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NUCLEAR REGULATORY COMMISSION
REGION II
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ATLANTA, GEORGIA 30303-8931

July 19, 2001

Framatome ANP
ATTN: Mr. J. E. Matheson
Vice President, Operations
Lynchburg Manufacturing Facility
P. O. Box 11646
Lynchburg, VA 24506-1646

SUBJECT: NRC INSPECTION REPORT NO. 70-1201/2001-03

Dear Mr. Matheson:

This refers to the inspections conducted on June 18 through 21, 2001, at the Lynchburg Manufacturing Facility. The purpose of the inspection was to determine whether activities authorized by the license were conducted safely and in accordance with NRC requirements. At the conclusion of the inspection, the findings were discussed with those members of your staff identified in the report.

Areas examined during the inspection are identified in the report. Within these areas, the inspection consisted of selective examinations of procedures and representative records, interviews with personnel, and observation of activities in progress.

Within the scope of the inspection, violations or deviations were not identified.

In accordance with 10 CFR 2.790 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Record (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/NRC/ADAMS/index.html> (the Public Electronic Reading Room).

Should you have any questions concerning this letter, please contact us.

Sincerely,

/RA by David A. Ayres Acting For/

Edward J. McAlpine, Chief
Fuel Facilities Branch
Division of Nuclear Materials Safety

Docket No. 70-1201
License No. SNM-1168

Enclosure: (See Page 2)

Enclosure: NRC Inspection Report

cc w/encl:

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COPY?	YES NO	YES NO	YES NO

U. S. NUCLEAR REGULATORY COMMISSION

REGION II

Docket No.: 70-1201

License No.: SNM-1168

Report No.: 70-1201/2001-03

Licensee: Framatome ANP

Facility: Lynchburg Manufacturing Facility

Location: Lynchburg, VA

Dates: June 18-21, 2001

Inspector: D. A. Seymour, Senior Fuel Facilities Inspector

Approved by: E. J. McAlpine, Chief
Fuel Facilities Branch
Division of Nuclear Materials Safety

Enclosure

EXECUTIVE SUMMARY

Framatome ANP NRC Inspection Report 70-1201/2001-03

This routine unannounced inspection focused on the observations and evaluation of the licensee's plant operations, fire safety, and training programs. The inspection involved observation of work activities, a review of selected records, and interviews with plant personnel. The report covers a four day inspection effort by one regional fuel facility inspector.

Based upon the results of this inspection, the licensee's plant operations, fire safety, and training programs were acceptable. The inspection identified the following aspects of the program as outlined below:

PLANT OPERATIONS

The facility operated safely and in accordance with regulatory and license requirements. Housekeeping was adequate to ensure routes of egress were clear in case of an emergency (Paragraph 2.a).

The licensee was reviewing and updating procedures at the required frequency. Appropriate safety management was included in the review and approval of procedure changes (Paragraph 2.a).

Change control requirements were properly followed during the relocation of the fuel assembly fabrication process. Nuclear criticality safety requirements were properly implemented and procedure and administrative requirements were followed (Paragraph 2.a).

Nuclear criticality safety control devices and measures were properly implemented. Proper spacing practices and controls, use of storage locations, and identification of SNM were also observed (Paragraph 2.b).

FIRE PROTECTION

There were no deficiencies observed in the material condition or functional tests of selected equipment examined during a Fire Protection Program walkdown inspection. The licensee appropriately responded to fire insurance audit recommendations. Fire brigade members met the training requirements for fire brigade team certification (Paragraph 3).

TRAINING

The licensee's General Employee Training (GET) met the requirements of Section 2.5, Training, of the License Application, and 10 CFR 19.12. The GET training was in-depth and thorough (Paragraph 4).

Attachment:

Partial List of Persons Contacted
Inspection Procedures Used
List of Acronyms Used

REPORT DETAILS

1. **Summary of Plant Status**

This report covered the efforts of one regional inspector during a four day period. Fuel manufacturing processes were shutdown and routine Service Equipment Refurbishment Facility (SERF) operations were ongoing at Framatome during this inspection period. There were no plant upsets or unusual operational occurrences during the inspection.

