

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED: Ronan Engineering Company 8050 Production Drive Florence, KY 41042 Location Inspected: Job Site in Champion, MI REPORT NUMBER(S) 2019001		2. NRC/REGIONAL OFFICE Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352	
3. DOCKET NUMBER(S) 150-00016	4. LICENSE NUMBER(S) KY-201-260-95	5. DATE(S) OF INSPECTION January 31, 2019	

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. 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, and corrective action was or is being taken, and the remaining criteria in the NRC Enforcement Policy, to exercise discretion, were satisfied.

_____ Non-cited violation(s) were discussed involving the following requirement(s):

- ☐ 4. During this inspection, certain of your activities, as described below and/or attached, were in violation of NRC requirements and 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	DATE
LICENSEE'S REPRESENTATIVE			
NRC INSPECTOR	Ryan Craffey	<i>R4 Craffey</i>	2/3/19
BRANCH CHIEF	Aaron McCraw	<i>DJW — for ATM</i>	2/21/19

Docket File Information

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6. INSPECTION PROCEDURES USED 87125	7. INSPECTION FOCUS AREAS All		

SUPPLEMENTAL INSPECTION INFORMATION

1. PROGRAM CODE(S) 03226	2. PRIORITY 2	3. LICENSEE CONTACT Craig Caris - RSO	4. TELEPHONE NUMBER (859) 342-8500
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☐ Main Office Inspection Next Inspection Date: TBD

☐ Field Office Inspection

☒ Temporary Job Site Inspection Humboldt Mill, 4547 CR 601, Champion, MI

PROGRAM SCOPE

This was an announced field inspection of a fixed gauge manufacturer authorized by the Commonwealth of Kentucky to use radioactive material for numerous applications, including but not limited to the manufacture, distribution, installation, and servicing of fixed gauging devices. The manufacturer used this license to perform installation, removal, and service of such devices in NRC jurisdiction under the terms of a reciprocity request approved by Region I in January 2019. The scope of this inspection was limited to observations of licensed activities (gauge handling and preparation for shipment) at Lundin Mining Company's Humboldt Mill in Champion, Michigan, where numerous Ronan RLL-1 devices were used under the terms of the General License in 10 CFR 31.5 for density measurements on copper and nickel ore concentration process lines.

PERFORMANCE OBSERVATIONS

The inspector accompanied the licensee's field engineer at the job site in Champion and observed the handling of one RLL-1 gauge incident to preparation for shipment to the licensee's facility in Kentucky. The client was returning the gauge so that the carbon steel source holder could be swapped for a stainless steel holder that would more durably resist the mildly corrosive environment to which it was subject in the mill. The inspector conducted independent and confirmatory surveys in the vicinity of this device, both before and after packaging, and noted the use of adequate ALARA practices, personnel monitoring, and calibrated survey equipment throughout. The engineer demonstrated an adequate knowledge of USDOT requirements for transporting radioactive material as he prepared the package and accompanying shipping paperwork. The inspector interviewed representatives of the client, and discussed their implementation of licensee procedures for removing RLL-1 gauges from service, sealed source leak testing, as well as the implementation of security measures for the device once removed from the process line.

The inspector also reviewed a selection of records, including leak test results, shipping papers, and documentation demonstrating that the package met USDOT testing requirements for Type A packages.

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