



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II
101 MARIETTA ST., N.W., SUITE 3100
ATLANTA, GEORGIA 30303

Report No. 70-1151/80-14

Licensee: Westinghouse Electric Corporation
Columbia, SC

Facility Name: Nuclear Fuel Division

Docket No. 70-1151

License No. SNM-1107

Inspector: D. J. Perrotti
D. J. Perrotti

6/6/80

Date Signed

Approved by: G. R. Jenkins
G. R. Jenkins, Section Chief, FFMS Branch

6/6/80

Date Signed

SUMMARY

Inspected Dates May 19-23, 1980

Areas Inspected

This routine unannounced inspection involved 31 inspector-hours on site in the areas of Coordination with Offsite Support Agencies; Emergency Facilities, Equipment and Procedures; Emergency Training; Emergency Drills and follow-up on previous inspection findings.

Results

Of the five areas inspected, no apparent items of noncompliance or deviations were identified in four areas; one item of noncompliance was found in one area (Deficiency - failure to complete first-aid training for all shift supervisors and health physics technicians).

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DETAILS

1. Persons Contacted

Licensee Employees

- *M. D'Amore, Plant Manager
- *C. Sanders, Manager, Radiological and Environmental Engineering
- *W. Goodwin, Manager, Regulatory Compliance
- *W. Britton, Manager, Manufacturing
- *W. Mell, Manager, Safety
- *R. Fischer, Emergency Plan Coordinator
- I. Weatherford, Manager, Health Physics Operations
- G. Lowder, General Supervisor, Chemical Operations
- V. Byerly, RN, Senior Health Administrator
- J. Hooper, Training Instructor
- T. Ritter, Major Security Force

Other licensee employees contacted included 2 technicians, one mechanic, and one security force member.

Other Organizations

- W. Vestal, Carolina Ambulance Service
- J. Cowan, Carolina Ambulance Service
- D. Campbell, Radiation Safety Officer, Richland Memorial Hospital
- R. Johnson, Captain, Richland County Sheriff's Office
- H. Evans, Chief, Columbia Fire Department

*Attended exit interview

2. Exit Interview

The inspection scope and findings were summarized on May 23, 1980, with those persons identified in paragraph 1 above. The licensee acknowledged the inspectors remarks regarding the item of noncompliance pertaining to first aid training, and stated that the training would be completed for shift supervisors and HP technicians during June and July 1980.

3. Licensee Action on Previous Inspection Findings

- a. (Closed) Infraction - Failure to Hold Emergency Drills to Familiarize Employees with Specific Duties (70-1151/78-01-01). The inspector reviewed the corrective action on this item as stated in Westinghouse letter of April 20, 1978, and verified that the corrective actions were completed. Further details on emergency drills are contained in paragraph 8.

- b. (Closed) Unresolved Item - The Emergency Plan and Implementing Procedures were General and Non-specific. The Emergency Plan was revised to meet 10 CFR 50, Appendix E requirements and approved by NRC Licensing on April 16, 1979. The inspector reviewed eighteen Emergency Implementing Procedures and verified that each type of emergency was specifically covered.

4. Unresolved Items

Unresolved items were not identified during this inspection.

5. Coordination With Offsite Support Agencies

- a. This area was reviewed with respect to the licensee's commitments to maintain contact and coordination with the offsite agencies as described in the Emergency Plan.
- b. The inspector reviewed the licensee's emergency implementing procedures, written letters of agreement with offsite support agencies and the list of offsite support agencies specified in the Emergency Plan to verify that:
 - (1) Detailed procedures have been established describing methods for notifying Local, State, Federal officials and other offsite support agencies in the event of a radiation emergency.
 - (2) Arrangements for the services of a physician and other medical personnel qualified to handle radiation emergencies have been established.
 - (3) Arrangements for the transportation and treatment of injured or contaminated individuals at a treatment facility outside the site boundary have been established.
- c. The inspector contacted four offsite agencies and met with officials of one of these agencies to verify that contact is being maintained by the licensee and that services, as described in the letter of agreement, can be provided.
- d. The inspector used the following acceptance criteria for the inspection and evaluation of the above areas.
 - (1) Emergency Plan, Section 5.4 and Appendix A.

Within the areas inspected, no items of noncompliance or deviations were identified.

