

For PDR

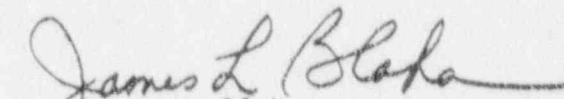
December 19, 1990

For: The Commissioners  
From: James L. Blaha, Assistant for Operations, Office of the EDO  
Subject: WEEKLY INFORMATION REPORT - WEEK ENDING DECEMBER 14, 1990

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.

  
 James L. Blaha  
 Assistant for Operations, OEDO

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WEE' ENDING DECEMBER 14, 1990

Arkansas Nuclear One, Unit 1

On December 5, 1990, the NRC staff issued License Amendment No. 140 for ANO-1. This amendment restored the authorized steady-state reactor core power level to 100% of full power. The license was previously restricted to 80% because of a postulated break of an HPI injection line. This postulated break constituted a small break LOCA not previously enveloped by the licensee's approved 10 CFR 50.46 and Appendix K analysis.

The licensee's application, submitted on August 8, 1990, was an extremely challenging and complex effort. It included a significant redesign of the HPI system and it addressed other related issues (NPSH of the LPI and RBS pumps, small and large break LOCA analysis, containment temperature and pressure profiles and impact on EQ, seismic adequacy of the BWST, post-LOCA operator actions, modification of the HPI, RBS and LPI flow instrumentation, and post-LOCA offsite doses). Overall, the licensee provided a well documented package which was found to be acceptable by six NRC technical review branches.

Meeting with the Environmental Protection Agency on Modelling

Significant efforts are now underway or are planned to remediate sites under the Environmental Protection Agency (EPA) Superfund program, the Department of Energy (DOE) Site Restoration program, and the Nuclear Regulatory Commission (NRC) Site Decommissioning program. The nature and extent of cleanup to be accomplished at many of these sites will be based on information on the mobility of the contaminants and the overall benefits likely to be accrued to human health or the environment from alternative remedial options. In reaching the judgments, analytic models (e.g., computerized environmental pathway or engineering models) are and will be used to characterize the source, fate, and effects of hazardous chemicals and radionuclides identified at waste sites. A large variety of environmental pathway models are in use at EPA/Superfund, DOE, and NRC sites. Some of these models are well known and have received widespread critical review; others have not received outside evaluation. To ensure that modeling activities being conducted at EPA/Superfund and DOE sites are coordinated, consistent, and based on acceptable technical and scientific foundation, a joint effort by EPA and DOE has been initiated to ultimately support selected models for specified actions. On December 14, 1990, members of the Division of Low-Level Waste Management and Decommissioning staff met with staff of EPA to explore the possibility of NRC joining that Interagency Agreement.

Taiwan Earthquake

At 11:00 AM on December 13 (local time), a magnitude 6.5 earthquake occurred approximately 10km from Hualien, Taiwan causing at least two fatalities. This was followed on December 14 at 4:00 AM by a magnitude 6.7 earthquake approximately 30km from Hualien. These two earthquakes are of note because Hualien is the site of a soil-structure interaction experiment that is currently under construction. A model concrete containment is being built on a stiff soil site that will be subjected to actual earthquake ground shaking. These two earthquakes confirm the seismically active nature of the selected site; additional earthquakes of this size can be expected to shake the site during the course of the experiment. The experiment is an international cooperative project with EPRI and NRC from the USA, EdF and CEA from France, TEPCO and CRIEPI from Japan, and Taipower from Taiwan.

The two earthquakes were widely felt in Taipei, approximately 130km from the epicenters, probably because Taipei is located in an alluvial valley with soft sediments. Seismic instruments at the three Taiwan nuclear power plant sites did not trigger; they are reported to be set at 0.01g.

Office of Nuclear Reactor Regulation  
Items of Interest  
Week Ending December 14, 1990

Arkansas Nuclear One, Unit 1

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Bellefonte, Units 1 and 2

In a management meeting on November 8, 1990, TVA committed to providing a listing and submittal schedule for technical "position papers" which concerned the resumption of the presently deferred construction. TVA responded on December 10, 1990 and listed 12 topics with submittal dates between February and April 1991. Eight additional papers may be submitted in the same time frame. TVA requested a written staff position on each topic by July 1991 in order to support their deliberations about the resumption of construction. Since the nature of the specific requests and the technical depth of the papers are unknown, the staff is waiting for TVA's submittals before committing to a course of action.

Training Course for Electrical Distribution System Functional Inspections (EDSFI)

The Special Inspections Branch conducted the second training course for regional inspectors conducting EDSFIs this week at the Chattanooga TTC. The first session of this course was given to regional inspectors at Chattanooga in September 1990. The course addressed techniques for the inspection of the electrical distribution system and the engineering and technical support for this system.

Review of Proposed Yankee Rowe Test Reactor Irradiation Program (EMCB)

In a letter dated November 26, 1990 and at a meeting on November 20, 1990, the licensee identified the test matrix for the first irradiation capsule and sampling of the vessel for chemical analysis of beltline welds. The material to be placed in the capsule is similar in residual elements to the Yankee Rowe lower plate. The test matrix for the first irradiation capsule will produce

only one data point representing the Yankee Rowe lower plate (coarse grain material at 500°F irradiation temperature). To produce bounding results, more than one data point is needed.

At the November 20, 1990 meeting, the licensee indicated that one sample was to be removed from the upper axial weld. The staff indicated that due to variability in the amounts of residual elements in Babcock & Wilcox welds, more than one sample will be required and requested the licensee to provide a revised sampling plan. The staff will maintain continuous contact with the licensee on this issue.

