CARMEUSE
NATURAL CHEMICALS

River Rouge Operation

May 1, 2015

Edward Kulzer, Health Physicist
U. S. Nuclear Regulatory Commission, Region III
2443 Warren Road.
Suite 210
Lisle, Ill 60532-4352

Re: License No. 21-32513-01
Subject: Report of a shutter failure on a Cs-137 radiological source.

On 2/19/2015, while performing a routine shutter check for the Cs-137 source on the #2 lime cooler level controller, the RSO noticed a block lying on a support beam by the source. The block, measuring 1-1/2 x 1-1/2 x 5-1/2 inches, appeared denser than iron. Suspecting the block made of lead and therefore a component of the shutter assembly, the RSO immediately stopped any inspection activity. A site survey with a current calibrated Ludlum Measurements, Inc. Model 3 Survey Meter, s/n 251938, confirmed readings of less than .01 mr/hr at 1 meter. Maximum source surface reading was 8.0 mr/hr and a maximum source reading at 30 cm was 1.7 mr/hr. The readings signified no danger to company employees and the general public. The source was and remains in normal operational status.

The manufacturer of the source, Vega Americas, was called on 2/19/2015 to schedule an inspection of the source and the shutter assembly. Vega Americas sent a technician, Mr. Vernon Wells, to inspect the source on 3/26/2015. After inspecting the shutter, Mr. Wells stated it was not repairable due to obsolescence of the 1960's vintage device. The source holder will require removal and replacement with an updated one.

After reviewing records and researching NUREG-1556, Vol 4, the NRC was called at 12:19 on 3/28/2015. Mr. John Shoemaker answered the phone and he assigned ID# 50937 to the report. The regulation applicable to the report is CFR 30.50 (Bb) (2).

The Cs-137 source, initial activity 100mCi, is contained in an Ohmart Model A-2102 holder, s/n 73799. The source was originally manufactured in the 1960's. The source is located on the west side of #2 lime cooler at 25 Marion Ave., River Rouge, Michigan 48218.

The corrective action for the incident is to have an authorized contractor remove and dispose of the source and holder. The unit will be replaced with upgraded level controller equipment. Vegas America and Berthold are researching the engineering application in order to submit a proper quotation for the removal of the old source and installation of the new source.

Sincerely yours,

James L. Mosier, RSO

Phillip Blake, Site Operations Manager

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Fax

Company:	Carmeuse Lime & Stone-River Rouge Operation	**Date:**	5/1/15
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Subject: Carmeuse Lime & Stone River Rouge Operations #2 Lime Cooler Shutter Failure