

RAS 10598

DOCKETED
USNRC

October 14, 2005 (4:05pm)

OFFICE OF SECRETARY
RULEMAKINGS AND
ADJUDICATIONS STAFF

Docket No. 70-3103-ML

NIRS/PC
EXHIBIT #260

Template = secy-028

secy-028

Inside the Legislature

- ★ Find Your Legislator
- ★ Participating in the Process
- ★ Legislative Calendars
- ★ Bill Information
- ★ Laws and Agency Rules
- ★ Legislative Agencies
- ★ Legislative E-mail Lists
- ★ Kids' Pages

Outside the Legislature

- ★ Washington State History and Culture
- ★ Congress - the Other Washington
- ★ TV Washington
- ★ Washington Courts
- ★ Transportation Performance Audit Board



Washington Administrative Code

September 7, 2005

Code Titles

Title 1 - Code Reviser, Office of the

Title 3 - Academic Achievement and Accountability Commission

Title 4 - Accountancy, Board of

Title 10 - Administrative Hearings, Office of

Title 12 - Transportation, Department of (Aeronautics Commission) (See Also Title 468)

Title 14 - Advanced Tuition Payment, Committee on

Title 16 - Agriculture, Department of

Title 18 - Air Pollution (See Also Title 173)

Title 24 - Apple Advertising Commission

Title 25 - Community, Trade, and Economic Development, Department of (Archaeology and Preservation)

Title 30 - Arts Commission

Title 34 - Asian Pacific American Affairs, Commission on

Title 36 - Licensing, Department of (Professional Athletics)

Title 44 - Attorney General's Office

Title 48 - Auditor, Office of State

Title 50 - Financial Institutions, Department of (Banking, Division of)

Title 51 - Community, Trade, and Economic Development, Department of (Building Code Commission)

Title 55 - Basic Health Plan

Title 60 - Beef Commission

Title 67 - Blind, Department of Services for the

Title 72 - Blind, Washington State School for the

Title 82 - Financial Management, Office of

Title 88 - Transportation, Department of (Canal Commission)

Title 90 - Canvassing Board

Title 98 - Licensing, Department of (Cemetery Board)

Title 100 - 1989 Centennial Commission

Title 106 - Central Washington University

Title 112 - Family and Children's Ombudsman, Office of the

Title 113 - Chiropractic Disciplinary Board (See Also Title 246)

Title 114 - Chiropractic Examiners, Board of (See Also Title 246)

Title 118 - Military Department (Emergency Management)

Title 120 - Community Development, Office of (See Also Title 365)

Title 130 - Community, Trade, and Economic Development, Department of (Trade and Economic Development)

Title 131 - Community and Technical Colleges, Board for

Title 132A - Peninsula College

Title 132B - Grays Harbor College

Title 132C - Olympic College

Title 132D - Skagit Valley College

Title 132E - Everett Community College

Title 132F - Seattle Community Colleges

Title 132G - Shoreline Community College

Title 132H - Bellevue Community College

Title 132I - Highline Community College

Title 132J - Green River Community College

Title 132K - Pierce College

Title 132L - Centralia College

Title 132M - Lower Columbia College

Title 132N - Clark College

Title 132P - Yakima Valley Community College

Title 132Q - Spokane Community College/Spokane Falls Community College

Title 132R - Big Bend Community College

Title 132S - Columbia Basin College

Title 132T - Walla Walla Community College

Title 132U - Whatcom Community College

Title 132V - Tacoma Community College

Title 132W - Wenatchee Valley College

Title 132X - South Puget Sound Community College

Title 132Y - Edmonds Community College

Title 132Z - Cascadia Community College

Title 133 - Community, Trade, and Economic Development, Department of (Community Econ Revitalization Board)

Title 134 - Conservation, Department of (See Also Titles 332 and 508)

Title 135 - Conservation Commission

Title 136 - County Road Administration Board

Title 137 - Corrections, Department of

Title 139 - Criminal Justice Training Commission

Title 140 - Convention and Trade Center

Title 142 - Dairy Products Commission

Title 143 - Information Services, Department of

Title 148 - Deaf, Washington State School for the

Title 154 - Deferred Compensation, Committee for

Title 158 - Design Standards Committee--Arterial Streets

Title 162 - Human Rights Commission

Title 167 - Drug Abuse Prevention Office

Title 172 - Eastern Washington University

Title 173 - Ecology, Department of (See Also Titles 197, 372, and 508)

