



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

Report No. 70-1151/80-19

Licensee: Westinghouse Electric Corporation
Nuclear Fuel Division
Columbia SC 29205

Facility Name: Westinghouse Nuclear Fuel Division

Docket No. 70-1151

License No. SNM-1107

Inspector: W. H. Miller, Jr.

8/12/80
Date Signed

Approved by: T. E. Conlon, Section Chief, RC&ES Branch

8/12/80
Date Signed

SUMMARY

Inspection on July 21-22, 1980

Areas Inspected

This routine, unannounced inspection involved 9 inspector-hours onsite in the areas of fire protection/prevention.

Results

Of the areas inspected, no items of noncompliance or deviation were identified.

DETAILS

1. Persons Contacted

Licensee Employees

*W. J. Hartinett, Manager Material

*C. F. Sanders, Manager Radiological & Environmental Engineering

*W. S. Mell, Manager Safety

*Attended exit interview

2. Exit Interview

The inspection scope and findings were summarized on July 22, 1980 with those persons indicated in Paragraph 1 above.

3. Licensee Action on Previous Inspection Findings

Not inspected.

4. Unresolved Items

Unresolved items are matters about which more information is required to determine whether they are acceptable or may involve noncompliance or deviations. New unresolved items identified during this inspection are discussed in paragraph 5.a and 5.c.

5. Fire Prevention Program

a. Fire Brigade Organization and Training

A review of the emergency brigade organization indicated two brigades per shift. The primary brigade is composed of maintenance employees and the secondary or backup brigade is composed of conversion (production) area employees. The personnel on the primary brigade normally work Monday through Friday; therefore, the plant protection for weekends and holidays must be provided by the secondary or conversion brigade. The licensee advised that all brigade members except three, have attended a 16 hour advanced fire fighting training course at York Technical College, Rock Hill, South Carolina. Additional training is provided periodically at the plant site.

The training records for the brigade were reviewed and it was noted that each brigade had been offered seven training sessions in 1979 but only one session between January and July of 1980. This session was on May 6. Another session is scheduled for July 28. A review of the shift work schedules indicated that on some holidays and weekends only one or two brigade members appear to be scheduled to work. The existing brigade size and training frequency appears inadequate.

The industry standard for fire brigade organization and training is National Fire Protection Association Manual 27 (NFPA-27), Private Fire Brigades. Sections 10 and 22 of NFPA-27 states that the plant management should establish the size and organizational structure of a fire brigade. The exact requirement should be determined based on the plant size, type of construction, fire protection features available and the potential magnitude of a fire emergency. Section 40 of NFPA-27 states that training sessions for the brigades should be held at least monthly.

Section 2.5 of the licensee's Application for a Material Licensee states in part that written emergency procedures will be maintained, selected personnel will be organized and trained to cope with various credible emergency situations and emergency drills will be held semi-annually. Section 8 of the licensee's site Emergency Plan states that persons assigned specific duties during an emergency will receive additional training appropriate to their assignments. Section 8.1.1.4 of the Site Emergency Plan states that special training will be given to the employees who serve on the fire fighting teams. However, there does not appear to be a licensee condition nor a commitment by the licensee as to the exact size, training and organizational structure of the brigade. This item is identified as Unresolved Item (1151/80-19-1), substandard fire brigade, pending further review by the NRC.

b. Fire Brigade Equipment

Most of the brigade's fire fighting equipment is stored on an emergency vehicle. The licensee advised that this equipment is inventoried and inspected monthly to assure that the equipment is available and in good condition. This equipment was inspected on July 21, 1980, and found to conform to that listed in Appendix D - Item D.6. The emergency vehicle is a 1976 Chevrolet truck (1906 miles) and appears to be in good condition.

c. The licensee advised that all of the fire protection control valves, firehose houses and sprinkler systems are inspected weekly, the diesel fire pump is operated weekly, and the fire alarm system is tested weekly. Fire extinguishers are inspected monthly with the inspection date recorded on a tag attached to each extinguisher.

An inspection was made of the fire equipment and hose houses located on the north and west side of the plant. The equipment available in these houses appeared adequate, except a portion of the fire hose had apparently not being subjected to a hydrostatic pressure test in recent years. Fire hose is required by Section 21.B and 82 NFPA-198, Care of Fire Hose, to be service tested annually. However, the licensee's application for a material licensee does not appear to make a commitment to any of the NFPA codes and standards. This item is identified as Unresolved Item (1151/80-19-02), fire hose required service test, pending further evaluation by the NRC.

The fire pump installation was inspected and no discrepancies were noted, except the licensee did not have any records available to indicate the date and results of any full load operational test which had been conducted on the pump. Section 12.3.1 of NFPA-20, Centrifugal Fire Pumps, requires fire pumps to be tested annually at full capacity and over to make sure that the pump is fully operational. As noted above, the licensee does not appear to have a commitment with the NRC to comply with the applicable NFPA code. This item is identified as Unresolved Item (1151/80-19-03), fire pump test data not available, pending further evaluation by the NRC.

The fire alarm control panel was inspected and found to be in service. The licensee advised that this system is supplied power from an emergency panel which is connected to an emergency generator arranged to automatically start in the event of loss of power.

Six of the exterior fire protection water system control valves were inspected and found locked in the proper position.

A number of the fire extinguishers within the plant were examined and found to be properly charged and in service. The monthly inspection tags were also properly signed.

d. Procedures

Fire fighting procedures have been developed and incorporated into the Site Emergency Plan. These procedures cover general fire emergencies and include a special precaution against using water in or near "moderation - controlled" criticality zones.

The licensee Procedure SY-507, cutting and welding policy, requires a permit to be approved by welding supervisor prior to any open flame welding or cutting operations. Two welding operations were observed within the Plant and the provision of the permit were being adhered to.

e. Fire Insurance Inspection

A review was made of the most recent Factory Mutual Insurance inspection report dated February 1980. This report contained four recommendations of which two were related to the plant's operations. One item is the requirement to provide automatic sprinkler protection for the development laboratory. This item is to be corrected by relocating laboratory into a portion of the building which is presently sprinklered. The other item is the requirement to relocate the three 30,000 gallon LP gas tanks a safe distance from the plant building and a hydrogen tank or provide automatic sprinkler protection for the LP gas tanks. The licensee plans to correct this deficiency by the construction of a

fire wall between the LP gas tanks and the hydrogen tank and the installation of a fixed manually operated water spray deluge monitor nozzle in the vicinity of the tanks.

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