

APR 07 2000

ENGINEERING DATA TRANSMITTAL

2. To: (Receiving Organization) Distribution		3. From: (Originating Organization) Fluor Hanford		4. Related EDT No.: N/A	
5. Proj./Prog./Dept./Div.: River Corridor Project/ 300A Liquid Effluent Facilities		6. Design Authority/ Design Agent/Cog. Engr.: RT Stordeur/LD Berneski/EJ Wright		7. Purchase Order No.: N/A	
8. Originator Remarks: This document establishes the Authorization Envelopes according to HNF-PRO-2701 for the two Liquid Effluent Facilities: 310 Treated Effluent Facility, and 340 Waste Handling Facility. <i>omit 101230/AD60 rel. HNWMOIC/</i>				9. Equip./Component No.: N/A	
				10. System/Bldg./Facility: 310 and 340 Facilities	
11. Receiver Remarks: 11A. Design Baseline Document? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				12. Major Assm. Dwg. No.: N/A	
				13. Permit/Permit Application No.: N/A	
				14. Required Response Date: March 31, 2000	

15. DATA TRANSMITTED					(F)	(G)	(H)	(I)
(A) Item No.	(B) Document/Drawing No.	(C) Sheet No.	(D) Rev. No.	(E) Title or Description of Data Transmitted	Approval Designator	Reason for Transmittal	Originator Disposition	Receiver Disposition
1	HNF-6148	N/A	0	300 Liquid Effluent Facilities Authorization Envelope	E, S, Q	1 & 2	1	

16. KEY			
Approval Designator (F)	Reason for Transmittal (G)	Disposition (H) & (I)	
E, S, Q, D, &/or N/A (see HNF-PRO-233, Rev.0)	1. Approval 2. Release 3. Information 4. Review 5. Post-Review 6. Dist. (Receipt Acknow. Required)	1. Approved 2. Approved w/comment 3. Disapproved w/comment	4. Reviewed no/comment 5. Reviewed w/comment 6. Receipt acknowledged

17. SIGNATURE/DISTRIBUTION (See Approval Designator for required signatures)											
(G) Reason	(H) Disp.	(J) Name	(K) Signature	(L) Date	(M) MSIN	(G) Reason	(H) Disp.	(J) Name	(K) Signature	(L) Date	(M) MSIN
1		Design Authority (310)	E.D. Berneski	3/16/00	L6-04	3		A.M. Horner			L6-57
1		Design Authority (340)	R.T. Stordeur	3/16/00	L6-04	3		L.E. Simmons			L5-66
1		Document Author	E.J. Wright	3/16/00	L6-04	3		R.J. Koll			L6-57
1		Cog. Mgr.	D.L. Halgren	3/16/00	L6-04	3		J.M. Steffen			L5-66
1		QA	D.R. Schell	3/16/00	L6-05	3		S.B. Garnett			L6-05
1		Safety	S.A. Norling	3/16/00	L6-57	3		E.C. Vogt			L5-66
1		Env.	J.R. Robertson	3/16/00	H0-12	3		G. Richardson			H0-12
1		Facility Director	D.J. McBride	3/16/00	S7-41	3		R.A. Quintero			S7-41
1		Vice Pres. RCP	N.C. Boyter	3/16/00	H0-12	3		R.F. Guercia			H0-12
3		DOE Reading Room	(for)		H2-53	3		Central Files			B1-07

18. R.T. Stordeur <i>[Signature]</i> Signature of EDT Originator Date: 3/30/00		19. _____ Authorized Representative Date for Receiving Organization		20. D.L. Halgren <i>[Signature]</i> Design Authority/Cognizant Manager Date: 3/15/00		21. DOE APPROVAL (if required) Ctrl. No. <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/comments <input type="checkbox"/> Disapproved w/comments	
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HNF-6148
Revision 0

300 Area Liquid Effluent Facilities Authorization Envelope

Prepared for the U.S. Department of Energy
Assistant Secretary for Environmental Management

Project Hanford Management Contractor for the
U.S. Department of Energy under Contract DE-AC06-96RL13200

Fluor Hanford

P.O. Box 1000

Richland, Washington

300 Area Liquid Effluent Facilities Authorization Envelope

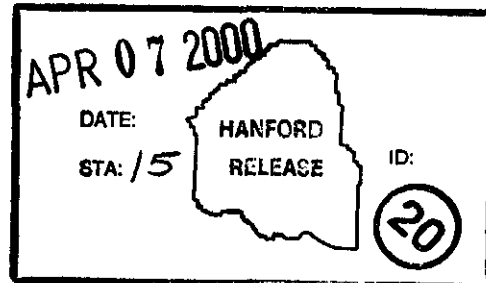
E. J. Wright
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Date Published
April 2000

