

**Specialty Materials**

Honeywell  
P.O. Box 430  
2768 North US 45 Road  
Metropolis, IL 62960

August 26, 2011

Certified Mail  
7008 1830 0002 2995 2525

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

Gentlemen:

Subject: SUB-526  
Docket No. 40-3392

We have enclosed six (6) copies of our Facility Effluent Report representing the period of January 1, 2011, through June 30, 2011.

Sincerely,

*Mark A. Smith for Larry Smith*  
Larry A. Smith  
Plant Manager

Enclosure: Facility Effluent Report (6)

cc: U.S. Nuclear Regulatory Commission – Region II  
Marquis One Tower  
245 Peachtree Center Ave., NE Suite 1200  
Atlanta, GA 30303-1257

Enclosure: 2 copies

File  
R. Morehead – (MEY-4)

ALARA Committee: T. Barnes, L. Smith, D. Palmer, J. Cybulski, B. McBee, J. King  
S. Patterson, L. Litinski, R. Stokes, M. Greeno, M. Wolf

Mr. Steven C. Collins  
IL Emergency Management Agency  
1035 Outer Park Drive  
Springfield, IL 62704

Attention: Tilda Liu, NMSS Project Manager  
Mail Stop EBB 2-C40M  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555-0001

Email: [tilda.liu@nrc.gov](mailto:tilda.liu@nrc.gov)

*Additional copies sent to PM*

*NMSS01*

## **FACILITY EFFLUENT REPORT**

### **TYPE OF FACILITY:**

UF<sub>6</sub> Conversion

### **LICENSE:**

Source Materials No. SUB-526  
Docket No. 40-3392

### **FACILITY ADDRESS:**

Honeywell - Metropolis Works  
P. O. Box 430  
Metropolis, IL 62960

### **REPORTING PERIOD:**

January 1, 2011 – June 30, 2011

### **GASEOUS EFFLUENTS:**

1. The average release rate for the reporting period =  $5.5E^5$  ACFM.
2. The principle radionuclides released are particulate, oxides and fluorides as follows:

<u>January 1 – June 30, 2010</u>		
Uranium (Nat.)	=	$3.63 \text{ e}^{-2}$ curies (measured)
Ra <sup>226</sup>	=	$5.76 \text{ e}^{-6}$ curies (Note 1)
Th <sup>230</sup>	=	$6.35 \text{ e}^{-5}$ curies (Note 1)

### **LIQUID EFFLUENTS: (Note 2)**

1. The average release rate for the reporting period = 2839 GPM.
2. The principle radionuclides released are as follows:

Uranium (Nat.)	=	$9.04 \text{ e}^{-1}$ curies (measured)
Ra <sup>226</sup>	=	$1.92 \text{ e}^{-3}$ curies (measured)
Th <sup>230</sup>	=	$2.41 \text{ e}^{-3}$ curies (measured)

**NOTE 1:** Calculated from measured Th<sup>230</sup> and Ra<sup>226</sup> content of the various types of ore concentrates processed during the reporting period. As the ratio from exit points of these nuclides to uranium is assumed to be the same as in the concentrates, this calculation results in conservative (high) reported quantities.

**NOTE 2:** Quantities include stormwater effluent discharge.