6. Facilities, Equipment, and Procedures

a. Changes to Facilities, Equipment and Procedures

- (1) The inspector reviewed established management controls and interviewed licensee personnel to determine if changes had been made to the emergency plan, emergency implementing procedures, emergency facilities and equipment since the last inspection.
- (2) The review of this area, with respect to changes, was conducted to verify that:
 - (a) Changes did not constitute an unreviewed safety question.
 - (b) Changes did not alter the requirements set forth in the Emergency Plan.
 - (c) Changes were reviewed and approved in accordance with established plant procedures.
 - (d) The Emergency Plan notification roster (names, telephone numbers), was updated.
- (3) The inspector used the following acceptance criteria for the inspection and evaluation of the above areas.
 - (a) Emergency Plan, Section 8.2

Within the areas inspected, no items of noncompliance or deviations were identified.

b. Emergency Kits

- (1) The inspector reviewed selected maintenance and inventory records along with a physical inspection and inventory of emergency kits and equipment located in the control room, office area, plant emergency vehicle, guard shack, and medical area. Types of emergency equipment selected for inspection and inventory included self-contained breathing apparatus (SCBA), respirators, survey meters, air samplers, communication equipment, control center instrumentation, emergency kit supplies, pocket dosimeters, and pocket dosimeter chargers.
- (2) The review and inspection of emergency kits and equipment was conducted to verify that:
 - (a) The required periodic inventory, maintenance, and calibration of emergency equipment and emergency kits were being conducted.
 - (b) The physical condition and content of emergency kits and supplies are being maintained in a state of readiness.

- (c) The emergency kits, supplies, and portable instrumentation are at various locations as required by the Emergency Plan and Emergency Implementing Procedures.
- (3) The inspector used the following acceptance criteria for the inspection and evaluation of the above areas:
 - (a) Emergency Plan, Sections 7.3.2, 7.4, and Appendix D
 - (b) HP Operations Procedure, "Checking and Stocking HP Emergency Cabinets"

Within the areas inspected, no items of noncompliance or deviations were identified.

c. Emergency Communications

- (1) This area was reviewed with respect to the licensee's commitment to maintain and have available various types of communication systems within the plant for emergency use as described in the Emergency Plan.
- (2) The inspector observed the physical location of communications in the control room, guard shack and MIS office to verify the availability of the communication systems are as required by the Emergency Plan.
- (3) The inspector interviewed licensee employees to verify that the plant emergency alarm tests have been satisfactorily performed at the required frequency. The inspector observed a test of the fire and criticality evacuation alarms, including the blue flashing lights, on May 22, 1980.
- (4) The inspector used the following acceptance criteria for the inspection and evaluation of the above areas:
 - (a) Emergency Plan Section 7.2

Within the areas inspected, no items of noncompliance or deviations were identified.

d. Detecting and Alarm Systems

- (1) This area was reviewed with respect to the licensee's commitment to maintain and have available various types of detecting and alarm systems as described in the Emergency Plan.
- (2) The inspector observed the physical location of several blue flashing light units at entry points into the controlled area.

- (3) The inspector observed radiation survey instrumentation and air samplers, and checked calibration stickers on emergency type survey meters. Review of calibration records of portable survey instruments was performed during a previous inspection (IE Report No. 70-1151/80-3).
- (4) The inspector observed criticality controls in the controlled areas and also noted that personnel neutron monitoring badges were available. Review of criticality alarm system calibration records was performed during a previous inspection (IE Report No. 70-1151/80-10).
- (5) The inspector observed the field recording meteorological equipment for wind speed and direction and discussed calibration and setting up of the equipment with a licensee representative.
- (6) The inspector used the following acceptance criteria for inspection and evaluation of the above area:
 - (a) Emergency Plan, Sections 7.2.5, 7.2.6, 7.2.7, and 7.3.1.

Within the areas inspected, no items of noncompliance or deviations were identified.

e. Emergency Power Supply

Section 7.4.3 of the Emergency Plan states that two independent standby diesel generators, 250 and 300 kw are available to power vital areas in the plant, such as control system, alarm and safety systems, ventilation systems, etc. The inspector discussed this matter with licensee representative and was informed that two additional diesel generators (500 kw each) were recently installed to provide additional power for increased manufacturing capacity and for running ventilation systems in the event of a power outage. The inspector observed the new diesel generators and asked about an operability test similar to that being used for the older diesels. The inspector was informed that final test run procedure was being formulated and that all four diesels are test run for approximately fifteen minutes each week. The inspector reviewed the test run log on the older diesels and verified weekly test runs had been performed up through May 1980. The inspector had no further questions.

f. Medical and Decontamination Facilities

- (1) This area was reviewed with respect to the licensee's commitment to provide emergency first aid and personnel decontamination facilities, including medical supplies and equipment for first aid treatment, which are described in the Emergency Plan.
- (2) The inspector performed a physical inspection of equipment and supplies at the medical area and decontamination facility, reviewed records of first aid training, and inspected equipment and supplies for personnel decontamination to verify that:

- (a) The first aid training had been conducted.
 - (b) That emergency equipment and supplies were in good condition and available in specified areas and required quantities.
- (3) The inspector used the following acceptance criteria for the inspection and evaluation of the above areas:
- (a) Emergency Plan Sections 7.5 and 8.1.1.3

Within the areas inspected, the inspector identified one item of noncompliance. This item is discussed in paragraph f.(4) below.