RESTART SCHEDULE  
12/14/90

<u>PLANT</u>	<u>SHUTDOWN</u>	<u>COMMISSION BRIEFING</u>	<u>PLANT RESTART</u>
BROWNS FERRY 2	9/15/84C	3/91	3/91*

\*Commission decision prior to restart authorization.

Office of Nuclear Material Safety and Safeguards  
Items of Interest  
Week Ending December 14, 1990

IAEA Meeting on Transportation

On December 3-7, 1990, the staff attended the International Atomic Energy Agency (IAEA) meeting of the Standing Advisory Group on the Transportation of Radioactive Materials (SAGSTRAM). The basic purpose of SAGSTRAM is to make recommendations concerning the IAEA's program for the safe transport of radioactive materials. The group discussed a number of working papers covering a wide range of topics, including training, IAEA resources, and the upcoming revision to the IAEA Regulations. The group also discussed the changes to the International Committee on Radiation Protection (ICRP) recommendations and their effect on transportation regulations.

Package Supplier Inspection

On December 3-6, 1990, the Transportation Branch staff conducted an inspection at Nuclear Fuel Services, Erwin, Tennessee. The staff was supported by a specialist from the Idaho National Engineering Laboratory. The inspection focused on Quality Assurance in the procurement, maintenance, storage and use of transport packagings.

A follow-up inspection was also conducted at Nuclear Containers Inc. Elizabethton, Tennessee, to verify corrective actions taken based on a previous inspection. Preliminary findings were discussed with company representatives at the exit meeting.

International Atomic Energy Agency (IAEA) Inspection At The General Electric Facility

During the period December 10-12, 1990, an IAEA team conducted a short-notice random inspection at the General Electric Fuel Fabrication Plant in Wilmington, North Carolina. The team audited the low enriched uranium facility's ledger, weighed and measured the U-235 content by nondestructive assay of  $UF_6$  cylinders, scanned  $UO_2$  rods and observed the rods being assembled in bundles.

Department of Commerce, National Institute of Standards and Technology (NIST), Gaithersburg, Maryland

On December 10, 1990, members of the Fuel Cycle Safety Branch toured the NIST facility and discussed items relating to the renewal of its special nuclear material license. The tour included the reactor building and radiation physics buildings.

Meeting with the Environmental Protection Agency on Modelling

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accomplished at many of these sites will be based on information on the mobility of the contaminants and the overall benefits likely to be accrued to human health or the environment from alternative remedial options. In reaching the judgments, analytic models (e.g., computerized environmental pathway or engineering models) are and will be used to characterize the source, fate, and effects of hazardous chemicals and radionuclides identified at waste sites. A large variety of environmental pathway models are in use at EPA/Superfund, DOE, and NRC sites. Some of these models are well known and have received widespread critical review; others have not received outside evaluation. To ensure that modeling activities being conducted at EPA/Superfund and DOE sites are coordinated, consistent, and based on acceptable technical and scientific foundation, a joint effort by EPA and DOE has been initiated to ultimately support selected models for specified actions. On December 14, 1990, members of the Division of Low-Level Waste Management and Decommissioning staff met with staff of EPA to explore the possibility of NRC joining that Interagency Agreement.

Office of Nuclear Regulatory Research  
Items of Interest  
Week Ending December 14, 1990

Meeting with Ajit K. Bhattacharyya

On December 10, 1990, members of the RES staff met with Ajit K. Bhattacharyya, from the State of Pennsylvania, Department of Environmental Resources, Division of Nuclear Safety. The meeting (which was held at Mr. Bhattacharyya's request) focused on the status of the Individual Plant Examination (IPE) program, and the staff review plan for the IPE, specifically the scope of the staff's review and the insights that are expected to stem from the IPE review process.

European Nuclear Instrumentation and Control Research Programs

During November 24 to December 6, 1990, Mr. Leo Beltracchi participated in a National Science Foundation-sponsored survey of European Nuclear Instrumentation and Control research programs. The purpose of the survey was to assess and compare the state of the art in Europe with that in the United States. The scope of the survey consisted of the balance between man and machine, the transition from analog to digital technologies, signal validation, information and control system architectures, diagnostics, instrumentation, standards, and tools. A January 31, 1991, seminar at the National Science Foundation, Washington, DC, will present the initial results of the survey. A report publishing the results of the survey is scheduled by mid-1991.

Taiwan Earthquake

At 11:00 AM on December 13 (local time), a magnitude 6.5 earthquake occurred approximately 10km from Hualien, Taiwan causing at least two fatalities. This was followed on December 14 at 4:00 AM by a magnitude 6.7 earthquake approximately 30km from Hualien. These two earthquakes are of note because Hualien is the site of a soil-structure interaction experiment that is currently under construction. A model concrete containment is being built on a stiff soil site that will be subjected to actual earthquake ground shaking. These two earthquakes confirm the seismically active nature of the selected site; additional earthquakes of this size can be expected to shake the site during the course of the experiment. The experiment is an international cooperative project with EPRI and NRC from the USA, EdF and CEA from France, TEPCO and CRIEPI from Japan, and Taipower from Taiwan.

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Office for Analysis and Evaluation of Operational Data  
Items of Interest  
Week Ending December 14, 1990

Incident Response Branch

Chief, IRB and staff attended a meeting of the Catastrophic Disaster Response Group on December 11, 1990, to discuss the draft Federal Natural Disaster Response Plan.

