

Specialty Materials
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May 13, 2011

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Attention: Document Control Desk
Director, Office of Nuclear Material Safety Safeguards
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555-0001

Docket No. 40-3392
License No. SUB-526

Subject: 30-Day Written Follow-Up Report to NRC Event No. 46806
Reported 05/02/2011 to NRC Operations Center—Medical Treatment
Involving Contamination

The Honeywell Metropolis Works facility (MTW) reported to the NRC Operations Center in accordance with 10 CFR 40.60(b)(3) an event that requires unplanned medical treatment at a medical facility of an individual with spreadable radioactive contamination on the individual's clothing or body. This letter is a follow-up report to address specific items required by 10 CFR 40.60(b)(2).

NRC Event Number 46806 dated May 2, 2011

The following information was provided in the 24 Hour NRC Telephone Report:

Description of the Event:

An employee who had been working in the Fluorine Plant was treated in the site dispensary for redness around his right eye. The individual was treated for potential HF exposure using saline solution and calcium gluconate. The employee's work coveralls and boots were monitored by Health Physics and were contaminated. The employee returned to work.

Isotope, Quantities and Chemical Form:

U₃O₈; Natural uranium ore concentrates.

Personnel Radiation Exposure Data (if applicable):

None.

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10 CFR 40.60(c)(2) written 30-day follow up report required sections

(2)(i) A description of the event, including the probable cause and the manufacturer and model number (if applicable) of any equipment that failed or malfunctioned.

When valving in HF to C/P 333 to complete thaw-out procedure, employee found loose HF tubing. HF vapor sprayed to atmosphere. Employee valved off HF from the side and then stood back to allow the vapor cloud to dissipate. Employee reentered area after allowing cloud to dissipate, but still smelled/tasted HF. Employee exited area and washed face and eyes at eyewash station as precaution. Employee continued working. Upon return to control room, he noticed redness around the right eye. Employee reported to HP for treatment.

(2)(ii) The exact location of the event.

First aid was performed in the plant dispensary which is located within the restricted area boundary.

(2)(iii) The isotopes, quantities, and chemical and physical form of the licensed material involved.

The isotope involved was natural uranium in the form of U_3O_8 , which was in the form of spreadable contamination on the employee's plant issued coveralls and boots. The contamination levels were approximately 2,500 dpm/100 cm² on the coverall and 1,200 dpm/100 cm² on the boots. The highest dispensary smear following first aid was 34 dpm/100 cm².

(2)(iv) Date and time of the event.

The incident occurred at approximately 1020 on April 30, 2011 and the 24 hour report was submitted on May 2, 2011 at approximately 1240.

10:00 HF valved into A/B main header
10:05 HF valved into A/B subheaders
10:10 HF valved into cell 333
10:10 HF valved out to cell 333
10:11 Employee smelled HF
10:11 Employee washed face in eyewash, Notified other employees in vicinity
10:20 Employee arrived at HP, Colleague notified supervisor
11:05 Employee returned to work

(2)(v) Corrective actions taken or planned and the results of any evaluations or assessments.

The following actions were taken:

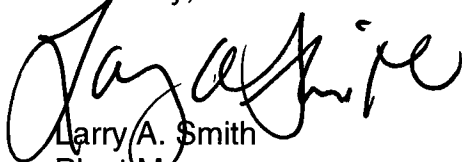
1. The dispensary is surveyed daily.
2. The on-site medical facility is cleaned routinely. Additional cleaning can be requested as required.
3. An email communicating that when possible decontaminate personnel prior to them being admitted to the dispensary was sent by April 15, 2010.

(2)(vi) The extent of exposure of individuals to radiation or to radioactive materials without identification of individuals by name.

N/A.

Please contact Mr. Michael Greeno, Regulatory Affairs Manager, at 618-309-5005, if you have additional comments or questions regarding this matter.

Sincerely,



Larry A. Smith
Plant Manager

cc: Regional Administrator
Region II, US Nuclear Regulatory Commission
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Atlanta, GA 30303-1257