

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,

Larry A. 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

Additional copies sent to PM

NM5501

FACILITY EFFLUENT REPORT

TYPE OF FACILITY:

UF₆ 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.)	= $3.63 e^{-2}$ curies (measured)
Ra ²²⁶	= $5.76 e^{-6}$ curies (Note 1)
Th ²³⁰	= $6.35 e^{-5}$ 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.)	= $9.04 e^{-1}$ curies (measured)
Ra ²²⁶	= $1.92 e^{-3}$ curies (measured)
Th ²³⁰	= $2.41 e^{-3}$ curies (measured)

NOTE 1: Calculated from measured Th²³⁰ and Ra²²⁶ 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.