



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

FEB 9 1994

MEMORANDUM FOR: Robert C. Pierson, Chief
Licensing Branch
Division of Fuel Cycle Safety
and Safeguards, NMSS

THRU: Michael Tokar, Section Leader
Licensing Section 2
Licensing Branch
Division of Fuel Cycle Safety
and Safeguards, NMSS

FROM: Richard Milstein
Licensing Section 2
Licensing Branch
Division of Fuel Cycle Safety
and Safeguards, NMSS

SUBJECT: SITE VISIT TO ALLIED-SIGNAL INC. JANUARY 31 THROUGH
FEBRUARY 4, 1994

Michael Tokar

Background

The Nuclear Regulatory Commission (NRC) has contracted with Science Applications International Corporation (SAIC) for technical assistance in the area of chemical safety. In particular, subtasks 2.2 and 2.3 in the contract¹ call for SAIC to develop criteria for evaluating chemical safety at NRC licensed facilities and to review chemical safety programs at selected NRC licensed facilities. The site visit to Allied-Signal Inc. (AS) on January 31 through February 4, 1994, was the third in a series of five planned visits to NRC licensed facilities.

Site Visit

An information gathering review was conducted by SAIC of the chemical safety program at the AS uranium conversion facility in Metropolis, IL. The information gathering effort was directed at the site's recognition and management of chemical hazards as they may impact:

1. Onsite and offsite populations directly affected by chemical releases due to incidents associated with licensed nuclear material,

¹Modification 2 to task order 15 under contract no. NRC-02-90-009 was signed on September 30, 1993.

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Robert C. Pierson

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- 2. Operators of the plant or the operator's capacity to safely operate the plant due to chemical release, and/or
- 3. Potential explosions or fires from chemicals which could affect nuclear material containment or handling operations.

In order to evaluate and collect information on the chemical safety program (CSP) at the AS plant, SAIC compiled a list of 11 topics based on a number of existing process safety management programs, including those developed by the Occupational Safety and Health Administration (OSHA) and Environmental Protection Agency (EPA). These topics included:

- 1. Hazard Identification and Assessment
- 2. Process Safety Information
- 3. Operating Procedures
- 4. Site Wide Safety Procedures
- 5. Training
- 6. Maintenance
- 7. Management of Change
- 8. Incident Investigation
- 9. Emergency Response
- 10. Detection and Monitoring
- 11. Audits and Inspections

Based on a preliminary evaluation of the information gathered, it appears that AS has established programs that will address most elements of an effective CSP. The company is aware of its obligations under the OSHA Process Safety Management regulations (29 CFR 1910.119) and has identified and begun systematic assessments of chemical hazards at the facility. The company has included UF₆ as one of the chemicals that will be addressed, although not required to do so under the OSHA rule.

Original Signed By:

Richard Milstein
 Licensing Section 2
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 and Safeguards, NMSS

cc: Allied Signal, Inc
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