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U.S. NUCLEAR REGULATORY COMMISSION  
OFFICE OF NUCLEAR MATERIAL SAFETY AND SAFEGUARDS

Report No.: 70-371/90-201  
License No.: SNM-368  
Safeguards Group: I  
Licensee: UNC Naval Products  
67 Sandy Desert Road  
Uncasville, Connecticut 06382  
Facility Name: UNC Naval Products  
Inspection Conducted: January 22-26, 1990

Inspector:

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SUMMARY

Background: (Synopsis) The 10 CFR Part 74 MC&A Reform Rule is structured to provide timely detection of anomalies potentially indicative of a five formula kilogram or more loss of SSNM. The licensee is required to establish, implement and maintain MC&A systems to ensure that the performance objectives of the Rule are met by:

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1. Prompt investigation of abnormal conditions or situations which are potentially indicative of a SSNM loss or losses.
2. Timely detection of the possible abrupt loss of five or more formula kilograms of SSNM from a single unit process.
3. Rapid determination (following a detection alarm) of whether an actual loss of five or more formula kilograms occurred.
4. Ongoing confirmation of the presence of SSNM in assigned locations.
5. Timely generation of information to aid in the recovery of SSNM in the event of an actual loss.

On October 6, 1989 the NRC approved UNC's Fundamental Nuclear Material Control (FNMC) Plan, with appropriate clarifying MC&A Safeguards License Conditions, submitted pursuant to the requirements of 10 CFR 74.51(c)(1). In accordance with the time-frame stated in 10 CFR 74.51(c)(2), the above referenced FNMC Plan and License Conditions were effective January 4, 1990.

Scope:

- (1) Provide the licensee an opportunity to present an overview of its 10 CFR Part 74 MC&A Reform Rule implementation,
- (2) Note difficulties the licensee is experiencing in the implementation of the Rule, and
- (3) Test the adequacy of the new MC&A inspection procedures (modules) necessitated by the Rule.

Results: It appears, within the limited scope and purpose of this inspection, that the licensee has a knowledgeable understanding of the concepts and requirements of the 10 CFR Part 74 MC&A Reform Rule. It further appears that the licensee has implemented the commitments contained in its Part 74 MC&A FNMC Plan and is in compliance with all MC&A Safeguards License Conditions.