

JUL 25 1998 ENGINEERING DATA TRANSMITTAL Page 1 of 1
1. EDT 624764

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July 23, 1998

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(A) Item No.	(B) Document/Drawing No.	(C) Sheet No.	(D) Rev. No.	(E) Title or Description of Data Transmitted	Approval Designator	Reason for Transmit- tal	Originator Dispo- sition	Receiv- er Dispo- sition
1	HNF-2219		0	Project W-320 Backup 1000 CFM Portable Exhausters Acceptance for Beneficial Use	NA	1,2	1	

16.

16. KEY			
Approval Designator (F)	Reason for Transmittal (G)	Disposition (H) & (I)	
E, S, Q, D or N/A (see WHC-CM-3-5, Sec.12.7)	1. Approval 4. Review 2. Release 5. Post-Review 3. Information 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	1	JW Bailey	<i>[Signature]</i>	7/25/98	S2-48	1	1	RE Raymond	<i>[Signature]</i>	7/25/98	R2-38
1	1	JR Kriskovich	<i>[Signature]</i>	7/25/98	R1-56	1	1	JW Lentsch	<i>[Signature]</i>	7/25/98	S2-48
1	1	WJ Powell	<i>[Signature]</i>	07-25-98	S5-43	1	1	RL Powers	<i>[Signature]</i>	07-25-98	S5-13
1	1	GR Tardiff	<i>[Signature]</i>	07-25-98	S5-05	1	1	DA Bragg	<i>[Signature]</i>	7/25/98	S5-05
1	1	SH Rifaee	<i>[Signature]</i>	7/25/98	R1-56	1	1	JM Jones	<i>[Signature]</i>	07-25-98	P1-29
1	1	TJ Kelley	<i>[Signature]</i>	7/25/98	S5-07						

18. <i>[Signature]</i> 7/25/98 SW Shaw	19. <i>[Signature]</i> 7/25/98 Authorized Representative Date for Receiving Organization	20. <i>[Signature]</i> 7/25/98 Design Authority/ Cognizant Manager Date	21. DOE APPROVAL (if required) Ctrl. No. ☐ Approved ☐ Approved w/comments ☐ Disapproved w/comments
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Project W-320 Backup 1000 CFM Portable Exhausters Acceptance for Beneficial Use

O.D. Nelson
NHC, Richland, WA 99352
U.S. Department of Energy Contract DE-AC06-96RL13200

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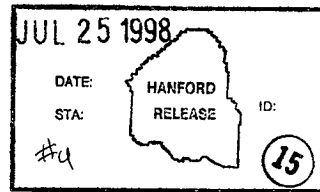
Abstract: This document is to identify the Project W-320 1000 CFM portable exhauster documentation required to be turned over from the Projects Organization to the Tank Farm Operations as part of the acceptance of the 1000 CFM portable exhausters for beneficial use.

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Janis Braden
Release Approval

7/25/98
Date



Release Stamp

Approved for Public Release

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APPENDIX A -DOCUMENTATION REQUIRED FOR ACCEPTANCE FOR BENEFICAL USE

APPENDIX B -PUNCHLIST ITEMS FOR THE BACK-UP 1000 CFM PORTABLE EXHAUSTERS
ACCEPTANCE FOR BENEFICIAL USE

TITLE: "Project W-320, Backup 1000 CFM Portable Exhausters Acceptance for Beneficial Use"

KEYWORDS: Project W-320, Portable Exhauster, Acceptance for Beneficial Use (ABU), Waste Tank Ventilation, 241-C-106, 241-AY-102

1.0 PURPOSE

The purpose of this document is to identify the Project W-320 Backup 1000 CFM Portable Exhauster documentation required to be turned over, be issued, or readily retrievable from the Projects organization to Tank Farm Operations prior to the acceptance of the new systems for beneficial use. The responsibilities for completion and a roadmap to each turnover item is listed in Appendix A of this document. Appendix B contains a Punchlist which identifies the documentation that will be turned over following HNF-2219 "Backup 1,000 cfm Portable Exhausters POR-007-Skid E & POR-008-Skid F Acceptance for Beneficial Use" approval. Reference 1 requires turnover acceptance of Structures, Systems and Components (SSCs) with a punchlist or open item be approved by the Tank Farm Transitions Project Director.

2.0 BACKGROUND

Reference 1 requires the project end user to identify and approve a listing of Acceptance for Beneficial Use (ABU) requirements at the beginning of a project. At turnover, the end user accepts the SSCs for beneficial use based on the delivery of operable SSCs and satisfactory completion of the previously defined ABU requirements.