Prepared for the U.S. Department of Energy
Assistant Secretary for Environmental Management

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Janis Cardal 4/7/00
Release Approval Date

Release Stamp

Key Words: Authorization Envelope, AE, Liquid Effluent Facilities, LEF, 300 Area, 310 Facility, 340 Facility, HNF-PRO-2701

Abstract: The purpose of this document is to establish the facility Authorization Envelope (AE) for the 300 Liquid Effluent Facilities (LEF) Project and identify the requirements related to the maintenance of the AE as specified in HNF-PRO-2701, *Authorization Envelope and Authorization Agreement*. The 300 LEF Project consists of two separate facilities operating under one management organization. They are the 310 Facility and the 340 Facility. The AE documents the limits of operations for all 300 LEF Project activities.

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300 Area Liquid Effluent Facilities Authorization Envelope

1.0 PURPOSE

The purpose of this document is to establish the facility Authorization Envelope (AE) for the 300 Liquid Effluent Facilities (LEF) Project and identify the requirements related to the maintenance of the AE as specified in HNF-PRO-2701, *Authorization Envelope and Authorization Agreement*.

1.1 Scope

The AE documents the limits of operations for all 300 LEF Project activities. The AE identifies the environmental, safety, and health (ES&H) requirements and controls and the safety basis within which facility operations and activities are authorized. The requirement to prepare an Authorization Envelope is from HNF-MP-003, *Integrated Environment, Safety and Health Management System Plan (ISMS)*, facility-level expectation F33, which requires Major Subcontractors (MSCs) to document and maintain their Authorization Envelopes, including identifying the process to review, approve, and update the AE.

1.2 Facility Organization

The 300 LEF Project consists of two separate facilities operating under one management organization. They are the 310 Facility and the 340 Facility. The 310 Facility consists of the 310 Treated Effluent Disposal Facility, 342A Building (waste collection sump), the 307 Waste Retention Basins, 3707-F and the Process Sewer System. The 340 Facility consists of the 340 Waste Handling Facility, which includes the 340, 340-A, and 340-B buildings and the 340 vault/tanks, valve pit, and the Radioactive Liquid Waste System piping network. Both facilities are operated as part of the River Corridor Project (RCP) of Fluor Hanford, Inc.

2.0 REQUIREMENTS

HNF-PRO-2701 requires the establishment of processes to:

- Review and approve the AE
- Maintain the AE current
- Perform work in accordance with the AE.

The individual facility AE's are presented in Appendices A & B.

2.1 Review Requirements

The AE shall be reviewed and updated annually, subject to section 2.3 exceptions. The requirement to perform the review will be incorporated into the 300 LEF Project Action/Commitment Tracking System.

300 Area Liquid Effluent Facilities Authorization Envelope

2.2 Approval Requirements

The approval authority for the AE shall be the Vice President, River Corridor Project.

2.3 Revision Requirements

The AE shall be revised if new documents are added or documents currently identified as part of the AE are deleted. Regarding updates to documents and permits already listed, it is advised that they be checked for the most recent revision or version.

3.0 REFERENCES

HNF-MP-003, *Integrated Environment, Safety, and Health Management System Plan*
HNF-PRO-2701, *Authorization Envelope and Authorization Agreement*