Title 174 - Evergreen State College, The

Title 175 - Revenue, Department of (Economic Assistance Authority)

Title 177 - Economic Opportunity, Office of (See Also Title 365)

Title 178 - Community, Trade, and Economic Development, Department of (Economic Development Finance Authority)

Title 180 - Education, State Board of

Title 181 - Professional Educator Standards Board

Title 182 - Health Care Authority

Title 183 - Washington Citizens' Commission on Salaries for Elected Officials

Title 184 - Employees' Retirement System, Public

Title 186 - Employees' Retirement, Statewide Cities

Title 187 - Employee Suggestion Awards Board (See Also Title 383)

Title 192 - Employment Security Department

Title 194 - Community, Trade, and Economic Development, Department of (Energy)

Title 196 - Licensing, Department of (Engineers and Land Surveyors, Board of Registration for Professional)

Title 197 - Ecology, Department of (Environmental Policy, Council on)

Title 198 - Environmental Hearings Office

Title 199 - Environmental Hearings Office -- Environmental and Land Use Hearings Board

Title 204 - State Patrol (Commission on Equipment) (See Also Title 446)

Title 208 - Financial Institutions, Department of

Title 210 - State Treasurer's Office (Finance Committee)

Title 212 - State Patrol (Fire Protection)

Title 218 - Forensic Investigations Council

Title 220 - Fish and Wildlife, Department of (Fisheries)

Title 222 - Forest Practices Board

Title 223 - Environmental Hearings Office (Forest Practices Appeals Board)

Title 224 - Fruit Commission

Title 226 - Freight Mobility Strategic Investment Board

Title 230 - Gambling Commission

Title 232 - Fish and Wildlife, Department of (Wildlife)

Title 236 - General Administration, Department of

Title 237 - Geographic Names, Board on

Title 240 - Governor, Office of the

Title 242 - Community, Trade, and Economic Development, Department of (Growth Management Hearings Boards)

Title 243 - Health Care Policy Board

Title 244 - Hardwoods Commission

Title 245 - Health Services Commission

Title 246 - Health, Department of

Title 247 - Health Care Facilities Authority

Title 248 - Health, Board and Division of (Social and Health Services, Department of)

Title 249 - Higher Education Assistance Authority

Title 249A - Higher Education, Joint Center for

Title 250 - Higher Education Coordinating Board

Title 251 - Personnel, Department of (Higher Education)

Title 252 - Highway Commission (See Also Title 468)

Title 253 - Higher Education Facilities Authority

Title 254 - Historic Preservation, Advisory Council on

Title 255 - Historical Society, Washington State

Title 256 - Historical Society, Eastern Washington State

Title 257 - Home Care Quality Authority

Title 259 - Environmental Hearings Office (Hydraulic Appeals Board)

Title 260 - Horse Racing Commission

Title 261 - Hospital Commission (See Also Title 246)

Title 262 - Housing Finance Commission

Title 263 - Industrial Insurance Appeals, Board of

Title 275 - Social and Health Services, Department of (Institutions)

Title 284 - Insurance Commissioner, Office of the

Title 286 - Interagency Committee for Outdoor Recreation

Title 287 - Investment Board, State

Title 288 - Jail Industries Board

Title 289 - Corrections Standards Board

Title 290 - Judicial Retirement Board (See Also Title 415)

Title 292 - Ethics in Public Service

Title 294 - Land Use Study Commission

Title 296 - Labor and Industries, Department of

Title 297 - Law Enforcement Officers' and Fire Fighters' Retirement Board, Washington (See 415)

Title 298 - Leased Tidelands Valuation Boards

Title 299 - Law Enforcement Officers' Training Commission, Washington (See Also Title 139)

Title 300 - Librarians, Certification of

Title 304 - Library Commission

Title 306 - Law Revision Commission

Title 308 - Licensing, Department of

Title 314 - Liquor Control Board

Title 315 - Lottery Commission

Title 316 - Marine Employees' Commission

Title 317 - Ecology, Department of (Marine Safety, Office of)

Title 318 - Maritime Commission

Title 320 - Medical Disciplinary Board

Title 322 - Hispanic Affairs, Commission on

Title 323 - Military Department

Title 326 - Minority and Women's Business Enterprises, Office of

Title 330 - Municipality of Metropolitan Seattle

Title 332 - Natural Resources, Board and Department of

Title 335 - Nuclear Waste Board

Title 342 - Oceanographic Commission

Title 344 - Oil and Gas Conservation Committee

Title 352 - Parks and Recreation Commission

Title 356 - Personnel, Department of (General Government)

