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

Report Nos. 50-327/82-23 and 50-328/82-23

Licensee: Tennessee Valley Authority
500A Chestnut Street
Chattanooga, TN 37401

Facility Name: Sequoyah

Docket Nos. 50-327 and 50-328

License Nos. DPR-77 and DPR-79

Inspection at Sequoyah site near Soddy-Daisy, Tennessee

Inspector: M. Thomas — Date Signed: 1 Nov 82

Approved by: F. Jape, Section Chief, Engineering Inspection Branch, Division of Engineering and Technical Programs — Date Signed: 1 Nov 82

SUMMARY

Inspections on October 5-8 and 18-22, 1982

Areas Inspected

This routine, unannounced inspection involved 76 inspector-hours on site in the areas of Unit 1 refueling activities and Unit 2 plant tour.

Results

Of the two areas inspected, no violations or deviations were identified.

REPORT DETAILS

1. Persons Contacted

   Licensee Employees

   C. C. Mason, Plant Superintendent
   *P. R. Wallace, Assistant Plant Superintendent, Operations
   J. M. McGriff, Assistant Plant Superintendent, Health, Safety, and Services
   *L. M. Nobles, Operations Supervisor
   *M. R. Harding, Compliance Staff Supervisor
   *R. Fortenberry, Engineering Supervisor
   *D. Romine, Compliance Engineer
   G. W. Gault, Reactor Engineer

   Other licensee employees contacted included two restart test engineers, six health physics technicians, four senior reactor operators and three reactor operators, security force members, and office personnel.

   Other Organizations

   G. Quinn, Westinghouse Engineer

   NRC Resident Inspector

   E. J. Ford, Senior Resident Inspector
   S. D. Butler, Resident Inspector

   *Attended exit interview

2. Exit Interview

   The inspection scope and findings were summarized on October 22, 1982, with those persons indicated in paragraph 1 above. The licensee acknowledged the inspector's findings.

3. Licensee Action on Previous Enforcement Matters

   Not inspected.

4. Unresolved Items

   Unresolved items were not identified during this inspection.

5. Refueling Activities (Unit 1)

   The inspector reviewed fuel handling instructions (FHI) 2, 4, 6, 7, 10, and 16; restart test instructions (RTI) 1 and 2; administrative instructions (AI) 8 and 26; radiological control instructions (RCI) 1 and 4; system

operating instruction (SOI) 78.1; technical instruction (TI) 1; and selected surveillance instructions (SI) for conformance to Technical Specifications and applicable portions of FSAR sections 6.2 and 9.1. The inspector observed the licensee's preparation for refueling, refueling activities, and spent fuel pool activities.

a. Preparation for Refueling (60705)

The inspector assisted the resident inspectors in reviewing the licensee's preparations for refueling. The inspector reviewed FHI-6, Preparation for Refueling, Units 1 and 2, which provided the surveillance testing required by Technical Specifications (TS), prerequisites, precautions and instructions necessary for preparing the unit for refueling. The inspector selected several of the SIs listed in FHI-6 for review and comparison to the Technical Specifications items covered by the SI's to verify that the SI's satisfied the Technical Specification requirements. The inspector reviewed licensee procedures for fuel handling, control of personnel and materials entering containment and the spent fuel storage area, periodic testing of fuel handling equipment, radiological controls during refueling, fuel accountablility during fuel handling operations, and handling of other core internals.

b. Fuel H ndling Activities (60710)

The inspector observed activities related to fuel handling in the control room and containment. Fuel movement in the reactor core did not begin before the completion of this inspection. The inspector verified that prior to fuel handling in the core, surveillance testing required by Technical Specifications had been performed and was current. The inspector reviewed fuel handling procedures, surveillance test results, and observed activities to verify the following:

(1) Fuel handling activities were performed in accordance with Technical Specifications and approved procedures.

(2) Periodic testing of fuel handling equipment was performed as required by Technical Specifications and approved procedures.

(3) Good housekeeping was maintained in the refueling areas.

(4) Radiological controls were maintained in accordance with approved procedures.

(5) Control of ,ersonnel and materials entering containment was in accordance with administrative procedures.

(6) Containment integrity was maintained as required by Technical Specifications.

(7) Staffing was in accordance with Technical Sepcifications.

c. Spent Fuel Pool Activities (86700)

The inspector observed pre-fuel handling activities in the spent fuel pool and reviewed procedures related to fuel handling to verify that the procedures included the following:

(1) A limitation on the number of fuel assemblies that can be out of safe geometry locations at the same time.

(2) Provisions for verifying prior to fuel handling that the spent fuel pit area crane interlocks or physical stops prevent the crane from passing over fuel storage locations.

(3) Provisions for verifying prior to fuel handling that the spent fuel pool area ventilation system is operable.

(4) Provisions for verifying prior to fuel handling that the loaded shipping cask is within the weight limit of the spent fuel pool area crane.

(5) Provisions for verifying prior to fuel handling that the efficiency of the absolute and charcoal filter system had been determined at the required frequency.

(6) Provisions for verifying that the secondary containment or the spent fuel storage area isolation occurs on a high radiation signal.

(7) Provisions for verifying that minimum water level requirements are monitored during fuel handling operations.

(8) Provisions for verifying that the spent fuel pool storage are radiation and airborne radioactivity monitors are operable.

(9) Provisions for verifying that the spent fuel pool cooling and clean-up system is operable.

The resident inspectors observed fuel handling operations during fuel movement in the spent fuel pool. The inspectors verified that the spent fuel pool water level was equal to or higher than the level established by Technical Specifications, and the spent fuel pool ventilation system was maintaining the building at the specified negative pressure.

No violations or deviations were identified in the areas inspected.

6. Plant Tour (Units 1 and 2)

The inspector toured Units 1 and 2 control rooms, the auxiliary building, and the turbine building to verify that on-going activities were being performed in accordance with procedures.