



THE POWER OF **CONNECTED**

**Performance Materials and Technologies**

2768 North U.S. 45 Road

P.O. Box 430

Metropolis, IL 62960

www.honeywell.com

February 27, 2018

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 our Facility Effluent Report representing the period of July 1, 2017, through December 31, 2017.

Jeff Fulks

Plant Manager

Enclosure: Facility Effluent Report (6)

cc:

ALARA Committee – B. Hunt, D. Craig, J. Benard, R. Sanders, 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

IL Emergency Management Agency

1035 Outer Park Drive

Springfield, IL 62704

Tilda Liu, Sr NMSS Project Manager

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:

July 1, 2017 – December 31, 2017

### 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, 2017 – December 31, 2017

Uranium (Nat.)	=	1.42E-2 curies (measured)
Ra <sup>226</sup>	=	9.21E-6 curies (Note 1)
Th <sup>230</sup>	=	1.06E-4 curies (Note 1)

### LIQUID EFFLUENTS: (Note 2)

1. The average release rate for the reporting period = 1816 GPM.
2. The principle radionuclides released are as follows:

Uranium (Nat.)	=	2.93E-01 curies (measured)
Ra <sup>226</sup>	=	4.03E-03 curies (measured)
Th <sup>230</sup>	=	4.01E-03 curies (measured)

**NOTE 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.

**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, 2017 – December 31, 2017

### 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, 2017 – December 31, 2017

Uranium (Nat.)	=	1.42E-2 curies (measured)
Ra <sup>226</sup>	=	9.21E-6 curies (Note 1)
Th <sup>230</sup>	=	1.06E-4 curies (Note 1)

### LIQUID EFFLUENTS: (Note 2)

1. The average release rate for the reporting period = 1816 GPM.
2. The principle radionuclides released are as follows:

Uranium (Nat.)	=	2.93E-01 curies (measured)
Ra <sup>226</sup>	=	4.03E-03 curies (measured)
Th <sup>230</sup>	=	4.01E-03 curies (measured)

**NOTE 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.

**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, 2017 – December 31, 2017

### 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>July 1, 2017 – December 31, 2017</u>		
Uranium (Nat.)	=	1.42E-2 curies (measured)
Ra <sup>226</sup>	=	9.21E-6 curies (Note 1)
Th <sup>230</sup>	=	1.06E-4 curies (Note 1)

### LIQUID EFFLUENTS: (Note 2)

1. The average release rate for the reporting period = 1816 GPM.
2. The principle radionuclides released are as follows:

Uranium (Nat.)	=	2.93E-01 curies (measured)
Ra <sup>226</sup>	=	4.03E-03 curies (measured)
Th <sup>230</sup>	=	4.01E-03 curies (measured)

**NOTE 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.

**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, 2017 – December 31, 2017

### 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>July 1, 2017 – December 31, 2017</u>		
Uranium (Nat.)	=	1.42E-2 curies (measured)
Ra <sup>226</sup>	=	9.21E-6 curies (Note 1)
Th <sup>230</sup>	=	1.06E-4 curies (Note 1)

### LIQUID EFFLUENTS: (Note 2)

1. The average release rate for the reporting period = 1816 GPM.
2. The principle radionuclides released are as follows:

Uranium (Nat.)	=	2.93E-01 curies (measured)
Ra <sup>226</sup>	=	4.03E-03 curies (measured)
Th <sup>230</sup>	=	4.01E-03 curies (measured)

**NOTE 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.

**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, 2017 – December 31, 2017

### 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>July 1, 2017 – December 31, 2017</u>		
Uranium (Nat.)	=	1.42E-2 curies (measured)
Ra <sup>226</sup>	=	9.21E-6 curies (Note 1)
Th <sup>230</sup>	=	1.06E-4 curies (Note 1)

### LIQUID EFFLUENTS: (Note 2)

1. The average release rate for the reporting period = 1816 GPM.
2. The principle radionuclides released are as follows:

Uranium (Nat.)	=	2.93E-01 curies (measured)
Ra <sup>226</sup>	=	4.03E-03 curies (measured)
Th <sup>230</sup>	=	4.01E-03 curies (measured)

**NOTE 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.

**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, 2017 – December 31, 2017

### 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>July 1, 2017 – December 31, 2017</u>		
Uranium (Nat.)	=	1.42E-2 curies (measured)
Ra <sup>226</sup>	=	9.21E-6 curies (Note 1)
Th <sup>230</sup>	=	1.06E-4 curies (Note 1)

### LIQUID EFFLUENTS: (Note 2)

1. The average release rate for the reporting period = 1816 GPM.
2. The principle radionuclides released are as follows:

Uranium (Nat.)	=	2.93E-01 curies (measured)
Ra <sup>226</sup>	=	4.03E-03 curies (measured)
Th <sup>230</sup>	=	4.01E-03 curies (measured)

**NOTE 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.

**NOTE 2:** Quantities include storm water effluent discharge.