Title 357 - Personnel, Department of - Personnel Resources Board

Title 358 - Personnel Appeals Board

Title 359 - Personnel, Department of (Personnel Resources Board)

Title 360 - Pharmacy, Board of (See Also Title **246**)

Title 363 - Pilotage Commissioners, Board of

Title 365 - Community, Trade, and Economic Development, Department of (Community Deve

Title 371 - Environmental Hearings Office (Pollution Control Hearings Board)

Title 372 - Ecology, Department of (Water Pollution)

Title 374 - Pollution Liability Insurance Agency

Title 380 - Printing and Duplicating Committee

Title 381 - Indeterminate Sentence Review Board

Title 383 - Productivity Board

Title 388 - Social and Health Services, Department of

Title 389 - State Treasurer's Office (Public Deposit Protection Commission)

Title 390 - Public Disclosure Commission

Title 391 - Public Employment Relations Commission

Title 392 - Public Instruction, Superintendent of

Title 399 - Community, Trade, and Economic Development, Department of (Public Works Board)

Title 400 - Puget Sound Water Quality Action Team

Title 402 - Radiation Control Agency (See Also Title 246)

Title 410 - Reciprocity Commission

Title 414 - Records Committee, Local

Title 415 - Retirement Systems, Department of (See Also Titles 184, 290, 297, and 462)

Title 417 - Redistricting Commission

Title 419 - Financial Institutions, Department of (Savings and Loan Associations, Division of)

Title 420 - Salmon Recovery Funding Board

Title 434 - Secretary of State

Title 437 - Sentencing Guidelines Commission

Title 440 - Social and Health Services, Department of (General Provisions) (See Also Title 24)

Title 446 - State Patrol (See Also Title 204)

Title 448 - State Toxicologist

Title 456 - Tax Appeals, Board of

Title 458 - Revenue, Department of

Title 460 - Financial Institutions, Department of (Securities Division)

Title 461 - Environmental Hearings Office (Shorelines Hearings Board)

Title 462 - Teachers' Retirement

Title 463 - Energy Facility Site Evaluation Council

Title 465 - Tobacco Settlement Authority

Title 466 - Toll Bridge Authority

Title 467 - Traffic Safety Commission

Title 468 - Transportation, Department of

Title 470 - Transportation of Dangerous Cargoes, Advisory Committee on

Title 474 - State Treasurer's Office

Title 478 - University of Washington

Title 479 - Transportation Improvement Board

Title 480 - Utilities and Transportation Commission

Title 482 - Veterans Rehabilitation Council

Title 484 - Veterans Affairs, Department of

Title 490 - Workforce Training and Education Coordinating Board, Also Vocational Rehabilitat

Title 491 - Volunteer Fire Fighters, Board for

Title 495A - Bates Technical College

Title 495B - Bellingham Technical College

Title 495C - Clover Park Technical College

Title 495D - Lake Washington Technical College

Title 495E - Renton Technical College

Title 504 - Washington State University

Title 508 - Ecology, Department of (Water Resources) (See Also Titles 173, 371, and 372)

Title 516 - Western Washington University

Inside the Legislature

- ★ [Find Your Legislator](#)
- ★ [Participating in the Process](#)
- ★ [Legislative Calendars](#)
- ★ [Bill Information](#)
- ★ [Laws and Agency Rules](#)
- ★ [Legislative Agencies](#)
- ★ [Legislative E-mail Lists](#)
- ★ [Kids' Pages](#)

Outside the Legislature

- ★ [Washington State History and Culture](#)
- ★ [Congress - the Other Washington](#)
- ★ [TV Washington](#)
- ★ [Washington Courts](#)
- ★ [Transportation Performance Audit Board](#)



TITLES

Title 246 WAC HEALTH, DEPARTMENT OF

Last U

Chapters

AGENCY DESCRIPTION

- [246-01](#) Description and organization.
- [246-03](#) State Environmental Policy Act -- Guidelines.
- [246-08](#) Practice and procedure.
- [246-10](#) Administrative procedure--Adjudicative proceedings.
- [246-11](#) Model procedural rules for boards.
- [246-12](#) Administrative procedures and requirements for credentialed health care providers.
- [246-14](#) Uniform procedures for complaint resolution.
- [246-15](#) Whistleblower complaints in health care settings.
- [246-25](#) Antitrust immunity and competitive oversight.
- [246-50](#) Coordinated quality improvement program.