Diagnostic Evaluation and Incident Investigation Branch

During the period December 3-7, 1990, the Oyster Creek Diagnostic Evaluation Team (DET) completed its onsite evaluation. The DET met in Headquarters throughout the week of December 10, 1990 to discuss the findings, develop probable root causes for performance characteristics, and begin preparation of its report. On December 18, 1990, the Team will brief NRR, Region I and the EDO on the Team's findings and preliminary root cause assessment.

Technical Training Center

The second training course to support the Electrical Distribution System Functional Inspections was held at the TTC December 11-13, 1990. Thirty-five personnel representing each Region, NRR and AEOD attended. The training was presented by Sonalysts, Inc. through the TTC's Specialized Technical Training Task Order Contract. A third course is tentatively planned for late Summer 1991.

Studies of Thermal Stratification

As part of AEOD's continuing interest in thermal stratification, preliminary results were presented by Argonne Laboratories of calculations performed to analyse thermal stratification in the surge line of a Westinghouse PWR. The calculations were done using the COMIX code which is a 3-D thermal hydraulics code developed for the NRC and used earlier for analysis of steam generator feedwater nozzle thermal conditions. The calculations compared favorably with temperature data obtained from instrumentation of the surge line at the Comanche Peak plant. Two aspects of the work were noteworthy: (1) it is possible to model the development of thermal stratification with reasonable accuracy and (2) the most severe thermal stratification conditions were calculated to occur at locations which were not instrumented. Calculations are planned for a series of flow conditions in the surge line and for cold water leakage into the safety injection lines.

Preliminary Notifications

The following Preliminary Notifications were issued during the past week.

- a. PNO-II-90-75, West Virginia, University Hospital, Morgantown, WV,  
Docket No. 030-20233, License No. 47-23066-02, RECEIPT OF UNLABELED  
RADIOACTIVE MATERIAL SHIPMENT



- b. PNO-II-90-76, Nuclear Fuel Services, Inc., Erwin, TN, Docket No. 70-143, License No. SNM-124, CONTAMINATED SLUDGE - ERWIN, TN WASTE TREATMENT PLANT
- c. PNO-R11-90-77, Crystal River 3, Docket No. 50-302, SHUTDOWN LONGER THAN 48 HOURS
- d. PNO-II-90-78, Tennessee River Scrap Company, Calvert City, Kentucky, POTENTIALLY CONTAMINATED SCRAP SHIPMENT
- e. PNO-IV-90-43, St. John Medical Center, Tulsa, Oklahoma, License: 35-00376-02, Docket: 030-02872, DIAGNOSTIC DOSE OF IODINE-131 AND TECHNETIUM-99M ADMINISTERED TO A PREGNANT PATIENT
- f. PNO-V-90-49, Washington Public Power Supply System, WNP-2, Docket No. 50-397, Richland, Wash: gton, TRANSFORMER EXPLOSION AND REACTOR TRIP

Office of Governmental and Public Affairs  
Items of Interest  
Week Ending December 14, 1990

Meeting with Spokane Indian Tribe on Dawn Mine

Dean Kunihiro, Region V State Liaison Officer, met with Washington State, Spokane Indian Tribe, and other federal agency officials on December 12, 1990 in Seattle, Washington. The purpose of the meeting was to clarify questions which had been raised with respect to the licensing of source material possession on the Spokane Indian Reservation. The Tribal representatives were also interested in identifying and clarifying the roles of all other governmental agencies that might be involved in the Dawn Mine water clean-up and reclamation project. Mr. Kunihiro informed the representatives from the Spokane Tribe that, as an Agreement State, the State of Washington Department of Health would regulate non-tribal and non-federal activities on Tribal land.

Georgia Radiation Control Program Review Visit

Vandy Miller, Assistant Director, State Agreements Program, and Richard Woodruff, Region II State Agreements Officer, conducted a review visit of the Georgia Radiation Control Program on December 12-14, 1990 in Atlanta, Georgia. The purpose of a review visit is to assess the status of the State's program and to assist the State in preparing for a routine review.

Seventh Annual LLW Generators Conference

B. J. Holt, Region III State Agreements Officer, attended the Seventh Annual Low-Level Waste (LLW) Generators Conference on December 12-13, 1990 in Chicago, Illinois. The Conference, sponsored by the Illinois Department of Nuclear Safety (IDNS), covered the current status of the LLW disposal site selection process in Illinois, progress in other States and regions, issues facing the compact system, disposal facility development plans, new disposal regulations, advances in waste processing and LLW program plans for 1991.

NCSL Environment Committee Considers BRC Policy

Frederick Combs, Assistant Director, State, Local and Indian Relations, Donald Cool, Research, and Mindy Landau, State Programs, participated in the National Conference of State Legislatures (NCSL) State-Federal Assembly on December 13, 1990 in Washington, DC. The Environment Committee adopted an amendment to the NCSL's Policy on Radioactive Waste Management which opposed the NRC's BRC policy. The amendment, sponsored by Illinois State Senator Jerome Joyce, was adopted by a 9-4 vote. However, according to NCSL rules, a three-fourths majority is required to refer such a measure to the Energy Committee. The motion to refer failed by a 8-4 vote. The Environment Committee considered other resolutions concerning high-level and low-level radioactive wastes, but failed to adopt them. The Committee indicated that it will reconsider the waste policy at the May meeting of the State-Federal Assembly.

### Utility Radiological Safety Board of Ohio Meeting

Roland Lickus, Chief, Region III State and Government Affairs, attended the Utility Radiological Safety Board of Ohio (URSB) Meeting on December 14, 1990 in Columbus, Ohio. The Board considered three resolutions to: 1) modify internal rules to enhance interaction with the public; 2) adopt a citizens advisory council to advise the URSB on nuclear power safety issues; and 3) approve URSB comments on behalf of the State supporting the NRC's proposed rule requiring nuclear power plant participation in the emergency response data system. The Board also considered the development of a URSB subcommittee to review the effectiveness of emergency warning sirens in the emergency planning zones around nuclear power plants in Ohio.