2. **Plant Operations, Inspection Procedure (IP) 88020**

- a. Conduct of Operations - Routine Observations (O3.01)
Housekeeping (O3.08)
Facility Modifications and Configuration Controls (O3.02)

(1) Inspection Scope

The inspector toured the licensee's facilities to observe various operational and work activities to verify that the facility was operated safely and in accordance with license and regulatory requirements.

Housekeeping associated with the storage of equipment and materials throughout the facility was also reviewed to ensure significant potential hazards did not exist.

The inspector reviewed selected operational procedures and records, and nuclear criticality safety (NCS) postings, to verify operations were performed safely and in accordance with approved plant procedures and postings.

The inspector reviewed the licensee's process for implementing facility modifications to determine if modifications were performed in accordance with license change control requirements.

(2) Observations and Findings

The inspector observed that specific operations were performed safely and in accordance with approved plant procedures and postings. Discussions with operations personnel revealed an understanding of the procedural and posting requirements.

Outside areas were toured and inspected. No conditions that could create an undesirable situation or hazard in the event of adverse weather conditions such as high winds, cold weather, or flooding, or blocked evacuation pathways were observed. The inspector noted radiological signs, postings, and procedures were properly posted or readily available. The inspector observed conditions and determined that equipment and devices used to confine and contain radioactive contamination and airborne radioactivity in the SERF areas were in proper working condition, and that proper personal protective clothing and dosimetry were issued and properly worn. The inspector noted that emergency egress routes were adequately clear of debris.

The inspector also reviewed selected procedures used in the facility and found that the procedures were reviewed and updated at the required frequency. The inspector also found that the appropriate safety management was included in the review and approval of procedure changes. The inspector found no instances of outdated procedures available for use by the licensee's staff.

The inspector reviewed the licensee's process for performing facility modifications. As part of this review, the inspector focused on the licensee's relocation of the fuel assembly fabrication and storage racks from the north end of the facility to the south end of the facility. The inspector reviewed the licensee's procedures for performing facility modifications, including Procedure SL-1170, Revision 0, Safety Review Board, operational change requests, criticality safety analyses, and various other documents supporting the relocation. Based on this review the inspector concluded that the licensee appropriately implemented the change control process. NCS, radiation protection, and industrial health and safety requirements were selectively verified, including storage racks dimensional spacing and NCS postings. The requirements had been verified and documented by the appropriate review disciplines prior to the relocation, and prior to operation.

(3) Conclusions

The facility was operated safely and in accordance with regulatory and license requirements. No conditions that could create an undesirable situation or hazard in the event of adverse weather conditions were observed.

Housekeeping was adequate to ensure routes of egress were clear in case of an emergency.

The licensee reviewed and updated procedures at the required frequency. Appropriate safety management was included in the review and approval of procedure changes.

Change control requirements were properly followed during the relocation of the fuel assembly fabrication. Nuclear criticality safety requirements were properly implemented, procedure and administrative requirements were followed.

b. Implementation of Process Safety Controls (O3.03)
Implementation of Process Storage Controls (O3.04)

(1) Inspection Scope

The inspector reviewed nuclear criticality control devices and measures in effect during this inspection period to ensure that the licensee's program provided a high degree of reliability for the prevention of an inadvertent criticality.

(2) Observations and Findings

The inspector toured fuel processing and storage areas and observed that personnel complied with approved, written NCS limits and controls. The inspector verified NCS limits were posted and available to the operators. Proper spacing practices and

controls, use of storage locations, and identification of SNM were also observed during tours of the facility.

(3) Conclusions

NCS control devices and measures were properly implemented. Proper spacing practices and controls, use of storage locations, and identification of SNM were also observed.

