APPENDIX B

EVALUATION UNIT DISPOSITION TABLE

Appendix B: Evaluation Unit Disposition Table

Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
RC-LS-1 (Interim)	618-11 Burial Ground	300-FF-2	DOE/RL-2013-02 Table A-1 ROD (Final, 2013)	Record of Decision for 300-FF-2 and 300-FF-5, and Record of Decision Amendment for 300-FF-1 The major components of the selected remedy for the 300-FF-2 OU are: - Remove, Treat and Dispose (RTD) at waste sites - Temporary surface barriers - Institutional Controls (ICs)
RC-LS-2 (Interim)	K Area Waste Sites: legacy waste sites within the fence at 100-K, where remediation is post 2015	100-KR-1	DOE/RL-2013-02 Table A-1	ROD (Interim Action): Interim Action Record of Decision for the 100-BC-1, 100-BC-2, 100-DR-1, 100-DR-2, 100-FR-1, 100-FR-2, 100-HR-1, 100-HR-2, 100-KR-1, 100-KR-2, 100-IU-2, 100-IU-6, and 200-CW-3 Operable Units: (EPA/ROD/R10-99/039) *Remove Treat Dispose for 46 sites; disposal of debris from B, D, H, and K reactors to ERDF; provides decision framework for leaving waste in place, generally below 15-ft depth.*
		100-KR-2	DOE/RL-2013-02 Table A-1	ROD (Interim Action): Interim Action Record of Decision for the 100-BC-1, 100-BC-2, 100-DR-1, 100-DR-2, 100-FR-1, 100-FR-2, 100-HR-1, 100-HR-2, 100-KR-1, 100-KR-2, 100-IU-2, 100-IU-6, and 200-CW-3 Operable Units: (EPA/ROD/R10-99/039) *Remove Treat Dispose for 46 sites; disposal of debris from B, D, H, and K reactors to ERDF; provides decision framework for leaving waste in place, generally below 15-ft depth.*
			DOE/RL-2013-02 Table A-1	Declaration of the Record of Decision for the 100-BC-1, 100-BC-2, 100-DR-1, 100-DR-2, 100-FR-2, 100-HR-2 and the 100-KR-2 Operable Units (EPA/ROD/R10-00/121) Remove contaminated soil, structures, and debris; treat as needed; dispose at ERDF; backfill and revegetate.
RC-LS-3 (Final)	Pre-Hanford Orchard Lands	100-OL-1	DOE/RL-2014-11 Table 1-3 Table B-1	**Future Cleanup Actions for which Final Decisions Have Not Been Made.** Disposition 100 Area former Orchard Contaminated Soil Sites (100-OL-1 OU)
			Tentative Agreement on Hanford FFACO, Revisions for Central Plateau Cleanup*	No cleanup decisions are available. Revisions to TPA M-015-95 establishes the proposed date (08/31/2018) for submittal of the 100-OL-1 Remedial Investigations and a change request to establish a date for the feasibility study report to EPA and Ecology. * Available at: http://pdw.hanford.gov/arpir/index.cfm/viewDoc?accession=0079726H

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Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
RC-LS-4 (Final)	618-10 Burial Ground	300-FF-2	DOE/RL-2014-11 Table A-1 ROD (Final)	**Record of Decision** for 300-FF-2 and 300-FF-5, and Record of Decision Amendment for 300-FF-1(FINAL) [Hanford Administrative Record Accession Number: 0087180, 2013] The major components of the selected remedy for the 300-FF-2 OU are: - Remove, Treat and Dispose (RTD) at waste sites - Temporary surface barriers - Institutional Controls (ICs)
CP-LS-1 (Interim)	BC Cribs and Trenches: cribs, trenches and tank located to the south of the 200 E Area	200-BC-1 (Note: Utilized 200-WA-1)	DOE/RL-2010-49, DRAFT A	These sites are covered under DOE/RL-2000-38, 200-TW-1 Scavenged Waste Group Operable Unit and 200-TW-2 Tank Waste Group Operable Unit RI/FS Work Plan, but are included in this work plan for consistency in information collection and storage. These sites will also be covered in the 200-WA-1 FS.
			DOE/RL-2013-02 Table B-3 CP-15	**CP-15 – Remediate Remaining 200 West Inner Area Contaminated Soil Sites (200-WA-1 OU)** Cleanup Decision Summary and Relevant Decision Documents Several action memoranda are in place to remove contaminated soil, structures, and debris from 200 West Inner Area soil sites with disposal at ERDF. <u>Range of Alternatives</u> - RTD approximately half of waste sites and cap remainder. - RTD all waste sites; backfill and revegetate. - Cap and maintain under LTS with monitoring and appropriate institutional controls. - If residual contamination remains after cleanup actions are completed, cleanup work will transition to LTS, including institutional controls and 5-year reviews of remedy effectiveness.

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Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
CP-LS-2 (Interim)	Plutonium (Pu) contaminated cribs and trenches associated with PFP in central part of 200 W Area	200-PW-1,3,6 200-CW-5	DOE/RL-2013-02 Table A-1 CERCLA ROD (Final)	Record of Decision, Superfund Site 200-CW-5 and 200-PW-1, 200-PW-3 and 200-PW-6 Operable Units (EPA 2011c): - RTD of soil and debris to specified depths or specified cleanup levels for plutonium-contaminated soils and subsurface structures and debris. - Soil vapor extraction at three 200-PW-1 waste sites will continue until vadose zone cleanup levels are met. - Soil covers will be used to provide coverage to a depth of at least 15 ft over cesium-contaminated soils. Removal of sludge followed by tank stabilization for two tanks. - No action for two waste sites. - ICs and long-term monitoring for waste sites where contamination is left in place and an unrestricted land use is precluded.

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Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
CP-LS-3 (Final)	U Plant Cribs and Ditches: liquid waste discharges in the central part of 200 W Area associated with U Plant operations	200-WA-1, 200-DV-1	DOE/RL-2014-11 Table B-3 CP-15	**CP-15 Central Plateau – Remediate Remaining 200 West Inner Area Contaminated Soil Sites (200-WA-1 OU)** Action memoranda (DOE/RL-2009-37, DOE/RL-2009-86) are in place to remove contaminated soil, structures, and debris from 200 West Inner Area soil sites with disposal at ERDF. Future cleanup decisions for remaining waste sites will be included in decision documents (e.g., action memoranda, RODs). Range of Plausible Alternatives - RTD approximately half of waste sites and cap remainder. - RTD all waste sites; backfill and revegetate. - Cap and maintain under LTS with monitoring and appropriate institutional controls. - If residual contamination remains after cleanup actions are completed, cleanup work will transition to LTS, including institutional controls and 5-year reviews of remedy effectiveness.

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Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
			DOE/RL-2014-11 Table B-3 CP-20, DOE/RL-2014-34, Rev. 0	**CP-20 Central Plateau – Remediate Contaminated Deep Vadose Zone (200-DV-1 OU)** No cleanup decisions have been made for the Deep Vadose Zone, except for perched water in 200-DV-1. The pertinent Action Memorandum (DOE/RL-2014-34, Rev. 0) indicates that perched water from 200-DV-1 OU will, in the future, be extracted, transferred by tanker truck or pipeline to the 200 West P&T facility, where it will be treated and injected into the aquifer below the 200 West Area. From DOE/RL-2014-34 This removal action is designed to recover as much perched water as practical while awaiting issuance of the 200-DV-1 OU Record of Decision (ROD). <u>Range of Plausible Alternatives for Remaining EU Components</u> - Implement results of treatability testing in accordance with CERCLA and/or RCRA final decisions. - RTD all contaminated soils to groundwater if necessary and technically practical; backfill and revegetate. - In place treatment to destroy, immobilize, or capture, treat and dispose contaminants. - Soil flushing with P&T or pore water removal. - Install surface barriers. - Allow monitored natural attenuation to proceed under LTS with appropriate institutional controls. Note that the proposed milestones for Corrective Measures Study & Feasibility Study Report and Proposed Plan/Proposed Corrective Action Decision for the 200-DV-1 are not due until 09/30/2023. See http://pdw.hanford.gov/arpir/index.cfm/viewDoc?accession=0079726H

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Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
CP-LS-4 (Final)	REDOX Cribs and Ditches: liquid waste discharges in the southern part of 200 W Area associated with REDOX (S Plant) operations	200-WA-1, 200-DV-1	DOE/RL-2014-11 Table B-3 CP-15	**CP-15 Central Plateau – Remediate Remaining 200 West Inner Area Contaminated Soil Sites** **(200-WA-1 OU)** Action memoranda (DOE/RL-2009-37, DOE/RL-2009-86) are in place to remove contaminated soil, structures, and debris from 200 West Inner Area soil sites with disposal at ERDF. Future cleanup decisions for remaining waste sites will be included in decision documents (e.g., action memoranda, RODs). Range of Plausible Alternatives - RTD approximately half of waste sites and cap remainder. - RTD all waste sites; backfill and revegetate. - Cap and maintain under LTS with monitoring and appropriate institutional controls. - If residual contamination remains after cleanup actions are completed, cleanup work will transition to LTS, including institutional controls and 5-year reviews of remedy effectiveness.

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Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
			DOE/RL-2014-11 Table B-3 CP-20, DOE/RL-2014-34, Rev. 0	**CP-20 Central Plateau – Remediate Contaminated Deep Vadose Zone (200-DV-1 OU)** No cleanup decisions have been made for the Deep Vadose Zone , except for perched water in 200-DV-1. The pertinent Action Memorandum (DOE/RL-2014-34, REV. 0) indicates that perched water from 200-DV-1 OU will, in the future, be extracted, transferred by tanker truck or pipeline to the 200 West P&T facility, where it will be treated and injected into the aquifer below the 200 West Area. Range of Plausible Alternatives for Remaining EU Components - Implement results of treatability testing in accordance with CERCLA and/or RCRA final decisions. - RTD all contaminated soils to groundwater if necessary and technically practical; backfill and revegetate. - In place treatment to destroy, immobilize, or capture, treat and dispose contaminants. - Soil flushing with P&T or pore water removal. - Install surface barriers. - Allow monitored natural attenuation to proceed under LTS with appropriate institutional controls. Note that the proposed milestones for Corrective Measures Study & Feasibility Study Report and Proposed Plan/Proposed Corrective Action Decision for the 200-DV-1 are not due until 09/30/2023. See http://pdw.hanford.gov/arpir/index.cfm/viewDoc?accession=0079726H

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Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
CP-LS-5 (Final)	U and S Pond: liquid waste discharges in the southern part of 200-W and outside the fence of 200 W associate with U and S ponds and closely related trenches, ditches, and cribs	200-CW-1, 200-OA-1,	DOE/RL-2014-11 Table B-3 CP-2	**CP-2 Central Plateau – Remediate Remaining Outer Area Contaminated Soil Sites (200-OA-1, 200-CW-1, and 200-CW-3 OUs)** An interim ROD, ESD, and action memoranda are in place to remove contaminated soil, structures, and debris with disposal at ERDF. EPA/ROD/R10-99/039, EPA, 2009a, *Explanation of Significant Differences for the 100 Area Remaining Sites Interim Remedial Action Record of Decision,* DOE/RL-2009-37; DOE/RL-2009-48; DOE/RL-2009-86 Future cleanup decisions for remaining soil sites will be included in decision documents (e.g., action memoranda, RODs). <u>Range of Plausible Alternatives</u> - RTD contaminated soil sites to achieve RAOs comparable to 100 Areas; backfill, contour, and revegetate excavations. - RTD all sites except ponds; allow monitored natural attenuation for large pond sites with presence of existing vegetated soil covers. - Allow monitored natural attenuation to proceed for all sites with appropriate institutional controls. - If residual contamination remains after cleanup actions are completed, cleanup work will transition to LTS, including institutional controls and 5-year reviews of remedy effectiveness.