### Technical Exchange Visit

On Thursday and Friday, a team from France consisting of P. Chevet of the Central Service for the Safety of Nuclear Installations and J. Brisbois and B. Gouffon of the Atomic Energy Commission met with the technical staff for in-depth discussions on reactor safety topics. The meeting focused on requirements for advanced light water reactors but also included joint presentations on shutdown safety concerns, maintenance and safety system inspections, and high burn-up fuels under accident conditions. This visit was part of the regular technical exchange program that is under way with France.

### Upcoming Meetings of GOSSAT and GEESAT

The interagency Groups on Soviet Science and Technology and Eastern European Science and Technology (GOSSAT and GEESAT) consider exchanges with the Soviet Union and with Eastern Europe, respectively, in the field of science and technology. The Groups were established several years ago to provide interagency consideration of exchange programs with the Soviet Union and Eastern Europe to assure that militarily useful technology would not be exported to these regions.

The changing situations in the Soviet Union and Eastern Europe and these countries' changing relationship with the United States suggest that the role of GOSSAT and GEESAT should change also. The next meeting of these Groups (proposed for January 9) will include consideration of how that role should evolve. It is likely that the role will move from one of restricting to one of coordinating S&T cooperation.

Office of Administration  
Items of Interest  
Week Ending December 14, 1990

Significant FOIA Requests Received by the NRC for 5-Day Period  
December 7 - 13, 1990

Request for three categories of records regarding solicitation No. RS-IRM-91-183. (Devin Walker, Innovative Systems Consulting, FOIA-90-550)

Request for a copy of the enclosures to an October 2, 1990 memorandum to Eric Beckjord from Thomas Murley, subject: Prioritization of Issues from Phase II of the Systematic Evaluation Program. (Michael Donahue of Newman & Holtzinger, P.C., FOIA-90-552)

Request for three categories of records regarding Radiation Technology, Inc., of Rockaway, New Jersey. (Martin Welt, FOIA-90-553)

Request for copies of reports submitted by licensees under 50.33(k)(2) and 50.82. (John Dossett, FOIA-90-557)

Request for 11 categories of records regarding the Quehanna nuclear reactor facility located near Kerihaus, Pennsylvania. (Douglas Brennan, Commonwealth of Pennsylvania, FOIA-90-558)

Office of Information Resources Management  
Items of Interest  
Week Ending December 14, 1990

1. Information Technology Support (ITS) Training for the Workload  
Information Scheduling Program (WISP)

Based on discussions among the Office of Information Resources Management, the Office of Personnel, and the Office of Nuclear Reactor Regulation, the Idaho National Engineering Laboratory version of WISP will be installed on the ITS Training Lab LAN. A pilot training session for Section Chiefs from the Division of Engineering Technology will be held by the end of January 1991, and a pilot session for Project Managers by the end of February 1991. A half-day session for upper level managers will also be scheduled by the end of January 1991.

Office of Personnel  
Items of Interest  
Week Ending December 14, 1990

CFC Victory Rally Held

Paul Bird, NRC's Vice-Chair of the Combined Federal Campaign, and Marthe Harwell, CFC Administrator, attended the CFC Victory Rally held at the Omni Shoreham on Wednesday, December 12. The celebration featured recognition of groups winning the communication competition with Renee Poussaint acting as Mistress of Ceremonies. The Honorable Manuel Lujan, Jr., Secretary of the Interior and Chairman of this year's CFC, reported on the success of the campaign. NRC has exceeded this year's goal by 23% with a current total of \$257,420.

Recruitment Activities Show Results

Results of analyses of recruitment initiatives reveal interest in employment with NRC.

Technical Job Fair, Tysons Corner, Virginia, November 19-20: Frank Elizondo (OP), Jude Himmelberg (OP), Mark Flaigel (NMSS), Dan Gillen (NMSS), Bob Dennig (AEOD), and Kitty Thompson (NRR) interviewed 94 applicants with 66 being recommended for further interviews.

Villanova University, Villanova, Pennsylvania, November 27: Tom King (RES), Joe Kane (NMSS), Gene Kelly (Region I), and John Munroe (Region II) interviewed 15 applicants with 8 being recommended for further interviews.

Drexel University, Philadelphia, Pennsylvania, November 28: Frank Elizondo (OP), Tom King (RES), Joe Kane (NMSS), and Gene Kelly (Region I) interviewed 15 applicants with 5 being recommended for further interviews.

Arrivals

ABRAYTIS, Jon	Section Chief (PFT)	RIII
BOULING, Ramona	Clerk-Typist (PFT)	NRR
CAMPBELL, Stephen	Reactor Systems Engineer (PFT)	NRR
HASHEMI, Conkab	Administrative Intern (Seasonal) (OPFT)*	ADM
HAWKINS, Lisa	Management Intern (Seasonal) (OPFT)*	ADM
MILLER, Michael	Reactor Engineer (PFT)	RIII
MUNRO, John	Sr. Reactor Engineer (PFT)	NRR
MURPHEY, William	Sr. International Safeguards Analyst	NMSS
NAMATH, Lisa	Clerk-Typist (Seasonal) (OPFT)*	NRR
SHACKELFORD, Jeffrey	Reactor Engineer (PFT)	RII
SMITH, James	Health Physicist (PFT)	NMSS
VINER, Douglas	Technical Intern (Seasonal) (OPFT)*	ACRS