COMMUNICABLE DISEASES

- [246-100](#) Communicable and certain other diseases.
- [246-101](#) Notifiable conditions.
- [246-102](#) Cancer registry.
- [246-110](#) Contagious disease -- School districts and day care centers.

HUMAN IMMUNODEFICIENCY VIRUS (HIV)

- [246-130](#) Human immunodeficiency virus (HIV) infection interventions.
- [246-136](#) Human immunodeficiency virus (HIV) infection -- Occupational exposure notification
- [246-138](#) Testing of good samaritans for certain infectious diseases.
- [246-140](#) Bloodborne pathogens in children placed in out-of-home care.
- [246-145](#) Electrology and tattooing standards for sterilization procedures and infection control

TUBERCULOSIS

246-170 Tuberculosis -- Prevention, treatment, and control.

ENVIRONMENTAL HEALTH

246-203 General sanitation.

246-205 Decontamination of illegal drug manufacturing or storage sites.

FOOD HANDLING

246-215 Food service.

246-217 Food worker cards.

RADIATION

246-220 Radiation protection -- General provisions.

246-221 Radiation protection standards.

246-222 Radiation protection -- Worker rights.

246-224 Radiation protection -- Radiation machine assembly and registration.

246-225 Radiation protection -- X rays in the healing arts.

246-227 Radiation protection -- Industrial X ray.

246-228 Radiation protection -- Analytical X-ray equipment.

246-229 Radiation protection -- Particle accelerators.

246-231 Packaging and transportation of radioactive material.

246-232 Radioactive material -- Licensing applicability.

246-233 Radioactive materials -- General licenses.

246-235 Radioactive materials -- Specific licenses.

246-239 Radiation protection -- Nuclear medicine.

246-240 Radiation protection -- Medical therapy.

246-243 Radiation protection -- Industrial radiography.

246-244 Radiation protection -- Wireline services.

246-246 Radioactive criteria for license termination.

246-247 Radiation protection -- Air emissions.

246-249 Radioactive waste -- Use of the commercial disposal site.

246-250 Radioactive waste -- Licensing land disposal.

246-252 Radiation protection -- Uranium and/or thorium milling.

246-254 Radiation protection -- Fees.

RECREATIONAL WATER

- 246-260 Water recreation facilities.
- 246-262 Recreational water contact facilities.

SEWER SYSTEMS

- 246-270 Sewer systems -- Certification of necessity for water district involvement.
- 246-271 Public sewage.
- 246-272 On-site sewage systems.
- 246-272A On-site sewage systems.
- 246-272B Large on-site sewage system regulations.
- 246-273 On-site sewage system additives.

SHELLFISH

- 246-280 Recreational shellfish beaches.
- 246-282 Sanitary control of shellfish.

WATER SYSTEMS

- 246-290 Public water supplies.
- 246-291 Group B public water systems.
- 246-292 Water works operator certification.
- 246-293 Water System Coordination Act.
- 246-294 Drinking water operating permits.
- 246-295 Satellite system management agencies.
- 246-296 Drinking water state revolving fund loan program.

FACILITY STANDARDS AND LICENSING

- 246-305 Certification of independent review organizations.
- 246-310 Certificate of need.
- 246-312 Acquisition of nonprofit hospitals.
- 246-314 Facility construction review.
- 246-320 Hospital licensing regulations.
- 246-322 Private psychiatric and alcoholism hospitals.

246-324 Private alcohol and chemical dependency hospitals.

246-329 Childbirth centers.

246-335 In-home services agencies.

246-337 Residential treatment facility.

246-338 Medical test site rules.

246-358 Temporary worker housing.

246-359 Temporary worker housing construction standard.

246-360 Transient accommodations.

246-361 Cherry harvest camps.

246-366 Primary and secondary schools.

246-374 Outdoor music festivals.

246-376 Camps.

246-380 State institutional survey program.

246-390 Drinking water certification rules.

HEALTH INFORMATION

246-451 Hospitals -- Assessments and related reports.

246-453 Hospital charity care.

246-454 Hospitals -- System of accounting, financial reporting, budgeting, cost allocation.

246-455 Hospital patient discharge information reporting.

246-490 Vital statistics.

246-491 Vital statistics -- Certificates.

