



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**  
REGION II  
245 PEACHTREE CENTER AVENUE N.E., SUITE 1200  
ATLANTA, GEORGIA 30303-1200

October 19, 2021

Mr. Brian Hunt  
Plant Manager  
Honeywell Metropolis Works  
P.O. Box 430  
Metropolis, IL 62960

SUBJECT: HONEYWELL METROPOLIS WORKS – U. S. NUCLEAR REGULATORY  
COMMISSION INTEGRATED INSPECTION REPORT NUMBER 40-3392/2021-003

Dear Mr. Hunt:

On August 18, 2021, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at Honeywell Metropolis Works facility in Metropolis, IL., and discussed the results of this inspection with you and other members of your staff. The results of this inspection are documented in the enclosed report.

No violations of more than minor significance were identified during this inspection.

This letter, its enclosure, and your response (if any) will be made available for public inspection and copying at <http://www.nrc.gov/reading-rm/adams.html> and at the NRC Public Document Room in accordance with Title 10 of the *Code of Federal Regulations* 2.390, "Public Inspections, Exemptions, Requests for Withholding."

Sincerely,

**/RA/**

Eric C. Michel, Chief  
Projects Branch 2  
Division of Fuel Facility Inspection

Docket No. 40-3392  
License No. SUB-526

Enclosure:  
NRC Inspection Report 40-3392/2021-003  
w/Supplemental Information

cc: w/Attachment via LISTSERV®

SUBJECT: HONEYWELL METROPOLIS WORKS – NUCLEAR REGULATORY  
COMMISSION INTEGRATED INSPECTION REPORT 40-3392/2021-003  
DATED October 19, 2021

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NAME	T. Vukovinsky	R. Womack	E. Michel		
DATE	8/30/2021	8/30/2021	10/19/2021		

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**U. S. NUCLEAR REGULATORY COMMISSION**

**REGION II**

**INSPECTION REPORT**

Docket No.: 40-3392

License No.: SUB-526

Report No.: 40-3392/2021-003

Enterprise Identifier: I-2021-003-0126

Licensee: Honeywell International, Inc.

Facility: Metropolis Works

Location: Metropolis, IL 62960

Dates: August 18, 2021

Inspectors: T. Vukovsky, Sr. Fuel Facility Inspector  
R. Womack, Sr. Fuel Facility Inspector

Approved by: Eric C. Michel, Chief  
Projects Branch 2  
Division of Fuel Facility Inspection

Enclosure

## **EXECUTIVE SUMMARY**

Honeywell International, Inc.  
Honeywell Metropolis Works  
Nuclear Regulatory Commission Integrated Inspection Report 40-3392/2021-003  
July 1 to September 30, 2021

The U.S. Nuclear Regulatory Commission (NRC) regional inspectors conducted inspections during normal shifts in the area of Safety Operations and Facility Support. The inspectors performed a selective examination of licensee activities that were accomplished by direct observation of safety-significant activities and equipment, tours of the facility, interviews and discussions with licensee personnel, and a review of facility records. No violations of more than minor significance were identified during the inspection.

### **Safety Operations**

- In the area of Operational Safety, no violations of more than minor significance were identified. (Paragraph A.1)

### **Facility Support**

- In the area of Plant Modifications, no violations of more than minor significance were identified. (Paragraph B.1)

#### **Attachment:**

Key Points of Contact  
List of Items Opened, Closed, and Discussed  
Inspection Procedures Used  
Documents Reviewed

## REPORT DETAILS

### Summary of Plant Status

The Honeywell Metropolis Works (MTW) uranium conversion facility located near Metropolis, IL. The licensee is authorized to possess 150 million pounds of natural uranium ore and to convert the uranium ore into uranium hexafluoride (UF<sub>6</sub>). During this inspection period, all uranium conversion processing remained shut down, processing equipment emptied, referred to as ready-idle status. The only significant NRC licensed uranium operations being conducted included the receipt, sampling, storage, and shipment of uranium ore, and radiological support staff operations. The inspection effort during the year 2021 was approximately 20% of the normal effort when the facility is fully operational. This inspection effort was commensurate with the idle-ready state of the facility; as described by the Honeywell Licensee Performance Review 40-3392/2020-005, dated March 2, 2020, ADAMS Accession #ML20062K159.

### **A. Safety Operations**

#### 1. Operational Safety (Inspection Procedure 88020)

##### a. Inspection Scope

The inspectors evaluated the operational safety of the facility to verify the licensee operated the plant safely and in accordance with Title 10 Code of Federal Regulations (CFR) Part 40, the license, and the License Application (SUB-526). At the time of inspection, the facility was in a “ready-idle” status with minimal operations, therefore the inspectors completed the inspection procedure requirements that were applicable to the current operational status of the facility.