Project W-320 was initiated prior to the implementation of this administrative procedure, therefore a listing of the ABU requirements was not made at the beginning of the project. Although at a late stage in the project, this document now serves as both the listing of ABU requirements for the Project W-320 Backup 1000 CFM Portable Exhausters and the turnover of required documentation.

The 1,000 cfm portable exhausters were originally procured for TWRS Saltwell pumping activities. During the saltwell pumping of tanks with the potential for Hydrogen gas generation, portable exhausters were to be used to ventilate out the dome space. By doing this, the Hydrogen gas concentration would be kept lower than the lower flammable limit for hydrogen. This would mitigate the danger presented by an explosion due to the presence of Hydrogen gas. However, Saltwell pumping schedule allows Tank Waste Remediation System (TWRS) Operations the use of the 1,000 cfm portable exhausters as needed. TWRS Operations requires the use of these exhausters as backup ventilation systems during and after Waste Retrieval Sluicing System activities as addressed in the Memorandums of Agreement identified in this document. This is a strategy developed by W-320 to meet the requirements of the Authorization Basis safety class functional requirements imposed after the ventilation upgrades provided by W-320 were designed, procured and installed.

This ABU is one of several prepared by Project W-320 in preparation of WRRS activities. Reference 2 is the project master ABU and references all W-320 ABU's.

3.0 TURNOVER RESPONSIBILITIES

In general, all Safety SSC design and installation requires plant (Double Shell Tank Engineering) concurrence on documentation. Comments will be generated by Double Shell Tank Engineering (DSTE) on designated documentation in Appendix A. DSTE concurrence will follow resolution of comments and inception of any required equipment modifications.

The following defines the Plant and Project responsibilities after turnover and before closeout of the ABU exceptions identified in Appendix B.

If during the exceptions closeout, process SSC deficiencies (e.g. OTP failures, FDC criteria non-conformance or SEL compliances) are identified, the Project shall correct the deficiencies.

If after turnover, SSC failures occur due to mis-operation or other causes not the responsibility of the Project, corrective actions shall be the plants responsibility.

4.0 REFERENCES

1. HNF-IP-0842, Volume IV, Section 3.12, *Acceptance of Structures, Systems, and Components for Beneficial Use*, Revision 1.
2. W-320 Master ABU, HNF-SD-W320-ABU-002.

5.0 INDEX OF ABU DOCUMENTATION

This index is intended to serve two purposes:

- Provides a "Roadmap" to be used by Tank Farm Operations personnel to access all the required turnover documentation for Project W-320.
- To document formal turnover of Project W-320 Backup 1000 CFM Portable Exhausters to Tank Farm Operations for beneficial use.

HNF-2219
Rev. 0

APPENDIX A:

**DOCUMENTATION REQUIREMENTS FOR THE ACCEPTANCE FOR BENEFICIAL USE FOR
THE BACKUP 1000 CFM PORTABLE EXHAUSTERS**

**Attachment A: "Documentation Required for Acceptance for Beneficial Use
Checklist for the Backup 1000 CFM Portable Exhausters"**

Project Title: 1,000 CFM Portable Exhausters

POR-007/Skid E & POR-008/Skid F

DOCUMENTATION REQUIRED FOR ACCEPTANCE FOR BENEFICIAL USE		
DESCRIPTION	RESPONSIBLE SUPPLIER	ACCEPTANCE AUTHORITY
ENGINEERING		
[X] Portable Exhausters ABU Checklist	COGEMA/KV Scott (SW Shaw)	See EDT
[X] Engineering Task Plan/Project Management Plan	NHC/JW Lentsch	RE Raymond
[X] Activity Schedule	NHC/M Cremonini (OD Nelson)	RE Raymond
[X] Basis of Interim Operation Addendum 1	NHC/JW Lentsch	RE Raymond
[X] Authorization Basis Amendment Package	NHC/JW Lentsch	RE Raymond
[X] TWRS Safety Equipment List ECN	NHC/JW Lentsch	RE Raymond
[N/A] Operation Safety Document(s) - or update existing	_____	_____
[X] Technical Safety Requirement Changes	NHC/JW Lentsch	RE Raymond
[X] Safety Class Evaluation Document	NHC/JW Lentsch	RE Raymond
[X] Compliance Implementation Plan	NHC/JW Lentsch	RE Raymond
[X] Design Criteria - (Functional Design Criteria)	COGEMA/KV Scott (SW Shaw)	RE Raymond
[X] Design Criteria - (Design Basis Document)	NHC/JW Lentsch	RE Raymond
[X] System Design Descriptions	NHC/JW Lentsch	RE Raymond
[X] Acceptance Test Procedures	Cogema/KV Scott (SW Shaw)	RE Raymond
[X] Acceptance (Final) Test Report	Cogema/KV Scott (SW Shaw)	RE Raymond
[X] Operational Test Procedures	NHC/JW Lentsch	RE Raymond
[X] Environmental Impact Statement	NHC/JW Lentsch	RE Raymond

