

Docket File Information
SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED: Nucor Steel Corporation 4537 S. Nucor Road Crawfordsville, IN 47933-7969 REPORT NUMBER(S) 2017001	2. NRC/REGIONAL OFFICE Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352
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3. DOCKET NUMBER(S) 030-30835	4. LICENSE NUMBER(S) 13-25975-01	5. DATE(S) OF INSPECTION 11/03/2017
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6. INSPECTION PROCEDURES USED 87124	7. INSPECTION FOCUS AREAS 3.01-3.07
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SUPPLEMENTAL INSPECTION INFORMATION

1. PROGRAM CODE(S) 03120	2. PRIORITY 5	3. LICENSEE CONTACT David A. Sulc, RSO	4. TELEPHONE NUMBER (765) 361-2659
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Main Office Inspection Next Inspection Date: 11/03/2022

Field Office Inspection _____

Temporary Job Site Inspection _____

PROGRAM SCOPE

This was a routine, unannounced inspection of a large steel production facility located in Crawfordsville, Indiana, authorized for possession and use of cobalt-60 (Co-60) in fixed nuclear gauges for level measurement, and americium-241 (Am-241) in fixed nuclear gauges for thickness measurement of steel. The licensee possessed three Co-60 gauges and six Am-241 gauges. The company employed approximately 750 individuals at their Crawfordsville, Indiana site. Approximately 20 individuals, including the RSO, were involved with use and oversight of the gauges, and have completed a 40-hour gauge use training course. The licensee utilized the services of a third-party company licensed to service gauges in providing staff training, gauge removal and relocation, leak test analysis, and surveys.

Performance Observations

The inspector toured the plant facility and observed nine gauges in conjunction with the licensee's current inventory. Proper lock-out and leak test procedures were also adequately described. Interviews conducted with plant workers revealed that under no circumstances would a vessel be entered without RSO supervision of lock-out/tag-out procedures. Interviews with licensee personnel indicated adequate knowledge of radiation safety concepts and procedures.

Gauges were leak tested at six-month frequencies in accordance with manufacturers' specifications. Inventories and shutter checks were performed at required frequencies. The licensee did not perform any service or maintenance activities on its gauges; these services were performed by either the manufacturer or a specifically licensed company authorized to perform such services. The inspector performed independent and confirmatory radiation measurements which indicated similar results consistent with the licensee's survey records and postings.

No violations of NRC regulatory requirements were identified within the scope of this inspection.