

Honeywell

Performance Materials and Technologies
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September 1, 2016

UPS/Next Day Air

Attn: Document Control Desk
U.S. Nuclear Regulatory Commission
11555 Rockville Pike
Rockville, MD 20852

Subject: SUB-526
Docket No. 40-3392

Enclosed are six copies of two separate Facility Effluent Reports representing the period of July 1, 2015 through December 31, 2015 and January 1, 2016 through June 30, 2016. As communicated in correspondence dated February 29, 2016, the previously distributed 2015 Facility Effluent report contained information that had been estimated due to analytical reporting issues beyond the control of the facility. Please refer to Note 3 on the attached report for additional details.

Sincerely,



John Albritton
Plant Manager

Enclosure: Facility Effluent Report (6)

cc: ALARA Committee – J. Albritton, B Hunt, D. Craig, J. Cybulski, L. Litinski, S. Patterson, M. Wolf, R. Lindberg

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

Adnan G. Khayyat
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U.S. Nuclear Regulatory Commission - Region II
245 Peachtree Center Ave. NE, Suite 1200
Atlanta, GA 30303

IE48
NMSS

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, 2016 – June 30, 2016

GASEOUS EFFLUENTS:

1. The average release rate for the reporting period = 5.5E+05 ACFM.
2. The principle radionuclides released are particulate, oxides and fluorides as follows:

July 1 – December 31, 2015

Uranium (Nat.)	=	6.31E-2 curies (measured)
Ra ²²⁶	=	3.17E-5 curies (Note 1)
Th ²³⁰	=	1.77E-4 curies (Note 1)

LIQUID EFFLUENTS: (Note 2)

1. The average release rate for the reporting period = 2283 GPM.
2. The principle radionuclides released are as follows:

Uranium (Nat.)	=	5.29E-1 curies (measured)
Ra ²²⁶	=	1.39E-2 curies (measured)
Th ²³⁰	=	2.48E-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 storm water effluent discharge.

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, 2015 – December 31, 2015

GASEOUS EFFLUENTS:

1. The average release rate for the reporting period = $5.5\text{E}+05$ ACFM.
2. The principle radionuclides released are particulate, oxides and fluorides as follows:

		<u>July 1 – December 31, 2015</u>
Uranium (Nat.)	=	6.71E-2 curies (measured)
Ra ²²⁶	=	5.13E-5 curies (Note 1)
Th ²³⁰	=	2.29E-4 curies (Note 1)

LIQUID EFFLUENTS: (Note 2) (Note 3)

1. The average release rate for the reporting period = 2388 GPM.
2. The principle radionuclides released are as follows:

Uranium (Nat.)	=	7.82E-1 curies (measured)
Ra ²²⁶	=	5.42E-3 curies (measured)
Th ²³⁰	=	6.72E-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 storm water effluent discharge.

NOTE 3: Previously reported values were an estimate due to temporary loss of samples at the off-site analytical laboratory. Currently reported results are based upon the recovered sample data rather than an estimate.