DOCUMENTATION REQUIRED FOR ACCEPTANCE FOR BENEFICIAL USE		
DESCRIPTION	RESPONSIBLE SUPPLIER	ACCEPTANCE AUTHORITY
[X] Finding of no Significant Impact (FONSI)	NHC/JW Lentsch	RE Raymond
[X] Environmental Report (Environmental Assessment)	NHC/JW Lentsch	RE Raymond
[X] Environmental Permit	NHC/JW Lentsch (JW Bailey)	RE Raymond
[N/A] Hazardous Waste Disposal Plan/Procedures	_____	_____
[N/A] Solid Waste Disposal Plan/Procedure	_____	_____
[X] Stress/Seismic Analysis Calculations	Cogema/KV Scott (SW Shaw)	RE Raymond
[X] Stress/Design Report	NHC/JW Lentsch	RE Raymond
[X] Design Specifications/Report	NHC/JW Lentsch	RE Raymond
[X] Equipment Specifications/Report	NHC/JW Lentsch	RE Raymond
[X] Procurement Specifications	NHC/JW Lentsch	RE Raymond
[N/A] Construction Specifications	_____	_____
[X] Essential Material Specifications	NHC/JW Lentsch	RE Raymond
[X] Final Design Drawings	NHC/JW Lentsch	RE Raymond
[X] Installation Drawings	NHC/JW Lentsch	RE Raymond
[X] Installation Work Plan (PCPs)	NHC/AF Choho (JW Bailey)	RE Raymond
[X] Field Verified As-Built Project Drawings	NHC/AF Choho (JW Bailey)	RE Raymond
[N/A] Interface Control Drawings	_____	_____
[X] Impacted Essential Facility Drawings	NHC/JW Lentsch	RE Raymond
[X] P&ID Drawings	NHC/JW Lentsch	RE Raymond
[N/A] Instrument Loop Drawings	_____	_____
[N/A] Systems Drawings	_____	_____
[N/A] Drawing Tree	_____	_____
[X] Incorporate Outstanding Project Generated ECNs	NHC/JW Lentsch	RE Raymond
[X] CGI Packages	LMHC/SH Rifaey (JR Kriskovich)	RE Raymond
[X] USQ's	NHC/JW Lentsch	RE Raymond

DOCUMENTATION REQUIRED FOR ACCEPTANCE FOR BENEFICIAL USE		
DESCRIPTION	RESPONSIBLE SUPPLIER	ACCEPTANCE AUTHORITY
ADP (SYSTEM)		
[X] Software Configuration Management Plan	LMHC/RE Larson (TD Kaiser)	RE Raymond
[X] System Requirements Specification	Cogema/KV Scott (SW Shaw)	RE Raymond
[X] Software Design Description	Cogema/KV Scott (SW Shaw)	RE Raymond
[X] Software Validation/Verification	Cogema/KV Scott (SW Shaw)	RE Raymond
TRAINING		
[X] Training Plan	NHC/JW Lentsch	TJ Kelly
[N/A] Training Manuals		
[X] Training of Operating Crews	NHC/JW Lentsch	TJ Kelly
[N/A] Training of Maintenance Crews		
[X] Training OJT	NHC/JW Lentsch	TK Kelly
OPERATIONS/MAINTENANCE		
[X] Operating and Maintenance Manuals	Cogema/KV Scott (SW Shaw)	TJ Kelley DB Smet
[X] Process Control Plan	NHC/JW Lentsch	RE Raymond TJ Kelley
[X] Operating Procedures	NHC/JW Lentsch (PA Young)	TJ Kelley
[X] Alarm Response Procedures	NHC/JW Lentsch (PA Young)	TJ Kelley
[X] Surveillance Procedures	NHC/JW Lentsch (PA Young)	TJ Kelley
[X] Calibration Procedures	Cogema/KV Scott (SW Shaw)	DB Smet
[X] Preventative Maintenance Procedures	Cogema/KV Scott (SW Shaw)	DB Smet
[X] Repair/Maintenance Procedures	Cogema/KV Scott (SW Shaw)	DB Smet
[X] Functional Test Procedures	COGEMA/KV Scott (SW Shaw)	TJ Kelley
[X] PM/S Datasheets	NHC/JW Lentsch	DB Smet

