DISTRIBUTION SHEET

To DISTRIBUTION	From RW WHITLOCK	Page 1 of 1
Project Title/Work Order COMPLIANCE MATRIX FOR THE MIXED WASTE DISPOSAL FACILITIES. TRENCHES 31 AND 34, BURIAL GROUND 218-W-5		Date 12-2-94
		EDT No. 608915
		ECN No.

Name	MSIN	Text With All Attach.	Text Only	Attach./ Appendix Only	EDT/ECN Only
RW WHITLOCK	T4-03	X			
DB POWELL	T4-03	X			
GE CAMPBELL	T4-05	X			
DW CARLYLE	T4-03	X			
CENTRAL FILES ORIGINAL PLUS 2	L8-04	2			
OSTI	L8-07	2			

Sta 6 DEC 02 1994	<div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> <div style="border: 1px solid black; border-radius: 50%; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center;"> 12 </div> </div> <h2 style="margin: 0;">ENGINEERING DATA TRANSMITTAL</h2>	Page 1 of 1 1. EDT 608915
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2. To: (Receiving Organization) SWMFE	3. From: (Originating Organization) SDO	4. Related EDT No.: NA
5. Proj./Prog./Dept./Div.: Org. 87230	6. Cog. Engr.: R. W. Whitlock	7. Purchase Order No.: NA
8. Originator Remarks:		9. Equip./Component No.: BG
		10. System/Bldg./Facility: Trenches 31 & 34
11. Receiver Remarks:		12. Major Assm. Dwg. No.: NA
		13. Permit/Permit Application No.: DOE/RL 88-20
		14. Required Response Date: 11-29-94

15. DATA TRANSMITTED					(F)	(G)	(H)	(I)
(A) Item No.	(B) Document/Drawing No.	(C) Sheet No.	(D) Rev. No.	(E) Title or Description of Data Transmitted	Approval Designator	Reason for Transmittal	Originator Disposition	Receiver Disposition
1	WHC-SD-WM-RPT-099		0	Compliance Matrix for the Mixed Waste Disposal Facilities. Trenches 31 and 34, Burial Ground 218-W-5	E	1	1	

16. KEY			
Approval Designator (F)	Reason for Transmittal (G)	Disposition (H) & (I)	
E, S, Q, D or N/A (see WHC-CM-3-5, Sec.12.7)	1. Approval 2. Release 3. Information 4. Review 5. Post-Review 6. Dist. (Receipt Acknow. Required)	1. Approved 2. Approved w/comment 3. Disapproved w/comment 4. Reviewed no/comment 5. Reviewed w/comment 6. Receipt acknowledged	

(G)	(H)	17. SIGNATURE/DISTRIBUTION (See Approval Designator for required signatures)								(G)	(H)
Reason	Disp.	(J) Name	(K) Signature	(L) Date	(M) MSIN	(J) Name	(K) Signature	(L) Date	(M) MSIN	Reason	Disp.
1	1	Cog.Eng. RW Whitlock	<i>[Signature]</i>	11/22/94	14-03	DW Carlyle	<i>[Signature]</i>	11/14/94	14-03	1	1
1	1	Cog. Mgr. DB Powell	<i>[Signature]</i>	12/2/94	T4-03						
		QA				Central Files		L8-04		3	
		Safety				O.S.T.I.	(2)	L8-07		3	
1	1	Env.	<i>[Signature]</i>	11/21/94	14-05						

18. <i>[Signature]</i> Signature of EDT Originator Date: 12/2/94	19. _____ Authorized Representative Date for Receiving Organization	20. <i>[Signature]</i> Cognizant Manager Date: 12/2/94	21. DOE APPROVAL (if required) Ctrl. No. ☐ Approved ☐ Approved w/comments ☐ Disapproved w/comments
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BD-7400-172-2 (04/94) GEF097

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Document Number: WHC-SD-WM-RPT-099, REV.0

Document Title: COMPLIANCE MATRIX FOR THE MIXED WASTE DISPOSAL FACILITIES, TRENCHES 31 & 34, BURIAL GROUND 218-W-5

Release Date: December 2, 1994

This document was reviewed following the procedures described in WHC-CM-3-4 and is:

APPROVED FOR PUBLIC RELEASE

WHC Information Release Administration Specialist:

Kara M. Broz

December 2, 1994

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SUPPORTING DOCUMENT

1. Total Pages **24** ²⁻⁹⁴

2. Title

COMPLIANCE MATRIX FOR THE MIXED WASTE DISPOSAL
FACILITIES, TRENCHES 31 & 34,
BURIAL GROUND 218-W-5

3. Number

WHC-SD-WM-RPT-099

4. Rev No.

0

5. Key Words

TRENCH 31
TRENCH 34
PROJECT W-025
MIXED WASTE DISPOSAL

12/2/94 Km Broz

**APPROVED FOR
PUBLIC RELEASE**

6. Author

Name: D.W. Carlyle

[Signature] *11/14/94*
Signature

Organization/Charge Code 87230 | A7A48

7. Abstract

Document lists regulatory and procedural/institutional requirements for Trenches 31 & 34 and identifies implementing procedures.

8. RELEASE STAMP

OFFICIAL RELEASE
BY WHC
DATE DEC 02 1994

12

Sta #6

**COMPLIANCE MATRIX FOR THE MIXED WASTE
DISPOSAL FACILITIES,
TRENCHES 31 AND 34, BURIAL GROUND 218-W-5**

SUMMARY

The purpose of the Trench 31 & 34 Mixed Waste Disposal Facility Compliance Matrix is to provide objective evidence of implementation of all regulatory and procedural-institutional requirements for the disposal facilities. This matrix provides a listing of the individual regulatory and procedural-institutional requirements that were addressed. Subject matter experts reviewed pertinent documents that had direct or indirect impact on the facility. Those found to be applicable were so noted and listed in Appendix A. Subject matter experts then extracted individual requirements from the documents deemed applicable and listed them in the matrix tables. The results of this effort are documented in Appendix B.

APPENDIX A

TRENCH 31 & 34

APPLICABILITY LISTING

W025, TRENCH 31 AND TRENCH 34 DOCUMENT APPLICABILITY LISTING

REGULATION NO.	REGULATION TITLE	ISSUED	APPLICABLE	
			Y	N
WASHINGTON STATE REGULATIONS				
WAC 173-218	Underground Injection Control	12/31/92		X
WAC 173-240	Submission of Plans and Reports for Construction of Waste Water Facilities	12/31/92		X
WAC 173-303	Dangerous Waste Regulations	12/08/93	X	
WAC 173-304	Minimum Functional Standards for Solid Waste Handling	10/04/88		X
WAC 173-340	The Model Toxics Control Act Cleanup Regulation, 1991	11/24/93	X	
WAC 173-400	General Regulations for Air Pollution Sources	08/20/93		X
WAC 173-460	Controls for New Sources of Toxic Air Pollutants	01/14/93		X
WAC 197-11	SEPA Rules	12/31/92		X
WAC 246-220	Radiation Protection - General Provisions	12/09/93		X
WAC 246-221	Radiation Protection Standard	12/09/93		X
WAC 246-247	Radiation Protection, Air Emissions	03/04/94		X
WAC 246-272	On-Site Sewage System	12/31/92		X
WAC 246-290	Public Water Supplies, Sections 040, 200-250, 490	03/25/93		X
RCW 43.70	Department of Health	10/93		X
RCW 70.105	Hazardous Waste Management Act	10/93		X
RCW 70.105D	Model Toxics Control Act	10/93		X