HEALTH PROMOTION AND CHRONIC DISEASE PREVENTION

246-560 Rural health system project.

246-562 Physician visa waivers.

246-564 Volunteer retired provider malpractice insurance program.

LABORATORY

246-650 Newborn screening.

246-680 Prenatal tests -- Congenital and heritable disorders.

PARENT/CHILD HEALTH

246-710 Coordinated children's services.

246-760 Auditory and visual standards -- School districts.

246-762 Scoliosis screening -- School districts.

246-780 Farmers' market nutrition program.

246-790 Special supplemental nutrition program for women, infants, and children (WIC).

PROFESSIONAL STANDARDS AND LICENSING

246-800 General provisions -- Professionals.

246-802 Acupuncturists.

246-808 Chiropractic quality assurance commission.

246-809 Licensure for mental health counselors, marriage and family therapists, and social workers.

246-810 Counselors.

246-811 Chemical dependency professionals.

246-812 Board of denture technology.

246-814 Access to dental care for children.

246-815 Dental hygienists.

246-817 Dental quality assurance commission.

246-822 Dietitians or nutritionists.

246-824 Dispensing opticians.

246-826 Health care assistants.

246-828 Hearing and speech.

246-830 Massage practitioners.

246-834 Midwives.

246-836 Naturopathic physicians.

246-840 Practical and registered nursing.

246-841 Nursing assistants.

246-842 Nursing assistants -- Nursing homes -- Nursing assistants training program.

246-843 Nursing home administrators.

246-845 Nursing pool.

246-847 Occupational therapists.

246-849 Ocularists.

246-850 Orthotics and prosthetics rules.

246-851 Optometrists.

246-852 Consumer access to vision care.

246-853 Osteopathic physicians and surgeons.

246-854 Osteopathic physicians' assistants.

246-855 Osteopathic physicians' acupuncture assistants.

246-856 Board of pharmacy -- General.

246-858 Pharmacists -- Internship requirements.

246-861 Pharmacists -- Professional pharmaceutical education.

246-863 Pharmacists -- Licensing.

246-865 Pharmaceutical services -- Extended care facility.

246-867 Impaired pharmacist rehabilitation.
246-869 Pharmacy licensing.
246-870 Electronic transmission of prescription information.
246-871 Pharmaceutical -- Parenteral products for nonhospitalized patients.
246-873 Pharmacy -- Hospital standards.
246-875 Pharmacy -- Patient medication record systems.
246-877 Pharmaceutical -- Sales prohibited.
246-878 Good compounding practices.
246-879 Pharmaceutical wholesalers.
246-881 Pharmacy -- Prescription drug price advertising.
246-883 Pharmaceutical -- Sales requiring prescriptions.
246-885 Pharmacy -- Identification, imprints, markings, and labeling of legend drugs.
246-886 Animal control -- Legend drugs.
246-887 Pharmacy -- Regulations implementing the Uniform Controlled Substances Act.
246-888 Medication assistance.
246-889 Pharmaceutical -- Precursor substance control.
246-891 Pharmacy -- Prophylactics.
246-895 Pharmacy -- Good manufacturing practice for finished pharmaceuticals.
246-897 Pharmacy -- Drug availability.
246-899 Pharmaceutical -- Drug product substitution.
246-901 Pharmacy ancillary personnel.
246-903 Nuclear pharmacies and pharmacists.
246-904 Health care entities.
246-905 Pharmacy -- Home dialysis program.
246-907 Pharmaceutical licensing periods and fees.
246-915 Physical therapists.
246-918 Physician assistants -- Medical quality assurance commission.
246-919 Medical quality assurance commission.
246-922 Podiatric physicians and surgeons.
246-924 Psychologists.
246-926 Radiological technologists.
246-927 Recreation therapy.
246-928 Respiratory care practitioners.
246-930 Sex offender treatment provider.
246-933 Veterinarians -- Veterinary board.
246-935 Veterinary technicians.
246-937 Registered veterinary medication clerks.
246-939 Surgical technologist program.

TRAUMA/EMERGENCY MEDICAL SERVICES

246-976 Emergency medical services and trauma care systems.