DOCUMENTATION REQUIRED FOR ACCEPTANCE FOR BENEFICIAL USE		
DESCRIPTION	RESPONSIBLE SUPPLIER	ACCEPTANCE AUTHORITY
[X] Instrument List	NHC/JW Lentsch	DB Smet
QUALITY ASSURANCE		
[X] Inspection Plan	NHC/JW Lentsch	RE Raymond
[X] QAPP (Project and TWRS)	NHC/JW Lentsch	RE Raymond
[N/A] QAP P		
PROCUREMENT		
[X] Vendor Information Files	NHC/JW Lentsch	DB Smet /RE Raymond
[X] Master Equipment List	NHC/JW Lentsch	DB Smet
[X] Spare Parts List	NHC/JW Lentsch	DB Smet
[X] Spare Parts in Stock	NHC/JW Lentsch	DB Smet

Table A-1: Checklist Description Items for Backup 1000 CFM Portable Exhausters

Checklist Item	Document Number and Title	Responsible Individual	Anticipated Turnover Period	OPR Core Requirement Addressed
ENGINEERING				
Portable Exhausters ABU Checklist	HNF-2219 Rev 0, <i>Backup 1000 CFM Portable Exhausters POR-007-Skid E & POR-008-Skid F Acceptance for Beneficial Use</i>	SW Shaw	ABU Sign Off	Not Applicable
Engineering Task Plan/Project Management Plan	See the W-320 Master ABU (Ref 2).	_____	_____	_____
Activity Schedule	Memorandum of Agreement for Portable Exhauster Use by W320. (Numatec Letter 8C620-98-003)* Memorandum of Agreement for Portable Generator Use by W320. (Numatec Letter 8C620-98-004)* Memorandum of Agreement for Storage of Portable Exhausters POR-007-SKID E and POR-008-SKID F at FMEF (Numatec Letter 8C620-98-005).*	DG Baide	Pre-Start Up	Not Applicable
Basis for Interim Operation (BIO) Addendum 1	HNF-3029 Rev 0, Deployment of Backup Portable Exhausters POR-007-Skid E & POR-008-Skid F for W320 Use. This document includes installation work plans for installation of the exhausters on 106-C and 102-AY primary tanks and 102-AY annulus as appendices.*	OD Nelson	Pre-Start up	Not Applicable
	BIO Addendum 1 was turned over with the W-320 Master ABU (Reference 2). Authorization Basis Clarification 98-031, "W320/Stack Monitoring".*	_____	_____	_____
		DG Baide	Pre-Start Up	Not Applicable

Checklist Item	Document Number and Title	Responsible Individual	Anticipated Turnover Period	QRR Core Requirement Addressed
Authorization Basis Amendment Package	See the W-320 Master ABU (Reference 2).	_____	_____	_____
TWRS Safety Equipment List	See the W-320 Master ABU (Reference 2).	_____	_____	_____
Operational Safety Documents - or update existing	See the W-320 Master ABU (Reference 2).	_____	_____	_____
Technical Safety Requirement Changes	See the W-320 Master ABU (Reference 2).	_____	_____	_____
Safety Class Evaluation Document	Authorization Basis Clarification Log #98-031* See the W-320 Master ABU (Reference 2).	DG Baide	Pre-Start Up	Not Applicable
BIO Addendum 1 Compliance Implementation Plan	See the W-320 Master ABU (Reference 2).	_____	_____	_____
Design Criteria (FDC)	HNF-SD-WM-DB-035 Rev 1 "Functional Requirements for Portable Exhauster Systems to be used during Saltwell Pumping".	_____	_____	Not Applicable
Design Criteria (Design Basis Document)	See Procurement Specification	_____	_____	Not Applicable
System Design Description	The System Design Description is comprised of Vendor Manuals, Functional Requirements, and Software Design Description.	_____	_____	Not Applicable

Checklist Item	Document Number and Title	Responsible Individual	Anticipated Turnover Period	OPR Core Requirement Addressed
Acceptance Test Procedures	VI File 50024 96675.ATP.007, Rev 1, ATP For A Continuous Use, Portable 1000 CFM Exhauster (POR-007/Skid E)	_____	_____	CR 10
	96675.ATP.008, Rev 0, ATP For A Continuous Use, Portable 1000 CFM Exhauster (POR-008/Skid F)	_____	_____	
	HNF-2686, Portable Exhauster POR-007/Skid E Acceptance Test Procedure.	_____	_____	CR 10
Acceptance (Final) Test Report	HNF-2687, Portable Exhauster POR-008/Skid F Acceptance Test Procedure.	_____	_____	
	VI File 50024 Fabrication Document Package, Portable Exhauster Systems	_____	_____	CR 10
	Contract #DW-SBD-A00562 Volume 1, Section 6.	_____	_____	
Operational Test Procedures	HNF-2688, Portable Exhauster POR-007/Skid E Acceptance Test Report.	_____	_____	CR 10
	HNF-2689, Portable Exhauster POR-008/Skid F Acceptance Test Report.	_____	_____	
	See the W-320 Master ABU (Reference 2). NOTE: OTP's will be prepared and released, but will only be performed if Portable Exhausters are installed.	_____	_____	
Environmental Impact Statement	See the W-320 Master ABU (Reference 2).	_____	_____	