W025, TRENCH 31 AND TRENCH 34 DOCUMENT APPLICABILITY LISTING

REGULATION NO.	REGULATION TITLE	ISSUED	APPLICABLE	
			Y	N
CODE OF FEDERAL REGULATIONS				
10 CFR 61	NRC - Regulations for Land Disposal of Radioactive Waste	01/94	X	
10 CFR 71	Packaging and Transportation of Radioactive Waste	01/94		X
10 CFR 835	Occupational Radiation Protection	01/94	X	
10 CFR 1021	NEPA Documentation	01/94	X	
29 CFR 1910.95	Occupational Noise Exposure	01/94		X
29 CFR 1910.96	Transfer of Radioactive Material	01/94	X	
36 CFR 800	Protection of Historic and Cultural Properties	01/94		X
40 CFR 61	Air Emissions, Part H	01/94	X	
40 CFR 116	Designation of Hazardous Substances	01/94		X
40 CFR 117	Determination of Reportable Quantities	01/94		X
40 CFR 141	Primary Drinking Water	01/94		X
40 CFR 143	Secondary Drinking Water	01/94		X
40 CFR 192	Standards for Uranium and Thorium Mill Tailings	01/94		X
40 CFR 257	Criteria for Classification of Solid Waste Disposal Facilities	01/94		X
40 CFR 261	Identification and Listing of Hazardous Waste, Subparts C & D	01/94		X
40 CFR 264	Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities, Sections 192, 193, 309-13, and 552	01/94	X	

W025, TRENCH 31 AND TRENCH 34 DOCUMENT APPLICABILITY LISTING

REGULATION NO.	REGULATION TITLE	ISSUED	APPLICABLE	
			Y	N
CODE OF FEDERAL REGULATIONS				
40 CFR 265	Interim Status Standards for Owners and Operators of Hazardous Waste Treatment, Storage and Disposal Facilities	01/94	X	
40 CFR 267	Interim Standards for Owners and Operators of New Hazardous Waste Disposal Facilities	01/94		X
40 CFR 268	Waste Analysis and Record Keeping	01/94	X	
40 CFR 270	EPA Administered Permit Programs: The Hazardous Waste Permit Program	01/94		X
40 CFR 280	Technical Standards and Corrective Action Requirements for Owners and Operators of Underground Storage Tanks, Section 20	01/94		X
40 CFR 761 Subpart C	TSCA - PCB Bearing Waste	01/94	X	
50 CFR 402	Interagency Cooperation - Endangered Species Act of 1973, Amended	01/94		X

W025, TRENCH 31 AND TRENCH 34 DOCUMENT APPLICABILITY LISTING

REGULATION NO.	REGULATION TITLE	ISSUED	APPLICABLE	
			Y	N
DOE ORDERS				
DOE 1324.2A	Records Disposition	04/09/92	X	
DOE 4700.1, Chg. 1	Project Management System	06/02/92		X
DOE 5400.1, Chg. 1	General Environmental Protection Program, 11/09/88	06/29/90	X	
DOE 5400.5, Chg. 2	Radiation Protection of the Public and Environment	06/05/90	X	
DOE 5480.3	Safety Regulations for the Packaging and Transportation of Hazardous Materials, Substances and Waste	07/09/85	X	
DOE 5480.4, Chg. 4	Environmental Protection, Safety, and Health Protection Standards	01/07/93	X	
DOE 5480.7A	Fire Protection	02/17/93		X
DOE 5480.11, Chg. 3	Radiation Protection for Occupational Workers	06/17/92	X	
DOE 5480.23	Nuclear Safety Analysis Reports	04/30/92		X
DOE 5632.6, Chg. 1	Physical Protection of DOE Property and Unclassified Facilities	12/05/89		X
DOE 5700.6C	Quality Assurance	08/21/91	X	
DOE 5820.2A	Radioactive Waste Management	09/26/88	X	
DOE 6430.1A	General Design Criteria, Sections 0273-99, 0275-99, 0260, 0266, 0270, 1530, and 237-3	04/06/89		X

W025, TRENCH 31 AND TRENCH 34 DOCUMENT APPLICABILITY LISTING

REGULATION NO.	REGULATION TITLE	ISSUED	APPLICABLE	
			Y	N
DOE/RL ORDERS AND PROCEDURES				
DOE/RLIP 4700.1A	Project Management System	10/15/91		X
DOE/RL 5440.1A	Implementation of the National Environmental Policy Act at the Richland Operations Office	02/03/87		X
DOE/RL 5480.1A	Environmental Safety and Health Program for DOE Operations for the Richland Operations	09/07/88		X
DOE/RLID 5480.3	Safety Requirements for the Packaging and Transportation of Hazardous Materials, Hazardous Substances, and Hazardous Wastes	10/26/93	X	
DOE/RL 5480.4C	Environmental Protection, Safety, and Health Protection Standards for RL	11/06/92		X
DOE/RL 5481.1	Safety Analysis and Review System	10/05/83		X
DOE 5483.1B	Occupational Safety and Health Program for DOE Contractor Employees at Government Owned Contractor Operated Facilities	05/31/89		X
DOE/RL 5820.2A	Radioactive Waste Management	08/15/90		X
DOE/RL 6430.1C	Hanford Plant Standards (HPS) Program	03/05/90		X

W025, TRENCH 31 AND TRENCH 34 DOCUMENT APPLICABILITY LISTING

REGULATION NO.	REGULATION TITLE	ISSUED	APPLICABLE	
			Y	N
WESTINGHOUSE PROCEDURES				
WHC-CM-1-3	Management Requirements and Procedures	02/88		X
WHC-CM-1-6	Radiological Control Manual	05/95	X	
WHC-CM-2-14	Hazardous Material Packaging and Shipping	08/88	X	
WHC-CM-4-2	Quality Assurance Manual	04/88	X	
WHC-CM-4-3	Industrial Safety Manual	12/87	X	
WHC-CM-4-9	Radiological Design	09/88		X
WHC-CM-4-11	ALARA Program Manual	08/88	X	
WHC-CM-4-41	Fire Protection Program Manual	08/92		X
WHC-CM-4-46	Non-Reactor Facility Safety Analysis Manual	09/88	X	
WHC-CM-5-16	Solid Waste Management	12/23/91	X	
WHC-CM-7-5	Environmental Compliance Manual	09/88	X	

W025, TRENCH 31 AND TRENCH 34 DOCUMENT APPLICABILITY LISTING

REGULATION NO.	REGULATION TITLE	ISSUED	APPLICABLE	
			Y	N
CONSENSUS CODES/STANDARDS				
ANSI/AMSE NQA-1	QA Program Requirements for Nuclear Facilities	1989	X	