Show Dispositions of Chapters Formerly Codified in this
(974 kb - download time about 9 minutes at 28.8 kbaud modem)

[Comments about this site](#) | [Privacy Notice](#) | [Accessibility Information](#) | [Disclaimer](#)

Inside the Legislature

- ★ [Find Your Legislator](#)
- ★ [Participating in the Process](#)
- ★ [Legislative Calendars](#)
- ★ [Bill Information](#)
- ★ [Laws and Agency Rules](#)
- ★ [Legislative Agencies](#)
- ★ [Legislative E-mail Lists](#)
- ★ [Kids' Pages](#)

Outside the Legislature

- ★ [Washington State History and Culture](#)
- ★ [Congress - the Other Washington](#)
- ★ [TV Washington](#)
- ★ [Washington Courts](#)
- ★ [Transportation Performance Audit Board](#)

[TITLES](#) >> [WAC 246 TITLE](#) >> [CHAPTER 246-249](#)

Chapter 246-249 WAC RADIOACTIVE WASTE -- USE OF THE COMMERCIAL DISPOSAL SITE

[Compile the complete chapter as a single file.](#)

Last Update: 4/22/98

WAC SECTIONS

[246-249-001](#) Purpose and scope.

[246-249-010](#) Definitions.

[246-249-020](#) Site use permit.

[246-249-030](#) Waste shipment certification.

[246-249-040](#) Classification of radioactive waste for near-surface disposal.

[246-249-050](#) Acceptable radioactive waste forms and packaging.

[246-249-060](#) Labeling.

[246-249-070](#) Variances.

[246-249-080](#) Naturally occurring and accelerator produced radioactive material (NARM), excluding source material.

[246-249-090](#) Transfer for disposal and manifests.

Inside the Legislature

- ★ Find Your Legislator
- ★ Participating in the Process
- ★ Legislative Calendars
- ★ Bill Information
- ★ Laws and Agency Rules
- ★ Legislative Agencies
- ★ Legislative E-mail Lists
- ★ Kids' Pages

Outside the Legislature

- ★ Washington State History and Culture
- ★ Congress - the Other Washington
- ★ TV Washington
- ★ Washington Courts
- ★ Transportation Performance Audit Board



TITLES >> WAC 246 TITLE >> WAC 246-249 CHAPTER

246-249-030 << 246-249-040 >> 246-249-050

WAC 246-249-040 Classification of radioactive waste for near-surface disposal. (1) Considerations. Determination of the classification of waste involves two considerations. First, consideration must be given to the concentration of long-lived radionuclides (and their shorter-lived precursors) whose potential hazard will persist long after such precautions as institutional controls, improved waste form, and deeper disposal have ceased to be effective. These precautions delay the time when long-lived radionuclides could cause exposures. In addition, the magnitude of the potential dose is limited by the concentration and availability of the radionuclide at the time of exposure. Second, consideration must be given to the concentration of shorter-lived radionuclides for which requirements on institutional controls, waste form, and disposal methods are effective.

(2) Classes of waste.

(a) Class A waste is waste that is usually segregated from other waste classes at the disposal site. The physical form and characteristics of Class A waste must meet the minimum requirements set forth in WAC 246-249-050(1). If Class A waste also meets the stability requirements set forth in WAC 246-249-050(2), it is not necessary to segregate the waste for disposal.

(b) Class B waste is waste that must meet more rigorous requirements on waste form to ensure stability after disposal. The physical form and characteristics of Class B waste must meet both the minimum and stability requirements set forth in WAC 246-249-050.

(c) Class C waste is waste that not only must meet more rigorous requirements on waste form to ensure stability but also requires additional measures at the disposal facility to protect against inadvertent intrusion. The physical form and characteristics of Class C waste must meet both the minimum and stability requirements set forth in WAC 246-249-050.

(3) Classification determined by long-lived radionuclides. If the waste contains only radionuclides listed in Table 1, classification shall be determined as follows:

(a) If the concentration does not exceed 0.1 times the value in Table 1, the waste is Class A.

(b) If the concentration exceeds 0.1 times the value in Table 1, but does not exceed the value in Table 1, the waste is Class C.

(c) If the concentration exceeds the value in Table 1, the waste is not generally acceptable for near-surface disposal.

(d) For waste containing mixtures of radionuclides listed in Table 1, the total concentration shall be determined by the sum of fractions rule described in subsection (7) of this section.