Checklist Item	Document Number and Title	Responsible Individual	Anticipated Turnover Period	ORR Core Requirement Addressed
Finding of No Significant Impact (FONSI)	See the W-320 Master ABU (Reference 2).	_____	_____	_____
Environmental Report (Environmental Assessment)	See the W-320 Master ABU (Reference 2).	_____	_____	_____
Environmental Permit	See Lockheed Martin Letter LMHC-9761594	_____	_____	_____
Hazardous Waste Disposal Plan/Procedures	Not Applicable. See the W-320 Master ABU (Reference 2).	_____	_____	_____
Solid Waste Disposal Plan/Procedure	Not Applicable. See the W-320 Master ABU (Reference 2).	_____	_____	_____
Stress/Seismic Analysis	VI File 50024 - 1,000 cfm Portable Exhauster Vendors Definitive Design Report 96675.2 Rev 2, Appendix L* - Calc W-320-24-038, "DBE Analysis for the 1000 CFM Portable Exhausters" *	DG Baide	Pre-Start Up	Not Applicable
Stress/Design Report	See Stress/Seismic Analysis	_____	_____	_____
Design Specifications/Report	See Procurement Specification	_____	_____	_____
Equipment Specifications	See Procurement Specification	_____	_____	_____
Procurement Specifications	HNF-S-0490, Rev 1, Specifications For A Portable Exhauster System For Waste Tank Ventilation	_____	_____	_____

Checklist Item	Document Number and Title	Responsible Individual	Anticipated Turnover Period	ORR Core Requirement Addressed
Construction Specification	The portable exhausters were designed/fabricated per procurement specification HNF-S-0490 Rev 1, "A portable exhauster system for waste tank ventilation".	_____	_____	Not Applicable
Essential Material Specification	See Procurement Specification	_____	_____	Not Applicable

Checklist Item	Document Number and Title	Responsible Individual	Anticipated Turnover Period	OFR Core Requirement Addressed
Final Design Drawings	H-14-102577, Sheet 1, Rev 0, "1000 CFM Portable Exhauster Outline Views: Elevations, Filter ACC Side & Inlet End" H-14-102577, Sheet 2, Rev 0, "1000 CFM Portable Exhauster Outline Views: Plans And Sections" H-14-102577, Sheet 3, Rev 0, "1000 CFM Portable Exhauster Outline Views: Elevations, Control Side & Fan End" H-14-102578, Sheet 1, Rev 0, "1000 CFM Portable Exhauster Final Assembly-Parts List" H-14-102578, Sheet 2, Rev 0, "1000 CFM Portable Exhauster Final Assembly" H-14-102578, Sheet 3, Rev 0, "1000 CFM Portable Exhauster Heater Housing Weldment: Top Weather Cover" H-14-102578, Sheet 4, Rev 0, "1000 CFM Portable Exhauster Heater Housing Weldment: Side Weather Cover" H-14-102578, Sheet 5, Rev 0, "1000 CFM Portable Exhauster Weldment: Leveling Jack" H-14-102578, Sheet 6, Rev 0, "1000 CFM Portable Exhauster Weldment & Assembly: GEMS Sensor" H-14-102579, Sheet 1, Rev 0, "1000 CFM Portable Exhauster Assembly: Upper Stack" H-14-102579, Sheet 2, Rev 0, "1000 CFM Portable Exhauster Assembly: Upper Stack"			Not Applicable

Checklist Item	Document Number and Title	Responsible Individual	Anticipated Turnover Period	CFR Code Requirement Addressed
Final Design Drawings (Continued)	H-14-102579, Sheet 3, Rev 0, "1000 CFM Portable Exhauster Weldment: Stack, Upper"			Not Applicable
	H-14-102579, Sheet 4, Rev 0, "1000 CFM Portable Exhauster Weldment & Assembly Details"			
	H-14-102580, Sheet 1, Rev 0, "1000 CFM Portable Exhauster Assembly: Elec Cabinet MTG Conduit Frame"			
	H-14-102582, Sheet 1, Rev 0, "1000 CFM Portable Exhauster Heat Trace Cable"			
	H-14-102586, Sheet 1, Rev 0, "1000 CFM Portable Exhauster Assembly: Press Transmitters, Instr Tubing & Insul Weather Covers"			
	H-14-102587, Sheet 1, Rev 0, "1000 CFM Portable Exhauster Electrical Assembly and Conduit Layout"			
	H-14-102587, Sheet 2, Rev 0, "1000 CFM Portable Exhauster Electrical Assembly and Conduit Layout"			
	H-14-102587, Sheet 3, Rev 0, "1000 CFM Portable Exhausters Electrical Conduit Run Diagram"			
	H-14-102589, Sheet 1, Rev 0, "1000 CFM Portable Exhauster Weldment: Sealpot"			
	H-14-102590, Sheet 1, Rev 0, "1000 CFM Portable Exhauster Weldment: Peristaltic Pump Enclosure"			
	H-14-102591, Sheet 1, Rev 0, "1000 CFM Portable Exhauster Weldment: Sealpot, Drain, & Peristaltic Pump Piping"			