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Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
CP-LS-6 (Final)	T Plant Cribs and Ditches: liquid waste sites on the northern end of 200 W Area (associated with T Plant operations)	200-WA-1, 200-DV-1	DOE/RL-2014-11 Table B-3 CP-15	**CP-15 Central Plateau – Remediate Remaining 200 West Inner Area Contaminated Soil Sites (200-WA-1 OU)** Action memoranda (DOE/RL-2009-37, DOE/RL-2009-86) are in place to remove contaminated soil, structures, and debris from 200 West Inner Area soil sites with disposal at ERDF. Future cleanup decisions for remaining waste sites will be included in decision documents (e.g., action memoranda, RODs). <u>Range of Plausible Alternatives</u> - RTD approximately half of waste sites and cap remainder. - RTD all waste sites; backfill and revegetate. - Cap and maintain under LTS with monitoring and appropriate institutional controls. - If residual contamination remains after cleanup actions are completed, cleanup work will transition to LTS, including institutional controls and 5-year reviews of remedy effectiveness.

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Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
			DOE/RL-2014-11 Table B-3 CP-20, DOE/RL-2014-34, REV. 0	**CP-20 Central Plateau – Remediate Contaminated Deep Vadose Zone (200-DV-1 OU)** No cleanup decisions have been made for the Deep Vadose Zone, except for perched water in 200-DV-1. The pertinent Action Memorandum (DOE/RL-2014-34, REV. 0) indicates that perched water from 200-DV-1 OU will, in the future, be extracted, transferred by tanker truck or pipeline to the 200 West P&T facility, where it will be treated and injected into the aquifer below the 200 West Area. Range of Plausible Alternatives for Remaining EU Components - Implement results of treatability testing in accordance with CERCLA and/or RCRA final decisions. - RTD all contaminated soils to groundwater if necessary and technically practical; backfill and revegetate. - In place treatment to destroy, immobilize, or capture, treat and dispose contaminants. - Soil flushing with P&T or pore water removal. - Install surface barriers. - Allow monitored natural attenuation to proceed under LTS with appropriate institutional controls. Note that the proposed milestones for Corrective Measures Study & Feasibility Study Report and Proposed Plan/Proposed Corrective Action Decision for the 200-DV-1 are not due until 09/30/2023. See http://pdw.hanford.gov/arpir/index.cfm/viewDoc?accession=0079726H

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Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
CP-LS-7 (Final)	HLW pipelines outside of tank farms EUs. Includes 200 East-West transfer lines, IMUSTS, catch tanks, diversion boxes, etc.	200-IS-1	DOE/RL-2014-11 Table B-3 CP-13	**Central Plateau – Remediate Pipelines, Pits, Diversion Boxes and Associated Tanks 200-IS-1 OU** The 200-IS-1 OU waste sites include tanks (except to be included in the Tank Farms), pipelines, pits, diversion boxes, and associated ancillary equipment. Several pipelines are being addressed (in part) per 200-MG-1 removal actions (DOE/RL-2009-48; DOE/RL-2009-86) ; final remediation decisions will be addressed in RODs; TSD ancillary equipment will be addressed in future RCRA Closure Plan(s); other media may be addressed via CERCLA process. <u>Range of Plausible Alternatives</u> - RTD all contaminated equipment, materials, debris and soil to a depth that is determined by the Tri-Party agencies to be protective of human health and ecological resources (depth TBD); backfill and revegetate. - RTD all contaminated equipment, materials, debris and soil; backfill and revegetate. - Stabilize select equipment in place using technologies yet to be determined. - Leave everything in place; maintain under LTS with appropriate institutional controls. - If residual contamination remains after cleanup actions are completed, cleanup work will transition to LTS, including institutional controls and 5-year reviews of remedy effectiveness.

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Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
CP-LS-8 (Final)	B Plant Cribs and Trenches: liquid waste sites on the west side of 200 E (associated with B Plant operations)	200-EA-1, 200-DV-1, 200-OA-1	DOE/RL-2014-11 Table B-3 CP-16	**CP-16 Central Plateau – Remediate Remaining 200 East Inner Area Contaminated Soil Sites (200-EA-1 OU)** Action memoranda (DOE/RL-2009-37, DOE/RL-2009-86) are in place to remove contaminated soil, structures, and debris from 200 West Inner Area soil sites with disposal at ERDF. Future cleanup decisions for remaining waste sites will be included in decision documents (e.g., action memoranda, RODs). <u>Range of Plausible Alternatives</u> - RTD approximately half of waste sites and cap remainder. - RTD all waste sites; backfill and revegetate. - Cap and maintain under LTS with monitoring and appropriate institutional controls. - If residual contamination remains after cleanup actions are completed, cleanup work will transition to LTS, including institutional controls and 5-year reviews of remedy effectiveness.

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Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
			DOE/RL-2014-11 Table B-3 CP-20, DOE/RL-2014-34, REV. 0	**CP-20 Central Plateau – Remediate Contaminated Deep Vadose Zone (200-DV-1 OU)** No cleanup decisions have been made for the Deep Vadose Zone, except for perched water in 200-DV-1. The pertinent Action Memorandum (DOE/RL-2014-34, REV. 0) indicates that perched water from 200-DV-1 OU will, in the future, be extracted, transferred by tanker truck or pipeline to the 200 West P&T facility, where it will be treated and injected into the aquifer below the 200 West Area. Range of Plausible Alternatives for Remaining EU Components - Implement results of treatability testing in accordance with CERCLA and/or RCRA final decisions. - RTD all contaminated soils to groundwater if necessary and technically practical; backfill and revegetate. - In place treatment to destroy, immobilize, or capture, treat and dispose contaminants. - Soil flushing with P&T or pore water removal. - Install surface barriers. - Allow monitored natural attenuation to proceed under LTS with appropriate institutional controls. Note that the proposed milestones for Corrective Measures Study & Feasibility Study Report and Proposed Plan/Proposed Corrective Action Decision for the 200-DV-1 are not due until 09/30/2023. See http://pdw.hanford.gov/arpir/index.cfm/viewDoc?accession=0079726H

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Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
			DOE/RL-2014-11 Table B-3 CP-2	**CP-2 Central Plateau – Remediate Remaining Outer Area Contaminated Soil Sites (200-OA-1, 200-CW-1, and 200-CW-3 OUs)** An interim ROD, ESD, and action memoranda are in place to remove contaminated soil, structures, and debris with disposal at ERDF. EPA/ROD/R10-99/039, EPA, 2009a, *Explanation of Significant Differences for the 100 Area Remaining Sites Interim Remedial Action Record of Decision,* DOE/RL-2009-37; DOE/RL-2009-48; DOE/RL-2009-86 Future cleanup decisions for remaining soil sites will be included in decision documents (e.g., action memoranda, RODs). <u>Range of Plausible Alternatives</u> - RTD contaminated soil sites to achieve RAOs comparable to 100 Areas; backfill, contour, and revegetate excavations. - RTD all sites except ponds; allow monitored natural attenuation for large pond sites with presence of existing vegetated soil covers. - Allow monitored natural attenuation to proceed for all sites with appropriate institutional controls. - If residual contamination remains after cleanup actions are completed, cleanup work will transition to LTS, including institutional controls and 5-year reviews of remedy effectiveness.

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Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
CP-LS-9 (Final)	PUREX Cribs and Trenches: liquid waste sites on the east side of 200 E (associated with PUREX Operations and immediately surrounding PUREX)	200-EA-1, 200-PW-3,	DOE/RL-2014-11 Table B-3 CP-16	**CP-16 Central Plateau – Remediate Remaining 200 East Inner Area Contaminated Soil Sites (200-EA-1 OU)** Action memoranda (DOE/RL-2009-37, DOE/RL-2009-86) are in place to remove contaminated soil, structures, and debris from 200 West Inner Area soil sites with disposal at ERDF. Future cleanup decisions for remaining waste sites will be included in decision documents (e.g., action memoranda, RODs). Range of Plausible Alternatives - RTD approximately half of waste sites and cap remainder. - RTD all waste sites; backfill and revegetate. - Cap and maintain under LTS with monitoring and appropriate institutional controls. - If residual contamination remains after cleanup actions are completed, cleanup work will transition to LTS, including institutional controls and 5-year reviews of remedy effectiveness.
			DOE/RL-2014-11 Table A-1	CERCLA Final ROD *Record of Decision, Hanford 200 Area, Superfund Site 200-CW-5 and 200-PW-1, **200-PW-3** and 200-PW-6 Operable Units Hanford Site, Benton County, Washington* **Initial Decision:** RTD of soil and debris to specified depths cleanup levels for plutonium-contaminated soils and subsurface structures/debris. Soil vapor extraction at three 200-PW-1 waste sites will continue until vadose zone cleanup levels are met. Soil covers will be used to a depth of at least 15 ft over cesium-contaminated soils. Removal of sludge followed by tank stabilization for two tanks. No action for two waste sites. ICs and long-term monitoring for waste sites where contamination is left in place and an unrestricted land use is precluded.

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Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
CP-LS-10 (Final)	PUREX and Tank Farm Cribs and Trenches: liquid waste sites on the east side of 200 E (associated with PUREX and Tank Farm operations, but outside the 200 E Area fence)	200-EA-1	DOE/RL-2014-11 Table B-3 CP-16	**CP-16 Central Plateau – Remediate Remaining 200 East Inner Area Contaminated Soil Sites (200-EA-1 OU)** Action memoranda (DOE/RL-2009-37, DOE/RL-2009-86) are in place to remove contaminated soil, structures, and debris from 200 West Inner Area soil sites with disposal at ERDF. Future cleanup decisions for remaining waste sites will be included in decision documents (e.g., action memoranda, RODs). Range of Plausible Alternatives - RTD approximately half of waste sites and cap remainder. - RTD all waste sites; backfill and revegetate. - Cap and maintain under LTS with monitoring and appropriate institutional controls. - If residual contamination remains after cleanup actions are completed, cleanup work will transition to LTS, including institutional controls and 5-year reviews of remedy effectiveness.
CP-LS-11 (Final)	B Pond: B pond and associated ditches, where liquid wastes were discharged in the northern and western part of 200 E and outside the fence of 200 E	200-EA-1, 200-CW-1, 200-OA-1, 200-IS-1	DOE/RL-2014-11 Table B-3 CP-16	**CP-16 Central Plateau – Remediate Remaining 200 East Inner Area Contaminated Soil Sites (200-EA-1 OU)** Action memoranda (DOE/RL-2009-37, DOE/RL-2009-86) are in place to remove contaminated soil, structures, and debris from 200 West Inner Area soil sites with disposal at ERDF. Future cleanup decisions for remaining waste sites will be included in decision documents (e.g., action memoranda, RODs). Range of Plausible Alternatives - RTD approximately half of waste sites and cap remainder. - RTD all waste sites; backfill and revegetate. - Cap and maintain under LTS with monitoring and appropriate institutional controls. - If residual contamination remains after cleanup actions are completed, cleanup work will transition to LTS, including institutional controls and 5-year reviews of remedy effectiveness.

