

**SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION**

<b>1. LICENSEE/LOCATION INSPECTED:</b>  <b>Cayman Chemical Company, Inc.</b> <b>1180 East Ellsworth Road</b> <b>Ann Arbor, MI 48108</b>  REPORT NUMBER(S) <b>2011-01</b>	<b>2. NRC/REGIONAL OFFICE</b>  <b>U.S. Nuclear Regulatory Commission</b> <b>Region III</b> <b>2443 Warrenville Road, Suite 210</b> <b>Lisle, Illinois 60532-4351</b>
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<b>3. DOCKET NUMBER(S)</b> <b>030-29143</b>	<b>4. LICENSEE NUMBER(S)</b> <b>21-24683-01</b>	<b>5. DATE(S) OF INSPECTION</b> <b>February 24, 2011</b>
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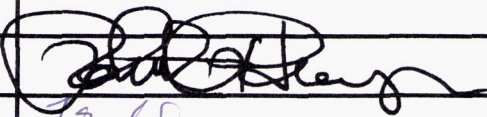

**LICENSEE:**

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, NUREG-1600, 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. This form is a NOTICE OF VIOLATION, which may be subject to posting in accordance with 10 CFR 19.11

**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	Robert P. Hays		2/24/11
Branch Chief	Tamara E. Bloomer		3/3/11

NRC FORM 591 M PART 3 (06-2010) 10 CFR 2.201		U.S. NUCLEAR REGULATORY COMMISSION  <i>Docket File Information</i> <b>SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION</b>							
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6. INSPECTION PROCEDURES <b>87124 (11/25/03)</b>		7. INSPECTION FOCUS AREAS <b>03.01-03.07</b>							
<b>SUPPLEMENTAL INSPECTION INFORMATION</b>									
1. PROGRAM <b>3620</b>	2. PRIORITY <b>5</b>	3. LICENSEE CONTACT <b>Beth Meade, RSO</b>	4. TELEPHONE NUMBER <b>800-364-9897</b>						
<table style="width:100%; border: none;"> <tr> <td style="width:50%; vertical-align: top;"> <input checked="" type="checkbox"/> <b>Main Office Inspection</b> </td> <td style="width:50%; vertical-align: top;"> <b>Next Inspection Date: <u>February 2016</u></b> </td> </tr> <tr> <td colspan="2"> <input type="checkbox"/> <b>Field Office Inspection</b> _____                 </td> </tr> <tr> <td colspan="2"> <input type="checkbox"/> <b>Temporary Job Site Inspection</b> _____                 </td> </tr> </table>				<input checked="" type="checkbox"/> <b>Main Office Inspection</b>	<b>Next Inspection Date: <u>February 2016</u></b>	<input type="checkbox"/> <b>Field Office Inspection</b> _____		<input type="checkbox"/> <b>Temporary Job Site Inspection</b> _____	
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<b>PROGRAM SCOPE</b>									
<p>The licensee is authorized by the license for receipt, storage and redistribution of prepackaged units of hydrogen-3, carbon-14, and iodine-125, which involves repackaging and transfer of the units to licensees specifically licensed to receive the licensed material. The licensee is also authorized to use H-3, C-14, and S-35 for research and development as defined by Section 30.4 of 10 CFR Part 30. At the time of the inspection, the licensee no longer redistributed any prepackaged kits. Carbon-14 was currently the only isotope used once or twice per year for QA testing of chemical products produced by the licensee. At the time of the inspection, only one individual used licensed material under the supervision of the RSO. Also, the RSO's isotope inventory indicated less than 100 microcuries of C-14 and H-3, which included some solid waste in storage. The RSO is looking at performing product QA testing without C-14 and plans to terminate the license once an acceptable method can be determined. Area surveys of use and storage areas by the inspector did not reveal any contamination concerns.</p>									
<b><u>Performance Observations</u></b>									
<p>During the inspection, the licensee's RSO/AU demonstrated/discussed: (1) radiation surveys and survey meter calibrations; (2) contamination surveys; (3) safe use practices; (4) waste storage and disposal; (5) isotope inventories; and (6) security of licensed material.</p>									