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Checklist Item	Document Number and Title	Responsible Individual	Anticipated Turnover Period	OSHA Core Requirement Addressed
Final Design Drawings (Continued)	H-14-102592, Sheet 1, Rev 0, "1000 CFM Portable Exhauster Weldment: Inlet Spool" H-14-102592, Sheet 2, Rev 0, "1000 CFM Portable Exhauster Weldment: Inlet Transition" H-14-102592, Sheet 3, Rev 0, "1000 CFM Portable Exhauster Weldment: Outlet Transition" H-14-102592, Sheet 4, Rev 0, "1000 CFM Portable Exhauster Weldment & Assembly: Outlet Spool" H-14-102592, Sheet 5, Rev 0, "1000 CFM Portable Exhauster Weldment & Assembly: Discharge Transition" H-14-102593, Sheet 1, Rev 0, "1000 CFM Portable Exhauster Fan Wheel Shaft Assy Mounting Base" H-14-102593, Sheet 2, Rev 0, "1000 CFM Portable Exhauster Fan Wheel Shaft Assy Mounting Base" H-14-102594, Sheet 1, Rev 0, "1000 CFM Portable Exhauster Weldment: Heater Section" H-14-102595, Sheet 1, Rev 0, "1000 CFM Portable Exhauster Fan Shaft" H-14-102598, Sheet 1, Rev 0, "1000 CFM Portable Exhauster Weldment: Stack, Lower" H-14-102600, Sheet 1-2, Rev 0, "1000 CFM Portable Exhauster Weldment & Assembly: Glycol/Demister System"	_____	_____	Not Applicable

Checklist Item	Document Number and Title	Responsible Individual	Anticipated Turnover Period	CRR Core Requirement Addressed
Final Design Drawings (Continued)	H-14-102600, Sheet 3, Rev 0, "1000 CFM Portable Exhauster Weldment: Glycol Expansion Tank"			Not Applicable
	H-14-102607, Sheet 1, Rev 0, "1000 CFM Portable Exhauster Electrical Wire Run/Conduit Schedule"			
	H-14-102607, Sheet 2, Rev 0, "1000 CFM Portable Exhauster Electrical Wire Run/Conduit Schedule"			
	H-14-102609, Sheet 1, Rev 0, "1000 CFM Portable Exhauster Elementary Diagrams "			
	H-14-102609, Sheet 2, Rev 0, "1000 CFM Portable Exhauster Control Cabinet Modules "			
	H-14-102609, Sheet 3, Rev 0, "1000 CFM Portable Exhauster Connection Diagrams "			
	H-14-102609, Sheet 4, Rev 0, "1000 CFM Portable Exhauster Connection Diagrams "			
	H-14-102609, Sheet 5, Rev 0, "1000 CFM Portable Exhauster Connection Diagrams "			
	H-14-102609, Sheet 6, Rev 0, "1000 CFM Portable Exhauster Connection Diagrams "			
	H-14-102609, Sheet 7, Rev 0, "1000 CFM Portable Exhauster Connection Diagrams "			
	H-14-102609, Sheet 8, Rev 0, "1000 CFM Portable Exhauster Connection Diagrams "			