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Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
			DOE/RL-2014-11 Table B-3 CP-2	**CP-2 Central Plateau – Remediate Remaining Outer Area Contaminated Soil Sites (200-OA-1, 200-CW-1, and 200-CW-3 OUs)** An interim ROD, ESD, and action memoranda are in place to remove contaminated soil, structures, and debris with disposal at ERDF. EPA/ROD/R10-99/039, EPA, 2009a, *Explanation of Significant Differences for the 100 Area Remaining Sites Interim Remedial Action Record of Decision,* DOE/RL-2009-37; DOE/RL-2009-48; DOE/RL-2009-86 Future cleanup decisions for remaining soil sites will be included in decision documents (e.g., action memoranda, RODs). <u>Range of Plausible Alternatives</u> - RTD contaminated soil sites to achieve RAOs comparable to 100 Areas; backfill, contour, and revegetate excavations. - RTD all sites except ponds; allow monitored natural attenuation for large pond sites with presence of existing vegetated soil covers. - Allow monitored natural attenuation to proceed for all sites with appropriate institutional controls. - If residual contamination remains after cleanup actions are completed, cleanup work will transition to LTS, including institutional controls and 5-year reviews of remedy effectiveness.

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Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
			DOE/RL-2014-11 Table B-3 CP-13	**Central Plateau – Remediate Pipelines, Pits, Diversion Boxes and Associated Tanks 200-IS-1 OU** The 200-IS-1 OU waste sites include tanks (except to be included in the Tank Farms), pipelines, pits, diversion boxes, and associated ancillary equipment. Several pipelines are being addressed (in part) per 200-MG-1 removal actions (DOE/RL-2009-48; DOE/RL-2009-86) ; final remediation decisions will be addressed in RODs; TSD ancillary equipment will be addressed in future RCRA Closure Plan(s); other media may be addressed via CERCLA process. <u>Range of Plausible Alternatives</u> - RTD all contaminated equipment, materials, debris and soil to a depth that is determined by the Tri-Party agencies to be protective of human health and ecological resources (depth TBD); backfill and revegetate. - RTD all contaminated equipment, materials, debris and soil; backfill and revegetate. - Stabilize select equipment in place using technologies yet to be determined. - Leave everything in place; maintain under LTS with appropriate institutional controls. - If residual contamination remains after cleanup actions are completed, cleanup work will transition to LTS, including institutional controls and 5-year reviews of remedy effectiveness.

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Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
CP-LS-12 (Final)	200 West Burial Grounds: past practice radioactive waste burial grounds, including retrievable stored TRU trenches	200-SW-2	DOE/RL-2014-11 Table B-3 CP-14	**CP-14 Central Plateau – Remediate Land Disposal Units (200-SW-2 OU)** No cleanup decisions have been made to remediate the 200-SW-2 OU. (Note that this OU is not a single contaminated site, but comprises a large number of land disposal units.) <u>Range of Plausible Alternatives</u> - Excavation, treatment (as necessary), and disposal of all waste from within individual landfills. - Excavation, treatment (as necessary), and disposal of waste from selected sections of individual landfills followed by capping of remaining waste; includes continued cap maintenance and monitoring. - Capping of individual landfills; includes continued cap maintenance and monitoring. - In situ treatment/stabilization (e.g., vitrification or grouting) of portions of individual landfills followed by capping; includes continued cap maintenance and monitoring. - If residual contamination remains after cleanup actions are completed, cleanup work will transition to LTS, including institutional controls and 5-year reviews of remedy effectiveness.

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Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
CP-LS-13 (Final)	200 West Miscellaneous Waste Sites: waste sites, buildings, and structures associated with maintenance operations, laundry, and coal power plant in the west/central portion of 200 W	200-OA-1, 200-WA-1		**CP-2 Central Plateau – Remediate Remaining Outer Area Contaminated Soil Sites (200-OA-1, 200-CW-1, and 200-CW-3 OUs)** Several action memorandums exist for similar sites at Hanford that are relevant to: 1) the disposition of the substantial number of buildings and structures, if and when they become inactive and surplus, as well as a number of burial grounds containing debris from previous building demolitions; and 2) to D4 buildings and facilities to slab-on-grade and evaluate below-grade portions for contamination, and cleanup of debris. The types of wastes and debris likely to require disposal include, but are not limited to, solid waste, low-level radioactive waste, asbestos waste, and polychlorinated biphenyl (PCB)-contaminated waste. *DOE/RL-2010-22, 2010, Action Memorandum for General Hanford Site Decommissioning Activities, Rev. 0* *Action Memorandum for General Hanford Site Decommissioning Activities*, Rev. 0, DOE/RL-2010-22 *Action Memorandum for the Non-Time Critical Removal Action for 37 Waste Sites in the 200-MG-1 Operable Unit,* DOE/RL-2009-86, Revision 0, *Action Memorandum for the Non-Time Critical Removal Action for 200-MG-2 Operable Unit,* DOE/RL-2009-37, Revision 0 Future cleanup decisions for remaining buildings and soil sites will be included in decision documents (e.g., action memoranda, RODs). <u>Range of Plausible Alternatives</u> - D4 all buildings and facilities to slab-on-grade; evaluate below-grade portions for residual contamination; if needed, remediate below-grade portions consistent with contiguous contaminated soil sites. - Excess industrial buildings/structures and debris would remain in the S&M program for 10 years followed by implementation of D4 and cleanup of debris. - Pursue Confirmatory Sampling/No Further Action (CS/NFA) to confirm that soil contaminant concentrations are at or below removal action levels (RALs) and that no further action is required - RTD contaminated soil sites to achieve RAOs comparable to 100 Areas; backfill, contour, and revegetate excavations.

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Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
				-
			DOE/RL-2014-11 Table B-3 CP-13	**Central Plateau – Remediate Pipelines, Pits, Diversion Boxes and Associated Tanks 200-IS-1 OU** The 200-IS-1 OU waste sites include tanks (except to be included in the Tank Farms), pipelines, pits, diversion boxes, and associated ancillary equipment. Several pipelines are being addressed (in part) per 200-MG-1 removal actions (DOE/RL-2009-48; DOE/RL-2009-86) ; final remediation decisions will be addressed in RODs; TSD ancillary equipment will be addressed in future RCRA Closure Plan(s); other media may be addressed via CERCLA process. <u>Range of Plausible Alternatives</u> - RTD all contaminated equipment, materials, debris and soil to a depth that is determined by the Tri-Party agencies to be protective of human health and ecological resources (depth TBD); backfill and revegetate. - RTD all contaminated equipment, materials, debris and soil; backfill and revegetate. - Stabilize select equipment in place using technologies yet to be determined. - Leave everything in place; maintain under LTS with appropriate institutional controls. - If residual contamination remains after cleanup actions are completed, cleanup work will transition to LTS, including institutional controls and 5-year reviews of remedy effectiveness.

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Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
CP-LS-14 (Final)	200 East Burial Grounds: past practice radioactive waste burial grounds.	200-SW-2	DOE/RL-2014-11 Table B-3 CP-14	**CP-14 Central Plateau – Remediate Land Disposal Units (200-SW-2 OU)** No cleanup decisions have been made to remediate the 200-SW-2 OU. (Note that this OU is not a single contaminated site, but comprises a large number of land disposal units.) <u>Range of Plausible Alternatives</u> - Excavation, treatment (as necessary), and disposal of all waste from within individual landfills. - Excavation, treatment (as necessary), and disposal of waste from selected sections of individual landfills followed by capping of remaining waste; includes continued cap maintenance and monitoring. - Capping of individual landfills; includes continued cap maintenance and monitoring. - In situ treatment/stabilization (e.g., vitrification or grouting) of portions of individual landfills followed by capping; includes continued cap maintenance and monitoring. - If residual contamination remains after cleanup actions are completed, cleanup work will transition to LTS, including institutional controls and 5-year reviews of remedy effectiveness.

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Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
CP-LS-15 (Final)	200 East Miscellaneous Waste Sites: waste sites, buildings, and structures associated with maintenance operations and coal power plant in the southern portion of 200 E	200-OA-1, 200-EA-1		**CP-2 Central Plateau – Remediate Remaining Outer Area Contaminated Soil Sites (200-OA-1, 200-CW-1, and 200-CW-3 OUs)** Several action memorandums exist for similar sites at Hanford that are relevant to: 1) the disposition of the substantial number of buildings and structures, if and when they become inactive and surplus, as well as a number of burial grounds containing debris from previous building demolitions; and 2) to D4 buildings and facilities to slab-on-grade and evaluate below-grade portions for contamination, and cleanup of debris. The types of wastes and debris likely to require disposal include, but are not limited to, solid waste, low-level radioactive waste, asbestos waste, and polychlorinated biphenyl (PCB)-contaminated waste. *DOE/RL-2010-22, 2010, Action Memorandum for General Hanford Site Decommissioning Activities, Rev. 0* *Action Memorandum for General Hanford Site Decommissioning Activities*, Rev. 0, DOE/RL-2010-22 *Action Memorandum for the Non-Time Critical Removal Action for 37 Waste Sites in the 200-MG-1 Operable Unit,* DOE/RL-2009-86, Revision 0, *Action Memorandum for the Non-Time Critical Removal Action for 200-MG-2 Operable Unit,* DOE/RL-2009-37, Revision 0 Future cleanup decisions for remaining buildings and soil sites will be included in decision documents (e.g., action memoranda, RODs). <u>Range of Plausible Alternatives</u> - D4 all buildings and facilities to slab-on-grade; evaluate below-grade portions for residual contamination; if needed, remediate below-grade portions consistent with contiguous contaminated soil sites. - Excess industrial buildings/structures and debris would remain in the S&M program for 10 years followed by implementation of D4 and cleanup of debris. - Pursue Confirmatory Sampling/No Further Action (CS/NFA) to confirm that soil contaminant concentrations are at or below removal action levels (RALs) and that no further action is required - RTD contaminated soil sites to achieve RAOs comparable to 100 Areas; backfill, contour, and revegetate excavations.

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Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
CP-LS-16 (Final)	Grout vaults located west of WTP	Not Applicable	DOE/RL-2014-11 Table B-3 CP-19	**Cleanup Decision Summary and Relevant Decision Documents** Cleanup decisions have been made for D&D of some of the Remaining Inner Area Buildings and Facilities, and the applicable action memorandum (DOE/RL-2010-22) is expected to cover future D&D activities. DOE considers D&D of buildings and other structures to be final cleanup decisions if all regulated contaminants have been removed in accordance with an applicable action memorandum. Alternatives do not need to be considered where such D&D has been completed. (Note that cleanup decisions have been or will be made for the Canyon Buildings and Associated Waste Sites; see separate cleanup actions for these facilities.) DOE/RL-2010-22, 2010, Action Memorandum for General Hanford Site Decommissioning Activities, Rev. 0, <u>Range of Plausible Alternatives</u> - D4 all buildings and facilities to slab-on-grade; evaluate below-grade portions for residual contamination; if needed, remediate below-grade portions consistent with contiguous contaminated soil sites. - Excess industrial buildings/structures and debris would remain in the S&M program for 10 years followed by implementation of D4 and cleanup of debris.

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Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
CP-LS-17 (Final)	BC Control Zone: Surface contamination area to the south of 200 E (excluding the BC Cribs and Trenches)	200-OA-1	DOE/RL-2014-11 Table B-3 CP-2	**CP-2 Central Plateau – Remediate Remaining Outer Area Contaminated Soil Sites (200-OA-1, 200-CW-1, and 200-CW-3 OUs)** An interim ROD, ESD, and action memoranda are in place to remove contaminated soil, structures, and debris with disposal at ERDF. EPA/ROD/R10-99/039, EPA, 2009a, *Explanation of Significant Differences for the 100 Area Remaining Sites Interim Remedial Action Record of Decision,* DOE/RL-2009-37; DOE/RL-2009-48; DOE/RL-2009-86 Future cleanup decisions for remaining soil sites will be included in decision documents (e.g., action memoranda, RODs). <u>Range of Plausible Alternatives</u> - RTD contaminated soil sites to achieve RAOs comparable to 100 Areas; backfill, contour, and revegetate excavations. - RTD all sites except ponds; allow monitored natural attenuation for large pond sites with presence of existing vegetated soil covers. - Allow monitored natural attenuation to proceed for all sites with appropriate institutional controls. - If residual contamination remains after cleanup actions are completed, cleanup work will transition to LTS, including institutional controls and 5-year reviews of remedy effectiveness.

