

March 1, 2019

**To:**

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Region IV – Division of Nuclear Materials Safety  
United States Nuclear Regulatory Commission

**From:**

Nicholas B. Childs, Ph.D.  
Radiation Safety Officer  
Office of Research Compliance  
Montana State University

**Subject:**

Follow up Report for Leaking 63Ni Sealed Source (Serial Number K1545)

On 01/30/19 a leak test of a 63Ni source from an Electron Capture Device (ECD Model G1533A, Serial Number K1545) contained within a Agilent Chromatograph (Model 6890N, Serial Number US10212088) showed approximately 0.0145  $\mu$ Ci of removable contamination from the vent tube. The GC unit is located in Cobleigh Hall Rm 403 and is approved under radioactive materials use protocol number 2015-08 Dore.

Wipe tests of the unit surfaces, countertop and adjacent fume hood were performed. The results of these wipe tests indicated no removable contamination. No usage of the ECD has occurred after the 01/30/19 leak test was performed. The presence of a leaking sealed source was reported to the NRC on 02/4/18.

On 03/1/19 the the ECD was transferred to the RSO's waste facility where it will remain until the source is removed and disposed of by Thomas Gray & Associates during our next waste transfer.

Data was generated by a Beckman model LS 6500 liquid scintillation counter with serial number 269324 with calibration dates of 07/30/18 and again on 01/30/19 to confirm that the unit was working properly.

Please contact me directly with any questions in regards to this event.

Sincerely,



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