W025, TRENCH 31 AND TRENCH 34 DOCUMENT APPLICABILITY LISTING

REGULATION NO.	REGULATION TITLE	ISSUED	APPLICABLE	
			Y	N
MISCELLANEOUS DOCUMENTS				
APCA Reg 80-7	Benton/Franklin/Walla Walla Counties Air Pollution Control Authority General Regulation	07/01/80		X
AREA	American Railway Engineering Association, Manual for Railway Engineering (Vol. I & II	1993		X
AWWA	American Water Works Association (AWWA), Pacific Northwest Section, "Accepted Procedure and Practice in Cross-Connection Control Manual," Fifth Edition	05/90		X
DOE/LLW-63T	Guidance for Conduct of Waste Management Systems Performance Assessment	09/87		X
DOE-STD-1027-92	Hazard Classification and Accident Analysis Techniques for Compliance with DOE Order 5480.23, Nuclear Safety Analysis Reports	12/92		X
EPA 530-SW-86-031	Construction Quality Assurance for Land Disposal Facilities	1986		X
EPA 625/1-77-009	Waste Water Treatment Facilities for Sewered Small Communities Process Design Manual	10/77		X
EPA 625/1-80-012	Design Manual: On-Site Waste Water Treatment and Disposal Facilities	10/80		X
EPA Notice 51 Fed Reg 24	Pesticide Tolerance Petition	02/15/86		X
EPA Notice 53 Fed Reg 37	Toxic and Hazardous Substances Control; Certain Chemical Premanufacture Notices	02/25/88		X
HFFA & CO	Hanford Federal Facilities Agreement and Consent Order	01/01/94		X
SDC 1.3	Preparation and Control of Engineering and Fabrication Drawings	02/27/90	X	

W025, TRENCH 31 AND TRENCH 34 DOCUMENT APPLICABILITY LISTING

REGULATION NO.	REGULATION TITLE	ISSUED	APPLICABLE	
			Y	N
MISCELLANEOUS DOCUMENTS				
SDC 3.1	Standard Design Criteria for Railroads	08/20/73		X
SDC 4.1	Design Loads for Facilities	09/03/93	X	
SDC 5.1	Standard Design Criteria for Heating, Ventilating and Air Conditioning	12/07/92		X

APPENDIX B
TRENCH 31 & 34
COMPLIANCE MATRIX

W025, TRENCH 31 AND TRENCH 34 COMPLIANCE MATRIX

REG SECTION #	REQUIREMENT	DOCUMENT SECTION
WASHINGTON STATE REGULATIONS		
WAC 173-303-060	Any person who generates, transports, offers for transport, or transfers a dangerous waste, or who owns or operates a dangerous waste TSD facility shall have a current EPA/state identification number (EPA/state ID#).	WA7890008967
WAC 173-303-070	To determine whether or not a waste is designated a person shall check the waste against the following sections, and in the following order: (i) First, Discarded chemical products, WAC 173-303-081; (ii) Second, Dangerous waste sources, WAC 173-303-082; (iii) Third, Dangerous waste characteristics, WAC 173-303-090; and (iv) Forth, Dangerous waste criteria, WAC 173-303-100.	WHC-EP-0063-4 Sec. 4.4
WAC 173-303-070	A person shall check each section, in the order set forth, until he determines whether the waste is designated as a dangerous waste. Once the waste is designated through the lists, characteristics, or criteria he need not determine any other designations for the waste, except as required by subsection (4) or (5) of this section, or for the purposes of compliance with the federal land disposal restrictions, as adopted by reference in WAC 173-303-140.	WHC-EP-0063-4 Sec. 4.4
WAC 173-303-070	If the designation procedures identify a waste as both EHW and DW (e.g., a waste may be DW for corrosivity and EHW for toxicity characteristic), the waste must be designated EHW.	WHC-EP-0063-4 Sec. 4.4

REG SECTION #	REQUIREMENT	DOCUMENT SECTION
WASHINGTON STATE REGULATIONS		
WAC 173-303-070	For the purpose of determining if a solid waste is a dangerous waste as identified in WAC 173-303-080 through 173-303-100, a person shall either: (i) Test the waste according to the methods, or an approved equivalent method, set forth in WAC 173-303-110; or (ii) Apply knowledge of the waste in light of the materials or the process used, when: (A) Such knowledge can be demonstrated to be sufficient for determining whether or not it designated and/or designated properly; and (B) All data and records supporting this determination in accordance with WAC 173-303-210(3) are retained on-site	WHC-EP-0063-4 Sec. 4.4
WAC 173-303-070	If a generator has designated his waste under the dangerous waste lists, WAC 173-303-080 through 173-303-082, or characteristics, WAC 173-303-090, and has knowledge that the waste also exhibits any of the dangerous waste characteristics, WAC 173-303-090, or that the waste also meets any of the dangerous waste criteria, WAC 173-303-100, then he shall also designate the waste in accordance with those dangerous waste characteristics, or criteria or both.	WHC-EP-0063-4 Sec. 4.4
WAC 173-303-070	When a person is reporting or keeping records on a dangerous waste, he shall use all the dangerous waste numbers which he knows are assignable to his waste from the dangerous waste lists, characteristics, or criteria.	WHC-EP-0063-4 Sec. 4.4
WAC 173-303-071	No waste class will be excluded if any of the wastes in the class are regulated as hazardous waste under 40 CFR Part 261.	WHC-EP-0063-4 Sec. 4.4

REG SECTION #	REQUIREMENT	DOCUMENT SECTION
WASHINGTON STATE REGULATIONS		
WAC 173-303-081	<p>A waste shall be designated as a dangerous waste if it is handled in any of the manners described in (e) of this subsection, and if it is a residue from the management of:</p> <ul style="list-style-type: none"> (a) A commercial chemical product or manufacturing chemical intermediate which has the generic name listed in the discarded chemical list, WAC 173-303-9903 (b) An off specification commercial chemical product or manufacturing chemical intermediate which if it had met specifications would have the generic name listed in the discarded chemical products list, WAC 173-303-9930; (c) Any containers, inner liners, or residue remaining in a container or in an inner liner removed from a container that has held any commercial chemical product of manufacturing chemical intermediate that has, or any off specification commercial chemical product or manufacturing chemical intermediate which if it had met specifications would have, the generic name listed on the acutely dangerous chemical products list of WAC 173-303-9903, unless the containers or inner liners are empty as described in WAC 173-303-160(2); 	WHC-EP-0063-4 Sec. 4.4

REG SECTION #	REQUIREMENT	DOCUMENT SECTION
WASHINGTON STATE REGULATIONS		
WAC 173-303-082	The dangerous waste sources list appears in WAC 173-303-9904. Any waste which is listed or which is a residue from the management of a waste listed on the dangerous waste sources list shall be designated a dangerous waste, and shall be identified as DW, except that WAC 173-303-9904 includes several footnotes describing circumstances under which certain dangerous waste sources should be designated EHW rather than DW.	WHC-EP-0063-4 Sec. 4.4

REG SECTION #	REQUIREMENT	DOCUMENT SECTION
WASHINGTON STATE REGULATIONS		
WAC 173-303-082	If a person mixes a solid waste with a waste that would be designated as a dangerous waste source under this section, then the entire mixture shall be designated as a dangerous waste source. The mixture shall have the same designation (DW or EHW), and shall have the same dangerous waste number as the dangerous waste source which was mixed with the solid waste.	WHC-EP-0063-4 Sec. 4.4
WAC 173-303-090	The testing methods (for dangerous waste) specified in this section shall be the only acceptable methods, unless the department approves an equivalent test method in accordance with WAC 173-303-910(2).	WHC-EP-0063-4 Sec. 6.2
WAC 173-303-090	A solid waste that exhibits the characteristic of ignitability shall be designated DW, and shall be assigned the dangerous waste number of D001.	WHC-EP-0063-4 Sec. 6.2
WAC 173-303-090	A solid waste that exhibits the characteristic of corrosivity shall be designated DW, and shall be assigned the dangerous waste number of D002.	WHC-EP-0063-4 Sec. 6.2
WAC 173-303-090	A solid waste that exhibits the characteristic of reactivity shall be designated DW, and shall be assigned the dangerous waste number of D003.	WHC-EP-0063-4 Sec. 6.2
WAC 173-303-090	A solid waste that exhibits the toxicity characteristic has the dangerous waste number specified in the list which corresponds to the toxic contaminant causing it to be dangerous.	WHC-EP-0063-4 Sec. 6.2
WAC 173-303-090	Any waste containing one or more contaminants with concentrations at or above the EHW threshold shall cause that waste to be designated EHW.	WHC-EP-0063-4 Sec. 6.2
WAC 173-303-090	Any waste containing contaminants which occur at concentrations at or above the DW threshold only (i.e., no EHW contaminants), shall be designated DW.	WHC-EP-0063-4 Sec. 6.2

