

Title 402 WAC
RADIATION CONTROL AGENCY

Chapter
402-80 **Monitoring and enforcement of air quality**
 and emission standards for radionuclides.

Chapter 402-80 WAC
MONITORING AND ENFORCEMENT OF AIR
QUALITY AND EMISSION STANDARDS FOR
RADIONUCLIDES

WAC	
402-80-040	Definitions.
402-80-060	Registration.
402-80-065	Airborne emission permits.

WAC 402-80-040 Definitions. As used in this chapter, these terms have the definitions set forth below.

(1) "Best available radionuclide control technology (BARCT)" means technology which will result in a radionuclide emission limitation based on the maximum degree of reduction for radionuclides which would be emitted from any proposed stationary source or modification of a source which the permitting authority on a case-by-case basis, taking into account energy, environmental, and economic impacts and other costs, determines is achievable for such source or modification through application of production processes or available methods, systems, and techniques. In no event shall application of best available radionuclide technology result in emissions of radionuclides which would exceed the ambient annual standard limitation specified in this chapter.

(2) "Critical organ" means the most exposed human organ or tissue exclusive of the integumentary system (skin) and the cornea.

(3) "Department" means the department of social and health services.

(4) "Dose equivalent" means the product of absorbed dose and appropriate factors to account for differences in biological effectiveness due to the quality of radiation and its distribution in the body. Units of dose equivalent are mrem.

(5) "Emission source" means the point-of-release of airborne emissions of radioactive materials.

(6) "Radionuclide" means any nuclide that emits radiation.

(7) "Whole body" means all human organs or tissue exclusive of the integumentary system (skin) and the cornea.

[Statutory Authority: Chapter 70.98 RCW. 88-17-060 (Order 2671), § 402-80-040, filed 8/17/88. Statutory Authority: RCW 70.98.080. 87-01-031 (Order 2450), § 402-80-040, filed 12/11/86.]

WAC 402-80-060 Registration. (1) The owner or operator of each source of airborne radionuclide emissions within the following source categories (unless specifically exempted in WAC 402-80-030) shall register the source with the department:

- (a) NRC-licensed facilities;
- (b) United States Department of Energy Facilities;
- (c) Non-DOE federally owned or operated facilities;
- (d) Any other facility having emissions of radionuclides to air in amounts that cause a dose equivalent in excess of 5 mrem/year to the whole body or 15 mrem/year to the critical organ of any member of the public.

(2) State licensees under the authority of other chapters of Title 402 WAC will be deemed registered.

(3) Registration shall be on forms to be supplied by the department. Upon a determination that registration of a particular source meets department of ecology and department of social and health services regulations, the department of social and health services will issue a permit authorizing the emission source with such conditions and limitations as it deems appropriate or necessary.

(4) Fees for permit issuance and inspection services rendered by the department are covered in WAC 440-44-062. A report of closure shall be filed with the department whenever operations producing emissions are permanently ceased at any source within the above categories.

[Statutory Authority: Chapter 70.98 RCW. 88-17-060 (Order 2671), § 402-80-060, filed 8/17/88. Statutory Authority: RCW 70.98.080. 87-01-031 (Order 2450), § 402-80-060, filed 12/11/86.]

WAC 402-80-065 Airborne emission permits. Each operator of radioactive airborne emission sources shall obtain a permit issued by the department to operate those sources. The department shall grant these permits only after receipt of the appropriate fees and registration materials and a full review of those materials by the department.

(1) For emission sources at facilities licensed by the department, air emission permits shall be part of the source operator's radioactive materials license.

(2) For emission sources at the United States Department of Energy (DOE) Hanford Site, the department shall issue one permit for each major production, processing, or research area, e.g., 200 East Area.

(3) For emission sources at non-DOE federal facilities, the department shall issue one permit for each base or installation, e.g., Puget Sound Naval Shipyard.

[Statutory Authority: Chapter 70.98 RCW. 88-17-060 (Order 2671), § 402-80-065, filed 8/17/88.]

Title 415 WAC
RETIREMENT SYSTEMS, DEPARTMENT
OF

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