300 Area Liquid Effluent Facilities Authorization Envelope

APPENDIX A - Authorization Envelope	
<p>Facility: 310 Treated Effluent Disposal Facility</p> <p>Hazard Categorization: Non-Nuclear, Moderate Hazard</p> <p>Operated by: River Corridor Project</p>	
<p>Safety Basis</p>	<p><u>Hazard Baseline Documentation</u></p> <ul style="list-style-type: none"> • WHC-SD-WM-SAD-025, Rev. 3, <i>Hanford 300 Area Treated Effluent Disposal Facility Inventory at Risk Calculations and Safety Analysis</i> • HNF-SD-WM-SAD-027, Rev. 0, <i>Hanford 300 Area Retention Process Sewer - Inventory at Risk Calculations and Safety Analysis</i> • WHC-SD-L045H-FHA-001, <i>Fire Hazard Analysis</i> • WHC-SD-PRP-HA-026, Rev. 1, <i>300 Area Treated Effluent Disposal Facility Hazards Assessment</i>
<p>ES&H Requirements Basis</p>	<p><u>Defined Requirements Basis</u></p> <ul style="list-style-type: none"> • HSRCM-2, Rev.0, Section 2.6, <i>TEDF Posting/Labeling Technical Equivalency Determination</i> • WHC-SD-L045H-PC-001, Rev. 1, <i>300 Area Treated Effluent Disposal Facility Operating Specification Document</i> • DOE O 151.1 - Transportation Emergency Preparedness; (Partial Implementation) • DOE O 225.1A - Accident Investigations • DOE O 232.1A - Occurrence Reporting and Processing of Operations Information • DOE M 232.1-1A - Occurrence Reporting and Processing of Operations Information • DOE O 414.1 - Quality Assurance • DOE O 430.1 - Life-Cycle Asset Management • DOE O 442.1 - Department of Energy Employee Concern Program • DOE O 460.1A - Packaging and Transportation Safety • DOE 4330.4B - Maintenance Management Program • DOE 5400.1 - General Environmental Protection Program • DOE 5400.5 - Radiation Protection of the Public and the Environment • DOE 5440.1E - National Environmental Policy Act Compliance Program • DOE 5480.10 - Contractor Industrial Hygiene Program • DOE 5480.11 - Radiation Protection for Occupational Workers • DOE 5480.19 - Conduct of Operations Requirements for DOE Facilities • DOE 5480.4 - Environmental Protection, Safety, and Health Protection Standards • DOE 5480.7A - Fire Protection • DOE 5480.9A - Construction Project Safety and Health Management • DOE 5481.1B - Safety Analysis and Review System • DOE 5483.1A - Occupational Safety and Health Program for DOE Contractor Employees at Government-Owned Contractor-Operated (GOCO) Facilities • DOE 5484.1 - Environmental Protection, Safety, and Health Protection Information Reporting Requirements • DOE 6430.1A - General Design Criteria • DOE N 5480.11 - Extension of Radiological Control Manual, Rev. 1 • SEN-15-90 - National Environmental Policy Act

300 Area Liquid Effluent Facilities Authorization Envelope

APPENDIX A - Authorization Envelope	
<p>Facility: 310 Treated Effluent Disposal Facility</p> <p>Hazard Categorization: Non-Nuclear, Moderate Hazard</p> <p>Operated by: River Corridor Project</p>	
	<ul style="list-style-type: none"> • SEN-39-92 - Department of Energy Occupational Safety and Health (OSH) Incentives Program • RLID 232.1 - Occurrence Reporting and Processing of Operations Information • RLID 5480.7 - Fire Protection • RLID 5480.19 - Conduct of Operations Requirements for RL • DOE-0223 - RL Emergency Implementing Procedures • DOE/RL-92-36 - Hanford Site Hoisting and Rigging Manual • DOE/RL-92-49 Radiological Assistance Program Plan – Region 8 • DOE/RL-96-109 - Hanford Site Radiological Control Manual • DOE-RL-SOD-INST-L&T.001 Hanford Site Lockout/Tagout Program <p><u>Commitments</u></p> <ul style="list-style-type: none"> • WHC-SD-L045H-PLN-004, Rev. 1, <i>300 Area TEDF NPDES Permit Compliance Monitoring Plan</i> • WMH-9856250, <i>Conduct of Operations Applicability Matrix (300 Area LEF/310)</i> • WMH-9855965 R1, <i>310 Facility Maintenance Implementation Plan, Rev. 1</i>
Environmental Protection Basis	<p><u>Permits</u></p> <ul style="list-style-type: none"> • NPDES Permit WA-002591-7 • Aquatic Lands Sewer Outfall Lease No. 20-13357 • Revised Form 2, <i>Notification of Dangerous Waste Activities</i> • DOE/EA-0383 FONSI • NEPA Categorical Exclusions • Cultural Resources Review HCRC #92-300-007

