



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

AUG 20 1980

Report No. 70-1113/80-13

Licensee: General Electric Company  
 Wilmington, NC 28402

Facility Name: Wilmington Manufacturing Department

License No. SNM-1097

Inspection at: Wilmington, North Carolina

Inspector:

*J. B. Kable*  
 J. B. Kable

*8/19/80*  
 Date

Accompanied by: Edward Shum, NRC, NMSS (August 11, 1980)  
 Michael E. Spaeth, Science Applications, Inc.  
 NMSS Consultant (August 11, 1980)  
 Stan Danelson, Science Applications, Inc.  
 NMSS Consultant (August 11, 1980)

Approved by:

*W. B. Kenna*  
 W. B. Kenna, Chief, Safeguards Branch

*8/19/80*  
 Date

SUMMARY

Inspection on August 11-13, 1980.

Areas Inspected: This special, announced inspection involved 16 inspector-hours on site in the areas of environmental considerations regarding the license applications to expand the conversion process and the new incinerator, followup on a NRC IE Circular, followup on an item of noncompliance and independent effort.

Results: No apparent items of noncompliance or deviations were identified.

## DETAILS

### 1. Persons Contacted

- \*A. Kaplan, Licensing and Compliance Audits Manager
- \*W. Hendry, Regulatory Compliance Manager
- J. Taylor, Nuclear Safety Engineer
- R. Torres, Radiation Protection Supervisor
- W. Becker, Process Engineering Manager
- B. Bentley, Fuel Chemical Operation Manager
- J. Bradberry, Emergency Preparedness Coordinator
- W. Smalley, Environmental Protection Senior Engineer
- R. Keenan, Radiation Protection Shift Supervisor
- J. Mohrbacker, Nuclear Safety Engineering Manager

\*Denotes those present at the exit interview

### 2. Exit Interview

The inspection scope and findings were summarized on August 13, 1980 with those persons indicated in Paragraph 1 above.

### 3. Licensee Action on Previous Inspection Findings

(Closed) Noncompliance 80-03-01: Failure to establish, maintain and follow storage and internal handling controls to provide current knowledge of the identify, quantity and location of UF<sub>6</sub> cylinders. Procedures have been established to assure that a trailer being dispatched as empty does in fact contain empty overpacks. Trailers are logged in and out at the Emergency Control Center (ECC) by security personnel and a control board showing the disposition of overpack trailers is maintained at the security office of the ECC.

### 4. License Amendment Application

The NMSS and NMSS consultant personnel have responsibility for preparing the Environmental Impact Appraisal (EIA) pertaining to the expansion of the conversion process and the installation of the new incinerator. They toured the process areas and the area to where the conversion process will be expanded. The waste treatment plant, the chemical lagoon areas and the liquid effluent pathway to the Northeast Cape Fear River were toured. The location of the old and new incinerators were observed and discussed with licensee representatives. A draft set of questions pertaining to the license amendment applications to expand the conversion process and to install a new incinerator were discussed with licensee representatives. Licensee performance relating to general radiological and environmental safety were discussed with the NMSS consultant personnel. Licensee representatives were informed that NMSS would dispatch a formal set of questions regarding their amendment applications in the very near future.

5. IE Circular 80-14

Verification was made that the licensee had received IE Circular 80-14, Radioactive Contamination of Plant Demineralized Water Systems and Resultant Internal Contamination of Personnel. The licensee had experienced a similar incident in July of 1976 which was caused by syphoning of ADU from the conversion line back into the deionized (DI) water tanks following a power interruption. At that time, the licensee took corrective measures to provide positive prevention mechanisms (syphon breaks) in connecting lines between processing liquid systems and not just related DI water systems but related unsafe geometry tanks not normally containing uranium materials. Also, all DI water lines were identified and tagged to prohibit the use of DI water for potable sources of water. Upon the issuance of this circular, the licensee verified that the DI water line tags were in place, that no unauthorized temporary connections have been made and that the administrative procedures are maintained to prevent direct connection of fuel processing liquid systems with unsafe geometry vessels.

6. Plant Tour

A general tour of the plant revealed that the housekeeping was adequate and no fire or industrial safety hazards were identified. It appeared that special nuclear material was stored, handled, transferred and processed in accordance with license and procedural requirements.

7. Personnel Change

C. L. Scholl, Nuclear Safety Engineer, terminated on June 6, 1980. A licensee representative stated that candidates for a replacement have been interviewed and that a selection would be made soon.

**GENERAL ELECTRIC** REGION II  
ATLANTA, GEORGIA

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**NUCLEAR ENERGY  
PRODUCTS DIVISION**

WILMINGTON MANUFACTURING  
DEPARTMENT

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August 22, 1980

Mr. W. B. Kenna, Chief  
Safeguards Branch  
U. S. Nuclear Regulatory Commission  
101 Marietta Street, NW - Suite 3100  
Atlanta, Georgia 30303

Dear Mr. Kenna:

- References: (1) NRC Inspection Report RII:JBK, 70-1113/80-13,  
dated 8/20/80  
(2) NRC License SNM-1097, Docket #70-1113

Thank you very much for your letter reporting the results of the inspection conducted at our licensed fuel fabrication plant by Mr. J. B. Kahle of your office on August 11-13, 1980.

This inspection report does not contain any information which we believe to be proprietary.

Very truly yours,

GENERAL ELECTRIC COMPANY

*Arthur L. Kaplan*  
Arthur L. Kaplan, Manager  
Licensing & Compliance Audits  
M/C J26

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Document Management Branch

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