

Specialty Materials
Honeywell
P.O. Box 430
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Metropolis, IL 62960

May 3, 2011

Attention: Document Control Desk
Director, Office of Nuclear Material Safety & Safeguards
U.S. Nuclear Regulatory Commission
11555 Rockville Pike
Rockville, MD 20852

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

Subject: 30-Day Written Follow-Up Report to NRC Event No. 46730
Reported 04/05/2011 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 46730 dated April 5, 2011

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

Description of the Event:

Employee was treated for KOH exposure at 1100 hours. The employee had contamination on his plant issued shoes. Contamination levels were estimated to be approximately 16,800 dpm/100cm². The employee was treated using ammonium sulfate and returned to work. Reporting IAW §40.60(b)(3).

Isotope, Quantities and Chemical Form:

Caustic (KOH), uranium ore concentrate.

Personnel Radiation Exposure Data (if applicable):

None.

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

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(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.

A contract employee working on South Greensalt pad felt burning on both facial cheeks at around 1100. The area was immediately washed using local eyewash station and reported to the plant dispensary. The area was treated with calcium gluconate as a precaution because the worker was working in a weak HF handling area. A field sample was collected and analyzed indicating KOH. Therefore the treatment was changed to ammonia sulfate. The employee was released with noticeable red area on left cheek at around 1300.

(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 $U^{238}O_8$, which was in the form of spreadable contamination on the employee's plant issued shoes. The contamination levels were estimated at approximately 16,800 dpm/100cm²

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

The incident occurred at approximately 1100 on April 5, 2011 and the 24 hour report was submitted on April 5, 2011 at approximately 1834.

(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,

A handwritten signature in black ink, appearing to read "Larry A. Smith".

Larry Smith
Larry A. Smith
Plant Manager

cc: Regional Administrator
Region II, U.S. Nuclear Regulatory Commission
245 Peachtree Center Ave., NE, Suite 1200
Atlanta, GA 30303-1257