3. **Fire Safety (IP 88055)**

- a. Insurer's Audits (O4.02)
Fire Protection Systems (O4.05)
Fire Brigade Training (O4.08)

(1) Scope

The inspector performed walkdown inspections, reviewed test results, and interviewed plant personnel about the inspection, testing, and maintenance (ITM) of key fire safety systems and equipment important to safety. The appropriate ITM ensures the availability and reliability of fire safety systems or equipment for the performance of their intended safety functions. The inspectors also reviewed the latest fire insurance audits and fire brigade training.

(2) Observations and Findings

On the basis of the walkdown examinations and review of functional test records for selected fire protection systems and equipment, the inspector determined that the overall ITM for the following fire protection systems or equipment was appropriate. The walkdown included the following types of equipment:

- Plant fire alarm system
- Heat and smoke detectors
- Automatic sprinkler systems
- Fire hose houses
- Fire hydrants and control valves
- Portable fire extinguishers

The inspector noted no deficiencies in the material condition of the equipment examined during the walkdown inspection. The inspector verified that functional tests of selected systems were performed as required. The inspector's review of the latest insurance audit noted that the licensee appropriately responded to the audit suggestions and recommendations.

The inspector also reviewed the training records for selected members of the site's fire brigade and verified that these members met the training requirements for fire brigade team certification.

(3) Conclusions

The inspector noted no deficiencies in the material condition of equipment examined during the walkdown inspection. The inspector verified that functional tests of selected systems were performed as required. The licensee appropriately responded to fire insurance audit recommendations. Fire brigade members met the training requirements for fire brigade team certification.

4. **Training (IP 88010) (F2)**

- a. 10 CFR 19.12 Training (F2.01)
General Nuclear Criticality Safety Training (F2.02)
General Radiological Training (F2.03)
General Emergency Training (F2.04)

(1) Inspection Scope

The licensee's General Employee Training (GET) was reviewed to verify compliance with Section 2.5, Training, of the License Application, and with 10 CFR 19.12 requirements.

(2) Findings and Observations

The inspector reviewed the lesson plans, training materials, and test for the licensee's GET, radiological worker, and controlled area access training. The training included industrial safety concepts, radiological safety, criticality safety, emergency response, chemical safety, and fire safety. Safety principles and safe practices were emphasized. The inspector noted that the training incorporated the subject areas required by the License Application and 10 CFR 19.12, and was in-depth and thorough.

The inspector interviewed five workers about the concept of "As Low as is Reasonably Achievable" (ALARA). The five workers knew what ALARA meant and were knowledgeable about ALARA concepts.

(3) Conclusions

The inspector concluded that the training met the requirements of Section 2.5, Training, of the License Application, and 10 CFR 19.12. The training was in-depth and thorough.

5. **Exit Interview**

The inspection scope and results were summarized on June 21, 2001, with those persons indicated in the Attachment. Although proprietary documents and processes were occasionally reviewed during this inspection, the proprietary information is not included in this report. Dissenting comments were not received from the licensee.

ATTACHMENT

PARTIAL LIST OF PERSONS CONTACTED

Licensee

- G. Lindsey, Health Physicist
- *L. Tupper, Manager, Licensing and Compliance
- *S. Wilkerson, Lynchburg Operations Site Manager
- *G. Powers, Material Control and Accounting

Other licensee employees contacted included engineers, technicians, production staff, security, and office personnel.

*Attended exit meeting on June 21, 2001

INSPECTION PROCEDURES USED

IP 88010	Operator Training/Retraining
IP 88020	Regional Nuclear Criticality Safety Inspection Program
IP 88055	Fire Protection

LIST OF ACRONYMS USED

ALARA	As Low as is Reasonably Achievable
CFR	Code of Federal Regulations
GET	General Employee Training
IP	Inspection Procedure
ITM	Inspection Testing and Maintenance
NCS	Nuclear Criticality Safety
NRC	Nuclear Regulatory Commission
SERF	Service Equipment Refurbishment Facility
SNM	Special Nuclear Material