REG SECTION #	REQUIREMENT	DOCUMENT SECTION
WASHINGTON STATE REGULATIONS		
WAC 173-303-100	<p>A solid waste is a dangerous waste if it meets one or more of the dangerous waste criteria described in subsections (5), (6), and (7) of this section. If a person's solid waste meets one or more of these criteria then he shall be a dangerous waste generator (and may not be considered a small quantity generator as provided in WAC 173-303-070(8) if the quantity of the waste exceeds the following quantity exclusion limits:</p> <p>(a) For toxic dangerous wastes designated as EHW (WT01), the quantity exclusion limit is 2.2 lbs. per month. NOTE: To be designated as EHW (WT01) toxic dangerous wastes must be generated above a specified quantity, which varies dependent upon the degree of toxicity, and which may be greater than 2.2 lbs.</p> <p>(b) For all other wastes designating under this section the quantity exclusion limit is 220 lbs. (100 kg) per month or per batch.</p>	WHC-EP-0063-4 Sec. 6.2
WAC 173-303-100	Except as provided in WAC 173-303-070 (4) or (5), a person shall determine if a solid waste meets the toxicity criteria under this section by following either the instructions for book designation, when his knowledge of the waste is sufficient, or by testing the waste using the biological testing methods adopted under WAC 173-303-110(3).	WHC-EP-0063-4 Sec. 6.2

REG SECTION #	REQUIREMENT	DOCUMENT SECTION
WASHINGTON STATE REGULATIONS		
WAC 173-303-100	Book designation procedure (if used to determine meeting toxicity criteria). A person shall determine the toxic category for each known constituent. The toxic category for each constituent may be determined from available data, or by obtaining data from the NIOSH RTECS and checking this data against the toxic category table, below. If data is available for more than one of the four toxicity criteria (aquatic, oral, inhalation, or dermal), then the data indicating severest toxicity shall be used, and the most acutely toxic category shall be assigned to the constituent. If the NIOSH RTECS or other data sources do not agree on the same category, then the category arrived at using the NIOSH RTECS will be used to determine the toxic category. If toxicity data for a constituent cannot be found in the NIOSH RTECS, or other source reasonable available to a person, then the toxic category need not be determined for that constituent.	WHC-EP-0063-4 Sec. 6.2
WAC 173-303-100	<p>[Book designation procedure (if used to determine meeting toxicity criteria)]. A person whose waste contains one or more toxic constituents shall determine the equivalent concentration for the waste from the following formula:</p> $\text{Equivalent Concentration (\%)} = \frac{\Sigma X\%}{10} + \frac{\Sigma B\%}{100} + \frac{\Sigma C\%}{1000} + \frac{\Sigma D\%}{10,000}$ <p>where $\Sigma(X,A,B,C, \text{ or } D)\%$ is the sum of all the concentration percentages for a particular toxic category.</p>	WHC-EP-0063-4 Sec. 6.2

REG SECTION #	REQUIREMENT	DOCUMENT SECTION
WASHINGTON STATE REGULATIONS		
WAC 173-303-100	[Book designation procedure (if used to determine meeting toxicity criteria)]. A person whose waste contains toxic constituents shall determine it designation from the toxic dangerous waste graph in WAC 173-303-9906 by finding the equivalent concentration percentage for the waste along the abscissa, finding the total waste quantity along the ordinate, and plotting the point on the graph where the horizontal line drawn from the total waste quantity intersects the vertical line drawn from the waste's equivalent concentration. If the plotted point is in the area marked DW, the person shall designate the waste as DW, and shall assign the dangerous waste number WT02; if the plotted point is in the area marked EHW, the person shall designate the waste as EHW, and shall assign the dangerous waste number of WT01.	WHC-EP-0063-4 Sec. 6.2
WAC 173-303-100	Designation from bioassay data (if used to determine meeting toxicity criteria). A person shall establish the toxicity category range (D category toxicity, or C category or greater toxicity) of a waste by means of the biological testing methods (bioassay) adopted under WAC 173-303-110(3).	WHC-EP-0063-4 Sec. 6.2

REG SECTION #	REQUIREMENT	DOCUMENT SECTION
WASHINGTON STATE REGULATIONS		
WAC 173-303-100	[Designation from bioassay data (if used to determine meeting toxicity criteria)]. A person shall designate a waste according to the toxic dangerous waste designation table below (see table for Toxic Dangerous Waste Designation in WAC 173-303-100).	WHC-EP-0063-4 Sec. 6.2
WAC 173-303-100	If the (toxicity) designation acquired from book designation and bioassay data do not agree, then bioassay data will be used to designate a waste.	WHC-EP-0063-4 Sec. 6.2
WAC 173-303-100	A waste designated as DW by toxicity criteria shall be assigned the dangerous waste number of WT02.	WHC-EP-0063-4 Sec. 6.2
WAC 173-303-100	A waste designated as EHW by toxicity criteria shall be assigned the dangerous waste number of WT01.	WHC-EP-0063-4 Sec. 6.2
WAC 173-303-100	When a waste contains one or more halogenated hydrocarbons (HH) for which the concentrations are known, the total halogenated hydrocarbon concentration shall be determined by summing the concentration percentages for all of the halogenated hydrocarbons for which the concentrations are known.	WHC-EP-0063-4 Sec. 6.2
WAC 173-303-100	A person whose waste contains one or more polycyclic aromatic hydrocarbons (PAH) with more than three rings and less than seven rings for which the concentrations are known shall determine the total polycyclic aromatic hydrocarbon concentration by summing the concentration percentages for all of those polycyclic aromatic hydrocarbons with more than three rings and less than seven rings about which he knows the concentration in the waste.	WHC-EP-0063-4 Sec. 6.2

REG SECTION #	REQUIREMENT	DOCUMENT SECTION
WASHINGTON STATE REGULATIONS		
WAC 173-303-100	A person whose waste contains halogenated hydrocarbons and/or polycyclic aromatic hydrocarbons shall determine its designation from the persistent dangerous waste table or persistent dangerous waste criteria graph WAC 173-303-9907.	WHC-EP-0063-4 Sec. 6.2
WAC 173-303-104	A waste which exhibits any of the dangerous waste characteristics, WAC 173-303-090, shall be assigned the dangerous waste number corresponding to the characteristic(s) exhibited by the waste.	WHC-EP-0063-4 Sec. 6.2
WAC 173-303-104	The following table (see Generic Dangerous Waste Numbers Table in WAC 173-303-104) shall be used for assigning dangerous waste numbers to wastes designated by the dangerous waste criteria or by WAC 173-303-084.	WHC-EP-0063-4 Sec. 6.2
WAC 173-303-140	The land disposal restrictions of this section apply to any person who owns or operates a dangerous waste treatment, storage, or disposal facility in Washington state and to any person who generates or transports dangerous waste.	WHC-EP-0063-4 Chapter 8
WAC 173-303-140	Land disposal restrictions for wastes designated in accordance with WAC 173-303-070 (3)(a)(i), (ii), and (iii) shall be the restrictions set forth by the Environmental Protection Agency in 40 CFR Part 268 which are incorporated by reference into this regulation and the restrictions set forth in subsections (3) through (7) of this section. The exemption and exception provisions of subsections (3) through (7) are not applicable to the federal land disposal restrictions.	WHC-EP-0063-4 Chapter 8
WAC 173-303-140	Land disposal restrictions for state-only dangerous waste shall be the restrictions set forth in subsections (3) through (7) of this section.	WHC-EP-0063-4 Chapter 8
WAC 173-303-140	Disposal of extremely hazardous waste (EHW). No person shall land dispose of EHW, except as provided in subsection (5) of this section, at any land disposal facility in the state.	WHC-EP-0063-4 Chapter 8