NOTE: \* Returning summer interns who may not participate with full orientation

Departures

CLAUSEN, Max	Special Technical Assistant (PFT)	NRR
HOUSTON, Barbara	Secretary (PFT)	NRR
KENDALL, Rick	Sr. Reactor Systems Engineer (PFT)	NRR
ROWE, Donna	Investigator (PFT)	OI
SWANSON, Zian	Office Resident Assistant (OPFT)	R111
WILLIAMS, Mark	Branch Chief (PFT)	AEOD

Office of Enforcement  
Items of Interest  
Week Ending December 14, 1990

Significant Enforcement Actions

1. A Notice of Violation and Proposed Imposition of Civil Penalty in the amount of \$800 was issued on December 10, 1990 to McCallum Testing Laboratories, Inc., Chesapeake, Virginia. This action is based on failure to prevent loss of control of a moisture density gauge that was unsecured and in a truck that was loaned to a non-employee who left it unattended and running. Subsequently, the truck, and consequently the gauge, was stolen. (EN 90-111)
2. An Order Imposing Civil Penalty was issued today, December 13, 1990, in the amount of \$75,000 to Arizona Public Service Company (Palo Verde, Units 1, 2, and 3). The action was based on a violation involving the failure to have an adequate program to ensure that all licensed operators are medically qualified as required by 10 CFR Part 55. The licensee responded to the Notice of Violation and Proposed Imposition of Civil Penalty, dated September 24, 1990, in a letter dated October 25, 1990. The licensee admitted the violations, as stated, but requested mitigation of the civil penalty. After careful consideration of the licensee's response, the staff has concluded that the licensee did not provide a sufficient basis for mitigation of the civil penalty. (EN 90-88A)

Civil Penalty Paid

West Shore Hospital, Manistee, Michigan, paid the civil penalty in the amount of \$4,375. The action was based on an incident in which a technician, who had not received adequate training, injected a patient with approximately 20 times the quantity of diagnostic radiopharmaceutical needed to perform a nuclear medicine image. (EA 90-172)



Office of Consolidation  
Items of Interest  
Week Ending December 14, 1990

Second Building Status

On December 14, the General Services Administration (GSA) received a letter from WFN Partnership proposing new rent rates and purchase option terms under which WFN would be willing to complete the lease negotiations. GSA was still evaluating the WFN proposal at the end of the week.

The Office of Consolidation provided updated estimates to GSA of NRC costs that would be avoided if Two White Flint North were constructed next door rather than putting NRC's second building at an alternate site within a mile of One White Flint North.

Region I  
Items of Interest  
Week Ending December 14, 1990

1. Seabrook Nuclear Power Station

A full-participation exercise was conducted at Seabrook Nuclear Power Station on December 13, 1990. In addition to NRC observers evaluating the licensee's performance, FEMA had in excess of 150 observers evaluating the State of New Hampshire and New Hampshire town's response activities, as well as the licensee's implementation of its compensatory plan for Massachusetts communities.

2. Allied-Signal Site Remediation

Remediation activities were completed this week at Allied-Signal Bendix Aerospace Corporation, Teterboro, New Jersey, a location included in the Site Decommissioning Management Plan (SDMP). This site was first identified in January, 1988, during a Department of Energy survey which discovered drums of thorium contaminated material buried in the bank of a drainage ditch. Bendix had owned and operated a magnesium-thorium foundry on about 100 acres under a license originally issued by the Atomic Energy Commission. The drums were located on a portion of the property which Allied Signal Bendix Aerospace (Bendix) had sold since they closed the foundry. NRC Region I representatives surveyed the drainage ditch and met with representatives of Bendix and the property owners to discuss the need for remediation of the site. Bendix representatives agreed to provide a retaining wall along the drainage ditch until a plan was approved for the removal and disposal of the drums and soil contaminated with thorium. They also agreed to perform sampling on both sites to determine if any other radioactive material was present. Bendix's characterization of the site and their remediation plan were approved in early December 1990 and removal of the drums began on December 5, 1990. Approximately 4,000 cubic feet of contaminated material was placed into 45 B-25 boxes for disposal. Shipping is expected to be completed by December 12, 1990. Samples taken by Bendix's contractors indicate that no thorium remains in excess of normal background levels. Confirmatory samples are being analyzed in the NRC Region I Laboratory. Final results of Bendix's contractor's surveys and analyses will be submitted to the Region I Office in January 1991, with a request to release the site for unrestricted use. If the site is found acceptable for unrestricted release it will be removed from the SDMP.

3. Haddam Neck

The Haddam Neck Refueling Water Storage Tank has been reported to have an increased leakage rate from 5 gpd to 30 gpd over a period of three months. The licensee is reviewing the leak status trend and considering further inspection techniques to characterize the cause of the leakage and formulate guidance for plant operations as a function of the leak rate observations.

The tank is an upright 35 foot diameter cylinder of AL 5052F aluminum plate with a domed head and flat bottom resting on a concrete support ring with a bed of sand supporting the central plate area. Observation of leakage indicates that the leak is from the bottom plate area over the sand base. The bottom plate is constructed of a system of 1/4 and 5/16 lap and butt welded plates, which, during past inspections, has been observed to have some flexibility when walked upon by personnel.

Corporate engineering has reviewed the structural function of the bottom plate and concluded it is a low stressed area (because of sand support) and that the leak may be a function of some form of local structural penetrations (corrosion, weld cracking). There is a question of the effectiveness of paint protection that may or may not have been present on the underside of the tank bottom. Engineering concludes from the 30 gpd rate estimate that the flaw is a small one. Recent measurements of leak rate indicate the rate to be leveling off.

