

From: Wayne J. Slawinski (WJS2) *RTU*
To: RJC1, JRM4 *R CANIANO, RTU J MADERA, RTU*
Date: Monday, November 14, 1994 12:09 pm
Subject: AMS status update

SEG is scheduled to visit the AMS site on Wed or Thurs 11/16 or 11/17. The purpose of the visit is to drill holes into the floor of the back bsmt and collect floor and core bore-type smples for analysis. Also on thurs 11/17, Alaron plans a site visit to further develop its plans for the milling operation. The Alaron visit may require a cell entry to better evaluate the effort that will be needed for the eventual milling operation.

SEG plans phase 2 of its WHUT room assessment to commence after Thanksgiving sometime.. Phase 2 will involve drilling into walls of the WHUT room.

A new HP tech has been hired and is due to start on Tues 11/29. According to Bob, this new person has HP technician experience at Nuclear plants and therefore should be a positive addition to the staff. Steve Haddock plans to continue as an AMS employee through the end of the year.

AMS STATUS SUMMARY
NOVEMBER 16, 1994

Grobe
11/16/94
Briefing of Papermelt 11/17/94

Staffing

- * Bob Meschter, RSO since August 1994
- * Steve Haddock, Isotope Handler, contracted to provide training and HP support thru end of year
- * Vince Rocco, Inexperienced tech
- * New relatively experienced HP tech to start in two weeks
- * Part time procedure writer (HP procedures) began couple weeks ago

Source Term Reduction

- * Current sealed and bulk source inventory = 70,000 Ci
 - * Current solid waste inventory (55-gal drums & LSA bins/boxes) = 40-50 Ci
 - * GE-500 cask awaiting shipment = 9400 + 5500 = 15,000 Ci
 - * WHUT room source term = 200 Ci
 - * Facility contam source term (cell, ventil system, other areas) = tens of Ci
- * Looking @ Volume reduction of LSA through SETs*

License Renewal and DFP

- * Renewal and DFP due end of year
- * Licensee contracted SEG to conduct radiological eval of WHUT room and develop DFP. (SEG to commence site work this week and complete WHUT room radiological analysis within 30-days.)
- * RSO and procedure writer working on license renewal application

Cell Front Plug Removal

- * Alaron Corp. to mill out plug. Alaron scoping visit scheduled for this week. Milling operation to take place within 30-days.

NRC Structural Assessment Of WHUT Room

- * Bob Shewmaker completed prelim review via site visit on Oct 12, 1994. Second site visit necessary to complete assessment. No signif problems noted with WHUT room itself; however, adjacent facility structural stability shows some signs of possible degradation.

NEORSO

- * Discuss Kurth's report re: sewer contamination and sampling results
- * Two 2.206 petitions outstanding
 - (1) Decon sewer system
 - (2) Install effluent alarm on sewer discharges
- * Temp Restraining Order issued Nov. 15, 1994

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Misc HP Issues

- * Radiological Contingency Plan implementation weak
- * No fire dept pre-plan developed
- * HP surveillance/survey program for WHUT room not implemented
- * High smearable levels in various areas of facility other than cell and decon room (e.g. back bsmt, spots in isotope shop, ventil system room)

AMS Co-60 Inventory
November 1994

<u>Source Type</u>	<u># Sources</u>	<u>Total Activity</u>	<u>Location</u>
Picker Wafer	39	2152 Ci	Primarily Garden
Picker/AMS	44	11517 Ci	Primarily Garden
Bulk Capsules	14	11370 Ci	Hot Cell
Bulk Capsules	13	3113 Ci	Garden
Bulk in GE-500 Cask	1 cask	9461 Ci	ISP Warehouse
NPI	35	23201 Ci	Primarily Garden
Other Competitor	21	9300 Ci	Primarily Garden
Solid Radwaste	30 55-gal drums	30 Ci	Basement
Solid Radwaste	20 boxes & 12 55- gal drums	Unknown	High Level Waste
Solid Radwaste	2 large LSA Bins	Unknown (low activity)	ISP Warehouse

Above sources (excluding waste) total to 70,114 Ci

Of above listed sources, 8 bulk capsules totaling 5919 Ci are presumed to be stored in the stuck front cell plug.

AMS Source Shipment Status

1993 Shipments

18,000 Ci Co-60 transferred to J.L. Shepherd
6,500 Ci Cs-137 transferred to J.L. Shepherd

3,000 Ci Co-60 transferred to NPI

1994 Shipments

The licensee has added about 5500 Ci of bulk Co-60 (using J.L. Shepherd's 2R Container) to the existing material in the GE-500 cask; however, they are unable to close and properly seal the cask because rods on the 2R Container are interfering with cask closure. The licensee is awaiting instructions from Shepherd & Southwest Research Corp. The GE-500 cask and 2R Container may need to be shipped separately (August 1994 Status).

GE-500 cask has been closed/sealed and deconned, and is now being stored in the Isotope Warehouse. According to the current RSO, there is no 2R container within the cask but rather a paint can-type bucket housing the 5500 Ci of bulk material. Shepherd will not accept the shipment because the sources are externally contaminated and have not been leak tested to demonstrate they are less than .005 uCi. Shipping agreements previously made between AMS and Shepherd are apparently no longer acceptable to Shepherd.