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Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
CP-LS-18 (Final)	Outer Area Sites: solid waste disposal sites (e.g., NRDWL, SWL, etc.) and other outer area waste sites, miscellaneous buildings, and structures	200-CW-1, 200-CW-3, 200-OA-1, 200-SW-1	DOE/RL-2014-11 Table B-3 CP-10	**CP-10 Central Plateau – Remediate 200-SW-1 OU** No cleanup decisions have been made for the 200-SW-1 OU. Range of Plausible Alternatives The following alternatives are being considered as part of DOE/EA-1707D, *Environmental Assessment Closure of Nonradioactive Dangerous Waste Landfill (NRDWL) and Solid Waste Landfill (SWL)*; these alternatives are not intended to presume the outcome of the ongoing environmental assessment process: - Install an evapotranspiration barrier over both landfills; upgrade monitoring and infrastructure systems; perform post-closure monitoring and caretaking. - Partial RTD with removal of waste material from both landfills and impacted soil as deep as 10 feet below the waste material; backfill and revegetate; if necessary (e.g., contaminated residues remain), perform post-closure monitoring and caretaking. - Remove all waste material from both landfills; excavate and RTD all contaminated soil to groundwater, if necessary; backfill and revegetate. - If residual contamination remains after cleanup actions are completed, cleanup work will transition to LTS, including institutional controls and 5-year reviews of remedy effectiveness.

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Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
			DOE/RL-2014-11 Table B-3 CP-2	**CP-2 Central Plateau – Remediate Remaining Outer Area Contaminated Soil Sites (200-OA-1, 200-CW-1, and 200-CW-3 OUs)** An interim ROD, ESD, and action memoranda are in place to remove contaminated soil, structures, and debris with disposal at ERDF. EPA/ROD/R10-99/039, EPA, 2009a, *Explanation of Significant Differences for the 100 Area Remaining Sites Interim Remedial Action Record of Decision,* DOE/RL-2009-37; DOE/RL-2009-48; DOE/RL-2009-86 Future cleanup decisions for remaining soil sites will be included in decision documents (e.g., action memoranda, RODs). <u>Range of Plausible Alternatives</u> - RTD contaminated soil sites to achieve RAOs comparable to 100 Areas; backfill, contour, and revegetate excavations. - RTD all sites except ponds; allow monitored natural attenuation for large pond sites with presence of existing vegetated soil covers. - Allow monitored natural attenuation to proceed for all sites with appropriate institutional controls. - If residual contamination remains after cleanup actions are completed, cleanup work will transition to LTS, including institutional controls and 5-year reviews of remedy effectiveness.
			DOE/RL-2014-11 Table B-3 CP-1	**CP-1 Central Plateau – Disposition Remaining Outer Area Buildings and Facilities** Action memoranda (DOE/RL-2008-80-ADD1, DOE/RL-2010-22) are in place to D4 buildings and facilities to slab-on-grade and evaluate below-grade portions for contamination. Future cleanup decisions for remaining buildings and facilities will be included in decision documents (e.g., action memoranda, RODs). DOE considers D&D of buildings and other structures to be final cleanup decisions if all regulated contaminants have been removed in accordance with an applicable action memorandum. <u>Range of Plausible Alternatives</u> - D4 all buildings and facilities to slab-on-grade; evaluate below-grade portions for residual contamination; if needed, remediate below-grade portions consistent with Central Plateau Outer Area contaminated soil sites.

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Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
CP-TF-1 (Interim)	T tank farm, ancillary structures, associated liquid waste sites, and soils contamination	200-DV-1, WMA T, 200-WA-1	DOE/RL-2013-02 Table B-3 TW-1	**TW-1 Tank Waste – Tank Retrieval and Single-Shell Tank Farm Closure** Tank Closure and Waste Management EIS Record of Decision (78 FR 75913, December 13, 2013) sets the following requirements for tank retrieval and closure: - 99 percent retrieval of waste by volume from the SSTs. - Leak detection monitoring and routine maintenance. - New and existing storage facilities. - Operations and necessary maintenance, waste transfers and associated operations, and upgrades to existing tanks or construction of waste receipt facilities. - SST closure operations include filling the tanks and ancillary equipment with grout to immobilize the residual waste. - Disposal of contaminated equipment and soil would occur on site. - Decisions on the extent of soil removal or treatment, would be made on a tank farm or waste management area basis through the RCRA closure permitting process. - The tanks would be stabilized, and an engineered modified RCRA Subtitle C barrier put in place followed by post-closure care. Existing decisions for tank retrieval are also present within the TPA and the Consent Decree (State of Washington v. DOE, No. 08-5085-FVS (E.D. Wa.): - TPA milestone M-45-00 states “Closure will follow retrieval of as much tank waste as technically possible, with tank waste residues not to exceed 360 cubic feet in each of the 100 series tanks, 30 cubic feet in each of the 200 series tanks, or the limit of waste retrieval technology, whichever is less.” A procedure for gaining an exemption from this requirement is outlined in Appendix H of the TPA. The Consent Decree defines retrieval requirements for 10 tanks in C Farm and 9 additional tanks. Up to 3 retrieval technologies may be required to their “limits of technology” in an effort to obtain the waste residue goal of 360 cubic feet of waste or less. Provisions are provided to determine the “practicability” of continued use of a retrieval technology including matters “such as risk reduction, facilitating tank closures, costs, the potential for exacerbating leaks, worker safety, and the overall impact on the tank waste retrieval mission.”

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Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
CP-TF-2 (Interim)	S-SX tank farms, ancillary structures, associated liquid waste sites, and soils contamination; includes 242-S Evaporator	WMA S/SX, 200-DV-1, 200-WA-1		Same as CP-TF-1
CP-TF-3 (Interim)	TX-TY tank farms, ancillary structures, associated liquid waste sites, and soils contamination; includes 242-T Evaporator	WMA TX/TY, 200-DV-1, 200-WA-1		Same as CP-TF-1
CP-TF-4 (Interim)	U tank farm, ancillary structures, associated liquid waste sites, and soils contamination	WMA U, 200-WA-1		Same as CP-TF-1

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Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
CP-TF-5 (Interim)	A-AX Tank farms, ancillary structures, associated liquid waste sites, and soils contamination	WMA A/AX, 200-EA-1, 200-PW-3		Same as CP-TF-1
CP-TF-6 (Interim)	B-BX-BY tank farms, ancillary structures, associated liquid waste sites, and soils contamination	WMA B/BX/BY, 200-DV-1, 200-EA-1		Same as CP-TF-1
CP-TF-7 (Interim)	C Tank farm, ancillary structures, associated liquid waste sites, and soils contamination	WMA C		Same as CP-TF-1
CP-TF-8 (Interim)	200 East DSTs: AN, AP, AW, AY, AZ tank farms, ancillary structures, associated liquid waste sites, and soils contamination	Not Applicable	DOE/RL-2013-02 Table B-3 TW-4	**TW-4 Tank Waste – Double-Shell Tank Closure** Cleanup Decision Summary and Relevant Decision Documents No cleanup decisions have been made. Decisions have been deferred to future decision-making processes. <u>Range of Alternatives</u> - Retrieve DST wastes consistent with RCRA; achieve designated retrieval objectives or limits of technology; remediate structures and soil and install cover/cap to meet closure performance standards; maintain post-closure care and monitoring consistent with RCRA Permit. - Close under RCRA.

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Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
CP-TF-9 (Interim)	200 West DSTs: SY tank farm, ancillary structures, associated liquid waste sites, and soils contamination	WMA S/SX	DOE/RL-2013-02 Table B-3 TW-4	**TW-4 Tank Waste – Double-Shell Tank Closure** Cleanup Decision Summary and Relevant Decision Documents No cleanup decisions have been made. Decisions have been deferred to future decision-making processes. <u>Range of Alternatives</u> - Retrieve DST wastes consistent with RCRA; achieve designated retrieval objectives or limits of technology; remediate structures and soil and install cover/cap to meet closure performance standards; maintain post-closure care and monitoring consistent with RCRA Permit. - Close under RCRA.
RC-GW-1 (Interim)	300 Area Uranium and associated contaminant plumes	300-FF-5	DOE/RL-2013-02 Table A-1 ROD (Final, 2013)	Record of Decision for 300-FF-2 and 300-FF-5, and Record of Decision Amendment for 300-FF-1 The major components of the selected remedy for the 300-FF-2 OU are: - Remove, Treat and Dispose (RTD) at waste sites - Temporary surface barriers and pipeline void filling - Enhanced attenuation of uranium using sequestration in the Vadose Zone, Periodically Rewetted Zone (PRZ) and top of the aquifer - Institutional Controls (ICs)
RC-GW-2 (Interim)	100-N Strontium and associated contaminant plumes	100-NR-2	DOE/RL-2013-02 Table A-1 CERCLA Interim Action ROD	Interim Remedial Action Record of Decision for the 100-NR-1 and 100-NR-2 Operable Units, (EPA/ROD/R10-99/112) - ICs for shoreline site; in situ and RTD with ex situ bioremediation for petroleum sites; - RTD for remainder of sites in 100-NR-1; - maintain ERA P&T for 100-NR-2. Deploys the apatite sequestration technology for remediating Sr-90 in the 100-NR-2 OU by extending existing apatite permeable reactive barrier

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Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
			DOE/RL-2013-02 Table B-2 RC-4.3	**RC-4.3– Restore 100-NR-2 Groundwater OU to Beneficial Use** An Action Memorandum, interim ROD, and ESD are in place to clean up strontium-90 in the groundwater using P&T and physical barriers. An in situ apatite barrier and phytoremediation treatability tests are being evaluated for use in the cleanup of strontium-90 in groundwater. <u>Range of Plausible Alternatives</u> - Resume operation of existing P&T system; operate and expand system as necessary until cleanup objectives are achieved; transition to S&M for post-treatment groundwater monitoring. - Construct an impermeable barrier along the shoreline to re-direct groundwater flow and increase travel times for radioactive decay to achieve cleanup objectives. - Expand the apatite permeable reactive barrier to promote sequestration of strontium-90. - Incorporate phytotechnology. - Use sequestration and immobilization technologies for inner portion of strontium-90 plume. - Allow monitored natural attenuation to proceed under LTS with institutional controls. - If residual contamination remains after cleanup actions are completed, cleanup work will transition to LTS, including institutional controls and 5-year reviews of remedy effectiveness.

