



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

Report Nos. 50-321/80-50 and 50-366/80-50

Licensee: Georgia Power Company  
 270 Peachtree Street  
 Atlanta, GA 30303

Facility Name: Hatch

Docket Nos. 50-321 and 50-366

License Nos. DPP-57 and NPF-5

Inspector:

*R. A. Brown*  
 R. A. Brown

*2/20/81*  
 Date Signed

Approved by

*G. R. Jenkins*  
 G. R. Jenkins, Section Chief  
 FF&MS Branch

*2/20/81*  
 Date Signed

SUMMARY

Inspection on December 10 and 11, 1980

Areas Inspected

This special, announced inspection involved 8 inspector-hours on site in the areas of reviewing adequacy of procedures to prevent contaminated waste oil from being released to unrestricted areas.

Results

Of the areas inspected, two apparent violations were identified. (Severity Level III Violations - Inadequate sampling procedures - paragraph 6, and excessive radiation levels in unrestricted areas - Paragraph 5).

Soil from this area was removed to a depth of two feet and placed in drums for disposal as radioactive waste. Analysis of the contaminated soil indicated the principal isotopes are Co-60, Zn-65 and Mn-54. Licensee representatives stated that in the past five years, only waste oil drums have been stored in this area. They also stated that before material is brought to this area, it is surveyed at least twice.

6. The inspector reviewed Health Physics Procedure No. 7624 which states that a 1000 ml sample of oil be obtained and analyzed to ensure that the radionuclide concentration is less than  $5 \times 10^{-7}$  uCi/ml prior to release from radiation control areas. However, the inspector noted there was no procedure to ensure that a representative sample was obtained. In addition, quantities of water in the bottom of oil drums are neither detected nor analyzed. Licensee representatives stated that perhaps half of their waste oil could contain water.

In discussing possible corrective actions licensee representatives stated that probably they would revise procedures to require that waste oil be thoroughly mixed in the drum prior to sampling and analysis or they would cease sale of waste oil to vendors. The lack of adequate sampling procedures is a violation of Technical Specification 6.8.1.a.

7. Waste Oil Vendors

A review of records indicate that waste oil has been sold in the past two years to vendors in Perry, Moultrie and Camilla, Georgia and Jacksonville, Florida. Also, waste oil has been transferred to a fossil fuel power plant in Brunswick, Georgia. The licensee stated that analysis of waste oil from these vendors indicated no levels of radioactivity above background.

8. Independent Measurements

The inspector obtained two soil samples in the decontaminated area of the waste oil storage area and two samples of oil from a waste oil dealer in Moultrie, Georgia. Upon return to the Regional office these samples were analyzed by GeLi spectroscopy. These analyses indicated no radioactivity above background levels.

## DETAILS

### 1. Persons Contacted

#### Licensee Employees

- \*M. Manry, Plant Manager
- T. Green, Assistant Plant Manager
- W. Rogers, Superintendent of Chemistry and Health Physics
- \*T. Collins, Health Physics Lab Supervisor
- M. Thigpen, Quality Assurance Field Representative
- M. Link, Lab Foreman
- D. Smith, Lab Supervisor (Chemistry)

Other licensee employees contacted included 2 technicians.

\*Attended exit interview

### 2. Exit Interview

The inspection scope and findings were summarized on December 11, 1980 with those persons indicated in paragraph 1 above. The licensee acknowledged the inspectors concerns regarding waste oil sampling procedures and indicated that revisions of present procedures were being considered. In addition, the licensee stated that at present no waste oil was being released from the licensee's control and that samples would be obtained from all locations which had received waste oil from Plant Hatch. In a telephone conversation on February 11, 1981, the Assistant Plant Manager was informed by the inspector that two violations were identified; inadequate sampling procedures and excessive radiation levels in unrestricted areas.

### 3. Licensee Action on Previous Inspection Findings

Not inspected.

### 4. Unresolved Items

Unresolved items were not identified during this inspection.

### 5. Waste Oil Storage Area

The area where waste oil drums are stored is a fenced area near the meteorological tower. Access to this area is restricted, but not for purposes of radiation control. On December 6, 1980 seven drums of oil were brought to this area for storage. During a survey of the drums a technician noticed the survey instrument background appeared higher than normal. Further investigation showed this increase to be from a contaminated area of ground approximately fifteen by twenty feet. Radiation levels in this area ranged up to 45 mr/hr at the surface and 10 mr/hr at three feet above the surface. These levels are in violation of those specified in 10 CFR 20.105(b)(1).