Radionuclide	Concentration
	Curies/Cubic Meter
Table 1	
C-14	8
C-14 in activated metal	80
Ni-59 in activated metal	220
Nb-94 in activated metal	0.2
Tc-99	3
I-129	0.08
Alpha emitting transuranic radionuclides	100 ¹
with half-life greater than five years	
Pu-241	3,500 ¹
Cm-242	20,000 ¹
Ra-226	100 ¹

¹ Units are nanocuries per gram, to convert to becquerels (Bq) per gram multiply by 37, to convert from curies to gigabecquerels (GBq) multiply by 37. Specific approval of the department is required for disposal of these radionuclides if their concentration is greater than ten percent of the Table 1 value.

(4) Classification determined by short-lived radionuclides. If the waste does not contain any of the radionuclides listed in Table 1, classification shall be determined based on the concentrations shown in Table 2. If the radioactive waste does not contain any radionuclides listed in either Table 1 or 2, it is Class A.

(a) If the concentration does not exceed the value of Column 1, the waste is Class A.

(b) If the concentration exceeds the value in Column 1, but does not exceed the value in Column 2, the waste is Class B.

(c) If the concentration exceeds the value in Column 2, but does not exceed the value in Column 3, the waste is Class C.

(d) If the concentration exceeds the value in Column 3, the waste is not generally acceptable for near-surface disposal.

(e) For wastes containing mixtures of the radionuclides listed in Table 2, the total concentration shall be determined by the sum of fractions rule described in subsection (7) of this section.

Radionuclide	Concentration, Curies/ Cubic Meter		
	Column 1	Column 2	Column 3
Table 2			
Total of all radionuclides			
with less than 5-year	700	(*)	(*)

half-life			
H-3	40	(*)	(*)
Co-60	700	(*)	(*)
Ni-63	3.5	70	700
Ni-63 in activated metal	35	700	7,000
Sr-90	0.04	150	7,000
Cs-137	1	44	4,600

(*) There are no limits established for these radionuclides in Class B or C wastes. Practical consideration such as the effects of external radiation and internal heat generation on transportation, handling, and disposal will limit the concentrations for these wastes. These wastes shall be Class B unless the concentrations of other radionuclides in Table 2 determine the waste to be Class C independent of these radionuclides. Specific approval of the department is required prior to packaging of Class B tritium waste.

(5) Classification determined by both long-lived and short-lived radionuclides. If the waste contains a mixture of radionuclides, some of which are listed in Table 1, and some of which are listed in Table 2, classification shall be determined as follows:

(a) If the concentration of a radionuclide listed in Table 1 is less than 0.1 times the value listed in Table 1, the class shall be that determined by the concentration of radionuclides listed in Table 2.

(b) If the concentration of a radionuclide listed in Table 1 exceeds 0.1 times the value listed in Table 1, the waste shall be Class C, provided the concentration of radionuclides listed in Table 2 does not exceed the value shown in Column 3 of Table 2.

(6) Classification of waste with radionuclides other than those listed in Tables 1 and 2. If the waste does not contain any radionuclides listed in either Table 1 or 2, it is Class A.

(7) The sum of fractions rule for mixtures of radionuclides. For determining classification for waste that contains a mixture of radionuclides, it is necessary to determine the sum of fractions by dividing each radionuclide's concentration by the appropriate limit and adding the resulting values. The appropriate limits must all be taken from the same column of the same table. The sum of the fractions for the column must be less than or equal to 1.0 if the waste class is to be determined by that column. Example: A waste contains Sr-90 in a concentration of 50 Ci/m³ and Cs-137 in a concentration of 22 Ci/m³. Since the concentrations both exceed the values in Column 1, Table 2, they must be compared to Column 2 values. For Sr-90 fraction, $50/150 = 0.33$; for Cs-137 fraction, $22/44 = 0.5$; the sum of the fractions = 0.83. Since the sum is less than 1.0, the waste is Class B.

(8) Determination of concentration in wastes. The concentration of a radionuclide may be determined by indirect methods such as use of scaling factors which relate to the inferred concentration of one radionuclide to another that is measured, or radionuclide material accountability, if there is reasonable assurance that the indirect methods can be correlated with actual measurement. The concentration of a radionuclide may be averaged over the volume of the waste, or weight of the waste if the units are expressed as nanocuries per gram.

effective 9/7/91. Statutory Authority: RCW 43.70.040, 91-02-049 (Order 121), recodified as § 246-249-040, filed 12/27/90, effective 1/31/91. Statutory Authority: RCW 70.98.080, 87-01-031 (Order 2450), § 402-62-050, filed 12/11/86.]