REG SECTION #	REQUIREMENT	DOCUMENT SECTION
WASHINGTON STATE REGULATIONS		
WAC 173-303-140	No person shall land dispose of EHW at the facility established under RCW 70.105.050, except as provided by subsections (5), (6), and (7) of this section.	WHC-EP-0063-4 Chapter 8
WAC 173-303-140	Bulk or noncontainerized liquid waste or waste containing free liquids must not be placed in a landfill unless, before disposal, the liquid waste or waste containing free liquids is treated so that free liquids are no longer present.	WHC-EP-0063-4 Chapter 8
WAC 173-303-140	Containers holding free liquids must not be placed in a landfill unless: (A) All free-standing liquid: (I) Has been removed by decanting, or other methods; or (II) Has been mixed with absorbent or stabilized (solidified) so that free-standing liquid is no longer observed; or (III) Has been otherwise eliminated; or (B) The container is very small, such as an ampule; or (C) The container is a lab pack and is disposed of in accordance with WAC 173-303-161 and this chapter.	WHC-EP-0063-4 Chapter 8
WAC 173-303-140	To demonstrate the absence or presence of free liquids in either a containerized or a bulk waste, the following tests must be used: Method 9095 (Paint Filter Liquids Test) as described in Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods. (EPA Publication No. SW-846.)	WHC-EP-0063-4 Chapter 8
WAC 173-303-140	No person shall land dispose solid acid waste, except as provided in subsections (5), (6), or (7) of this section.	WHC-EP-0063-4 Chapter 8
WAC 173-303-140	No person shall land dispose organic/carbonaceous waste, except as provided in subsections (5), (6), or (7) of this section.	WHC-EP-0063-4 Chapter 8
WAC 173-303-170	The generator must comply with the special land disposal restrictions for certain dangerous wastes in WAC 173-303-140.	WHC-EP-0063-4 Chapter 8

REG SECTION #	REQUIREMENT	DOCUMENT SECTION
WASHINGTON STATE REGULATIONS		
WAC 173-303-280	The owner or operator must comply with the special land disposal restrictions for certain dangerous wastes in WAC 173-303-140.	WHC-EP-0063-4 Chapter 8
WAC 173-303-300	The owner or operator shall obtain a detailed chemical, physical, and/or biological analysis of a dangerous waste, or nondangerous wastes if applicable under WAC 173-303-610 (4)(d), before he stores, treats, or disposes of it. This analysis must contain the information necessary to manage the waste in accordance with the requirements of this chapter 173-303 WAC.	WHC-SD-WM-EV-096
WAC 173-303-300	<p>Analysis shall be repeated as necessary to ensure that it is accurate and current. At a minimum, analysis must be repeated:</p> <ul style="list-style-type: none"> (a) When the owner or operator has been notified, or has reason to believe, that the process or operation generating the dangerous waste, or nondangerous wastes if applicable under WAC 173-303-610 (4)(d), has significantly changed; and (b) When a dangerous waste received at an off-site facility does not match the identity of the waste specified on the manifest or the shipping paper. 	WHC-SD-WM-EV-096

REG SECTION #	REQUIREMENT	DOCUMENT SECTION
WASHINGTON STATE REGULATIONS		
WAC 173-303-300	<p>Waste analysis plan. The owner or operator shall develop and follow a written waste analysis plan which describes the procedures he will use to comply with the waste analysis requirements of sub-section (1), (2), (3), and (4) of this section. He must keep this plan at the facility, and the plan must contain at least:</p> <ul style="list-style-type: none"> (a) The parameters for which each dangerous waste, or nondangerous waste if applicable under WAC 173-303-610 (4)(d), will be analyzed, and the rationale for selecting these parameters; (b) The methods of obtaining or testing for these parameters; (c) The methods for obtaining representative samples of wastes for analysis (representative sampling methods are discussed in WAC 173-303-110(2)); (d) The frequency with which analysis of a waste will be reviewed or repeated to ensure that the analysis is accurate and current; (e) The waste analyses which generators have agreed to supply; (f) Where applicable, the methods for meeting the additional waste analysis requirements for specific waste management methods as specified in 40 CFR Part 265 Subparts F through R for interim status facilities and in WAC 173-303-395(1) and in WAC 173-303-630 through 173-303-670 for final status facilities; and (g) For off-site facilities, the procedures for confirming that each dangerous waste received matches the identity of the waste specified on the accompanying manifest or shipping paper. This includes at least: <ul style="list-style-type: none"> (i) The procedures for identifying each waste movement at the facility; and (ii) The method for obtaining a representative sample of the waste to be identified, if the identification method includes sampling. 	WHC-SD-WM-EV-096

REG SECTION #	REQUIREMENT	DOCUMENT SECTION
WASHINGTON STATE REGULATIONS		
WAC 173-303-310	The owner or operator shall comply with the requirements as described to provide security of the facility to prevent: contact with the waste by personnel and live stock, post signs in sufficient numbers, maintain 24 hour surveillance or provide a barrier.	WHC-CM-1-6, HSRCM-1
WAC 173-303-320	The owner or operator shall inspect his facility as required.	Operating Procedure SW-040-052
WAC 173-303-330	The owner and operator shall provide a program of classroom training.	Training Course 300025

REG SECTION #	REQUIREMENT	DOCUMENT SECTION
WASHINGTON STATE REGULATIONS		
WAC 173-303-340	Facilities shall be designed, constructed, maintained and operated to minimize the possibility of fire, explosion, or any unplanned sudden or nonsudden release of dangerous waste or dangerous waste constituents to air, soil, or surface or ground water which could threaten the public health or the environment.	Design-Project W-025 Operate - SW-020-015
WAC 173-303-350	Contingency plan and emergency procedures.	WHC-IP-0263-BG DOE/RL 93-75
WAC 173-303-380	Facility recordkeeping.	WHC-EP-0063-4, Solid Waste Information and Tracking System, WHC-CM-5-34
WAC 173-303-600	The owner or operator must comply with the special land disposal restrictions for certain dangerous wastes in WAC 173-303-140.	WHC-EP-0063-4 Chapter 8
WAC 173-303-640	The owner and operator of facilities that use tank systems to treat or store dangerous waste must comply with requirements.	SW-020-015 SW-040-052 SW-080-010
WAC 173-303-646	The owner or operator of a facility must institute corrective action as necessary to protect human health and the environment for all releases of dangerous wastes and dangerous constituents, including releases from all solid waste management units at the facility.	WHC-SD-W025-AP-001
WAC 173-340-360	All cleanup actions conducted under this chapter shall protect human health and the environment; shall comply with cleanup standards (see WAC 173-340-700 through 173-340-760); shall comply with applicable state and federal laws (see WAC 173-340-710); and shall provide for compliance monitoring (see WAC 173-340-410).	WHC-SD-W025-AP-001

