Honeywell
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February 29th, 2024

UPS/Next Day Air

ATTN: Document Control Desk
Director, Office of Nuclear Material Safety and Safeguards
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

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

Enclosed is the Honeywell Metropolis Works Facility Effluent Report representing the period July 1 through December 31, 2023.

Sincerely,

Brett Suits
Plant Manager

Enclosure: Facility Effluent Report

Cc:
ALARA Committee – David Craig, Jeremy Dedmon, Natosha Dile, Sean Patterson, Brett Suits, Casey Walls, Myron Wessel

USNRC, Region II,
245 Peachtree Center Avenue, NE., Suite 1200,
Atlanta, GA 30303-1257

IE48
NMSS20
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 1st, 2023 – December 31st, 2023

GASEOUS EFFLUENTS:

1. The average release rate for the reporting period = 5.5×10^{5} ACFM.

2. The principle radionuclides released are particulate, oxides and fluorides as follows:

Uranium (Nat.)	=	2.75×10^{-2} curies (measured)
Ra^{226}	=	6.12×10^{-3} curies (Note 1)
Th^{230}	=	1.16×10^{-3} curies (Note 1)

LIQUID EFFLUENTS: (Note 2)

1. The average release rate for the reporting period = 1761 GPM.

2. The principle radionuclides released are as follows:

Uranium (Nat.)	=	2.76×10^{-1} curies (measured)
Ra^{226}	=	2.77×10^{-3} curies (measured)
Th^{230}	=	2.84×10^{-3} curies (measured)

NOTE 1: Calculated from a measured ratio of Th^{230} and Ra^{226} compared to total uranium collected at environmental air sample locations around the facility. These ratios were then used to determine Th^{230} and Ra^{226} activity discharged based upon measured uranium from process stacks and fans.

NOTE 2: Quantities include storm water effluent discharge.