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Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
RC-GW-3 (Interim)	100-B/D/H/F/K Area chromium and associated contaminant plumes, includes pump and treat systems	100-BC-5	DOE/RL-2013-02 Table B-2 RC-4.1	**RC-4.1– Restore 100-BC-5 Groundwater OU to Beneficial Use** No cleanup decisions have been made for this OU. Groundwater monitoring and reporting continue to track groundwater contamination in this OU. <u>Range of Plausible Alternatives</u> - Install P&T system in 100-BC-5; transition to S&M for post-treatment groundwater monitoring. - Incorporate bioremediation for chromium. - Allow monitored natural attenuation to proceed under LTS with institutional controls. - If residual contamination remains after cleanup actions are completed, cleanup work will transition to LTS, including institutional controls and 5-year reviews of remedy effectiveness.
		100-KR-4	DOE/RL-2013-02 Table A-1 CERCLA Interim Action ROD	Declaration of the Record of Decision for the 100-HR-3 and 100-KR-4 Operable Units: - remove hexavalent chromium from groundwater; 30 extraction wells; ion exchange treatment; reinject treated effluent;. - implement In Situ Redox Manipulation barrier for second chromium plume - monitor; - institute ICs
			DOE/RL-2013-02 Table B-2 RC-4.2	**RC-4.2– Restore 100-KR-4 Groundwater OU to Beneficial Use** An interim ROD is in place to clean up hexavalent chromium in the groundwater using P&T <u>Range of Plausible Alternatives</u> - Expand the P&T system in 100-KR-4; transition to S&M for post-treatment groundwater monitoring. - Continue operation of P&T system with incorporation of bioremediation for chromium. - Allow monitored natural attenuation to proceed under LTS with institutional controls. - If residual contamination remains after cleanup actions are completed, cleanup work will transition to LTS, including institutional controls and 5-year reviews of remedy effectiveness.

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Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
		100-HR-3	DOE/RL-2013-02 Table A-1 CERCLA Interim Action ROD	Declaration of the Record of Decision for the 100-HR-3 and 100-KR-4 Operable Units: - remove hexavalent chromium from groundwater; 30 extraction wells; ion exchange treatment; reinject treated effluent;. - implement In Situ Redox Manipulation barrier for second chromium plume - monitor; - institute ICs
			DOE/RL-2013-02 Table B-2 RC-4.4	**RC-4.4– Restore 100-HR-3 Groundwater OU to Beneficial Use** An interim ROD, ROD amendment, and ESDs are in place to clean up hexavalent chromium in the groundwater using P&T and an in situ reduction/oxidation ("redox") manipulation barrier. <u>Range of Plausible Alternatives</u> - Expand P&T system in 100-HR-3; transition to S&M for post-treatment groundwater monitoring. - Maintain and repair in situ redox manipulation barrier. - Incorporate bioremediation. - Allow monitored natural attenuation to proceed under LTS with institutional controls. - If residual contamination remains after cleanup actions are completed, cleanup work will transition to LTS, including institutional controls and 5-year reviews of remedy effectiveness.
		100-FR-3	DOE/RL-2013-02 Table B-2 RC-4.5	**RC-4.5 – Restore 100-FR-3 Groundwater OU to Beneficial Use** No cleanup decisions have been made for this OU. <u>Range of Plausible Alternatives</u> - Install P&T system in 100-FR-3; transition to S&M for post-treatment groundwater monitoring. - Incorporate bioremediation for chromium. - Allow monitored natural attenuation to proceed under LTS with institutional controls. - If residual contamination remains after cleanup actions are completed, cleanup work will transition to LTS, including institutional controls and 5-year reviews of remedy effectiveness.

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Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
CP-GW-1 (Interim)	Existing groundwater plumes emanating from 200 E Area	200-BP-5, 200-PO-1	DOE/RL-2013-02 Table B-3 CP-22	**CP-22 – Restore 200 East Groundwater to Beneficial Use (200-PO-1/200-BP-5 OUs)** Cleanup Decision Summary and Relevant Decision Documents No cleanup decisions have been made for the 200 East Groundwater. <u>Range of Alternatives:</u> - Install P&T system for 200-BP-5 OU; implement monitored natural attenuation for 200-PO-1 OU; perform well support and maintenance activities. - Allow monitored natural attenuation to proceed under LTS with appropriate institutional controls. - Install P&T system for 200-BP-5 and selective P&T for 200-PO-1 hot spots. Note: 400 Area groundwater cleanup actions are included as part of 200-PO-1 OU.
CP-GW-2 (Interim)	Existing groundwater plumes emanating from 200 W Area, Includes pump and treatment systems	200-ZP-1,	DOE/RL-2013-02 Table A-1	ROD (200-ZP-1 Final): - Pump and Treat to address carbon tetrachloride, nitrate, chromium, trichloroethylene, I-129, Tc-99, and tritium; - monitored natural attenuation; - flow-path control through injection of treated water; and - ICs.
		200-UP-1	DOE/RL-2013-02 Table A-1 ROD (Interim Action): EPA 2012	*Record of Decision for Interim Remedial Action, Hanford 200 Area Superfund Site 200-UP-1 Operable Unit* (12-AMRP-0171) AR/PIR Accession Number 0091413 The major components of the selected remedy for the 200-UP-1 OU are: - groundwater extraction/treatment; - monitored natural attenuation - I-129 hydraulic containment and treatment technology evaluation; - remedy performance monitoring - Institutional Controls.

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Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
RC-DD-1 (Interim)	324 Building and associated soil contamination under the building	324 Building	DOE/RL-2013-02 Table A-2	"**Action Memorandum #2 for the 300 Area Facilities**" Provides for D4 of the 324 and 327 Buildings and ancillary facilities in the 300 Area with D4 waste going to ERDF. The AM provides a list of the ancillary facilities. In general, slabs and subsurface structures would be removed along with about 1 m of surrounding soil; however, on a case-by-case basis, the slabs and/or below-grade structures and soils can be deferred to CERCLA actions associated with the 300-FF-2 OU.
			DOE/RL-2013-02 Table C-21 (PBS RL-0041)	The D4 process includes deactivating the facility by removing loose hazardous materials and equipment; decontaminating the facility to allow open-air demolition; and decommissioning the facility by disconnecting utilities and services. The structure is then demolished using techniques such as track hoe, processor, loader, cranes; explosives, cutting equipment, or other methods and the demolition debris are disposed, generally to ERDF. Following demolition, samples are collected to verify that cleanup criteria are met, and the sites are backfilled and revegetated.
		300-FF-2	DOE/RL-2013-02 Table A-1 CERCLA Interim Action ROD	Declaration of the Interim Record of Decision for the 300-FF-2 Operable Unit (EPA/ROD/R10-01/119): - Remove contaminated soil, structures, and debris; treat as needed; dispose at ERDF, WIPP, or other; - backfill and revegetate; - establish ICs; - continued groundwater monitoring; EPA 2004b. - uranium soil cleanup level from 350 to 267 pCi/g based on engineering study to ensure protectiveness of the groundwater and river; - modified land use assumption for 8 outlying waste sites from industrial to unrestricted changed cleanup levels for these sites to those consistent with 100 Area cleanup.

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Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
			DOE/RL-2013-02 Table A-1 ROD (Final)	Record of Decision for 300-FF-2 and 300-FF-5, and Record of Decision Amendment for 300-FF-1 (Hanford Administrative Record Accession Number: 0087180, 2013) The major components of the selected remedy for the 300-FF-2 OU are: - Remove, Treat and Dispose (RTD) at waste sites - Temporary surface barriers and pipeline void filling - Enhanced attenuation of uranium using sequestration in the Vadose Zone, Periodically Rewetted Zone (PRZ) and top of the aquifer - Institutional Controls (ICs),
RC-DD-2 (Interim)	KE/KW Reactors, basin, ancillary buildings, and associated soil contamination	*105-K Reactor*	DOE/RL-2013-02 Table A-2	**Action Memorandum for the Non-Time-Critical Removal Action for the 105-KE and 105-KW Reactor Facilities and Ancillary Facilities" (DOE and EPA 2007)** Identifies ISS for 105-KE and 105-KW Reactor cores, D&D of reactor components up to the cores and for remaining buildings and structures in 100-K Area. Subsurface structures will be removed 3 ft bgs; substructures and soil beneath facilities that exceed cleanup levels will be evaluated through source OU cleanup activities that are considered final for the ancillary facilities and demolished portions of the reactors. Further decisions are expected on reactor cores in ISS.
		100 K Basins	DOE/RL-2013-02 Table A-1 CERCLA Interim Action ROD	Declaration of the Record of Decision for the 100-KR-2 Operable Unit, (EPA/ROD/R10-99/059) - Remove spent nuclear fuel from basins; - remove sludge from basins, including sludge treatment prior to interim storage; - treat and remove water from the basins; - remove debris from the basins, including grouting in place - deactivate and removal of the basins; and - institute ICs.

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Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
			DOE/RL-2013-02 Table B-2 RC-2	**RC-2 – Disposition 100 Area K West Basin** An interim ROD, ROD amendment, and Action Memorandum are in place for the removal, treatment, and interim onsite storage of spent nuclear fuel and sludge from the K Basins. **Range of Plausible Alternatives** - Remove, treat, and transfer sludge for interim storage at T Plant; - transfer fuel scrap for interim storage at Canister Storage Building; - D4 K West Basin and ancillary structures; - remediate below-grade portions consistent with 100 Area contaminated soil sites.* * May require removing K Reactors to access below-grade contaminated soils. K East Basin was demolished in 2009.
		100-KR-1 (include 100 K Ancillary Bldgs and Legacy sites)	DOE/RL-2013-02 Table A-1	ROD (Interim Action): Interim Action Record of Decision for the 100-BC-1, 100-BC-2, 100-DR-1, 100-DR-2, 100-FR-1, 100-FR-2, 100-HR-1, 100-HR-2, 100-KR-1, 100-KR-2, 100-IU-2, 100-IU-6, and 200-CW-3 Operable Units: (EPA/ROD/R10-99/039) *Remove Treat Dispose for 46 sites; disposal of debris from B, D, H, and K reactors to ERDF; provides decision framework for leaving waste in place, generally below 15-ft depth.*
		100-KR-2 (include 100 K Ancillary Bldgs and Legacy sites)	DOE/RL-2013-02 Table A-1	ROD (Interim Action): Interim Action Record of Decision for the 100-BC-1, 100-BC-2, 100-DR-1, 100-DR-2, 100-FR-1, 100-FR-2, 100-HR-1, 100-HR-2, 100-KR-1, 100-KR-2, 100-IU-2, 100-IU-6, and 200-CW-3 Operable Units: (EPA/ROD/R10-99/039) *Remove Treat Dispose for 46 sites; disposal of debris from B, D, H, and K reactors to ERDF; provides decision framework for leaving waste in place, generally below 15-ft depth.*
			DOE/RL-2013-02 Table A-1	Declaration of the Record of Decision for the 100-BC-1, 100-BC-2, 100-DR-1, 100-DR-2, 100-FR-2, 100-HR-2 and the 100-KR-2 Operable Units (EPA/ROD/R10-00/121) Remove contaminated soil, structures, and debris; treat as needed; dispose at ERDF; backfill and revegetate.

Appendix B: Evaluation Unit Disposition Table

Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
		100 K Ancillary Bldgs	DOE/RL-2013-02 Table A-2	**"Action Memorandum for the Non-Time-Critical Removal Action for the 100-K Area Ancillary Facilities" (DOE and EPA 2005b)** Provides for D4 of 27 buildings/structures in northern part of 100-K Area with D4 waste going to ERDF. In general, slabs and subsurface structures would be removed with about 1 m of surrounding soil; however, on a case-by-case basis, the slabs, below-grade structures and soils can be deferred to CERCLA actions associated with 100-KR-1 and 100-KR-2 source OUs.
			DOE/RL-2013-02 Table A-2	**Action Memorandum for the Non-Time-Critical Removal Action for the 105-KE and 105-KW Reactor Facilities and Ancillary Facilities" (DOE and EPA 2007)** Identifies ISS for 105-KE and 105-KW Reactor cores, D&D of reactor components up to the cores **and for remaining buildings and structures in 100-K Area**. Subsurface structures will be removed 3 ft bgs; substructures and soil beneath facilities that exceed cleanup levels will be evaluated through source OU cleanup activities that are considered final for the ancillary facilities and demolished portions of the reactors. Further decisions are expected on reactor cores in ISS.
RC-DD-3 (Final)	Final Reactor Disposition	100-BC-2	DOE/RL-2014-11 Table A-2 (B Reactor)	Action Memorandum; USDOE, Hanford 100 Area National Priorities List, 105-B Reactor Facility, Hanford Site, Benton County, WA" (DOE and EPA 2001) Identifies appropriate actions at B Reactor to mitigate the threat to site workers, public health or welfare or the environment by removing hazardous substances from the facility; these actions are consistent with increased public access to the reactor building; surveillance and maintenance activities would continue. Any wastes generated during the mitigation activities would be disposed at ERDF.
			DOE/RL-2014-11 Table A-5 (B Reactor)	**2015 National Defense Authorization Act** Authorizing the Manhattan Project National Historical Park B Reactor as the world's first production reactor is a signature facility of the Manhattan Project National Historical Park.

