper for Mr. Ahearne's trip to Regions II, III, IV, Sandia Corp., and the Nevada Test Site.

ADP Support at DOE Labs

With other offices, responded to DOE's request for a long-range estimate of support needed. This information will also be included in the draft of NRC's long-range ADP plan now being developed.

Reactor Fuel Loadings

Provided Commissioner Gilinsky's office with the evolution of dates estimated by utilities of their projected fuel load dates.

Publication

May issue of "Licensed Operating Reactors Status Summary Report," NUREG -0020, was distributed.

Office of the Controller

Items of Interest

Week Ending June 19, 1981

FY 1983 and FY 1984 Budgets

The EDO reviewed the budget and made his initial mark.

Enclosure J

OFFICE OF SMALL AND DISADVANTAGED BUSINESS UTILIZATION

Items of Interest

Week Ending June 19, 1981

On June 18, 1981, the Office of Small and Disadvantaged Business Utilization participated in a seminar sponsored by the Small Business Administration on the subject of "How to do Business with Federal/Local Governments." The purpose of the program was to acquaint new and inexperienced small and disadvantaged business firms of the intricacies of the federal procurement process; to offer some principles from successful minority businesspersons; to offer an opportunity to discuss with the represented federal and state agencies what kinds of goods and services are bought and what opportunities might be available in the future.

The new Administrator of the Small Business Administration, Mr. Michael Cardenas has requested a meeting with NRC officials to discuss new SBA initiatives in the 8(a) program and how we can best work together. Mr. Cardenas has spoken publicly that he intends to promote the 8(a) program to a greater number of firms and to insure a more equitable distribution of procurement contracts among all companies within the 8(a) portfolio.

ITEMS APPROVED BY THE COMMISSION - WEEK ENDING JUNE 19, 1981

- A. STAFF REQUIREMENTS - BRIEFING ON SECY-81-267, 10 CFR PART 60, DISPOSAL OF HIGH-LEVEL RADIOACTIVE WASTES IN GEOLOGIC REPOSITORIES: TECHNICAL CRITERIA, 10:25 AM, JUNE 11, 1981, COMMISSIONERS' CONFERENCE ROOM, DC OFFICE (OPEN TO PUBLIC ATTENDANCE). Memo SECY to Dircks, dtd 6/15/81.

The staff continued their briefing of the Commission on the proposed rule on Technical Criteria for High-Level Waste (HLW) Repositories.

The Commission reviewed a draft of the HLW rule circulated by Chairman Hendrie on June 9, 1981, and staff modifications submitted subsequent to the original May 11, 1981 proposal.

The Commission discussed whether the comment period should be 150 days or 90 days without reaching a decision.

The Commission indicated that they would continue their review of the rule at another meeting. (Subsequently, a meeting was scheduled for Tuesday, June 16, 1981).

- B. STAFF REQUIREMENTS - BRIEFING ON MCGUIRE OPERATING LICENSE, 10:05 AM, TUESDAY, JUNE 9, 1981, COMMISSIONERS' CONFERENCE ROOM, DC OFFICE (OPEN TO PUBLIC ATTENDANCE). Memo SECY to Dircks, dtd 6/15/81.

The Commission was briefed by staff on those matters pertinent to the McGuire operating license that were not at issue in the Board's hearing.

Commissioner Gilinsky requested information on the status of revisions to Appendix G to 10 CFR Part 50. (EDG) (SECY Suspense: 06/29/81)
RES

Commissioner Ahearne requests the following information on the license condition requiring a minimum reserve of 15 percent (section (c), page 15): what is the practical significance of this condition if the particular license issued is not enough to allow Duke to reach the minimum level? (EDG) (SECY Suspense: 06/19/81)
NRR

Commissioner Bradford requested that the license explicitly state the commitment to meet the requirements of Section 3-L of Appendix R. (EDG) (SECY Suspense: 06/19/81)
NRR

License issued 6/12/81

C. STAFF REQUIREMENTS - AFFIRMATION SESSION 81-22, 4:05 P.M., THURSDAY, JUNE 11, 1981, COMMISSIONERS' CONFERENCE ROOM, DC OFFICE (OPEN TO THE PUBLIC). Memo SECY to Dircks/Bickwit, dtd 6/15/81.

