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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
January 1 through June 30, 2024.

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, Jno Benard

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

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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 1st, 2024 – June 30th, 2024

GASEOUS EFFLUENTS:

1. The average release rate for the reporting period = 5.8×10^5 ACFM.
2. The principle radionuclides released are particulate, oxides and fluorides as follows:

Uranium (Nat.)	=	7.32×10^{-2} curies (measured)
Ra ²²⁶	=	3.94×10^{-3} curies (Note 1)
Th ²³⁰	=	5.27×10^{-3} curies (Note 1)

LIQUID EFFLUENTS: (Note 2)

1. The average release rate for the reporting period = 1643 GPM.
2. The principle radionuclides released are as follows:

Uranium (Nat.)	=	3.63×10^{-1} curies (measured)
Ra ²²⁶	=	2.64×10^{-3} curies (measured)
Th ²³⁰	=	2.97×10^{-3} curies (measured)

NOTE 1: Calculated from a measured ratio of Th²³⁰ and Ra²²⁶ compared to total uranium collected at environmental air sample locations around the facility. These ratios were then used to determine Th²³⁰ and Ra²²⁶ activity discharged based upon measured uranium from process stacks and fans.

NOTE 2: Quantities include storm water effluent discharge.