REG SECTION #	REQUIREMENT	DOCUMENT SECTION
CODE OF FEDERAL REGULATIONS		
10 CFR 61.55(a)(3)	If radioactive waste contains only (long-lived) radionuclides listed in Table 1, classification of the waste shall be determined (as shown in this section). (NOTE: This includes a limit for near-surface disposal of < 100 nanocuries/gm of "alpha emitting transuranic nuclides with half-life greater than 5 years").	WHC-EP-0063-4 Sec. 4
10 CFR 61.55(a)(4)	If radioactive waste does not contain any of the (long-lived) radionuclides listed in Table 1, classification of the waste shall be determined (as shown in this section). (NOTE: This includes limits for Sr-90 and Cs-137).	WHC-EP-0063-4 Sec. 3
10 CFR 61.55(a)(5)	If radioactive waste contains a mixture of (long-lived and short-lived) radionuclides listed in Table 1, classification of the waste shall be determined (as shown in this section).	WHC-EP-0063-4 Sec. 3
10 CFR 61.55(a)(6)	If radioactive waste does not contain any nuclides listed in Table 1 or Table 2, it is Class A.	WHC-EP-0063-4 Sec. 3
10 CFR 835.1101(a)	In radiological areas established to control surface or airborne radioactive material, material and equipment shall be treated as radioactive and shall not be released to controlled areas if either: (1) Measurements of accessible surfaces show that either the total or removable contamination levels exceed those specified in Appendix D; or (2) Prior use suggests that the contamination levels on inaccessible surfaces are likely to exceed those specified in Appendix D.	WHC-CM-1-6 Sec. 4
29 CFR 1910.96(k)	No employer shall dispose of radioactive material except by transfer to an authorized recipient, or in a manner approved by the Nuclear Regulatory Commission or a State named in paragraph (p)(3) of this section [1910.96(k)].	WHC-EP-0063-4 Sec. 1

REG SECTION #	REQUIREMENT	DOCUMENT SECTION
CODE OF FEDERAL REGULATIONS		
40 CFR 261.20(b)	Each hazardous waste listed in this subpart is assigned an EPA Hazardous Waste Number which precedes the name of the waste. This number must be used in complying with the notification requirements of section 3001 and all applicable reporting and recordkeeping requirements under parts 262 through 265, 268, and 270 of this chapter.	WHC-EP-0063-4 Sec. 4
40 CFR 264.13(a)(1)	Before an owner or operator of a hazardous waste treatment, storage, disposal facility treats, stores, or disposes of any hazardous waste he must obtain a detailed chemical and physical analysis of a representative sample of the waste.	WHC-EP-0063-4 Sec. 4
40 CFR 264.13(b)	The owner or operator of a hazardous waste treatment, storage, or disposal facility must develop and follow a written waste analysis plan.	WHC-SD-WM-EV-096
40 CFR 264.31	Hazardous waste treatment, storage, or disposal facilities must be designed, constructed, maintained, and operated to minimize the possibility of a fire, explosion, or any unplanned sudden or nonsudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water which could threaten human health or the environment.	Design-Project W025 Operate - SW-020-015
40 CFR 264.312 and 264.313	(Ignitable or reactive wastes and incompatible wastes and materials must not be placed in a landfill on a hazardous waste treatment, storage or disposal facility unless the requirements of paragraphs 261.21, 261.23, 264.176, 264.312, and 264.316 are met).	WHC-EP-0063-4 Sec. 4

REG SECTION #	REQUIREMENT	DOCUMENT SECTION
CODE OF FEDERAL REGULATIONS		
40 CFR 264.314(c), 264.315, and 264.316	(Containers holding liquids, containers in general, and "lab packs" shall be placed in landfills only as regulated by these sections.)	WHC-EP-0063-4 Sec. 4
40 CFR 265.13(a)	Before an owner or operator of a hazardous waste treatment, storage or disposal facility treats, stores, or disposes of any hazardous waste he must obtain a detailed chemical and physical analysis of a representative sample of the waste.	WHC-EP-0063-4 Sec. 4
40 CFR 265.312(a)	The owner or operator of a hazardous waste treatment, storage or disposal facility with a landfill must not place ignitable reactive or incompatible wastes in the landfill unless they meet the requirements of Sections 265.312, 265.313 and 265.17(b).	WHC-EP-0063-4 Sec. 4
40 CFR 265.314(c)	Hazardous waste treatment, storage, or disposal facilities must not place containers holding free liquids into any landfill unless the requirements of Sections 265.314(c)1-4 are complied with.	WHC-EP-0063-4 Sec. 4

REG SECTION #	REQUIREMENT	DOCUMENT SECTION
CODE OF FEDERAL REGULATIONS		
40 CFR 761.60(a)(3)	<p>Liquids, other than mineral oil dielectric fluid, containing a PCB concentration of 50 ppm or greater, but less than 500 ppm, shall be disposed of:</p> <ul style="list-style-type: none"> - In an incinerator which complies with Section 761.70; - In a chemical waste landfill which complies with Section 761.75; - In a high efficiency boiler provided that (the provision of Section 761.60 (a)(3)(iii) are satisfied; or - In a facility that is approved in accordance with Section 761.60(e). 	WHC-EP-0063-4 Sec. 8
40 CFR 761.60(a)(4)	<p>Any non-liquid PCBs at concentrations of 50 ppm or greater in the form of contaminated soil, rags, or other debris shall be disposed of:</p> <ul style="list-style-type: none"> - In an incinerator which complies with Section 761.70; or - In a chemical waste landfill which complies with Section 761.75. 	WHC-EP-0063-4 Sec. 8
40 CFR 761.60(b)(1)	<p>PCB Transformers shall be disposed of in accordance with either of the following:</p> <ul style="list-style-type: none"> - In an incinerator that complies with Section 761.70; or - In a chemical waste landfill which complies with Section 761.75; Provided, that the transformer is first drained of all free flowing liquid, filled with solvent, allowed to stand for at least 18 hours, and then drained thoroughly. PCB liquids that are removed shall be disposed of in accordance with paragraph (a) of this section (761.60). 	WHC-EP-0063-4 Sec. 8
40 CFR 761.60(b)(2)	<p>The disposal of any capacitor shall comply with all requirements of this subpart (D) unless it is known from label or nameplate information, manufacturer's literature (including documented communications with the manufacturer), or chemical analysis that the capacitor does not contain PCBs.</p>	WHC-EP-0063-4 Sec. 8

REG SECTION #	REQUIREMENT	DOCUMENT SECTION
CODE OF FEDERAL REGULATIONS		
40 CFR 761.60(b)(2)	Prior to disposal in a Section 761.75 chemical waste landfill, all large PCB capacitors, and all small PCB capacitors described in paragraph (b)(2)(iv) of this section, (761.60) shall be placed in one of the Department of Transportation specification containers identified in Section 761.65(c)(6) or in containers that comply with 49 CFR 178.118 (specification 17H containers).	WHC-EP-0063-4 Sec. 8
40 CFR 761.60(b)(2)	Large PCB capacitors which are too big t fit inside the Department of Transportation specification containers identified in Section 761.65(c)(6) or in containers that comply with 49 CFR 178.118 (specification 17H containers) shall be placed in a container with strength and durability equivalent to the DOT specification containers. In all cases, interstitial space in the container shall be filled with sufficient absorbent material (such as sawdust or soil) to absorb any liquid PCBs remaining in the capacitors.	WHC-EP-0063-4 Sec. 8
40 CFR 761.60(b)(5)	PCB articles with concentrations at 500 ppm or greater must be disposed of: <ul style="list-style-type: none"> - In an incinerator that complies with Section 761.70; or - In a chemical waste landfill which complies with Section 761.75; Provided, that all free-flowing liquid PCBs have been thoroughly drained from any articles before the articles are placed in the chemical waste landfill and that the drained liquids are disposed of in an incinerator that complies with Section 761.70. PCB Articles with a PCB concentration between 50 and 500 ppm must be disposed of by draining all free flowing liquid from the article and disposing of the liquid in accordance with paragraph (a)(2) or (3) of this section (761.60). 	WHC-EP-0063-4 Sec. 8