Appendix B: Evaluation Unit Disposition Table

Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
		100-BC-2 100-DR-2 100-FR-2 100-HR-2 100-KR-2	DOE/RL-2014-11 Table A-3 (C, D, DR, F, H, KE and KW Reactors)	Record of Decision: Decommissioning of Eight Surplus Production Reactors at the Hanford Site, Richland, Washington (58 FR 48509) **FINAL** In December 1992, DOE issued the *Final Environmental Impact Statement on Decommissioning of Eight Surplus Production Reactors at the Hanford Site, Richland, WA* (DOE/EIS-0119F). The final EIS analyzed alternatives for decommissioning eight water-cooled, graphite-moderated plutonium production reactors located along the Columbia River. The eight reactors (B, C, D, DR, F, H, KE and KW) The ROD documented the DOE decision for safe storage followed by deferred one-piece removal of the eight surplus reactors. DOE prepared a supplemental analysis to the EIS in July 2010 (*Supplement Analysis, Decommissioning of Eight Surplus Production Reactors at the Hanford Site, Richland, Washington* [DOE/EIS-0119F-SA-01]) to broaden the possible decommissioning approach, retaining the one piece removal option and including the option for immediate dismantlement.

Appendix B: Evaluation Unit Disposition Table

Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
		100-NR-1	DOE/RL-2014-11 Table B-2 RC-1a (N Reactor)	**RC-1a River Corridor – Disposition N Reactor** Final disposition of N Reactor will be determined by a subsequent NEPA or CERCLA decision process. Range of Plausible Alternatives - Demolition of the reactor block in ISS and transport the reactor block intact on a tractor transporter from the present 100 Area location to the 200 West Area for disposal. - Safe storage for a period of up to 75 years of surveillance, monitoring, and maintenance at the end of the safe storage period, demolition of the reactor block and transport of the reactor block intact on a tractor transporter from the present 100 Area location to the 200 West Area for disposal. - Safe storage for a period of up to 75 years of surveillance, monitoring, and maintenance at the end of the safe storage period, demolition of the reactor buildings and piece-by-piece dismantlement of the reactor core and transport of radioactive waste to the 200 West Area for burial. - Demolition of the reactor buildings and SSE and filling voids beneath and around the reactor block, the reactor block, adjacent shield walls, and the spent fuel storage basin together with the contained radioactivity, gravel, and grout covered to a depth of at least 5 meters with a mound containing earth and gravel.
RC-DD-4 (Final)	Fast Flux Test Facility and ancillary buildings and structures	Not Applicable	DOE/RL-2014-11 Table A-3	Record of Decision: Final Tank Closure and Waste Management Environmental Impact Statement for the Hanford Site, Richland, Washington (78 FR 75913) **FINAL** DOE decision to implement FFTF Alternative 2 Entombment

Appendix B: Evaluation Unit Disposition Table

Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
			DOE/RL-2014-11 Table B-3	**CP-17 Central Plateau – Disposition Fast Flux Test Facility (FFTF) Complex** In 1995, DOE determined FFTF would be deactivated. Other decisions have been deferred to future decision-making processes. No decision documents currently available. <u>Range of Plausible Alternatives</u> The following reflect alternatives considered as part of DOE/EIS-0391, *Final Tank Closure and Waste Management Environmental Impact Statement* (TC&WM EIS);: - Entombment – Consolidate buildings and waste, compact, and fill void spaces in the reactor containment building and contaminated ancillary buildings; install a landfill barrier over remaining structures and extend as needed to cover contaminated below-grade portions. - Removal – Remove contaminated equipment and structures; reduce above-grade portions of reactor containment building and ancillary buildings to slab-on-grade; backfill with soil, compact and stabilize remaining below-grade portions; contour and revegetate. - Remove and treat remote-handled special components onsite or at INL; dispose treated components at IDF or Nevada Test Site. Based on ROD Entombment is recommended course of action
			DOE/RL-2014-11 Table B-3	**CP-18 Central Plateau – Disposition Remaining Buildings and Facilities in FFTF Complex** In 1995, DOE determined FFTF would be deactivated. Other decisions have been deferred to future decision-making processes. No decision documents currently available. <u>Range of Plausible Alternatives</u> - D4 all buildings per appropriate removal action work plan; if needed, remediate below-grade portions. Leave structures in place and transition to LTS with appropriate institutional controls.

Appendix B: Evaluation Unit Disposition Table

Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
CP-DD-1 (Interim)	PUREX Canyon, tunnels, ancillary buildings, structures, and associated near-surface contaminated soils	200-CP-1 - Canyon	DOE/RL-2013-02 Table B-3 CP-5	**CP-5– Disposition PUREX Canyon Building/Associated Waste Sites (200-CP-1 OU)** Several action memoranda are in place to remove contaminated soil, structures, and debris from waste sites with disposal at ERDF. Future cleanup decisions for remaining buildings and waste sites will be included in decision documents (e.g., action memoranda, RODs). <u>Range of Alternatives</u> - Remove all contents and D4 PUREX Canyon Building including below-grade foundation; remove all contaminated materials, associated waste sites and contaminated soils to achieve RAOs; dispose all wastes and debris at approved facility. - Condition contents to place in spaces below canyon deck level; stabilize and fill voids; remove contaminated wastes and soils from associated waste sites and dispose at approved facility; partially demolish building to canyon deck level; place engineered barrier over demolished structure; maintain institutional controls and perform post-closure monitoring and caretaking. - Condition contents, retrieve associated waste site contaminated soils and debris, and place in PUREX Canyon for entombment; (option to allow other wastes) stabilize and fill voids; surround with clean fill and place an engineered barrier over the canyon building; maintain institutional controls and perform post-closure monitoring and caretaking.

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Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
		200-CP-1 - Tunnel	DOE/RL-2013-02 Table B-3 CP-6	**CP-6– Disposition PUREX Storage Tunnels (200-CP-1 OU)** Cleanup Decision Summary and Relevant Decision Documents No cleanup decisions have been made for the PUREX Storage Tunnels. <u>Range of Alternatives</u> - Maintain safe storage, perform hazardous waste facility closure consistent with RCRA Permit, remediate radionuclides consistent with CERCLA, and conduct post-closure monitoring. - Stabilize waste and prepare tunnels for in-place disposal, install barrier, perform post-closure care and transition to LTS. - Remove and dispose waste and contaminated equipment from tunnels, evaluate tunnels for residual contamination and remediate tunnels consistent with 200 East Inner Area contaminated soil sites.
		200-MG-1)	DOE/RL-2013-02 Table B-3 CP-5	DOE/RL-2009-48; DOE/RL-2009-86 Action memoranda to remove contaminated soil, structures, and debris from waste sites with disposal at ERDF.
		200-MG-2	DOE/RL-2013-02 Table B-3 CP-5	DOE/RL-2009-37 Action memoranda to remove contaminated soil, structures, and debris from waste sites with disposal at ERDF.

Appendix B: Evaluation Unit Disposition Table

Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
CP-DD-2 (Final)	B Plant: canyon, ancillary buildings, structures, and associated near-surface contaminated soils, includes the D&D of WESF after the capsules are moved into dry storage	200-CB-1	DOE/RL-2014-11 Table B-3 CP-4	**CP-4 Central Plateau – Disposition B Plant Canyon Building/Associated Waste Sites (200-CB-1 OU)** Range of Plausible Alternatives - Remove all contents and D4 B Plant Canyon Building, including below-grade foundation; remove all contaminated materials, associated waste sites, and contaminated soils to achieve RAOs; dispose all waste and debris at approved facility. - Condition contents for placement in spaces below canyon deck level; stabilize and fill voids; remove contaminated wastes and soils from associated waste sites and dispose at approved facility; partially demolish building to canyon deck level; place engineered barrier over demolished structure; maintain institutional controls and perform post-closure monitoring and caretaking. - Condition contents, retrieve associated waste site contaminated soils and debris, and place in B Plant Canyon for entombment; stabilize and fill voids; surround with clean fill and place an engineered barrier over the canyon building; maintain institutional controls and perform post-closure monitoring and caretaking. - Same as preceding (entombment) alternative, with addition of disposal capability to allow receipt of wastes from cleanup activities. - If residual contamination remains after cleanup actions are completed, cleanup work will transition to LTS, including institutional controls and 5-year reviews of remedy effectiveness.
			DOE/RL-2014-11 Table B-3 CP-12	**CP-12– Disposition Remaining Waste Treatment, Storage and Disposal Facilities*** No cleanup decisions have been made for the Remaining Waste Treatment, Storage and Disposal Facilities. Range of Plausible Alternatives - Closure of facilities will be according to approved operating plans and closure plans (e.g., RCRA Closure Plans); consequently, cleanup actions will be determined and accomplished in accordance with applicable regulatory and permit/license requirements. **No other alternatives are being considered.** * Includes LERF/ETF, **WESF,** WRAP, 222-S Lab, IDF, and Inert Waste Landfill/Pit 9.

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Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
CP-DD-3 (Final)	U Plant: canyon, ancillary buildings, structures, and associated near-surface contaminated soils	200-CU-1	221-U ROD	Record of Decision 221-U Facility (Canyon Disposition Initiative)
			DOE/RL-2014-11 Table B-6	**CLEANUP ACTIONS FOR WHICH ALTERNATIVES WOULD NOT BE ANALYZED** Central Plateau–Disposition U Plant (Canyon Building/Associated Waste Sites) **-** U Plant remediation was approved according to a CERCLA Final ROD. If performed, further analysis of alternatives should be done as part of the process under which the current final cleanup decisions were made.
			DOE/RL-2014-11 Table 4-1	**Table 4-1. Central Plateau Cleanup Key Tri-Party Agreement Milestones.** M-016-200A: Complete U Plant Canyon (221-U Facility) demolition in accordance with the remedial design/remedial action work plan. **Milestone Date:** 09/30/2017 M-016-200B: Complete U Plant Canyon (221-U Facility) barrier construction in accordance with the remedial design/remedial action work plan. **Milestone Date:** 09/30/2021

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Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
CP-DD-4 (Final)	REDOX: S Plant canyon, ancillary buildings, except 222-S laboratory, structures, and associated near-surface contaminated soils	200-CR-1	DOE/RL-2014-11 Table B-3 CP-7	Several action memoranda are in place to remove contaminated soil, structures, and debris from waste sites with disposal at ERDF. Future cleanup decisions for remaining buildings and waste sites will be included in decision documents (e.g., action memoranda, RODs). Range of Plausible Alternatives - Remove all contents and D4 REDOX Canyon Building including below-grade foundation; remove all contaminated materials, associated waste sites and contaminated soil to achieve RAOs; dispose all waste and debris at approved facility. - Condition contents for placement in spaces below canyon deck level; stabilize and fill voids; remove contaminated waste and soil from associated waste sites and dispose at approved facility; partially demolish building to canyon deck level; place engineered barrier over demolished structure; maintain institutional controls and perform post-closure monitoring and caretaking. - Condition contents, retrieve associated waste site contaminated soil and debris, and place in REDOX Canyon for entombment; stabilize and fill voids; surround with clean fill and place an engineered barrier over the canyon building; maintain institutional controls and perform post-closure monitoring and caretaking. - Same as preceding (entombment) alternative, with addition of disposal capability to allow receipt of wastes from cleanup activities. - If residual contamination remains after cleanup actions are completed, cleanup work will transition to LTS, including institutional controls and 5-year reviews of remedy effectiveness.