The fate of the sources in the GE-500 cask and those remaining in other facility areas are unknown (Nov 1994 Status)

Date: November 15, 1994

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PRELIMINARY NOTIFICATION OF EVENT OR UNUSUAL OCCURRENCE PNO-III-94-84A

This preliminary notification constitutes EARLY notice of events of POSSIBLE safety or public interest significance. The information is as initially received without verification or evaluation, and is basically all that is known by the Region III staff on this date.

Facility

Advanced Medical Systems
1020 London Road
Cleveland, Ohio

Licensee Emergency Classification

General Emergency
Site Area Emergency
Alert

License No. 34-19089-01

Unusual Event
X Not Applicable

Subject: SUSPENSION OF WASTEWATER SERVICE (UPDATE)

A Temporary Restraining Order (TRO) was issued to Advanced Medical Systems (AMS) on November 15, 1994, requiring AMS to cease all discharges, including storm water, to the sewer system by 5:00 p.m. on November 18, 1994. The Northeast Ohio Regional Sewer District (NEORS) had previously issued an order to AMS to cease all discharges. The TRO was based on the NEORS Code of Regulations which prohibits the discharge of materials to the sewers that cause the NEORS to incur excessive expense in the handling and treatment of the materials. The TRO was issued as a result of a petition by the NEORS and a hearing on October 28 in the Cuyahoga County Court of Common Pleas. The TRO is effective until November 29, 1994.

The licensee is currently evaluating means of complying with the TRO.

The sewer district's action was based on samples of wastewater from the licensee's facility collected by the sewer district on nine occasions from July 5 through October 10, 1994. The NEORS reported that five of those samples contained measurable concentrations of cobalt-60 ranging from 14 to 306 picocuries per liter of wastewater.

An NRC Region III (Chicago) inspector collected wastewater samples on August 17 and September 20, 1994. The September sample did not contain measurable levels of cobalt-60 and the August sample contained 30 picocuries of cobalt-60 per liter of water. The levels of radioactivity in the wastewater entering the sewers as measured by the NRC and NEORS do not represent a safety hazard. Region III is evaluating its findings to determine the appropriate regulatory action.

NRC regulations (10 CFR Part 20) previously permitted discharge of cobalt-60 in a soluble or readily dispersible form to sewer systems below set concentration limits and within an annual cumulative limit. Current regulations only permit discharge of soluble materials.

The licensee ceased periodic discharges of liquid radioactive wastes into the facility drain system in 1989. The cobalt-60 in the wastewater samples collected in 1994 by the NEORS and NRC is believed to have resulted from leaching of radioactive contamination accumulated in the sewer line from previous discharges.

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The State of Ohio has been informed of this situation. The information in this preliminary notification has been reviewed with licensee management.

Region III received notification of the issuance of the TRO from the sewer district at 2:45 p.m. on November 15, 1994. This information is current as of that time.

CONTACT:

John Madera
708/829-9834

Jack Grobe
708/829-9837

MEMORANDUM TO: Region III License File # 34-19089-01 (Advanced Medical Systems, Inc.)

THRU: John A. Grobe, Chief, Nuclear Materials Safety Section *2/1/94 11/17/94*

FROM: Wayne Slawinski, Senior Radiation Specialist, *WJS 11/17/94*
Nuclear Materials Safety Section 1

SUBJECT: INQUIRY CONCERNING RADIOLOGICAL CONDITIONS AT
ADVANCED MEDICAL SYSTEMS LONDON ROAD FACILITY

On November 15, 1994, I was contacted by Joseph Jovic, the union steward for ATC Nimold Corp., a subsidiary of ATC. ATC is a company owned by Seymour Stein, who also owns Advanced Medical Systems (AMS).

Nimold Corp owns and operates mold equipment used to mold plastic components for the automotive industry. Nimold stores its mold equipment in the warehouse of the AMS facility on 1020 London Road, Cleveland, Ohio, when it is not in use. The equipment is retrieved by Nimold employees when its use is required. Based on continuing NRC inspections at the facility, the warehouse is known not to be a radioactive use or storage area and is radiologically clean. The warehouse is simply an area used to store equipment and supplies used by ATC.

The caller has been reading newspaper articles about radioactive contamination in the sewer system outside the AMS facility, and was inquiring about the possible presence of radioactivity in the warehouse area. The caller was concerned that if contamination was in the sewers, it might also be in other areas in and around the facility.

I briefly explained the operations at the AMS facility and shared my knowledge regarding the radiological conditions in the warehouse. The caller appeared satisfied that the mold equipment stored in the warehouse was not radioactive; however, he requested that radiation surveys be performed of the mold equipment prior to its next transfer to his company.

The caller previously contacted AMS's Geneva, Ohio office and reportedly was told that there was nothing radioactive in unrestricted areas of the warehouse and surveys of the mold equipment were unnecessary and would not be done. The caller had not contacted the AMS radiation safety officer to discuss the matter. The caller had no objection if his name/number was provided to the AMS RSO so the matter could be resolved.

I contacted the AMS RSO and confirmed my understanding of the radiological conditions in the warehouse and discussed the caller's request for surveys. The RSO agreed to survey the mold equipment prior to its transfer to Nimold and to answer any questions the caller may have. The RSO indicated he would contact the caller to resolve the matter. I then contacted the caller to

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relay the information. The caller was satisfied with the resolution.

This matter was treated as an inquiry rather than an allegation since the caller did not allege any potential violations of NRC requirements or unsafe practices.

The callers name and number are as follows:

Joe Jovic, Union Steward
ATC Nimold Corp.
4626 Spring Rd.
Brooklyn Heights, Ohio 44131
(216) 741-8500