



November 14, 2018

Director, Office of Nuclear Material Safety and Safeguards
ATTN: Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

10 CFR 30.50.Section.B.2 - Written Report.(EN53670)

On October 16th 2018, the ExxonMobil RSO at the Billings Montana Refinery (License # 25-03375-01) notified USNRC of one (1) device (insertion type nuclear gauge) that failed to function as designed (10 CFR 30.50.Section B.2).

Device Information; Ohmart device, model MDTs with 10 mCi. of Cs-137; S/N: 0692GK; Source capsule model: A-2102 (X38/2); Manufacture date: Nov 7th, 1994

Upon locking out the nuclear gauge in the Alkylation Unit (Drum-403) at approximately 11:00am on October 16th 2018, the nuclear gauge user identified that the cable connecting the source capsule housing (torpedo) to the source holder retrieval mechanism had become detached. The source capsule housing was in its normal operating location at the bottom of the equipment guide tube in the "boot" of the vessel, however, due to the disconnected cable it could not be retrieved. The following precautionary measures were taken to ensure minimal potential for exposure (1) no vessel entry permits were issued for the vessel (2) the area around the "boot" was barricaded to restrict entry.

There was no additional risk of radiation exposure to members of the general public or radiation workers due to the failure of the equipment function.

The source was successfully retrieved and secured in the home position in its source holder with the shutter closed and locked-out on October 19th 2018 by Vega Americas Inc. It has been decided to transfer (dispose) the source from the site to QSA global; removal is currently scheduled on November 30th 2018 by Suntrac Services.

As requested, an electronic copy will be emailed to Mr. Jason Dykert. Please contact me at 406-657-5430 if you have any questions or would like a hardcopy.

Sincerely,

A handwritten signature in black ink, appearing to read "Brent Haddow", with a long horizontal flourish extending to the right.

Brent R. Haddow
Radiation Safety Officer
225-540-5414
406-657-5430

Brent.Haddow@ExxonMobil.com

cc: Jason C Dykert, US NRC, Region IV
Chris Jessup, Billings Refinery Manager
George Graham, Billings Refinery SSHE Manager