The licensee considers the leak rate not to be a safety issue; however, actions by the licensee are trending the leak rate and considering the possibility of submarine UT inspection. Also, guidelines for operations based on the leak rate observations will be formulated by the licensee. The licensee will review the status of this issue with NRC personnel during a meeting on 19 December 1990 at the Haddam Neck site.

Region II  
Items of Interest  
Week Ending December 14, 1990

1. Virginia Electric and Power Company

On December 10, the Regional Administrator presented certificates to newly licensed operators at the Surry facility.

2. Nuclear Fuel Services

On December 12, the Regional Administrator; the Director, Division of Radiation Safety and Safeguards; and other members of the Regional and NMSS Staff, conducted a management meeting at the Nuclear Fuel Services, Inc. facility in Erwin, Tennessee to review the results of the investigation of the recent inadvertent transfer of uranium-235 in amounts exceeding the licensee's criticality safety limits. Prior to the management meeting, regional and headquarters staff had been on site starting on December 1, to review licensee actions associated with the incident which the licensee had identified on November 30. The NRC staff verified the licensee's investigation findings and reviewed the resulting corrective actions which included substantial hardware and procedural changes and retraining of operating personnel.

On December 13, Deputy Executive Director for Nuclear Materials Safety, Safeguards and Operational Support, the Regional Administrator; the Director, Division of Radiation Safety and Safeguards; the Director, Division of Industrial and Medical Nuclear Safety and other headquarters and regional staff met with the licensee to review progress on the licensee's Performance Improvement Program for Nuclear Criticality Safety and to discuss other matters of mutual interest. There was also a tour of selected areas at the site.

3. Surry Emergency Exercise

Surry conducted their annual emergency exercise on December 12, 1990. The exercise involved the licensee only, with State and local government participation limited to communication to support the exercise. The exercise was successful, with one exercise weakness involving the control of repair party teams (maintenance personnel).

4. Tennessee Valley Authority (TVA)

On December 12, TVA presented their progress on missing QA records at Watts Bar. TVA claimed few records inaccuracies. TVA discussed a records sampling plan and will follow-up with a formal submittal by December 25, 1990.

On December 12, TVA presented their corrective action program enhancements. Program implementation is planned for February 1991.

5. Entergy Operations, Inc. - Grand Gulf

On December 10, 1990, a loss of instrument air occurred at Grand Gulf causing an ECCS injection and reactor scram from 100 percent. The loss was due to an airline break in the turbine building at a solder joint in a filter station which had been installed during the last refueling outage. The licensee inspected all other filter stations and identified one additional solder joint needing repair. All repairs were completed and the plant was started on December 12, 1990.

6. University of Virginia Emergency Drill

On December 11, the University of Virginia held its annual Emergency Drill. The drill demonstrated that the licensee could adequately respond to a simulated emergency. There was one finding, that the local hospital, which is in a new building, could not yet accommodate a contaminated injured person. The licensee would have to use a hospital in Richmond, about one hour away. The local hospital will have facilities for a contaminated, injured patient in about 30 days.

Region III  
Items of Interest  
Week Ending December 13, 1990

1. FEMA Region V

On December 13, 1990, A. Bert Davis, Regional Administrator, and selected regional staff met with Arlyn Brower, the newly-appointed Regional Director for FEMA Region V, to discuss issues of mutual interest.

2. Radiation Sterilizers Inc. (RSI)

During the week of December 10, 1990, a regional Radiation Specialist was dispatched to the Westerville, Ohio, site to monitor the removal of the cesium-137 WESF capsules from the irradiator pool. The sources are being returned to the Department of Energy because of generic problems that were previously identified at a similar RSI facility.

3. Duane Arnold Energy Center

A management meeting was conducted at Duane Arnold on December 12, 1990. H. J. Miller, Director, Division of Reactor Projects, Region III, John A. Zwolinski, Assistant Director, Region III Reactors, NRR, J. N. Harmon, Director, Project Directorate III-3, NRR, and other Region III and NRR staff met with D. Mineck, Manager, Nuclear Division, Iowa Electric Light and Power Company, and other members of his staff. Engineering priorities and other topics of mutual interest were discussed.

4. Kewaunee Nuclear Power Plant

A management meeting was held at the Wisconsin Public Service (WPS) corporate office on December 14, 1990. H. J. Miller, Director, Division of Reactor Projects, and other members of the Region III staff met with C. Steinhardt, Assistant Vice President, WPS, to discuss recent Kewaunee Nuclear Power Plant performance and other issues of mutual interest.

5. D. C. Cook and LaSalle Nuclear Plants

Commissioner James R. Curtiss was accompanied by Dr. Carl Paperiello, Deputy Regional Administrator, Region III, for a tour of the D. C. Cook site on December 10, 1990. Commissioner Curtiss and C. E. Norelius, Director, Division of Radiation Safety and Safeguards, toured the LaSalle site on December 11, 1990.

6. Commonwealth Edison Company

On December 13, 1990, J. A. Zwolinski, Assistant Director for Region III Reactors, NRR, and W. D. Shafer, Chief, Reactor Projects Branch 1, Region III, and other members of the NRC staff met with representatives of Commonwealth Edison Company at their corporate office to discuss items of mutual interest.

On December 13, 1990, A. Bert Davis, Regional Administrator, Region III, J. A. Zwolinski, Assistant Director for Region III Reactors, NRR, and other NRC staff members met with Management Analysis Corporation (MAC) representatives and senior Commonwealth Edison Company management in the Region III office to discuss MAC's independent cultural assessment at the Zion Station.