I. SECY-81-316 - REPORTING OF CHANGES TO QUALITY ASSURANCE PROGRAMS (Rulemaking Issue)

The Commission, by a 4-0* vote, approved with Commissioner Ahearne's modifications:

1. publication in the Federal Register for 60 days comment of a notice of proposed rulemaking which would require licensees to implement the approved quality assurance program to report certain changes to their quality assurance program which affect the program description approved by NRC.
(RES) (SECY Suspense: 6/29/81)
2. the staff's conclusions set forth in Enclosure D to this paper, which provides the analysis called for by the Periodic and Systematic Review of the Regulations.
(RES) (SECY Suspense: 6/29/81)
3. certification that the rule will not have a significant economic impact on a substantial number of small entities.
(ADM)

The Commission requested that:

1. the appropriate Congressional Committees be informed.
(OCA/RES) (SECY Suspense: 7/16/81)
2. a letter be sent to each construction permit holder and to each licensee affected by the rule informing them of the requirements of the rule.
(RES) (SECY Suspense: 7/16/81)

* Section 201 of the Energy Reorganization Act, 42 U.S.C. §5841, provides that action of the Commission shall be determined by a "majority vote of the members present." Commissioner Gilinsky was not present when this item was affirmed, but had previously indicated that he would approve this item. Had Commissioner Gilinsky been present, he would have affirmed his prior vote. Accordingly, the formal vote of the Commission was 3-0 in favor of the decision.

C. (Continued)

3. the information collection requirements in this proposed rule be submitted to the Office of Management and Budget as part of the general clearance of 10 CFR 50.

(ADM)

(SECY Suspense: 8/81)

II. SECY-81-220 - COMMISSION REVIEW OF ALAB-603 (ST. LUCIE NUCLEAR POWER PLANT) (Adjudicatory Issue)

The Commission, by a 3-1* vote with Commissioner Gilinsky dissenting approved issuance of a Memorandum and Order which completes the Commission's review of certain issues raised by the decision of the Appeal Board in ALAB-603.

Commissioner Ahearne provided additional views and Commissioner Gilinsky provided separate views, both of which are to be attached to the Memorandum and Order.

(OGC)

(SECY Suspense: 6/16/81)

cc: Chairman Hendrie
Commissioner Gilinsky
Commissioner Bradford
Commissioner Ahearne
Commission Staff Offices
Public Document Room

-
- * Section 201 of the Energy Reorganization Act, 42 U.S.C. §5841, provides that action of the Commission shall be determined by a "majority vote of the members present." Commissioner Gilinsky was not present when this item was affirmed, but had previously indicated that he would nonconcur and provide separate views. Accordingly, the formal vote of the Commission was 3-0 in favor of the Memorandum and Order.

D. STAFF REQUIREMENTS - BRIEFING ON SECY-81-286 - PRESSURIZED THERMAL SHOCK, 2:10 PM, THURSDAY, JUNE 11, 1981, COMMISSIONERS' CONFERENCE ROOM, DC OFFICE (OPEN TO PUBLIC ATTENDANCE). Memo SECY to Dircks, dtd 6/15/81.

The Commission was briefed on the subject of thermal shock to PWR pressure vessels and the potential problems associated with thermal shock under pressurized conditions.

The Commission indicated that they wanted to be kept informed on the staff progress toward resolution of the problem and asked to be provided with a status report after issuance of the Oak Ridge report in September/October 1981. (EDG) (SECY Suspense: 10/15/81)
NRR

ENCLOSURE M

- E. SECY-81-345 - REVIEW OF DIRECTOR'S DENIAL OF 2.206 (IN THE MATTER OF PORTLAND GENERAL ELECTRIC CO.) Memo SECY to Bickwit, dtd 6/15/81.

This is to advise you that the Commission (with all Commissioners approving) has decided that there is no need for a review of this decision of the Acting Director, Office of Inspection and Enforcement.

The Office of the General Counsel was informed of this action by telephone on June 15, 1981.

- F. SECY-81-334 - PROPOSED CONTRACT AWARD FOR IN-PROCESS CONTROL OF SPECIAL NUCLEAR MATERIAL (SNM). Memo SECY to Hendrie/Gilinsky/Bradford/Ahearne, dtd 6/16/81.

Per the request of EDO, the subject paper is withdrawn because of NMSS program redirection and a requirement to examine other alternatives.

