

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED: General Dynamics Land Systems 38500 Mound Road Sterling Heights, MI 48310 Location Inspected: Lima, OH REPORT NUMBER(S) 2020-001		2. NRC/REGIONAL OFFICE Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352	
3. DOCKET NUMBER(S) 040-09029	4. LICENSE NUMBER(S) SUB-1564	5. DATE(S) OF INSPECTION January 30, 2020	

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:

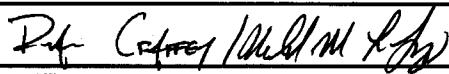

- ☒ 1. Based on the inspection findings, no violations were identified.
- ☐ 2. Previous violation(s) closed.
- ☐ 3. The violation(s), specifically described to you by the inspector as non-cited violations, are not being cited because they were self-identified, non-repetitive, and corrective action was 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 and Michael LaFranzo		02/13/2020 2/19/2020
BRANCH CHIEF	Robert Ruiz, Acting Chief		2/18/20

Docket File Information

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1. LICENSEE/LOCATION INSPECTED:

General Dynamics Land Systems
38500 Mound Road
Sterling Heights, MI 48310
Location Inspected: Lima, OH

REPORT NUMBER(S) 2020-001

2. NRC/REGIONAL OFFICE

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

3. DOCKET NUMBER(S)

040-09029

4. LICENSE NUMBER(S)

SUB-1564

5. DATE(S) OF INSPECTION

January 30, 2020

6. INSPECTION PROCEDURES USED

87125

7. INSPECTION FOCUS AREAS

FE 1-3, 5-7

SUPPLEMENTAL INSPECTION INFORMATION

1. PROGRAM CODE(S)

11300

2. PRIORITY

5

3. LICENSEE CONTACT

Boyd Henry Rose - RSO

4. TELEPHONE NUMBER

(586) 825-4503

☐ Main Office Inspection

Next Inspection Date: No Change

☒ Field Office Inspection JSMC, 1161 Buckeye Road, Lima, OH☐ Temporary Job Site Inspection

PROGRAM SCOPE

This was an announced field inspection of a Department of Defense contractor, authorized by an NRC source material license to possess depleted uranium (including transuranics and Tc-99 contaminants contained therein) in M1 Abrams Tank System heavy armor packages at its facilities in Sterling Heights and Milford Michigan, Lima, OH, and temporary job sites in NRC jurisdiction. The scope of this inspection was limited to observations of licensed activities at the Joint Systems Manufacturing Center in Lima, with a focus on the characterization, handling, packaging, and transfer of depleted uranium armor and residual contamination, if any, as waste.

PERFORMANCE OBSERVATIONS

The inspectors toured the facility in Lima to evaluate the licensee's measures for materials security, hazard communication, and exposure control. Radiation safety staff demonstrated and discussed the implementation of procedures for handling and packaging depleted uranium, conduct of area surveys, and contamination control. Staff and licensee management also discussed the process for transferring licensed material to the U.S. Department of Energy. The inspectors noted that packages currently awaiting transfer were adequately secured and appeared properly marked. The staff also demonstrated a variety of survey instrument quality control checks and implementation of procedures for atmospheric inerting as a comprehensive safety measure for the armor. The inspectors found the licensee's staff and management to be knowledgeable of radiation protection principles, licensee procedures, and potential hazards expected to be encountered during licensed activities. Moreover, the inspectors found the licensee's instruments to be calibrated, operable, and appropriate for the tasks involved. The inspectors conducted independent surveys in various areas of the facility, and found no exposures in excess of regulatory limits, nor any evidence of residual contamination.

The inspectors reviewed a selection of records while on-site, including daily survey records, instrument calibration certificates, physical inventories, and a series of records which documented the handling, packaging and transfer of depleted uranium waste to the DOE.

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