300 Area Liquid Effluent Facilities Authorization Envelope

APPENDIX B - Authorization Envelope	
Facility: 340 Waste Handling Facility Hazard Categorization: Category III Nuclear Operated by: River Corridor Project	
Safety Basis	<p><u>Authorization Basis Documentation</u></p> <ul style="list-style-type: none"> • HNF-SD-WM-ISB-003, Rev. 2, <i>340 Waste Handling Facility Interim Safety Basis</i> <p><u>Hazard Baseline Documentation</u></p> <ul style="list-style-type: none"> • WHC-SD-PRP-HA-021, Rev. 0, <i>340 Building Hazards Assessment</i> • WHC-SD-SQA-CSA-20379, Rev. 1, <i>Criticality Safety Evaluation Report for 340 Facility</i> • WHC-SD-WM-FHA-011, Rev. 1, <i>340 Complex Fire Hazard Analysis</i>
ES&H Requirements Basis	<p><u>Defined Requirements Basis</u></p> <ul style="list-style-type: none"> • HNF-SD-MP-SRID-011, Rev. 0, <i>Waste Management Operations Standards/Requirements Identification Document</i> • DOE O 151.1 – Transportation Emergency Preparedness; (Partial Implementation) • DOE O 225.1A – Accident Investigations • DOE O 232.1A – Occurrence Reporting and Processing of Operations Information • DOE M 232.1-1A – Occurrence Reporting and Processing of Operations Information • DOE O 414.1 – Quality Assurance • DOE O 430.1 - Life-Cycle Asset Management • DOE O 442.1 – Department of Energy Employee Concern Program • DOE O 460.1A - Packaging and Transportation Safety • DOE 4330.4B - Maintenance Management Program • DOE 5400.1 - General Environmental Protection Program • DOE 5400.5 - Radiation Protection of the Public and the Environment • DOE 5440.1E - National Environmental Policy Act Compliance Program • DOE 5480.10 - Contractor Industrial Hygiene Program • DOE 5480.11 - Radiation Protection for Occupational Workers • DOE 5480.19 - Conduct of Operations Requirements for DOE Facilities • DOE 5480.20A - Personnel Selection, Qualifications, and Training Requirements for DOE Nuclear Facilities • DOE 5480.21 - Unreviewed Safety Questions • DOE 5480.22 - Technical Safety Requirements • DOE 5480.23 - Nuclear Safety Analysis Reports • DOE 5480.24 - Nuclear Criticality Safety • DOE 5480.28 - Natural Phenomena Hazards Mitigation • DOE 5480.31 - Startup and Restart of Nuclear Facilities • DOE 5480.4 – Environmental Protection, Safety, and Health Protection Standards • DOE 5480.7A - Fire Protection • DOE 5480.9A - Construction Project Safety and Health Management • DOE 5481.1B - Safety Analysis and Review System • DOE 5483.1A - Occupational Safety and Health Program for DOE Contractor Employees at Government-Owned Contractor-Operated (GOCO) Facilities

300 Area Liquid Effluent Facilities Authorization Envelope

APPENDIX B - Authorization Envelope	
<p>Facility: 340 Waste Handling Facility Hazard Categorization: Category III Nuclear Operated by: River Corridor Project</p>	
	<ul style="list-style-type: none"> • DOE 5484.1 - Environmental Protection, Safety, and Health Protection Information Reporting Requirements • DOE 5820.2A - Radioactive Waste Management • DOE 6430.1A - General Design Criteria • DOE N 5400.9 - Sealed Radioactive Source • DOE N 5480.11 - Extension of Radiological Control Manual, Rev. 1 • SEN-15-90 – National Environmental Policy Act • SEN-35-91 – Nuclear Safety Policy • SEN-39-92 – Department of Energy Occupational Safety and Health (OSH) Incentives Program • RLID 232.1 – Occurrence Reporting and Processing of Operations Information • RLID 5480.7 - Fire Protection • RLID 5480.19 - Conduct of Operations Requirements for RL • RLID 5480.29 - RL Employee Concerns Program • RLID 5480.31 - Startup and Restart of Nuclear Facilities • DOE-0223 – RL Emergency Implementing Procedures • DOE/RL-94-02 - Hanford Emergency Response Plan • DOE/RL-92-36 - Hanford Site Hoisting and Rigging Manual • DOE/RL-92-49 Radiological Assistance Program Plan – Region 8 • DOE/RL-96-109 – Hanford Site Radiological Control Manual • DOE-RL-SOD-INST-L&T.001 Hanford Site Lockout/Tagout Program • DOE-0225 - Hanford Emergency Assessment Resource Manual (HEARM) <p><u>Commitments</u></p> <ul style="list-style-type: none"> • WHC-EP-0469, Rev. 0, <i>Facility Effluent Monitoring Plan for the 340 Waste Handling Facility</i> • WMH-9853564, <i>Conduct of Operations Applicability Matrix (300 Area LEF/340)</i> • WMH-985125, <i>340 Facility Maintenance Implementation Plan, Rev. 2</i>
Environmental Protection Basis	<p><u>Permits</u></p> <ul style="list-style-type: none"> • DOE/RL-97-06, Rev. 0, <i>Radioactive Air Emissions Notice of Construction 340A Building</i> • DOE/RL-97-15, Rev. 0, <i>Nonradioactive Air Emissions Notice of Construction for Removal of 340A Building Tank Solids</i> • <i>Notice of Construction – AIR 97-604 for Tank Solid Removal</i> • <i>Revised Form 2, Notification of Dangerous Waste Activities</i> • <i>NEPA Categorical Exclusions</i> • <i>Notice of Construction, Isolation of Radioactive Liquid Waste System Line in Valve Box 11 Outside the 324 Facility - Approved 7/7/99</i> • State of Washington Department of Health Radioactive Air Emissions Permit, FF-01 • Hanford Site Air Operating Permit Application, as amended, DOE/RL-95-07, May 1995 • Draft Hanford Site Air Operating Permit, HNF-AOP-97-1, 1998