[Comments about this site](#) | [Privacy Notice](#) | [Accessibility Information](#) | [Disclaimer](#)

Inside the Legislature

- ★ Find Your Legislator
- ★ Participating in the Process
- ★ Legislative Calendars
- ★ Bill Information
- ★ Laws and Agency Rules
- ★ Legislative Agencies
- ★ Legislative E-mail Lists
- ★ Kids' Pages

Outside the Legislature

- ★ Washington State History and Culture
- ★ Congress - the Other Washington
- ★ TV Washington
- ★ Washington Courts
- ★ Transportation Performance Audit Board



[TITLES](#) >> [WAC 246 TITLE](#) >> CHAPTER 246-250

Chapter 246-250 WAC RADIOACTIVE WASTE – LICENSING LAND

DISPOSAL

[Compile the complete chapter as a single file.](#)

Last Update: 4/22/98

WAC SECTIONS

GENERAL PROVISIONS

- [246-250-001](#) Purpose and scope.
- [246-250-010](#) Definitions.
- [246-250-020](#) License required.
- [246-250-030](#) Content of application.
- [246-250-040](#) General information.
- [246-250-050](#) Specific technical information.
- [246-250-060](#) Technical analyses.
- [246-250-070](#) Institutional information.
- [246-250-080](#) Financial information.
- [246-250-090](#) Requirements for issuance of a license.
- [246-250-100](#) Conditions of licenses.
- [246-250-110](#) Application for renewal or closure.
- [246-250-120](#) Contents of application for site closure and stabilization.
- [246-250-130](#) Post-closure observation and maintenance.
- [246-250-140](#) Transfer of license.
- [246-250-150](#) Termination of license.
- [246-250-160](#) General requirement.
- [246-250-170](#) Protection of the general population from releases of radioactivity.
- [246-250-180](#) Protection of individuals from inadvertent intrusion.
- [246-250-190](#) Protection of individuals during operations.
- [246-250-200](#) Stability of the disposal site after closure.

TECHNICAL REQUIREMENTS FOR LAND DISPOSAL FACILITIES

- [246-250-300](#) Disposal site suitability requirements for land disposal.

246-250-320 Disposal site design for land disposal.

246-250-330 Land disposal facility operation and disposal site closure.

246-250-340 Environmental monitoring.

246-250-350 Alternative requirements for design and operations.

246-250-360 Institutional requirements.

246-250-370 Alternative requirements for waste classification and characteristics.

FINANCIAL ASSURANCES

246-250-500 Applicant qualifications and assurances.

246-250-520 Funding for disposal site closure and stabilization.

246-250-530 Financial assurances for institutional controls.

RECORDS, REPORTS, TESTS, AND INSPECTIONS

246-250-600 Maintenance of records, reports, and transfers.

246-250-620 Tests on land disposal facilities.

LAND DISPOSAL OF RADIOACTIVE WASTE

246-250-700 Agency inspections of land disposal facilities.

Inside the Legislature

- ★ [Find Your Legislator](#)
- ★ [Participating in the Process](#)
- ★ [Legislative Calendars](#)
- ★ [Bill Information](#)
- ★ [Laws and Agency Rules](#)
- ★ [Legislative Agencies](#)
- ★ [Legislative E-mail Lists](#)
- ★ [Kids' Pages](#)

Outside the Legislature

- ★ [Washington State History and Culture](#)
- ★ [Congress - the Other Washington](#)
- ★ [TV Washington](#)
- ★ [Washington Courts](#)
- ★ [Transportation Performance Audit Board](#)

[TITLES](#) >> [WAC 246 TITLE](#) >> [WAC 246 -250 CHAPTER](#)
[246-250-160](#) << [246-250-170](#) >> [246-250-180](#)

WAC 246-250-170 Protection of the general population from releases of radioactivity. Concentrations of radioactive material which may be released to the general environment in ground water, surface water, air, soil, plants, or animals shall not result in an annual dose exceeding an equivalent of twenty-five millirems (0.25 mSv) to the whole body, seventy-five millirems (0.75 mSv) to the thyroid, and twenty-five millirems (0.25 mSv) to any other organ of any member of the public. Reasonable effort should be made to maintain releases of radioactivity in effluents to the general environment as low as is reasonably achievable.

[Statutory Authority: RCW [43.70.040](#), 91-02-049 (Order 121), recodified as § 246-250-170, filed 12/27/90, effective 1/31/91. Statutory Authority: RCW [70.98.080](#), 87-01-031 (Order 2450), § 402-61-180, filed 12/11/88.]

