

Specialty Materials

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

February 26, 2010

Certified Mail
7008 1830 0002 2995 2785

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 July 1, 2009, through December 31, 2009.

Sincerely,



Larry A. Smith
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

Enclosure: 2 copies

File
R. Morehead – (MEY-4)

ALARA Committee: T. Barnes, D. Heine, L. Smith, D. Palmer, J. Cybulski, D. Lillie,
T. Goines, S. Patterson, L. Litinski, R. Stokes, M. Greeno

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

US Nuclear Regulatory Commission
Attention: Tilda Liu
Fuel Cycle Licensing Branch
Mail Stop: EBB 2 - C40M
11555 Rockville Pike
Rockville, MD 20852-2738

1E17

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:

July 1, 2009 – December 31, 2009

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:

July 1 – December 31, 2009

Uranium (Nat.)	=	$6.99 e^{-2}$ curies (measured)
Ra ²²⁶	=	$1.54 e^{-5}$ curies (Note 1)
Th ²³⁰	=	$1.08 e^{-4}$ curies (Note 1)

LIQUID EFFLUENTS:

1. The average release rate for the reporting period = 2054 GPM.
2. The principle radionuclides released are as follows:

Uranium (Nat.)	=	$7.93 e^{-1}$ curies (measured)
Ra ²²⁶	=	$1.98 e^{-3}$ curies (measured)
Th ²³⁰	=	$4.18 e^{-3}$ curies (measured)

NOTES 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.

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