Checklist Item	Document Number and Title	Responsible Individual	Anticipated Turnover Period	QRR Core Requirement Addressed
Final Design Drawings (Continued)	H-14-102609, Sheet 9, Rev 0, "1000 CFM Portable Exhauster Connection Diagrams"			Not Applicable
	H-14-102610, Sheet 1, Rev 0, "1000 CFM Portable Exhauster Piping & Instrumentation Schematic Diagram"			
	H-14-102610, Sheet 2, Rev 0, "1000 CFM Portable Exhauster Piping & Instrumentation Schematic Diagram"			
	H-14-102610, Sheet 3, Rev 0, "1000 CFM Portable Exhauster Piping & Instrumentation Schematic Diagram"			
	H-14-102610, Sheet 4, Rev 0, "1000 CFM Portable Exhauster Piping & Instrumentation Schematic Diagram"			
	H-14-102611, Sheet 1, Rev 0, "1000 CFM Portable Exhauster Control Panel Assembly & Parts List"			
	H-14-102611, Sheet 2, Rev 0, "1000 CFM Portable Exhauster Control Panel, Sub-panel Layout & Detail"			
	H-14-102612, Sheet 1, Rev 0, "1000 CFM Portable Exhauster Heat Trace Control Panel Assembly & Parts List"			
	H-14-102612, Sheet 2, Rev 0, "1000 CFM Portable Exhauster Heat Trace Control Panel Sub-panel Layout & Detail"			
	H-14-102613, Sheet 1, Rev 0, "1000 CFM Portable Exhauster Alarm Control Panel Assembly & Parts List"			
	H-14-102613, Sheet 2, Rev 0, "1000 CFM Portable Exhauster Alarm Control Panel Swing Out Panel"			

Checklist Item	Document Number and Title	Responsible Individual	Anticipated Turnover Period	QRR Core Requirement Addressed
Final Design Drawings (Continued)	H-14-102613, Sheet 3, Rev 0, "1000 CFM Portable Exhauster Alarm Control Panel Sub-Panel Layout & Detail"	_____	_____	Not Applicable
	H-14-102614, Sheet 1, Rev 0, "1000 CFM Portable Exhauster Intrinsic Barrier Panel Assembly & Parts List"	_____	_____	
	H-14-102614, Sheet 2, Rev 0, "1000 CFM Portable Exhauster Intrinsic Barrier Panel Sub-Panel Layout & Details"	_____	_____	
Installation drawings	See the W-320 Master ABU (Reference 2)	_____	_____	_____
Installation Work Plan	See Activity Schedule. HNF-3029 includes appendices with Work Package Plans, Drawings.	OD Nelson	Pre-Start Up	Not Applicable
Field Verified As-Built Project Drawings	Prepare ECN to "As-Built" H-14-102593 "Fan Wheel Shaft Assembly Mounting Base" *	S.W Shaw	Pre-Start Up	Not Applicable

Checklist Item	Document Number and Title	Responsible Individual	Anticipated Turnover Period	QRR Core Requirement Addressed
	Installation Drawings/ECNs for portable exhausters at 241-C-106, Tank 241-AY-102 & 241-AY-102 Annulus.* H-2-818506 Rev 0, Sheets 1,2,3 241-C-106 Portable Installation. H-2-818507 Rev 0, Sheets 1,2,3 241-AY-102 Portable Exhauster Installation for tank and annulus". H-2-818673 Rev 1, Sheet 1 Electrical C-Farm Partial Site Plan. H-2-818694 Rev 2, Sheet 1 Electrical AY-Farm Partial Site Plan. NOTE: These drawings can not be field verified until the exhausters are installed in the field.	JW Bailey	At Exhauster Use	Not Applicable
Interface Control Drawings	The Portable Exhauster do not have interface control drawings associated with it.	_____	_____	Not Applicable
Impacted Essential Facility Drawings	See the W-320 Master ABU (Reference 2)	_____	_____	_____
P & IDs	H-14-102736, Sheet 1, Rev 0, "1000 CFM Portable Exhauster Backup Emergency Exhauster P&ID" H-14-102737, Sheet 1, Rev 0, "1000 CFM Portable Exhauster Backup Emergency Tank Exhauster P&ID" H-14-102738, Sheet 1, Rev 0, "1000 CFM Portable Exhauster Backup Emergency Annulus Exhauster P&ID"	_____	_____	Not Applicable
Instrument Loop Drawings	The Portable Exhauster equipment does not have any instrument loop diagrams. All instrument connections are shown on P&ID and electrical drawings	_____	_____	Not Applicable

Checklist Item	Document Number and Title	Responsible Individual	Anticipated Turnover Period	QRR Core Requirement Addressed
System Drawings	The Portable Exhauster does not have system drawings associated with it.	_____	_____	Not Applicable
Drawing Tree	The Portable Exhauster does not have a drawing tree.	_____	_____	Not Applicable
Incorporate Outstanding ECNs	Incorporate "As-Built" ECN for H-14-102593 (See Field Verified As-Built Drawings above). *	SW Shaw	Pre-Start Up	Not Applicable
CGI Packages	CGI-WTF-35, Commercial Grade Item Dedication for the exhaust fan bearings and coupling on Exhauster Skids POR-007 and POR-008. *	JR Kriskovich	Pre-Start Up	Not Applicable
	CGI-DST-G-30, Commercial Grade Item Dedication for the Exhaust Fan on Portable Exhauster Skids POR-007 and POR-008	_____	_____	Not Applicable
	HNF-2980 Rev 0, Safety Class Procurement Evaluation For Project W320 Portable Exhausters*	JR Kriskovich	Pre-Start Up	Not Applicable
USQ's	TF-97-1013, Rev 0, "Revision to Procurement Specification for 1000-CFM Portable Exhauster to Resolve NCR #54887" See the W-320 Master ABU (Reference 2)	_____	_____	CR 4
		_____	_____	_____