7. Braidwood Nuclear Power Station

On December 11, 1990, Dr. C. J. Paperiello, Deputy Regional Administrator, Region III, J. A. Zwolinski, Assistant Director for Region III Reactors, NRR, and other NRC staff members met with Commonwealth Edison Company representatives at the Braidwood Station to conduct an enforcement conference related to the loss of control of plant systems by the operating staff during the October 4, 1990, loss of reactor coolant system inventory event.

8. Perry Nuclear Power Plant

On December 11, 1990, the licensee, in accordance with 10CFR21, reported that six installed scram solenoid pilot valves would not operate as designed, (i.e. valves did not shift upon being de-energized). These six valves were procured as part of a 70 valve purchase. At the time of the report, 41 valves from the purchase were installed. All valves from this purchase have been removed and replaced. The probable cause for the failure of these valves has not been identified.

9. Davis-Besse Nuclear Power Station

On December 11, 1990, A. Bert Davis, Regional Administrator, and other staff members met with representatives of Toledo Edison Company for a periodic management meeting on activities at the Davis-Besse Nuclear Power Station.

Region V  
Items of Interest  
Week Ending December 14, 1990

1. San Onofre Nuclear Generating Station (SONGS)

Region V held an enforcement conference at the regional office with members of the Southern California Edison (SCE) staff on December 11, 1990. The purpose of the meeting was to discuss two apparent violations of NRC requirements at the San Onofre Nuclear Generating Station facility in San Clemente, California. The first issue discussed concerned the inoperability of the steam driven auxiliary feedwater pump because of an isolated steam trap in Unit 2. The other apparent violation dealt with the degradation of Unit 3 containment integrity and engineered safety features systems due to a mispositioned containment sump valve. The licensee will be advised at a later date regarding possible enforcement action.



Region IV  
Items of Interest  
Week Ending December 14, 1990

1. URFO Meeting with ANC and NUKEM

Representatives of ANC and NUKEM met with the Director and Deputy Director of URFO, the Chiefs and staff of the Operations and Technical Branches, LLWMD and a representative of OGC in OWFN on December 10. ANC and NUKEM, who recently purchased part of ANC, requested the meeting to discuss possible business ventures they are exploring for ANC's Gas Hill Uranium Mill site in western Wyoming. Among the items discussed were the licensing requirements to develop commercial disposal of byproduct and naturally occurring radioactive material, either in the existing mill tailings piles or in newly constructed disposal cells. The mill site is currently being reclaimed in accordance with a plan approved by NRC in the early 1980s.

2. Enforcement Conference With Muskogee Regional Medical Center

An enforcement conference was held on December 13, 1990, at the Region IV office to review the findings related to an inspection conducted at the licensee's facility in response to NRC's notification of a therapeutic misadministration. The misadministration occurred during February - March 1990, but was not identified by the licensee until September 1990. The conference focused on procedural oversights which contributed to the treatment error and the licensee's failure to identify the misadministration promptly, a violation of NRC's reporting requirements for therapeutic misadministrations, and management oversight of program activities.

3. South Texas Project Electric Generating Station (STPEGS)

The Group Vice President, Nuclear of the Houston Lighting & Power Company, and other members of his staff, met at the Region IV office on December 13 to provide the Regional Administrator with an overview of the STPEGS Operational Improvement Plan. This plan was developed, in part, on the basis of findings from licensee self-assessments, NRC inspections, and third-party reviews. The primary objectives of the plan are to improve STPEGS availability, reliability, material condition, and organizational performance.

4. Differing Professional View (DPV) Summary

Region IV completed the analysis of a DPV submitted in regard to changes in the Fort Calhoun license that authorized modifications to the procedure for moving fuel bundles from the core to the spent fuel pool. The DPV stated that the removal of an electrical interlock increased the likelihood of putting a low-burnup assembly into a nonpoisoned portion of the spent fuel racks which in turn would decrease the effective shutdown margin below an acceptable level. The DPV Panel determined that removal of the electrical interlock did not result in an unacceptable level of safety because of the design considerations involved and the additional compensating measures incorporated by Amendment 133 to the license.

DECEMBER 14, 1990

## NRR MEETING NOTICES

December 7, 1990

<u>DATE/TIME</u>	<u>NUMBER</u>	<u>LOCATION</u>	<u>PURPOSE</u>	<u>APPLICANT/ ATTENDEES</u>	<u>NRR CONTACT</u>
12/19/90 9:00-12:00	50-202 50-306	One White Flint North Room 8B-11	Meeting with Northern States Power Co. to resolve the concerns of Bulletin 88-08.	NRC/NSPC	D. DiIanni
12/20/90 1:30	None	One White Flint North Room 8B11	Meeting with BWROG & NRC management to discuss current BWROG topics & status on open issues.	NRC/BWROG/GE	A. Thadani
01/09/91 8:30-12:00	None None	One White Flint North Room 8B-11	Meeting with BWROG on BWR Thermal HYDRAULIC STABILITY.	NRC/GE/BWROG/ORNL	H. Richings
01/10/91 9:00-12:00	None	One White Flint North Room 10B-13	Meeting with GE to discuss fuel failure status.	NRC/GE	S. WU
01/10/91 10:30-12:00	50-293	One White Flint North Room 12B-11	Meeting with Boston Edison Co. to brief NRC on current and future licensing actions.	NRC/Pilgrim	R. Eaton
01/16/91 9:00	50-333	One White Flint North Room 10B-11	Meeting with The Power Authority of the State of New York for the James A. Fitzpatrick Nuclear Power Plant.		
01/22/91 01/23/91 01/24/91 8:30-5:00	None	One White Flint North Room 6B-11(Tues.& Thurs.) 2F-21(Wed.)	Meeting with NUMARC to discuss the resolution of NRC staff comments on the Industry Reports for BWR Reactor Pressure Vessel & BWR Reactor Vessel Internals.	NRC/NUMARC	R. Parkhill, Sr.
01/23/91 9:00-4:00	50-336	One White Flint North Room 2F-17	Meeting with Northeast Utilities to discuss the Millstone 2 Steam Generator Replacement program.	NRC/NEU	G. Vissing

