



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

September 30, 1982

Report No. 50-259/82-29, 50-260/82-29, and 50-296/82-29

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

Facility name: Browns Ferry Nuclear Plant

Docket Nos. 50-259, 50-260, and 50-296

License Nos. DPR-33, DPR-52, and DPR-68

Inspection at Browns Ferry site near Decatur, AL

Inspector: *T. R. Collins*
 T. R. Collins

9/27/82
 Date Signed

Approved by: *K. P. Barr*
 K. P. Barr, Section Chief
 Technical Inspection Branch
 Division of Engineering and Technical Programs

9/27/82
 Date Signed

SUMMARY

Inspection on September 6-10, 1982

Areas Inspected

This special, unannounced inspection involved 40 inspector-hours on site in the areas of refueling and maintenance outage of Unit 2, procedural compliance of health physics related practices by workers, special work permit requirements by health physics, packaging of radioactive material, training of contract health physics technicians, qualification of health physics technicians, and radiography of MSRVS.

Results

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

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REPORT DETAILS

1. Persons Contacted

Licensee Employees

- *G. T. Jones, Plant Manager
- *A. Sorrell, Health Physics Supervisor
- *T. L. Chinn, Compliance Staff Supervisor
- *L. W. Jones, Quality Assurance Staff Supervisor
- *L. H. Parrin, Assistant Quality Assurance Staff Supervisor
- *R. Cole, Power Quality Assurance
- E. Hensley, Health Physics Shift Supervisor
- A. D. Hampton, Outage Health Physics Shift Supervisor
- D. Bohlender, Health Physics Shift Supervisor
- H. Crowson, Outage Health Physics Supervisor
- E. Cargill, Assistant Health Physics Supervisor
- J. Rawlston, Health Physics Shift Supervisor
- B. R. Shadrick, Outage Mechanical Supervisor

Other licensee employees contacted included ten construction craftsmen, eight technicians, five mechanics, and two office personnel.

Other Organizations

Sasser, Inc.
Allied, Nuclear, Inc.

NRC Resident Inspector

*J. Chase

*Attended exit interview

2. Exit Interview

The inspection scope and findings were summarized on September 10, 1982, with those persons indicated in paragraph 1 above. The inspector stated to licensee management that it appeared that plant workers were following SWP requirements and following health physics related practices. Plant management acknowledged the inspector's comments.

3. Licensee Action on Previous Enforcement Matters

Not inspected.

4. Unresolved Items

Unresolved items were not identified during this inspection.

5. Radiography of Main Steam Relief Valve (MSRVs)

On September 9, 1982, the inspector observed a Special Radiation Work Permit (SWP) No. 01-2-25573, issued to perform radiography on tailpipes of the main steam relief valves (MSRVs) in the Unit 2 drywell. The inspector questioned the licensee representative who apparently was in charge of the two contractor personnel that were to perform the radiography, on the use of approved procedures to perform this work. The licensee representative stated that he had no approved licensed procedure governing this task; however, he indicated that the licensee approves the contractor's procedures to perform this task. Upon further investigation by the inspector, it was determined that the licensee had not approved the contractor's procedures for performing radiography. The inspector discussed this with licensee management representatives and was informed that licensee approved procedures were to be used in this activity. The inspector was concerned that the licensee representative apparently in charge of the radiographers did not know what procedures were to be used and questioned the validity of following approved licensee procedures. The inspector reviewed licensee procedures Standard Practice, BF 6.2, Special Processes and Non-Destructive Examination-Maintenance (NDE), which requires using Plant Operating Review Committee (PORC) approved procedures to perform NDE. Since there is no requirement to have approved procedures in hand, the inspector could not actually determine that this procedure was not followed. The informed licensee management representatives this would remain as an open item and would be inspected again upon future inspections. (50-259,260,296/82-29-01)

6. Radiological Incident Reports (RIRs) and Personnel Contamination Reports (PCRs)

The inspector selectively reviewed RIRs and PCRs issued on several events which occurred since the Unit 2 refueling and maintenance outage began. The inspector also observed that PCRs were issued on two occasions in which personnel became contaminated while working in the Unit 2 drywell and reactor water cleanup heat exchanger room. The inspector concluded that PCRs and RIRs were being issued as required by procedure and had no further questions.

7. Special Work Permit (SWPs)

The inspector reviewed and followed several SWPs in progress: SWP No. 01-2-25559, Pull and Rebuild CRDs; SWP No. 01-2-20589, RWCU Heat Exchanger Room; SWP No. 01-2-25526, General Decon and Cleanup of Drywell/Steam Tunnel; SWP No. 01-2-25573, Radiography of MSRVs; and SWP No. 01-2-25530, Installation of MSRVs, to determine SWP procedural compliance by workers, proper protective clothing requirements, respiratory protection requirements, and current up-to-date radiological surveys by health physics personnel. No violations or deviations were observed.

8. Packaging of Radioactive Material

The inspector observed the packaging of 55-gallon drums with material being removed from the torus area. This material consisted of mainly sand from the sand blasting operation by licensee personnel performing torus modifications. Each 55-gallon drum, after packaging, was signed off by responsible individuals certifying the drum contents. The inspector inspected several drums to verify package contents and no discrepancies were observed.

9. Training and Qualification of Contract Health Physics Technicians

The inspector reviewed the licensee's training program for contract health physics technicians which includes a 40-hour training session or equivalent on licensee policies and procedures. After completion of the training session, an examination is given to each individual and a grade of 75% is required to meet the licensee's standards for understanding. The inspector reviewed approximately 45 individual test scores to verify personnel understanding and compliance with this program.

The licensee provided the inspector with resumes of all ANSI N18.1 qualified contract health physics technicians. The inspector carefully reviewed selected resumes of these contract health physics technicians and concluded these technicians meet or exceeded the requirements of ANSI N18.1. The cognizant licensee supervisor also stated that all resumes were reviewed for all technicians and many resumes were rejected because of lack of qualifications. The inspector had no further questions.

10. Posting, Labeling, and Control

The inspector toured all areas of the Reactor, Turbine, and Radwaste Buildings to verify proper posting, labeling, and control of high radiation areas, radiation areas, contaminated areas, airborne radioactivity areas, and radioactive material areas. Also, the inspector performed independent radiation surveys of selected areas to verify proper posting and no violations or discrepancies were observed.

11. Personnel Frisking

The inspector observed workers leaving the torus, drywell, and steam tunnel RCAs and determined by observation that personnel were adequately surveying themselves prior to leaving the regulated area. The inspector had no further questions.

12. Health Physics Staffing

The licensee has 40 contract health physics technicians, 21 plant health physics technicians, and six trainees (juniors) to control all related health physics responsibilities of the Unit 2 refueling and maintenance outage. The inspector concluded that the health physics staff level was adequate and had no further questions.

13. Respiratory Protection Program

The inspector observed the use of respiratory equipment by workers required by SWPs in several areas of the plant and questioned the training and medical qualifications of these personnel. The licensee, upon request, provided the inspector a daily computer printout indicating the current training and medical qualifications of these personnel. No violations or deviations were identified.

14. Licensee Investigation on Health Physics Related Activities

The inspector reviewed the licensee's investigation on previous health physics related problems and concluded that the corrective action taken for the personnel involved was adequate. However, the inspector was concerned that no corrective action was taken for an individual who was directly responsible for causing personnel contamination on two other individuals. Licensee management acknowledged the inspector's concerns and stated that this would be taken under consideration pending their final investigation. The inspector stated that this would be inspected again during the next routine inspection. (50-259,260,296/82-29-02)