

Specialty Materials
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May 16, 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. 46799
Reported 04/28/2011 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(c)(2).

NRC Event Number 46799 dated April 28, 2011

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

Description of the Event:

Employee was treated for a chemical exposure at 0330 CDT on his ring finger. The employee had contamination on his shoes and coveralls. Contamination levels were 1,500 dpm/100cm² on his coverall's cuff and 200 dpm/100cm² on the soles of his boots. There was no detectable contamination on the employee's skin. The employee was treated for the chemical exposure and returned to work. Reporting IAW §40.60(b)(3).

Isotope, Quantities and Chemical Form:

Weak hydrofluoric acid or caustic.

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.

An employee at the Environmental Protection Facility (EPF) complained of redness to both hands. Supervision sent the trainee to Safety and Safety took the employee to HP, where the person was treated with Calcium Gluconate. He had been refueling the pumps on the ponds, cleaning up on the platform at U-850/849, and connecting the drain line on the 2nd floor of EPF in the lab area. The employee had been wearing his proper PPE for the work he was doing. The employee was treated and returned to work.

(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. Contamination levels were estimated at approximately 1,500 dpm/100cm² on his coverall's cuff and approximately 200 dpm/100cm² on the soles of his boots. There was no detectable contamination on the employee's skin.

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

The incident occurred at approximately 0330 on April 28, 2011 and the 24 hour report was submitted on April 28, 2011 at approximately 1723.

(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.

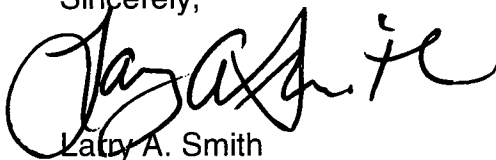
4. Draft regulatory analysis "Application of 10 CFR 40.60(b)(3) Reporting Requirements to MTW" was developed and presented to the NRC Region II on April 12, 2011, to review and discuss facility's 10 CFR 40.60(b)(3) compliance enhancement aspects.
5. Honeywell procedure MTW-ADM-HP-0105, Completing Reports to the USNRC, was revised to emphasize applicability of 10 CFR 40.60(b)(3) to on-site unplanned medical treatments of an individual with spreadable radioactive contamination on the individual's clothing or body. Completed: 5/3/2011.
6. Training on MTW-ADM-HP-0105, Completing Reports to the USNRC, procedure revision was delivered to appropriate personnel and completed by 5/3/2011.
7. Instructions on monitoring potentially contaminated injured individuals in the site's dispensary and documenting associated radioactive contamination surveys were developed and distributed to Health Physics (HP) personnel on 3/22/2011. These instructions were followed and used for conducting surveys and recording survey results for unplanned medical treatments of the individuals with spreadable contamination reported to the NRC (## 46729, 46730, 46736, 46799 and 46806) within 24 hours after the discovery on 4/5/2011 (2 event reports), 4/7/2011, 4/28/2011, and 5/2/2011.
8. Additional guidance for on-site locations of injury treatment activities was developed and communicated to all Health Physics staff on 4/6/2011.
9. Incorporate guidance for documenting of contamination surveys into HP program procedures. Target date: 7/29/2011.

(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,



Lary A. Smith
Plant Manager

cc: Regional Administrator
Region II, US Nuclear Regulatory Commission
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