- G. STAFF REQUIREMENTS - AFFIRMATION SESSION 81-23, 3:35 P.M., THURSDAY, JUNE 18, 1981, COMMISSIONERS' CONFERENCE ROOM, DC OFFICE (OPEN TO THE PUBLIC). Memo SECY to Dircks, dtd 6/19/81.

- I. SECY-81-342 - REQUEST FOR RECONSIDERATION OF PREVIOUS DENIAL OF PETITION FOR RULEMAKING FILED BY ECKERT, SEAMANS, CHERIN, AND MELLOTT TO AMEND 10 CFR PART 2 TO PRESCRIBE TIME PERIODS FOR COMPLETION OF LICENSING REVIEW BY THE REGULATORY STAFF AND ATOMIC SAFETY AND LICENSING BOARDS (Rulemaking Issue)

The Commission by a vote of 4-0 approved the Notice of Denial of Request for Reconsideration for Rulemaking for publication in the Federal Register. The denial should be updated to reflect the most recent actions taken by the Commission covering Part 2.

(ELD)

(SECY Suspense: 7/7/81)

The Commission requested:

- a. that a copy of the letter, Enclosure D to the paper, be sent to petitioners Eckert, Seamans, Cherin and Mellott;

(ELD)

(SECY Suspense: 7/7/81)

- b. appropriate Congressional committees be informed.

(OCA/ELD)

(SECY Suspense: 7/7/81)

G. (Continued)

II. SECY-81-374 - APPROVAL UNDER SECTION 145b OF THE ATOMIC ENERGY ACT OF 1954, AS AMENDED, FOR EMPLOYMENT OF MS. DEBORAH L. KALISH AS A SUMMER EMPLOYEE FOR COMMISSIONER PETER A. BRADFORD AND FOR ACCESS TO NATIONAL SECURITY INFORMATION AND RESTRICTED DATA (Policy Issue)

The Commission by a vote of 3-0, Commissioner Gilinsky abstaining, approved access to National Security Information and Restricted Data for summer employee Ms. Kalish in Commissioner Bradford's office.

(ADM)

H. SECY-81-306 - REQUEST FOR PROPOSAL (RFP) NO. RS-RES-81-173 ENTITLED "LONG-TERM PERFORMANCE OF MATERIALS USED FOR HIGH-LEVEL WASTE PACKAGING". Memo SECY to Dircks, dtd 6/19/81.

This is to advise you that the Commission (with all Commissioners approving) has provided approval for the staff to enter into a contract for performance of this effort, subject to the following comments:

1. Since a five year period is not very long for most durability or susceptibility tests, the specific candidate alloy(s) or its surrogates for accelerated tests and packaging concepts should be identified in the early period of the contract and test plan developed accordingly. Since a long time extrapolation of material performance data is obviously needed, extra care should be exercised in developing the test configurations so that the extrapolation can be made with a reasonable degree of confidence.
2. A contractual provision should be provided to allow for possible additions or changes of candidate materials or packaging approaches in the event that other than those listed are proposed by DOE.
3. The Statement of Work should be revised as follows: Page 1, 1st paragraph, line 16 - change the next-to-last sentence to read: "The waste packages should meet their performance criteria independently, that is, without consideration of the projected isolation capabilities offered by the other barriers."
4. Page 3, insert at end of Background: The NRC has an ongoing technical assistance project at Brookhaven National Laboratory (BNL) to review national progress in the development of waste forms and packages. It is expected that significant issues identified by BNL will be addressed by this project.

H. (Continued)

5. Page 6, Task II, line 17. Change first sentence of 2d paragraph to read: "The contractor should perform laboratory experiments required to quantify both the separate and combined effects."
6. The selection of more than one contractor would be beneficial. However, if the Statement of Work proves too difficult to break up and manage, the staff should require that a significant portion be subcontracted in order to develop more than one source of expertise and avoid creating a future "sole source" situation.
7. The ACRS should review the Contract Review Panel recommendation prior to final selection of the contractor.

In connection with his approval, Commissioner Gilinsky has requested an explanation of how the subject paper was referred to the Commission without consideration of the "combined" effects mentioned in paragraph 5, above.

The Offices of Research and Administration (Contracts) were informed of this action on June 19, 1981.

It is requested that you accomplish the following through the Office of the Secretary:

1. Inform the Commission of when the contract is awarded. (SECY Suspense: October 1, 1981)
2. Provide a response to Commissioner Gilinsky's request by c.o.b. July 2, 1981.