(4) First-Aid Training

- (a) Section 8.1.1.3 of the Emergency Plan states, "All shift supervisors and health physics technicians will be required to attend a First Aid training course." From a review of training records, training schedules and interviews with several licensee personnel, it was determined that three shift supervisors and three health physics technicians have been in their respective job positions for a minimum of one year and have not received the required First Aid training. From a review of training records and discussions with the first aid training instructor, the inspector verified that each shift had a minimum of one qualified First Aid trained person, and that there were over one hundred qualified first aiders. The inspector discussed this matter at the exit interview and the licensee committed to having the three shift supervisors and one HP technician attend the June session, and the remaining two HP technicians attend the next training session, which will probably be conducted in July. The inspector acknowledged the licensee's comments and stated that this finding constituted noncompliance with SNM-1107, License Condition 17, which incorporated the Emergency Plan on April 16, 1979 (70-1151/80-14-01).

7. Emergency Training for Licensee Employees and Offsite Groups

- a. This area was reviewed with respect to the licensee's commitments as described in the Emergency Plan to conduct emergency training for licensee employees and offsite groups whose assistance may be needed in the event of a radiological emergency.
- b. The inspector reviewed personnel training records along with training schedules and training course content to verify that:
 - (1) Emergency training had been given to the following categories of personnel: emergency director, emergency coordinators, emergency team leaders, emergency team members, general employees, fire fighting teams, and non-licensee offsite groups.

- (2) Personnel are informed of changes in Emergency Plan and Emergency Implementing Procedures.
 - (3) The training courses covered the material specified by the Emergency Plan or Procedures.
- c. The inspector interviewed one individual from the above categories to verify that training had been provided as documented in the training records.
 - d. The inspector viewed a 60-minute video tape used for general training in radiation safety. The tape covered instructions in criticality control, evacuation and accountability, and included actual audio presentations of the fire and criticality evacuation alarms.
 - e. The inspector used the following acceptance criteria for the inspection and evaluation of the above area:
 - (1) Emergency Plan Section 8.2.1

Within the areas inspected, no items of noncompliance or deviations were identified.

8. Emergency Drills

- a. This area was reviewed with respect to the licensee's commitments as described in the Emergency Plan for the planning, execution and evaluation of emergency drills.
- b. The inspector reviewed records, reports, and discussed with a licensee representative the most recently conducted drills in the areas of a full-scale radiation emergency drill, fire emergency, and medical emergency to verify that:
 - (1) The required drills were performed at the prescribed frequency.
 - (2) Appropriate corrective actions are being initiated to correct identified deficiencies.
 - (3) Changes to the Emergency Plan or Procedures, as a result of deficiencies identified during the drill, have been reviewed and approved by licensee management.
- c. As a followup to a previously identified item of noncompliance (70-1151/78-01-01), the inspector reviewed the commitment made by the licensee in correspondence dated April 20, 1978. The commitment involved the conduct of various drills prior to August 31, 1978. The inspector reviewed critique records and discussed the following drills with the Emergency Plan Coordinator.

- (1) Contaminated Casualty Transfer Drill (8-30-78)
- (2) Criticality Evacuation Drills for 2nd and 3rd shifts (8/16-24/78)
- (3) Fire Drill in the Computer Room (8-26-78).

The inspector verified, from a review of the Emergency Plan and Implementing Procedures that discrepancies that were identified by licensee observers during the drills had been corrected. The inspector had no further questions.

- d. The inspector used the following acceptance criteria for the inspection and evaluation of the above area:

- (1) Emergency Plan Section 8.1.2

Within the areas inspected, no items of noncompliance or deviations were identified.

9. Emergency Organization

- a. This area was reviewed with respect to the licensee's commitment as described in the Emergency Plan, for developing the organizations for coping with radiation emergencies.
- b. The inspector reviewed licensee's organization charts, Emergency Rosters, Emergency Implementing Procedures and interviewed licensee management representatives to verify that:
 - (1) Specific authority, responsibilities and duties have been defined and assigned for the onsite emergency organization, offsite emergency organization, and specified outside support agencies.
 - (2) The individuals assigned on the emergency call list is current as to names, addresses, and telephone numbers.

The inspector used the following acceptance criteria for the inspection and evaluation of this area:

- (1) Emergency Plan Section 5.1

Within the areas inspected, no items of noncompliance or deviations were identified.