

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

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|--|---|--|
| <p>1. LICENSEE/LOCATION INSPECTED:</p> <p>Mosaic Potash Hersey, LLC 1395 135th Avenue Hersey, MI 49639</p> <p>REPORT NUMBER(S) 2012001</p> | <p>2. NRC/REGIONAL OFFICE</p> <p>Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352</p> | |
| <p>3. DOCKET NUMBER(S)</p> <p>030-30895</p> | <p>4. LICENSE NUMBER(S)</p> <p>21-25993-01</p> | <p>5. DATE(S) OF INSPECTION</p> <p><i>November 6, 2012</i></p> |

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 | Aaron T. McCraw | <i>[Signature]</i> | <i>11/6/12</i> |
| BRANCH CHIEF | Tamara E. Bloomer | <i>[Signature]</i> | <i>11/13/12</i> |

Docket File Information
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| 3. DOCKET NUMBER(S) 030-30895 | 4. LICENSE NUMBER(S) 21-25993-01 | 5. DATE(S) OF INSPECTION November 6, 2012 | |
| 6. INSPECTION PROCEDURES USED IP 87123 | 7. INSPECTION FOCUS AREAS 03.01 - 03.07 | | |

SUPPLEMENTAL INSPECTION INFORMATION

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|---------------------------------|----------------------|--|---|
| 1. PROGRAM CODE(S) 03111 | 2. PRIORITY 3 | 3. LICENSEE CONTACT Bill Hicks, RSO | 4. TELEPHONE NUMBER (231) 832-8842 |
|---------------------------------|----------------------|--|---|

- Main Office Inspection Next Inspection Date: 11/06/2015
- Field Office Inspection _____
- Temporary Job Site Inspection _____

PROGRAM SCOPE

This was a routine inspection of a salt and potash mining company in Hersey, Michigan, that uses radioactive materials for well logging purposes. The licensee is only authorized to use licensed materials in wells at its facility in Hersey, Michigan. The licensee owns and operates all of the wells on its property. The radiation safety officer (RSO) is the only individual that uses the materials. The licensee used the sources on average 1-2 times per month on months when active drilling was occurring. Hard hat, safety glasses, and steel-toed shoes are required to gain access to the area where the sources are stored.

PERFORMANCE OBSERVATIONS

The inspector verified that the two sealed sources were adequately secured when stored. The inspector conducted an independent survey in the storage area, which confirmed that doses are below regulatory limits in unrestricted areas. The inspector interviewed the RSO and reviewed records for leak tests, survey instrument calibration, source utilization, annual audits, training, and dosimetry. Dosimetry records indicated that exposures for 2009, 2010, 2011, and 2012 (through November 6) were minimal.

No violations of regulatory requirements with respect to this license were identified during the inspection.