REG SECTION #	REQUIREMENT	DOCUMENT SECTION
CODE OF FEDERAL REGULATIONS		
40 CFR 761.60(c)(1)	<p>Unless decontaminated in compliance with Section 761.79 or as provided in paragraph (c)(2) of this section (761.60), a PCB container with PCB concentrations at 500 ppm or greater shall be disposed of:</p> <ul style="list-style-type: none"> - In an incinerator which complies with Section 761.70; or - In a chemical waste landfill that complies with Section 761.75, provided that if there are PCBs in a liquid state, the PCB Container shall first be drained and the PCB liquid disposed of in accordance with paragraph (a) of this section. 	WHC-EP-0063-4 Sec. 8
40 CFR 761.60(d)(2)	PCBs resulting from the clean-up and removal of spills, leaks, or other uncontrolled discharges, must be stored and disposed of in accordance with paragraph (a) of this section (761.60).	WHC-EP-0063-4 Sec. 8

REG SECTION #	REQUIREMENT	DOCUMENT SECTION
DEPARTMENT OF ENERGY ORDERS		
[DOE 1324.2A, Pg. V-5]	Standards, operating guides, and procedures, including revisions and background records which establish or relate to establishing operating practices relating to the exposure of personnel to hazardous concentrations of toxic chemicals and other materials (excluding radionuclides) (shall) be permanently kept and will be given to the National Archives and Records Administration (NARA) after 25 years.	Records Inventory & Disposition Schedule
[DOE 1324.2A, Pg. V-5]	Industrial hygiene log sheets recording surveys for industrial hazards, other than radiation and contamination, that indicate no industrial hazard (shall) be destroyed when 75 years old.	Records Inventory & Disposition Schedule
[DOE 1324.2A, Pg V-5]	Industrial hygiene log sheets recording surveys for industrial hazards, other than radiation and contamination, that indicates a potential industrial hazard (shall) be retained until the related facility is dismantled.	Records Inventory & Disposition Schedule
[DOE 1324.2A, Pg. V-6]	Historical file of standards, guides, and procedures, including revisions, and background records defining philosophy in development, methods of evaluation, and mode and scope of radiation-contamination protection efforts (shall) be permanently kept and will be offered to the National Archive and Record Administration (NARA) when they are 25 years old.	Records Inventory & Disposition Schedule
[DOE 1324,2A, Pg. V-6]	Detailed plans for specific jobs performed within the scope of the radiation-contamination protection program and similar records relating to routine daily operations (shall) be destroyed when they have served their purpose or when 1 year has passed, whichever is earlier.	Records Inventory & Disposition Schedule
[DOE 1324.2A, Pg V-53]	Hazardous material (radioactive and fissile material) shipping and packaging records (shall) be destroyed 5 years after certificate of compliance has been terminated unless information is received indicating that renewed use is definitely anticipated.	Records Inventory & Disposition Schedule

REG SECTION #	REQUIREMENT	DOCUMENT SECTION
DEPARTMENT OF ENERGY ORDERS		
[DOE 1324.2A, Pg. V-63]	Quality assurance records which would be of significant value in demonstrating capabilities for an item (shall) be retained until the item is removed from service.	Records Inventory & Disposition Schedule
[DOE 1324.2A, Pg. V-63]	Quality assurance records prepared for an item that is maintained in compliance with regulatory requirements (shall) be retained in accordance with current regulatory requirements or, for nuclear facilities, 6 years after plant item is put into operation.	Records Inventory & Disposition Schedule
[DOE 5400.1, Pg. IV-11]	The following environmental monitoring requirements apply: (1) those contained in Department of Energy (DOE) orders in the 5400 series dealing with radiation protection of the public and the environment, and DOE 5820.2; and (2) those specified by applicable Federal, State, or local regulations.	WHC-CM-1-6
[DOE 5400.1, Pg.IV-10]	<p>A quality assurance program consistent with DOE 5700.6B shall be established covering each element of environmental monitoring and surveillance programs commensurate with its nature and complexity. The quality assurance program shall include, but not be limited to, the following:</p> <ul style="list-style-type: none"> (1) Organizational responsibility; (2) Program design; (3) Procedures; (4) Field quality control; (5) Laboratory quality control; (6) Human factors; (7) Recordkeeping; (8) Chain-of-custody procedures; (9) Audits; (10) Performance reporting; and (11) Independent data verification. 	WHC-CM-4-2

REG SECTION #	REQUIREMENT	DOCUMENT SECTION
DEPARTMENT OF ENERGY ORDERS		
[DOE 5480.11 Chg. 3, Pg.10]	Plans and programs used to assure that occupational radiation exposures are maintained As Low As Reasonably Achievable (ALARA) shall be documented.	WHC-CM-4-11
[DOE 5480.11 Chg. 3, Pg. 10]	The exposure of an occupational worker to radiation resulting from routine DOE activities shall not exceed the limiting values for assessed dose specified in Figure 1 of this Order.	WHC-CM-1-6
[DOE 5480.11 Chg. 3, Pg.12]	The effective dose equivalent received by any member of the public resulting from exposure during direct on-site access at a DOE facility shall not exceed a limiting value of 0.1 rem (0.001 sievert) per year from the committed effective dose equivalent from internal irradiation plus the effective dose equivalent from any external irradiation. In addition, exposures shall not cause a dose equivalent to any tissue (including the skin and the lens of the eye) to exceed 5 rem (0.05 sievert) per year for any member of the public.	WHC-CM-1-6
[DOE 5480.11 Chg. 3, Pg. 19]	Material and equipment in radiological areas established to control surface or airborne radioactive material shall be treated as radioactive material and shall not be released from radiological areas to controlled areas if any of the (guides in Attachment 2 of this Order (5480.11) are exceeded).	WHC-CM-1-6
[DOE 5480.11 Chg. 3, Pg. 21]	Radioactive material and/or its container shall be individually labeled where normal posting of the area and control of the material would not provide adequate protection. The design of signs, labels, and the radioactive symbol shall conform to ANSI N12.1-1971 and ANSI N2.1-1971. The background color is to be yellow; the symbol color may be black or magenta.	WHC-CM-1-6

