

Nordion (Canada) Inc. Event Reporting

For the Quarter (July – September 2019)

| Event Number | Event | Status/Outcome |
|--------------|---|---|
| 19-09* | Improper weld of a Co-60 sealed source from a supplier. | The supplier was made aware of the issue. No further action required by Nordion. The source was secured in storage pending disposition. |
| 19-10* | Near-miss – Pass-through door interlock failure. | Administrative controls ensure safety when opening the cell door. Interlock switch was fixed and all Cobalt cell interlock limit switches were checked for operation. Nordion will implement a routine verification. |
| 19-11* | A higher than usual radiation field was found on a package returned to Nordion. | A Co-60 pellet shifted during transit and was located between the shielding and shell of the package. Shipment was compliant with regulations. Nordion will conduct a review of the pellet recovery process and revise the cell and pail inspection procedures. |
| 19-12* | Sealed sources were returned in a non-routine configuration and with measured contamination. | Nordion has provided feedback to the distributor. No further action required by Nordion. |
| 19-13* | Trace amounts of Tb-160 detected in waste water. | Tb-160 amounts posed no danger to the public or the environment. Tb-160 is not typically detected, but is potentially a contaminant from the Co-60 process. Nordion will continue to monitor. |
| 19-14* | The transfer of sealed sources to a domestic customer's license was reported to the CNSC Sealed Source Tracking System prior to assessment of the customer's authorization to possess nuclear material. | Nordion will investigate the addition of a verification step for completion of the customer site license assessment prior to reporting and add instructions to the applicable procedure. |
| 19-15* | A Nuclear Material Accountancy Record was not submitted to the CNSC within the required timeframe. | Nordion will investigate an alternative means to identify, track and alert personnel of upcoming shipments containing safeguarded material and the addition of a verification step. |

** There was no impact to health, safety, environment or security as a result of these events*