

Performance Materials and Technologies

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

August 22, 2013

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

We have enclosed six (6) copies of our Facility Effluent Report representing the period of January 1, 2013, through June 30, 2013.

Sincerely,



Larry A. Smith
Plant Manager

Enclosure: Facility Effluent Report (6)

cc: ALARA Committee – L. Smith, J. Smith, J. Pritchett, J. Cybulski, J. King, L. Litinski,
S. Patterson, M. Wolf, M. Abel, R. Lindberg

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

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

Tilda Liu, Sr. NMSS Project Manager
Mail Stop EBB 3WFN-13A44
U.S. Nuclear Regulatory Commission
11555 Rockville Pike
Rockville, MD 20852

FSME20

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, 2013 – June 30, 2013

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:

January 1 – June 30, 2013

| | | |
|-------------------|---|----------------------------|
| Uranium (Nat.) | = | 7.50E-03 curies (measured) |
| Ra ²²⁶ | = | 3.61E-06 curies (Note 1) |
| Th ²³⁰ | = | 1.94E-05 curies (Note 1) |

LIQUID EFFLUENTS: (Note 2)

1. The average release rate for the reporting period = 1488 GPM.
2. The principle radionuclides released are as follows:

| | | |
|-------------------|---|----------------------------|
| Uranium (Nat.) | = | 2.34E-01 curies (measured) |
| Ra ²²⁶ | = | 2.10E-03 curies (measured) |
| Th ²³⁰ | = | 1.71E-03 curies (measured) |

NOTE 1: Calculated from measured Th²³⁰ and Ra²²⁶ content of the various types of ore concentrates present in the process area 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.

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, 2013 – June 30, 2013

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:

| <u>January 1 – June 30, 2013</u> | | |
|----------------------------------|---|----------------------------|
| Uranium (Nat.) | = | 7.50E-03 curies (measured) |
| Ra ²²⁶ | = | 3.61E-06 curies (Note 1) |
| Th ²³⁰ | = | 1.94E-05 curies (Note 1) |

LIQUID EFFLUENTS: (Note 2)

1. The average release rate for the reporting period = 1488 GPM.
2. The principle radionuclides released are as follows:

| | | |
|-------------------|---|----------------------------|
| Uranium (Nat.) | = | 2.34E-01 curies (measured) |
| Ra ²²⁶ | = | 2.10E-03 curies (measured) |
| Th ²³⁰ | = | 1.71E-03 curies (measured) |

NOTE 1: Calculated from measured Th²³⁰ and Ra²²⁶ content of the various types of ore concentrates present in the process area 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.

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, 2013 – June 30, 2013

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:

| <u>January 1 – June 30, 2013</u> | | |
|----------------------------------|---|----------------------------|
| Uranium (Nat.) | = | 7.50E-03 curies (measured) |
| Ra ²²⁶ | = | 3.61E-06 curies (Note 1) |
| Th ²³⁰ | = | 1.94E-05 curies (Note 1) |

LIQUID EFFLUENTS: (Note 2)

1. The average release rate for the reporting period = 1488 GPM.
2. The principle radionuclides released are as follows:

| | | |
|-------------------|---|----------------------------|
| Uranium (Nat.) | = | 2.34E-01 curies (measured) |
| Ra ²²⁶ | = | 2.10E-03 curies (measured) |
| Th ²³⁰ | = | 1.71E-03 curies (measured) |

NOTE 1: Calculated from measured Th²³⁰ and Ra²²⁶ content of the various types of ore concentrates present in the process area 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.

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, 2013 – June 30, 2013

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:

| <u>January 1 – June 30, 2013</u> | | |
|----------------------------------|---|----------------------------|
| Uranium (Nat.) | = | 7.50E-03 curies (measured) |
| Ra ²²⁶ | = | 3.61E-06 curies (Note 1) |
| Th ²³⁰ | = | 1.94E-05 curies (Note 1) |

LIQUID EFFLUENTS: (Note 2)

1. The average release rate for the reporting period = 1488 GPM.
2. The principle radionuclides released are as follows:

| | | |
|-------------------|---|----------------------------|
| Uranium (Nat.) | = | 2.34E-01 curies (measured) |
| Ra ²²⁶ | = | 2.10E-03 curies (measured) |
| Th ²³⁰ | = | 1.71E-03 curies (measured) |

NOTE 1: Calculated from measured Th²³⁰ and Ra²²⁶ content of the various types of ore concentrates present in the process area 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.

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, 2013 – June 30, 2013

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:

| <u>January 1 – June 30, 2013</u> | | |
|----------------------------------|---|----------------------------|
| Uranium (Nat.) | = | 7.50E-03 curies (measured) |
| Ra ²²⁶ | = | 3.61E-06 curies (Note 1) |
| Th ²³⁰ | = | 1.94E-05 curies (Note 1) |

LIQUID EFFLUENTS: (Note 2)

1. The average release rate for the reporting period = 1488 GPM.
2. The principle radionuclides released are as follows:

| | | |
|-------------------|---|----------------------------|
| Uranium (Nat.) | = | 2.34E-01 curies (measured) |
| Ra ²²⁶ | = | 2.10E-03 curies (measured) |
| Th ²³⁰ | = | 1.71E-03 curies (measured) |

NOTE 1: Calculated from measured Th²³⁰ and Ra²²⁶ content of the various types of ore concentrates present in the process area 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.

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, 2013 – June 30, 2013

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:

| <u>January 1 – June 30, 2013</u> | | |
|----------------------------------|---|----------------------------|
| Uranium (Nat.) | = | 7.50E-03 curies (measured) |
| Ra ²²⁶ | = | 3.61E-06 curies (Note 1) |
| Th ²³⁰ | = | 1.94E-05 curies (Note 1) |

LIQUID EFFLUENTS: (Note 2)

1. The average release rate for the reporting period = 1488 GPM.
2. The principle radionuclides released are as follows:

| | | |
|-------------------|---|----------------------------|
| Uranium (Nat.) | = | 2.34E-01 curies (measured) |
| Ra ²²⁶ | = | 2.10E-03 curies (measured) |
| Th ²³⁰ | = | 1.71E-03 curies (measured) |

NOTE 1: Calculated from measured Th²³⁰ and Ra²²⁶ content of the various types of ore concentrates present in the process area 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.

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, 2013 – June 30, 2013

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:

| <u>January 1 – June 30, 2013</u> | | |
|----------------------------------|---|----------------------------|
| Uranium (Nat.) | = | 7.50E-03 curies (measured) |
| Ra ²²⁶ | = | 3.61E-06 curies (Note 1) |
| Th ²³⁰ | = | 1.94E-05 curies (Note 1) |

LIQUID EFFLUENTS: (Note 2)

1. The average release rate for the reporting period = 1488 GPM.
2. The principle radionuclides released are as follows:

| | | |
|-------------------|---|----------------------------|
| Uranium (Nat.) | = | 2.34E-01 curies (measured) |
| Ra ²²⁶ | = | 2.10E-03 curies (measured) |
| Th ²³⁰ | = | 1.71E-03 curies (measured) |

NOTE 1: Calculated from measured Th²³⁰ and Ra²²⁶ content of the various types of ore concentrates present in the process area 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.