



## Materials Inspection Report

## 1. Licensee/Location Inspected:

IRISNDT, Inc.  
7915 Maryland Ave.  
Hammond, IN 46323

Report Number(s) 2022-001

## 2. NRC/Regional Office

Region III  
U. S. Nuclear Regulatory Commission  
2443 Warrenville Road, Suite 210  
Lisle, IL 60532-4352

## 3. Docket Number(s)

030-38777

## 4. License Number(s)

13-32791-01

## 5. Date(s) of Inspection

10/24-25/22; exit 11/09/22

## LICENSEE:

The inspection was an examination of the activities conducted under your license as they relate to radiation safety and to compliance with the Nuclear Regulatory Commission (NRC) rules and regulations and the conditions of your license. The inspection consisted of selective examinations of procedures and representative records, interviews with personnel, and observations by the inspector. The inspection findings are as follows:



1. Based on the inspection findings, no violations were identified.



2. Previous violation(s) closed.



3. During this inspection, certain of your activities, as described below and/or attached, were in violation of NRC requirements, and were assessed at Severity Level IV, in accordance with the NRC Enforcement Policy.



A. The violation(s), specifically described to you by the inspector as non-cited violations, are not being cited because they were self-identified, non-repetitive, corrective action was or is being taken, and the remaining criteria in the NRC Enforcement Policy were satisfied.

(Non-cited violation(s) was/were discussed involving the following requirement(s))

B. The following violation(s) is/are being cited in accordance with NRC Enforcement Policy. This form is a NOTICE OF VIOLATION, which may be subject to posting in accordance with 10 CFR 19.11.  
(Violations and Corrective Actions)

## Statement of Corrective Actions

I hereby state that, within 30 days, the actions described by me to the Inspector will be taken to correct the violations identified. This statement of corrective actions is made in accordance with the requirements of 10 CFR 2.201 (corrective steps already taken, corrective steps which will be taken, date when full compliance will be achieved). I understand that no further written response to NRC will be required, unless specifically requested.

TITLE	PRINTED NAME	SIGNATURE AND DATE
LICENSEE'S REPRESENTATIVE		
NRC INSPECTOR	Ryan Craffey	 Digitally signed by Ryan J. Craffey Date: 2022.11.28 15:13:33 -05'00'
BRANCH CHIEF	Rhex Edwards	 Digitally signed by Rhex A. Edwards Date: 2022.12.05 11:14:00 -06'00'



## Materials Inspection Record

1. Licensee Name: IRISNDT, Inc.		2. Docket Number(s): 030-38777		3. License Number(s) 13-32791-01	
4. Report Number(s): 2022-001			5. Date(s) of Inspection: October 24-25, 2022; exit November 9, 2022		
6. Inspector(s): Ryan Craffey		7. Program Code(s): 03320		8. Priority: 1	9. Inspection Guidance Used: IP 87124
10. Licensee Contact Name(s): Kyle Ledbetter - RSO		11. Licensee E-mail Address: kyle.ledbetter@irisndt.com		12. Licensee Telephone Number(s): 219-923-6501	
13. Inspection Type: <input type="checkbox"/> Initial <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Announced <input type="checkbox"/> Non-Routine <input checked="" type="checkbox"/> Unannounced		14. Locations Inspected: <input checked="" type="checkbox"/> Hybrid <input checked="" type="checkbox"/> Main Office <input type="checkbox"/> Field Office <input checked="" type="checkbox"/> Temporary Job Site <input type="checkbox"/> Remote		15. Next Inspection Date (MM/DD/YYYY): 10/24/2023 <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Extended <input type="checkbox"/> Reduced <input type="checkbox"/> No change	
16. Location(s) Inspected List:  Main Office - 7915 Maryland Avenue, Hammond, IN Temporary Job Site - BP Whiting Refinery, 2815 Indianapolis Boulevard, Whiting IN Temporary Job Site - Industrial Steel Construction (ISC), 85 North Bridge Street, Gary IN					
17. Scope and Observations: IRISNDT was a multinational nondestructive testing firm authorized to use sealed sources of byproduct material for industrial radiography and for measuring the physical properties of materials with portable gauges at field stations in Hammond, Indiana, and Taylor, Michigan, and at temporary job sites in NRC jurisdiction. At the time of the inspection, the licensee had thirty-five radiography personnel in Hammond. On average, the licensee dispatched three crews daily to the BP Whiting Refinery. The licensee also regularly dispatched one crew to work after-hours at ISC in Gary, Indiana, and dispatched additional crews to perform call-out work in northwest Indiana and southwest Michigan as needed. The licensee also had seven radiography personnel in Taylor with one crew dispatched daily to the Marathon Petroleum Refinery in Detroit and others to call-out jobs in southeast Michigan as needed. The licensee's RSO was based in Hammond, assisted in his oversight of the Taylor field station by a site RSO there.  On October 24, the inspector visited the licensee's field station in Hammond. All areas were adequately posted, and all licensed material was adequately secured. Independent surveys in unrestricted areas were below regulatory limits to members of the public. The inspector interviewed radiography staff returning from their shifts at the BP Whiting Refinery, and examined a selection of radiographic equipment; all was in good condition, and all exposure devices were properly labeled and had been adequately blocked and braced for transport back to Hammond. The licensee maintained an adequate and appropriate selection of survey instruments and dosimetry equipment for radiography staff, and utilization logs were completed as required.  The inspector then accompanied a crew assigned to the after-hours work at ISC. The inspector observed the crew prepare a SPEC-300 Co-60 camera for transport and perform equipment checks prior to beginning radiographic operations. The camera was adequately blocked and braced for transport in an enclosed trailer, and was adequately labeled. All radiography equipment was in good condition. The inspector then observed all nine shots (10 minutes each) of welded bridge components that the crew were assigned that evening, and performed independent surveys outside of their restricted area. The inspector noted adequate use of calibrated and operable survey and dosimetry equipment, adequate control and constant surveillance of the camera, and adequate setup but marginal surveillance					

### Materials Inspection Record (Continued)

of the restricted area at times (the large open bay of the facility was unoccupied as it was reportedly every night during these operations; regardless, the inspector discussed this observation with the licensee's RSO given the elevated exposure potential from Co-60).

The next day, during the routine inspection of BP Products North America (030-04326) at BP Whiting, the inspector met with IRISNDT radiography personnel assigned to the refinery to discuss radiographic operations performed on the premises. No such operations were available for observation that day on account of rain (the licensee performed radiography at the refinery using digital detector arrays that were susceptible to moisture damage). Instead, the inspector interviewed one of the crews and examined a selection of radiographic equipment, survey meters, and dosimetry equipment. The crew was knowledgeable of radiation safety practices, licensee procedures, and regulatory requirements, and all radiography equipment there was in good condition.

During a brief period of in-office review, the inspector examined a selection of records provided by the RSO via secure fileshare. These records included radiation safety program audits, physical inventories of licensed material, equipment maintenance and instrument calibration reports, initial and refresher safety training materials for radiography staff, radiographer field audits, and personnel dosimetry reports, which recorded maximum annual deep dose equivalents of 3.046 rem in 2021 and 2.361 rem in 2022 through September 30.

No violations of NRC requirements were identified as result of this inspection.

Signature and Date - Branch Chief



Digitally signed by Rhex A. Edwards  
Date: 2022.12.05 11:13:29 -06'00'