ENCLOSURE 0

December 14, 1990

NMSS Meeting Notices

Division of Safeguards and Transportation

<u>Date/Time</u>	<u>Docket Number</u>	<u>Location</u>	<u>Purpose</u>	<u>Attendees/ Applicant</u>	<u>NRC Contact</u>
12/17		Atlanta, GA	Threat Assessment Briefing at RII	NRC	M. Smith
01/16/91 9:00-11:30		OWFN	BR-100 Spent Fuel Ship. Cask, Crit. & Shield.	NRC DOE B&W	C. Withee

Division of High-Level Waste Management

<u>Date/Time</u>	<u>Docket Number</u>	<u>Location</u>	<u>Purpose</u>	<u>Attendees/ Applicant</u>	<u>NRC Contact</u>
12/18		OWFN 6B-11	Briefing by DOE Office of Civilian Radioactive Waste Management	NRC DOE	J. Holonich

DECEMBER 14, 1990

ENCLOSURE 0

DECEMBER 14, 1990

Division of Low-Level Waste Management and Decommissioning

<u>Date/Time</u>	<u>Docket Number</u>	<u>Location</u>	<u>Purpose</u>	<u>Attendees/ Applicant</u>	<u>NRC Contact</u>
1/8		St. Louis, MO	To attend TCC Meeting	NRC	J. Surmeier
1/21-25		Raleigh, NC	To Participate in the Health Physics Society Meeting	NRC	J. Greeves
1/23-25		San Diego, CA	To Attend and Participate in the LLW Forum Meeting	NRC	P. Lohaus

Division of Industrial and Medical Nuclear Safety

<u>Date/Time</u>	<u>Docket Number</u>	<u>Location</u>	<u>Purpose</u>	<u>Attendees/ Applicant</u>	<u>NRC Contact</u>
12/17-18 3:00 p.m.	72-10	St. Paul, MN	To attend Minnesota Environmental Quality Board public meeting on Prairie Island ISFSI	NRC RIII	F. Sturz

ENCLOSURE 0

DECEMBER 14, 1990

November 2, 1990

Region I Meeting Notices

<u>Date/Time</u>	<u>Docket Number</u>	<u>Location</u>	<u>Purpose</u>	<u>Attendees/ Applicant</u>	<u>NRC Contact</u>
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There are no meetings scheduled with Region I and licensees, thus far, for the period covering 12/24/90 thru 1/11/91.

ENCLOSURE 0

December 14, 1990

RII MEETING NOTICE

<u>DATE/TIME</u>	<u>DOCKET NUMBER</u>	<u>LOCATION</u>	<u>ATTENDEES/ PURPOSE</u>	<u>APPLICANT</u>	<u>NRC CONTACT</u>
12/18/90 10:00 a.m.		Waynesboro, GA	SALP Presentation - Vogtle	Regional Administrator, Regional and NRR staff, Licensee	Ebnetter
12/19/90 10:00 a.m.		Southport, NC	SALP Presentation - Brunswick	Regional Administrator, Regional and NRR staff,	Ebnetter
12/20/90		Baxley, GA	Com. Rogers at Hatch Plant for site familiarization visit	Commissioner, Tech. Asst. and Deputy RA	Milhoan
01/08/91 10:30 a.m.		RII Office	Enforcement Conference VEPCO - Surry	Deputy RA, Regional staff and Licensee	Milhoan
01/11/91 8:00 a.m.		Jensen Beach, FL	SALP Presentation - St. Lucie	Regional Administrator, Regional and NRR staff, Licensee	Ebnetter
01/18/91 1:30 p.m.		RII Office	Enforcement Conference FPC - Crystal River	RA, Regional staff, and Licensee	

DECEMBER 14, 1990

ENCLOSURE Q

DECEMBER 14, 1990

Region III Meeting Notices

<u>Date/Time</u>	<u>Docket Number</u>	<u>Location</u>	<u>Purpose</u>	<u>Attendees Applicant</u>	<u>NRC Contact</u>
01/07/91	50-155	Big Rock Point	Site Visit	Commissioner Curtiss and selected members of RIII staff	Miller

ENCLOSURE Q

DECEMBER 14, 1990

Region IV Meeting Notice

December 14, 1990

<u>Date/Time</u>	<u>Docket Number</u>	<u>Location</u>	<u>Purpose</u>	<u>Attendees/ Applicant</u>	<u>NRC Contact</u>
12/20/90 10:30	50-285	RIV Office	General discussions with Omaha Public Power District management.	OPPD	R.Martin

ENCLOSURE 0



DECEMBER 14, 1990

December 14, 1990

Region V Meeting Notice

<u>Date/Time</u>	<u>Docket Number</u>	<u>Location</u>	<u>Purpose</u>	<u>Attendees/ Applicant</u>	<u>NRC Contact</u>
1/8-9/91		Region II	J. Martin attending Sr. management meeting in Region II	J. Martin	J. Martin

ENCLOSURE 0