The inspectors conducted plant walk downs, interviewed the operations personnel and reviewed records associated with the uranium ore sampling building to verify compliance with the License Application. The inspectors also interviewed staff and conducted a walk down of the facility to assess the condition and configuration of out-of-service plant systems and components due to the “ready-idle” status and verify they were maintained in a safe condition. The inspectors conducted walk downs of the uranium ore drum storage yard and UF<sub>6</sub> cylinder storage yards to verify the applicable safety controls were functional and available in accordance with the licensing basis documents. The inspectors interviewed licensee staff, reviewed the latest version of the Integrated Safety Analysis (ISA) Summary, reviewed surveillance records, and conducted walk downs to evaluate the applicable safety controls and active plant features and procedures (PFAPs) for the “ready-idle” status and verify they were available and being implemented in accordance with the ISA and License Application.

The inspectors performed walk downs of the sampling plant and the drum storage pad and observed sampling plant operations to verify the applicable safety controls were functional and available and the operations were occurring in accordance with MTW-SOP-SMP-0215, “Sampling Plant System Startup and Operation.” The inspectors also reviewed completed surveillances of the drum storage and UF<sub>6</sub> storage areas to verify management measures were implemented in accordance with approved procedures.

The inspectors reviewed a sample of incident reports (IRs), listed in Section 4.0 of the Attachment, from the licensee's corrective action program (CAP) from the past 12 months to verify safety-significant issues were being entered in the program for resolution and processed in accordance with procedure MTW-ADM-REG-0110 "Corrective Action Program."

b. Conclusion

No Violations of more than minor significance were identified.

**B. Facility Support**

1. Plant Modifications (Annual) (Inspection Procedure 88070)

a. Inspection Scope

The inspectors reviewed samples of plant modifications during the last 12 months to evaluate if the change management program and associated procedures remained in compliance with Sections 3 and 11 of the License Application. While the UF<sub>6</sub> Conversion operations remain completely shut down, referred to as idle-ready state, minimal plant modifications were conducted over the last year, thus the inspection scope was limited in size.

The inspectors reviewed MTW-ADM-REG-0120, "Management of Change," Revision 7, to verify that modifications to the facility were in accordance with the requirements in the License Application. The inspectors also reviewed MTW-ADM-OPS-0121, "Management of Plant Features and Procedures (PFAPs)," Revision 24, to verify that any plant modifications did not impact safety features and PFAPs.

The inspectors reviewed a sample of entries from the licensee's CAP created since the last inspection to verify that configuration control issues had been documented and reviewed promptly, as required by License Application, Chapter 11.6. In addition, the inspectors reviewed the licensee's corrective actions to verify they were adequate to address and resolve the issue(s) as required.

b. Conclusion

No violations of more than minor significance were identified.

**C. Exit Meetings**

The inspection scope and results were presented to Mr. Brian Hunt, Plant Manager, and members of his staff at an exit meeting conducted on August 18, 2021. Proprietary information was discussed, but not included in this report.

1. **KEY POINTS OF CONTACT**

<u>Name</u>	<u>Title</u>
S. Patterson	Regulatory Affairs and ESH Manager
B. Hunt	Plant Manager
E. Robinson	Operations Manager/Technical Area Lead
R. Sanders	Licensing

2. **LIST OF ITEMS OPENED, CLOSED AND DISCUSSED**

None

3. **INSPECTION PROCEDURES USED**

88020	Operational Safety
88070	Plant Modifications (Annual)

4. **DOCUMENTS REVIEWED**

Records:

SUB-526-ISA, Integrated Safety Analysis Summary Source Materials License SUB-526, Revision 16, dated November 27, 2017  
SUB-526-LRA, Honeywell Metropolis Works Application for Renewal of USNRC Source Materials License SUB-526, Revision October 8, 2018  
SUB-526-LRA, Honeywell Metropolis Works Application for Renewal of USNRC Source Materials License SUB-526 (Idle State Version), Revision May 12, 2020  
Listing of Plant Modifications

Procedures:

MTW-ADM-MT-0001, Control of Maintenance and Modification Activities Associated with PFAP-Related Equipment (LR-1), Revision 5  
MTW-ADM-OPS-0121, Management of Plant Features and Procedures, Revision 24  
MTW-ADM-REG-0110, Corrective Action Program, Revision 8  
MTW-ADM-REG-0120, Management of Change, Revision 7  
MTW-ADM-QA-0160, Performance of Internal Audits and Inspections, Revision 7  
MTW-AOP-SMP-0500, Sampling Plant Abnormal Operation, Revision 1  
MTW-EOP-SMP-0600, Sampling Plant Emergency Operation, Revision 1