

# Honeywell

THE POWER OF CONNECTED

Performance Materials & Technologies  
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February 19<sup>th</sup>, 2021

UPS/Next Day Air

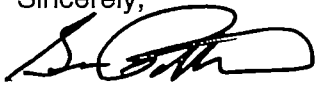
Attn: Document Control Desk  
U.S. Nuclear Regulatory Commission  
11555 Rockville Pike  
Rockville, MD 20852

Docket No. 40-3392; License No. SUB-526  
Subject: Honeywell Metopolis Works 6 Month Facility Effluent Report

Enclosed are six copies of Honeywell Metopolis Works Facility Effluent Report representing the period July 1 through December 31, 2020.

Six copies of the corrected effluent report for January 1 through June 30, 2020 are also enclosed. As communicated in correspondence dated August 28<sup>th</sup>, 2020 letter, a subset of 2<sup>nd</sup> quarter 2020 results were not available at the time of the original submission.

Sincerely,



for Brian Hunt

Brian Hunt  
Plant Manager

Enclosure: Facility Effluent Report Jul. - Dec. 2020 (6 copies)  
Facility Effluent Report Jan. - Jun. 2020 (6 copies)

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

Adnan G. Khayyat  
IL Emergency Management Agency  
1035 Outer Park Drive  
Springfield, IL 62704

US NRC  
David Titinski – Project Manager  
Fuel Facility Licensing and Oversight Branch  
Division of Fuel Cycle Safety, Safeguards, and  
Environmental Review  
Office of NMSS  
11555 Rockville Pike  
Rockville, MD 20852

IE48  
NMSS01  
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, 2020 – December 31, 2020

**GASEOUS EFFLUENTS:**

1. The average release rate for the reporting period =  $9.5 \times 10^3$  ACFM.
2. The principle radionuclides released are particulate, oxides and fluorides as follows:

Uranium (Nat.)	=	$1.98 \times 10^{-5}$ curies (measured)
Ra <sup>226</sup>	=	$1.17 \times 10^{-8}$ curies (Note 1)
Th <sup>230</sup>	=	$1.58 \times 10^{-7}$ curies (Note 1)

**LIQUID EFFLUENTS: (Note 2)**

1. The average release rate for the reporting period = 973 GPM.
2. The principle radionuclides released are as follows:

Uranium (Nat.)	=	$5.73 \times 10^{-2}$ curies (measured)
Ra <sup>226</sup>	=	$2.25 \times 10^{-3}$ curies (measured)
Th <sup>230</sup>	=	$1.20 \times 10^{-3}$ 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:**

January 1, 2020 – June 30, 2020

**GASEOUS EFFLUENTS: (Note 3)**

1. The average release rate for the reporting period =  $9.5 \times 10^3$  ACFM.
2. The principle radionuclides released are particulate, oxides and fluorides as follows:

Uranium (Nat.)	=	$2.53 \times 10^{-5}$ curies (measured)
Ra <sup>226</sup>	=	$1.49 \times 10^{-8}$ curies (Note 1)
Th <sup>230</sup>	=	$2.02 \times 10^{-7}$ curies (Note 1)

**LIQUID EFFLUENTS: (Note 2)(Note 3)**

1. The average release rate for the reporting period = 683 GPM.
2. The principle radionuclides released are as follows:

Uranium (Nat.)	=	$5.72 \times 10^{-2}$ curies (measured)
Ra <sup>226</sup>	=	$1.22 \times 10^{-3}$ curies (measured)
Th <sup>230</sup>	=	$9.26 \times 10^{-4}$ 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.

**NOTE 3:** The reported values have been updated for sample results that were unavailable at the time of the original submission.