



Decommissioning (Unsealed Sources Only)

Decommissioning refers to the actions taken – in the interest of health, safety, security and protection of the environment – to retire a licensed activity or facility permanently from service and render it to a predetermined end-state condition, as per Regulatory Guide G-219, *Decommissioning Planning for Licensed Activities*.

This checklist has been developed to provide guidance to licensees that hold nuclear substances and radiation devices licences.

Checklist for Decommissioning (Nuclear substances and radiation devices licences)

- Cease work involving nuclear substances and/or radiation devices
- Remove all nuclear substances and radiation devices from the area, room or enclosure to be decommissioned
- Transfer of all nuclear substances and radiation devices to another storage location or licensee authorized to possess the nuclear substances and radiation devices
- Choose appropriate method for assessing contamination based on isotopes of interest
- Develop contamination survey map including survey methodology
- Survey for contamination
- Decontaminate, if survey results exceed contamination criteria specified on the licence
- Survey for contamination after decontamination has been completed
- Remove all radiation warning signs
- Submit decommissioning report to CNSC staff for review including the following information:
 - licence number
 - date of decommissioning
 - nuclear substances and radiation devices used in the decommissioned area
 - date nuclear substances and radiation devices were last manipulated/used in the decommissioned area
 - confirmation of transfer of nuclear substances and radiation devices, specifically:
 - name of licensee that nuclear substances and radiation devices were transferred to
 - licence number of licensee that the nuclear substances and radiation devices were transferred to
 - proof of transfer
 - description or diagram of the decommissioned area
 - indicate contamination criteria used for decommissioning
 - survey results, method used and instrument used
 - survey results expressed in Bq/cm² (demonstrate how CPM or CPS are converted into Bq/cm²)
 - detection efficiency of instrument used for nuclear substances surveyed
 - confirmation that radiation warning signs have been removed
- Request revocation of licence once decommissioning report is accepted by the CNSC, if applicable.
(See http://www.nuclearsafety.gc.ca/pubs_catalogue/uploads/dispos_e.pdf for revocation request form.)
- Release of licensed area from regulatory control
- Maintain decommissioning records for the period ending 1 year after the expiry of the licence