REG SECTION #	REQUIREMENT	DOCUMENT SECTION
DEPARTMENT OF ENERGY ORDERS		
[DOE 5700.6C, Pg. 7]	DOE/FO and management and operating contractors management at all levels shall periodically assess the integrated quality assurance program and its performance. Problems that hinder the organization from achieving its objectives shall be identified and corrected.	WHC-CM-4-2
[DOE 5700.6C, Pg. 7]	Planned and periodic independent assessments shall be conducted to measure item quality and process effectiveness and to promote improvement. DOE/FO and management and operating contractors performing independent assessments shall have sufficient authority and freedom from the line organization to carry out its responsibilities. Persons conducting independent assessments shall be technically qualified and knowledgeable in the areas assessed.	WHC-CM-4-2
[DOE 5820.2A, Pg. II-2]	Radioactive wastes with quantities of transuranic radionuclides in concentrations of 100 nCi/g of waste or less shall be considered to be low-level waste, and shall be managed according to the requirements of Chapter III of this Order.	WHC-EP-0063-4 Sec. 4
[DOE 5820.2A, Pg. III-1]	Assure that external exposure to the low-level waste and concentrations of radioactive material which may be released into surface water, ground water, soil, plants and animals results in an effective dose equivalent that does not exceed 25mrem/yr to any member of the public. Releases to the atmosphere shall meet the requirement of 40 CFR 61. Reasonable effort should be made to maintain releases of radioactivity in effluent to the general environment as low as is reasonably achievable.	WHC-CM-4-11

REG SECTION #	REQUIREMENT	DOCUMENT SECTION
DEPARTMENT OF ENERGY ORDERS		
[DOE 5820.2A, Pg. III-3]	Low-level waste shall be characterized with sufficient accuracy to permit proper separation, treatment, storage, and disposal. This characterization shall ensure that, upon generation and after processing, the actual physical and chemical characteristics and major radionuclide content are recorded and known during all stages of the waste management process.	WHC-EP-0063-4 Sec. 4
[DOE 5820.2A, Pg. III-3]	<p>Waste characterization for low-level waste data shall be recorded on a waste manifest, as required by paragraph 3m, and shall include:</p> <ul style="list-style-type: none"> (a) The physical and chemical characteristics of the waste. (b) Volume of the waste (total of waste and any solidification or absorbent media). (c) Weight of the waste (total of waste and any solidification or absorbent media). (d) Major radionuclides and their concentrations. (e) Packaging date, package weight, and external volume. 	WHC-EP-0063-4 Sec. 4
[DOE 5820.2A, Pg. III-3]	The concentration of a radionuclide in low-level waste may be determined by direct methods or by indirect methods such as use of scaling factors which relate 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 measurements.	WHC-EP-0063-4 Sec. 4
[DOE 5820.2A, Pg. III-3]	Low-level waste shipped from one field organization to another for treatment, storage or disposal shall be done in accordance with the requirements established by the operations office having responsibility for operations of the receiving facility.	WHC-EP-0063-4 Sec. 3
[DOE 5820.2A, Pg. III-3]	Waste acceptance criteria shall be established for each low-level waste treatment, storage, and disposal facility, and submitted to the cognizant field organization.	WHC-EP-0063-4 Sec. 3

REG SECTION #	REQUIREMENT	DOCUMENT SECTION
DEPARTMENT OF ENERGY ORDERS		
[DOE 5820.2A, Pg. III-3]	Generators of waste shall implement a low-level waste certification program to provide assurance that the waste acceptance criteria for any low-level waste treatment, storage, or disposal facility used by the generator are met. Generators and facilities receiving the waste are jointly responsible for assuring compliance with waste acceptance criteria. Generators are financially responsible for actions required due to nonconformance.	WHC-EP-0063-4 Sec. 3
[DOE 5820.2A, Pg. III-4]	Generator low-level waste certification programs shall be subject to a periodic audit by operators of facilities to which the waste is sent by the generator.	WHC-EP-0063-4 Sec. 3
[DOE 5820.2A, Pg. II-4]	<p>The waste acceptance criteria for storage, treatment, or disposal facilities shall address the following issues:</p> <ul style="list-style-type: none"> (a) Allowable quantities/concentration of specific radioisotopes to be handled, processed, or disposed of; (b) Criticality safety requirements (waste forms and geometries; (c) Restrictions regarding low-level waste classified for security reasons; (d) External radiation and internal heat generation; (e) Restrictions on the generation of harmful gases, vapors, or liquids in waste; (f) Chemical and structural stability of waste packages radiation effects, microbial activity, chemical reactions, and moisture; (g) Restrictions for chelating and complexing agents having the potential for mobilizing radionuclides, and, (h) Quantity of free liquids. 	WHC-EP-0063-4 Sec. 3, 4, 5
[DOE 5820.2A, Pg. II-4]	Low-level waste shall be treated by appropriate methods so that the disposal site can meet the performance objectives stated in paragraph 3a of this order.	WHC-EP-0063-4 Sec. 3, 4, 5

REG SECTION #	REQUIREMENT	DOCUMENT SECTION
DEPARTMENT OF ENERGY ORDERS		
[DOE 5820.2A, Pg. III-5]	Generators of low-level waste must receive advance approval from the receiving facility and shall certify prior to shipment that waste meets the receiving facility waste acceptance criteria.	WHC-EP-0063-4 Sec. 2
[DOE 5820.2A, Pg. III-5]	The certification program for low-level waste shall be auditable and able to withstand independent review.	WHC-EP-0063-4 Sec. 4
[DOE 5820.2A, Pg. III-5]	Each package of low-level waste must comply with the labeling requirements of DOE 1540.1.	WHC-EP-0063-4 Sec. 1
[DOE 5820.2A, Pg. III-7]	Low-level liquid wastes, or wastes containing free liquid, must be converted into a form that contains as little freestanding and noncorrosive liquid as is reasonably achievable, but, in no case, shall the liquid exceed 1 percent of the volume of the waste when the waste is in a disposal container, or 0.5 percent of the volume of the waste processed to a stable form.	WHC-EP-0063-4 Sec. 3
[DOE 5820.2A, Pg. III-7]	Low-level waste must not be readily capable of detonation or of explosive decomposition or reaction at normal pressure and temperatures, or of explosive reaction with water.	WHC-EP-0063-4 Sec. 3
[DOE 5820.2A, Pg. III-7]	Low-level waste must not contain, or be capable of generating, quantities of toxic gases, vapors, or fumes harmful to persons transporting, handling or disposing of the waste. This does not apply to radioactive gaseous waste packaged as identified in paragraph 3 (5)(e).	WHC-EP-0063-4 Sec. 3

REG SECTION #	REQUIREMENT	DOCUMENT SECTION
DEPARTMENT OF ENERGY ORDERS		
[DOE 5820.2A, Pg. III-7]	Low-level waste must not be pyrophoric. Pyrophoric materials contained in waste shall be treated, prepared, and packaged to be nonflammable.	WHC-EP-0063-4 Sec. 3
[DOE 5820.2A, Pg. III-8]	Waste placement into low-level waste disposal units should minimize voids between containers.	SW-100-171
[DOE 5820.2A, Pg. III-10]	Each field organization for low-level waste disposal facilities shall develop and maintain a record keeping system that records the following: a historical record of waste generated, treated, stored, shipped, disposed of, or both, at the facilities under its cognizance.	SWITS
[DOE 5820.2A, Pg. III-10]	The data maintained for low-level waste disposal facilities shall include all data necessary to show that the waste was properly classified, treated, stored, shipped, and/or disposed of. The data maintained in the system shall be based on the data recorded on waste manifests.	SWITS
[DOE 5820.2A, Pg. III-10]	Records shall be kept and accompany each low-level waste package from generator through final disposal.	SWITS

REG SECTION #	REQUIREMENT	DOCUMENT SECTION
MISCELLANEOUS DOCUMENTS		
SDC 1.3	Preparation and control of engineering and fabrication drawings.	WHC-IP-1026 Sec. EPG-2
SDC 4.1	Design loads for facilities.	WHC-IP-1026 Sec. EPG-4