Appendix B: Evaluation Unit Disposition Table

Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
CP-DD-5 (Final)	PFP ancillary buildings, structures, and associated near-surface contaminated soils	200-WA-1	DOE/RL-2014-11 Table B-3 CP-3	**CP-3 Central Plateau – Disposition Below-Grade Portions of Plutonium Finishing Plant** A non-time critical Action Memorandum (DOE/RL-2005-13) is in place, associated TPA milestone decision documents are approved, and D4 activities are being completed for above-grade structures of PFP. Final decisions and cleanup actions have not been made for below-grade structures/contaminated areas and are not identified in the action memorandum. Range of Plausible Alternatives - Evaluate below-grade portions for residual contamination; leave remaining below-grade structures and contaminated areas in-place and transition to LTS with appropriate institutional controls. - RTD all PFP below-grade structures and contaminated areas; backfill and revegetate. - If residual contamination remains after cleanup actions are completed, cleanup work will transition to LTS, including institutional controls and 5-year reviews of remedy effectiveness.

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Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
			DOE/RL-2005-13 Rev 0	*Action Memorandum for the Plutonium Finishing Plant, Above-Grade Structures Non-Time Critical Removal Action*, Rev. 0, DOE and Ecology selected Alternative Four: Slab-on-Grade, consisting of the following primary elements: - Remove the nonradiological and radiological hazardous substances from within the above-grade structures including associated below-grade basements, tunnels, vaults, etc. - Decontaminate, fix contamination, and isolate systems, as needed - Remove above-grade and, as needed, basement, tunnel, vault, etc., equipment - Demolish above-grade structures to grade - Cut off equipment penetrating the structures slab, as needed, and seal penetrations to prevent intrusion or leakage - Dispose of the various waste forms generated during these operations - Stabilize the area - Install a cover, as needed - Conduct periodic S&M.

Appendix B: Evaluation Unit Disposition Table

Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
RC-OP-1 (Interim)	KE/KW Fuel Storage and Sludge	105-K Reactor	DOE/RL-2013-02 Table A-2	**Action Memorandum for the Non-Time-Critical Removal Action for the 105-KE and 105-KW Reactor Facilities and Ancillary Facilities" (DOE and EPA 2007)** Identifies ISS for 105-KE and 105-KW Reactor cores, D&D of reactor components up to the cores and for remaining buildings and structures in 100-K Area. Subsurface structures will be removed 3 ft bgs; substructures and soil beneath facilities that exceed cleanup levels will be evaluated through source OU cleanup activities that are considered final for the ancillary facilities and demolished portions of the reactors. Further decisions are expected on reactor cores in ISS.
		100 K Basins	DOE/RL-2013-02 Table A-1 CERCLA Interim Action ROD	Declaration of the Record of Decision for the 100-KR-2 Operable Unit, (EPA/ROD/R10-99/059)) - Remove spent nuclear fuel from basins; - remove sludge from basins, including sludge treatment prior to interim storage; - treat and remove water from the basins; - remove debris from the basins, including grouting in place - deactivate and removal of the basins; and - institute ICs.
			DOE/RL-2013-02 Table B-2 RC-2	**RC-2 – Disposition 100 Area K West Basin** An interim ROD, ROD amendment, and Action Memorandum are in place for the removal, treatment, and interim onsite storage of spent nuclear fuel and sludge from the K Basins. <u>Range of Plausible Alternatives</u> - Remove, treat, and transfer sludge for interim storage at T Plant; - transfer fuel scrap for interim storage at Canister Storage Building; - D4 K West Basin and ancillary structures; - remediate below-grade portions consistent with 100 Area contaminated soil sites.* * May require removing K Reactors to access below-grade contaminated soils. K East Basin was demolished in 2009.

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Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
		100-KR-2 (include 100 K Ancillary Bldgs and Legacy sites)	DOE/RL-2013-02 Table A-1	ROD (Interim Action): Interim Action Record of Decision for the 100-BC-1, 100-BC-2, 100-DR-1, 100-DR-2, 100-FR-1, 100-FR-2, 100-HR-1, 100-HR-2, 100-KR-1, 100-KR-2, 100-IU-2, 100-IU-6, and 200-CW-3 Operable Units: (EPA/ROD/R10-99/039) *Remove Treat Dispose for 46 sites; disposal of debris from B, D, H, and K reactors to ERDF; provides decision framework for leaving waste in place, generally below 15-ft depth.*
			DOE/RL-2013-02 Table A-1	Declaration of the Record of Decision for the 100-BC-1, 100-BC-2, 100-DR-1, 100-DR-2, 100-FR-2, 100-HR-2 and the 100-KR-2 Operable Units (EPA/ROD/R10-00/121) Remove contaminated soil, structures, and debris; treat as needed; dispose at ERDF; backfill and revegetate.
RC-OP-2	Retained Office of Science facilities including the 318, 320,325,331, and 350 building.	300-FF-2	NA	A description only is provided in the final report. An evaluation template has not been completed.
CP-OP-1 (Interim)	Central Waste Complex (CWC) operations, closure, and D&D.		DOE/RL-2013-02 Table B-3 CP-12	**CP-12– Disposition Remaining Waste Treatment, Storage and Disposal Facilities*** No cleanup decisions have been made for the Remaining Waste Treatment, Storage and Disposal Facilities. Range of Plausible Alternatives - Closure of facilities will be according to approved operating plans and closure plans (e.g., RCRA Closure Plans); consequently, cleanup actions will be determined and accomplished in accordance with applicable regulatory and permit/license requirements. **No other alternatives are being considered.** * Includes LERF/ETF, WESF, WRAP, 222-S Lab, IDF, and Inert Waste Landfill/Pit 9. (Note: CWC not specifically mentioned but would fall into this category)

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Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
CP-OP-2 (Final)	T Plant: canyon, ancillary buildings, structures; evaluate through operations, then will be preserved as a historical site or undergo D&D	Not Applicable	DOE/RL-2014-11 Table B-3 CP-8	**CP-8 Central Plateau – Disposition T Plant Canyon Building/Associated Waste Sites** No cleanup decisions have been made for the T Plant Canyon Building and Associated Waste Sites. Current expectations are that T Plant will continue to be used to support other remediation and waste management work. <u>Range of Plausible Alternatives</u> - Continue ongoing and planned operations until 2036; transition to D4 in 2038; fulfill hazardous waste facility closure obligations consistent with RCRA Permit. - Remove all contents and D4 T Plant Canyon Building including below-grade foundation; remove all contaminated materials, associated waste sites and contaminated soil to achieve RAOs; dispose all waste and debris at approved facility. - Condition contents for placement in spaces below canyon deck level; stabilize and fill voids; remove contaminated wastes and soils from associated waste sites and dispose at approved facility; partially demolish building to canyon deck level; place engineered barrier over demolished structure; maintain institutional controls and perform post-closure monitoring and caretaking. - Condition contents, retrieve associated waste site contaminated soil and debris, and place in T Plant Canyon for entombment; stabilize and fill voids; surround with clean fill and place an engineered barrier over the canyon building; maintain institutional controls and perform post-closure monitoring and caretaking. - Same as preceding (entombment) alternative, with addition of disposal capability to allow receipt of waste from cleanup activities. - If residual contamination remains after cleanup actions are completed, cleanup work will transition to LTS, including institutional controls and 5-year reviews of remedy effectiveness.

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Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
CP-OP-3 (Interim)	Waste Encapsulation and Storage Facility (WESF): Evaluate for the storage and removal of Cs/Sr Capsules; D&D included with B Plant EU	Not Applicable	DOE/RL-2013-02 Table B-3 CP-9	**CP-9 – Disposition Cesium/Strontium Capsules** No cleanup decisions have been made for final disposition of the cesium/strontium capsules. Decisions have been deferred to future decision-making processes. Range of Plausible Alternatives - Package and transport capsules from WESF to dry storage; store capsules pending final disposition; direct disposal of capsules at a geologic repository. - Incorporate capsules into immobilized high-level waste glass at WTP. - Store capsules at Hanford for 300 years (approximately 10 half-lives); after natural decay, direct dispose of capsules as mixed low-level radioactive waste.
CP-OP-4 (Final)	Waste Repackaging and Processing (WRAP) facility operations, closure, and D&D	Not Applicable	DOE/RL-2014-11 Table B-3 CP-12	**CP-12– Disposition Remaining Waste Treatment, Storage and Disposal Facilities*** No cleanup decisions have been made for the Remaining Waste Treatment, Storage and Disposal Facilities. Range of Plausible Alternatives - Closure of facilities will be according to approved operating plans and closure plans (e.g., RCRA Closure Plans); consequently, cleanup actions will be determined and accomplished in accordance with applicable regulatory and permit/license requirements. **No other alternatives are being considered.** * Includes LERF/ETF, WESF, WRAP, 222-S Lab, IDF, and Inert Waste Landfill/Pit 9.
CP-OP-5 (Final)	Canister Storage Building (CSB) operations and closure (including adjacent spent fuel dry storage pad)	Not Applicable	DOE/RL-2014-11 Table B-3 CP-12	**CP-12– Disposition Remaining Waste Treatment, Storage and Disposal Facilities*** No cleanup decisions have been made for the Remaining Waste Treatment, Storage and Disposal Facilities. Range of Plausible Alternatives - Closure of facilities will be according to approved operating plans and closure plans (e.g., RCRA Closure Plans); consequently, cleanup actions will be determined and accomplished in accordance with applicable regulatory and permit/license requirements. **No other alternatives are being considered.** * Includes LERF/ETF, WESF, WRAP, 222-S Lab, IDF, and Inert Waste Landfill/Pit 9. (Note: CSB not specifically mentioned but would fall into this category)

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Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
CP-OP-6 (Interim)	Environmental Restoration Disposal Facility (ERDF) operations and closure	Not Applicable	DOE/RL-2013-02 Table A-1 FINAL ROD	Declaration of the Record of Decision for the Environmental Restoration Disposal Facility (EPA/ROD/R10- 95/100) - landfill construction in accordance with RCRA although managed under CERCLA; - Interim cover as each cell completed; final cap at completion.
			DOE/RL-2013-02 Table B-6	Central Plateau–Manage ERDF - ERDF was approved according to a CERCLA Final ROD and closure and postclosure care are part of the operating documentation. Alternatives need not be analyzed, unless future decisions are made that modify the current final ERDF decisions.
CP-OP-7 (Final)	Integrated Disposal Facility (IDF) operations and closure	Not Applicable	DOE/RL-2014-11 Table B-3 CP-12	**CP-12– Disposition Remaining Waste Treatment, Storage and Disposal Facilities*** No cleanup decisions have been made for the Remaining Waste Treatment, Storage and Disposal Facilities. <u>Range of Plausible Alternatives</u> - Closure of facilities will be according to approved operating plans and closure plans (e.g., RCRA Closure Plans); consequently, cleanup actions will be determined and accomplished in accordance with applicable regulatory and permit/license requirements. **No other alternatives are being considered.** * Includes LERF/ETF, WESF, WRAP, 222-S Lab, IDF, and Inert Waste Landfill/Pit 9.

