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NRC License 46-23463-01

July 11, 2016

Follow up to the positive leak test of June 6, 2016:

Source identification: Hewlett-Packard model 18713A Electron Capture Detector (ECD), serial number SS2192, 9 millicuries Ni-63 located in Building 3, room 1037, at the above address

Three individual wipe tests were conducted on detector SS2192 to determine the location of leakage. One wipe was over the whole body of the detector, one wipe was on the uncapped inlet port and one wipe was on the uncapped outlet port. No contamination was detected. Shimadzu Corporation was consulted on how to proceed. They concluded that the June 6, 2016 wipe included contact just inside the threads of the detector which was beyond what was necessary for regulations and should not have been done as it was not truly external to the detector. As the follow-up wipe tests were clean, this detector will be put back into service.

June 6, 2016

Report of Positive Leak Test for a Specific License Nickel-63 Sealed Source

Source identification: Shimadzu Electron Capture Detector (ECD), serial number SS2192, 9 millicuries Ni-63 located in Building 3, room 1037, at the above address

A routine wipe test of a Shimadzu Electron Capture Detector (ECD) removed from a Shimadzu Gas chromatograph GC8A for use aboard ship was tested when received at NOAA on May 27, 2016. The wipe test was analyzed by RSO International and the results were received on June 6, 2016. All the outlets on this detector were capped for shipment and the wipe test was done on the inlet, outlet and gas connection combined and had 0.10 μCi external contamination, above the 0.005 μCi limit. The inlet and outlet of this detector were capped when received and the wipe tests were done after removing the stoppers. The detector was capped again after the wipe test, not reinstalled in the GC and has been sequestered in a locked room sealed in a paint can. The box that contained the detector had no external contamination and the previous wipe test, from April 13, 2016, before shipment, of SS2192 showed no external contamination. Wipe tests were conducted by Kevin Roe, RSO, NOAA/PMEL and read by RSO Inc. of Laurel, Maryland. This ECD was not put into use in the interim between the two tests. Individual wipe test of the inlet, outlet and gas line connection will be done next to identify the source of leakage.

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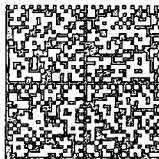
RSO, NOAA/PMEL


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