

**Specialty Materials**

Honeywell  
P.O. Box 430  
Highway 45 North  
Metropolis, IL 62960

February 20, 2009

(UPS: 301-415-8147)

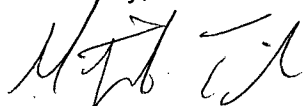
Director, Nuclear Material Safety & Safeguards  
U.S. Nuclear Regulatory Commission  
Attention: Document Control Desk  
Mail Stop T-8A33, Two Flint N., 11545 Rockville Pike  
Rockville, MD 20852-2738

Gentlemen:

Subject: SUB-526  
Docket No. 40-3392

We have enclosed six (6) copies of our "Facility Effluent Report" representing the period of July 1, 2008 through December 31, 2008.

Sincerely,



Mitch Tillman  
Plant Manager

Enclosure: Facility Effluent Report (6)

cc: Region II  
U.S. Nuclear Regulatory Commission  
Sam Nunn Atlanta Federal Center  
61 Forsyth St. SW Suite 23T85  
Atlanta, GA 30303-8931

(UPS: 404-562-4731)

Enclosure: 2 copies

File

R. Morehead – (MEY-4)

ALARA Committee: T. Barnes, D. Heine, M. Torres, M. Tillman, J. Cybulski, D. Lillie,  
T. Goins, S. Patterson, L. Litinski, R. Stokes, N. Rodgers, M. Greeno

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

US Nuclear Regulatory Commission  
Attention: Mr. Mike Raddatz  
Fuel Cycle Licensing Branch  
Mail Stop: EBB-C40M  
Two White Flint North, 11545 Rockville Pike  
Rockville, MD 20852-2738

Phone: (UPS: 301-492-3108)

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## **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:**

July 1, 2008 – December 31, 2008

### **GASEOUS EFFLUENTS:**

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

July 1 – December 31, 2008

Uranium (Nat.)	=	$6.10 \text{E}^{-2}$ curies (measured)
Ra <sup>226</sup>	=	$6.21 \text{E}^{-6}$ curies (Note 1)
Th <sup>230</sup>	=	$5.18 \text{E}^{-5}$ curies (Note 1)

### **LIQUID EFFLUENTS:**

1. The average release rate for the reporting period = 1811 GPM.
2. The principle radionuclides released are as follows:

Uranium (Nat.)	=	$3.21 \text{E}^{-1}$ curies (measured)
Ra <sup>226</sup>	=	$1.12 \text{E}^{-3}$ curies (measured)
Th <sup>230</sup>	=	$7.72 \text{E}^{-4}$ curies (measured)

### **NOTES 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.