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Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
CP-OP-8 (Final)	Mixed waste trenches: operations and closure of Trenches 31 and 34, next to WRAP	200-SW-2	DOE/RL-2014-11 Table B-3 CP-14	**CP-14 Central Plateau – Remediate Land Disposal Units (200-SW-2 OU)** No cleanup decisions have been made to remediate the 200-SW-2 OU. (Note that this OU is not a single contaminated site, but comprises a large number of land disposal units.) <u>Range of Plausible Alternatives</u> - Excavation, treatment (as necessary), and disposal of all waste from within individual landfills. - Excavation, treatment (as necessary), and disposal of waste from selected sections of individual landfills followed by capping of remaining waste; includes continued cap maintenance and monitoring. - Capping of individual landfills; includes continued cap maintenance and monitoring. - In situ treatment/stabilization (e.g., vitrification or grouting) of portions of individual landfills followed by capping; includes continued cap maintenance and monitoring. - If residual contamination remains after cleanup actions are completed, cleanup work will transition to LTS, including institutional controls and 5-year reviews of remedy effectiveness.

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Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
CP-OP-9 (Final)	Naval reactors disposal trench operations and closure	200-SW-2	DOE/RL-2014-11 Table B-3 CP-14	**CP-14 Central Plateau – Remediate Land Disposal Units (200-SW-2 OU)** No cleanup decisions have been made to remediate the 200-SW-2 OU. (Note that this OU is not a single contaminated site, but comprises a large number of land disposal units.) <u>Range of Plausible Alternatives</u> - Excavation, treatment (as necessary), and disposal of all waste from within individual landfills. - Excavation, treatment (as necessary), and disposal of waste from selected sections of individual landfills followed by capping of remaining waste; includes continued cap maintenance and monitoring. - Capping of individual landfills; includes continued cap maintenance and monitoring. - In situ treatment/stabilization (e.g., vitrification or grouting) of portions of individual landfills followed by capping; includes continued cap maintenance and monitoring. - If residual contamination remains after cleanup actions are completed, cleanup work will transition to LTS, including institutional controls and 5-year reviews of remedy effectiveness.

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Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
CP-OP-10 (Final)	Operations and D&D of the 242-A Evaporator	Not Applicable	DOE/RL-2014-11 Table B-4 TW-2	**TW-2 Tank Waste – Tank Waste Treatment** DOE decided to retrieve, separate, vitrify, and dispose the tank waste (62 FR 8693). The ILAW would be treated for onsite disposal (in the Integrated Disposal Facility) and the vitrified HLW would be placed in interim storage pending future disposal at a national geologic repository. The 242-A Evaporator is critical to the success of tank waste treatment because it currently is the only evaporator that can remove water from the waste to create additional storage space in Hanford's double-shell tanks. Without this space, waste cannot be retrieved from the single-shell tanks and moved to safer double-shell tanks. Operation of the 242-A Evaporator would be required for the next several decades. Further decisions, including those for the 242-A Evaporator, have been deferred to future decision-making processes. <u>Range of Plausible Alternatives</u> - Closure of facilities will be according to approved operating plans and closure plans (e.g., RCRA Closure Plans); consequently, cleanup actions will be determined and accomplished in accordance with applicable regulatory and permit/license requirements. **No other alternatives are being considered.**
CP-OP-11 (Final)	Operations and closure of the Liquid Effluent Retention Facility (LERF) and Effluent Treatment Facility (ETF)	Not Applicable	DOE/RL-2014-11 Table B-3 CP-12	**CP-12– Disposition Remaining Waste Treatment, Storage and Disposal Facilities*** No cleanup decisions have been made for the Remaining Waste Treatment, Storage and Disposal Facilities. <u>Range of Plausible Alternatives</u> - Closure of facilities will be according to approved operating plans and closure plans (e.g., RCRA Closure Plans); consequently, cleanup actions will be determined and accomplished in accordance with applicable regulatory and permit/license requirements. **No other alternatives are being considered.** * Includes **LERF/ETF**, WESF, WRAP, 222-S Lab, IDF, and Inert Waste Landfill/Pit 9.

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Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
CP-OP-12 (Final)	Operations and closure of the Treated Effluent Disposal Facility (TEDF)	Not Applicable	DOE/RL-2014-11 Table B-3 CP-12	**CP-12– Disposition Remaining Waste Treatment, Storage and Disposal Facilities*** No cleanup decisions have been made for the Remaining Waste Treatment, Storage and Disposal Facilities. <u>Range of Plausible Alternatives</u> - Closure of facilities will be according to approved operating plans and closure plans (e.g., RCRA Closure Plans); consequently, cleanup actions will be determined and accomplished in accordance with applicable regulatory and permit/license requirements. **No other alternatives are being considered.** * Includes **LERF**/ETF, WESF, WRAP, 222-S Lab, IDF, and Inert Waste Landfill/Pit 9.
CP-OP-13 (Final)	Operations and closure of the State Approved Land Disposal Sites (SALDS)	Not Applicable	DOE/RL-2014-11 Table B-3 CP-11	**CP-11– Disposition Remaining Liquid Waste Disposal Facilities*** No cleanup decisions have been made for the Remaining Liquid Waste Disposal Facilities. <u>Range of Plausible Alternatives</u> - Closure of facilities will be according to approved operating plans and closure plans. - If needed, may remediate contaminated soil under zone closure; may include partial RTD with various capping alternatives; monitoring and institutional controls after closure may be required. - RTD all contaminated soil; backfill and revegetate. - Allow monitored natural attenuation to proceed under LTS with appropriate institutional controls. - If residual contamination remains after cleanup actions are completed, cleanup work will transition to LTS, including institutional controls and 5-year reviews of remedy effectiveness. * Includes State-Approved Land Disposal Site; State Waste Discharge Permit Sites; 100-N Sewage Lagoon; onsite Sewage Systems; National Pollutant Discharge Elimination System Outfalls; and Underground Injection Control Well Sites.

Appendix B: Evaluation Unit Disposition Table

Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
CP-OP-14 (Final)	WTP operations and D&D; includes new tanks (if needed), preconditioning, four major facilities, and interim storage elements	Not Applicable	DOE/RL-2014-11 Table B-4 TW-2	**TW-2 Tank Waste – Tank Waste Treatment** DOE decided to retrieve, separate, vitrify, and dispose the tank waste (62 FR 8693). The ILAW would be prepared for onsite disposal (in the Integrated Disposal Facility) and the vitrified HLW would be placed in interim storage pending future disposal at a national geologic repository. Further decisions have been deferred to future decision-making processes. <u>Range of Plausible Alternatives</u> - Pretreat, condition, and immobilize tank wastes in the WTP to meet TPA milestones and comply with RCRA Permit; operate supplemental treatment systems (assumed to be second LAW) to augment WTP capacity; place immobilized waste in canisters (wasteform assumed to be glass); transfer ILAW for disposal at the IDF; provide capacity to store all immobilized HLW in Hanford Shipping Facility or Interim Hanford Storage Facility (new) until a final repository is available. - Perform blending and waste characterization at a new Enhanced Waste Receiving Facility. - Closure of facilities will be according to approved operating plans and closure plans (e.g., RCRA Closure Plans); consequently, cleanup actions will be determined and accomplished in accordance with applicable regulatory and permit/license requirements. **No other alternatives are being considered.**
			DOE/RL-2014-11 Table B-4 TW-3	**TW-3 Tank Waste – Secondary Waste Treatment** No cleanup decisions have been made. Decisions have been deferred to future decision-making processes. <u>Range of Plausible Alternatives</u> - Recycle liquid waste streams in WTP; manage residual liquid waste at LERF/ETF/SALDS; treat solid waste from WTP and ETF and dispose at IDF; manage and disposition other secondary waste (e.g., failed melters). Other plausible alternatives will be determined at a later date. **Note**: Any radioactive HLW will be stored and eventually shipped to a geologic repository.

Appendix B: Evaluation Unit Disposition Table

Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
			DOE/RL-2014-11 Table B-4 TW-5	**TW-5 Tank Waste – WTP Closure** Clean closure is the goal for the WTP. The closure plan will be revised if efforts to achieve the clean closure standards for the WTP structures or soil are unsuccessful. The "modified closure" approach may be followed if feasible, as provided in Condition II.K.3 of the Hanford RCRA Permit. It also may be closed as a landfill, as provided in Condition II.K.4 of the Hanford RCRA Permit, if the clean closure standards are not technically or economically feasible. The revised closure plan will be accompanied by a written request for modification of the permit." Further decisions have been deferred to future decision-making processes. <u>Range of Plausible Alternatives</u> - Demolish ancillary facilities/structures to the primary containment structure; seal containment structure and construct a soil-based environmental barrier over the containment structure; remediate structures and soils; maintain post-closure care and monitoring consistent with RCRA Permit. - D4 all buildings and facilities to slab-on-grade; evaluate below-grade portions for residual contamination; if needed, remediate below-grade portions. - Perform clean closure of WTP and all ancillary facilities/structures. - Leave structures in place and transition to LTS with appropriate institutional controls. - If residual contamination remains after cleanup actions are completed, cleanup work will transition to LTS, including institutional controls and 5-year reviews of remedy effectiveness.
CP-OP-15 (Final)	Operations and D&D of the 222-S Laboratory	Not Applicable	DOE/RL-2014-11 Table B-3 CP-12	**CP-12– Disposition Remaining Waste Treatment, Storage and Disposal Facilities*** No cleanup decisions have been made for the Remaining Waste Treatment, Storage and Disposal Facilities. <u>Range of Plausible Alternatives</u> - Closure of facilities will be according to approved operating plans and closure plans (e.g., RCRA Closure Plans); consequently, cleanup actions will be determined and accomplished in accordance with applicable regulatory and permit/license requirements. **No other alternatives are being considered.** * Includes LERF/ETF, WESF, WRAP, **222-S Lab**, IDF, and Inert Waste Landfill/Pit 9.

Appendix B: Evaluation Unit Disposition Table

Evaluation Unit (EU) ID*	Description & Comments	Operable Unit Cross-walk	Reference	Existing Cleanup Decisions
CP-OP-16	Not Used			
CP-OP-17 (Final)	Waste Sampling and Characterization Facility (WSCF) and ancillary buildings and structures	200-ZP-1	DOE/RL-2014-11 Table B-3 CP-19	**Cleanup Decision Summary and Relevant Decision Documents** Cleanup decisions have been made for D&D of some of the Remaining Inner Area Buildings and Facilities, and the applicable action memorandum (DOE/RL-2010-22) is expected to cover future D&D activities. DOE considers D&D of buildings and other structures to be final cleanup decisions if all regulated contaminants have been removed in accordance with an applicable action memorandum. Alternatives do not need to be considered where such D&D has been completed. (Note that cleanup decisions have been or will be made for the Canyon Buildings and Associated Waste Sites; see separate cleanup actions for these facilities.) DOE/RL-2010-22, 2010, *Action Memorandum for General Hanford Site Decommissioning Activities*, Rev. 0, <u>Range of Plausible Alternatives</u> - D4 all buildings and facilities to slab-on-grade; evaluate below-grade portions for residual contamination; if needed, remediate below-grade portions consistent with contiguous contaminated soil sites. Leave structures in place and transition to LTS with appropriate institutional controls.