Checklist Item	Document Number and Title	Responsible Individual	Anticipated Turnover Period	ORR Core Requirement Addressed
ADP				
Software configuration Management Plan	HNF-3097, Rev. 0, "Software Configuration Management Plan for the 1000 CFM Portable Exhausters"	TD Kaiser	Pre-Start Up	Not Applicable
System Requirements Specification	See Design Criteria (FDC)	_____	_____	Not Applicable
Software Design Description	HNF-2934, Rev 0, "Portable 1,000 SCFM Exhausters Software Design Description"	_____	_____	Not Applicable
Software Validation/Verification	HNF-2933, Rev 0, "Portable 1,000 SCFM Exhausters V & V Interim Report"	_____	_____	Not Applicable
TRAINING				
Training Plan	See the W-320 Master ABU (Reference 2).	_____	_____	_____
Training Manuals	Not Applicable. Training manuals specific to the portable exhausters were not developed.	_____	_____	_____
Training to Operation Crews	On the job training was provided to operations crews. See the W-320 Master ABU (Reference 2). WRSS OJT Course #: 350684 Tank Farm Routines #: 350030 Rev 2	_____	_____	_____
Training to Maintenance Crews	No unusual maintenance or repair elements are associated with the portable exhausters. Maintenance of these units is "skill of the craft."	_____	_____	Not Applicable

Checklist Item	Document Number and Title	Responsible Individual	Anticipated Turnover Period	ORR Core Requirement Addressed
Training Mock-Up/OJT	On the job training was given to operations crews. See the W-320 Master ABU (Reference 2) WRSS OJT Course #: 350684 Tank Farm Routines #: 350030 Rev 2	_____	_____	_____
OPERATIONS/MAINTENANCE				
Operating and Maintenance Manuals	HNF-2027, Rev 0, "Portable Exhausters POR-007-Skid E & POR-008-Skid F Storage Plan"	_____	_____	Not Applicable
Process Control Plan	Add Maintenance manuals to VI #50024	_____	_____	Not Applicable
Operating Procedures	See the W-320 Master ABU (Reference 2)	_____	_____	Not Applicable
Alarm Response Procedures	See the W-320 Master ABU (Reference 2)	_____	_____	Not Applicable
Surveillance Procedures	See the W-320 Master ABU (Reference 2)	_____	_____	_____
Calibration Procedures	Add Calibration Procedures to VI #50024	_____	_____	_____
	See Installation Work Plan (HNF-3029)	_____	_____	_____

Checklist Item	Document Number and Title	Responsible Individual	Anticipated Turnover Period	QRR Core Requirement Addressed
Preventative Maintenance Procedures	Add Preventative Maintenance procedures to VI #50024 See Installation Work Plan (HNF-3029) 6-TF-155-U, Rev A-0, "1000 CFM Portable Exhauster Air Flow Test Data Sheets" 6-TF-156-B, Rev A-0, "1000 CFM Portable Exhausters HEPA Filter Aerosol Test Data Sheet" 6-VT-162-C, Rev A-0, "1000 CFM Portable Exhausters Stack Organic Vapor Sampling Data Sheets"	_____ _____ _____	_____ _____ _____	Not Applicable _____ _____
Repair/Maintenance Procedures	Add Repair/Maintenance procedures to VI #50024 See Installation Work Plan (HNF-3029)	_____	_____	Not Applicable
Functional Test Procedures	See Acceptance Test Procedures	_____	_____	Not Applicable
PM/S Data sheets	See Calibration Procedures See Preventative Maintenance Procedures See Repair/Maintenance Procedures	_____	_____	_____
Instrument List	See the W-320 Master ABU (Reference 2) Prepare ECN to W-320 Instrument List, HNF-2520.*	RR Bevins	Pre-Start Up	_____
QUALITY ASSURANCE				
Inspection Plan	HNF-S-0490, Rev 1, "Specifications for a Portable Exhauster System for Waste Tank Ventilation"	_____	_____	Not Applicable
QAPP (Project and TWRS)	The QAPP was turned over with the Master ABU (Reference 2).	_____	_____	_____

Checklist Item	Document Number and Title	Responsible Individual	Anticipated Turnover Period	QRR Core Requirement Addressed
QAPP	See the W-320 Master ABU (Reference 2)	_____	_____	_____
PROCUREMENT				
Vendor Information Files	VI #50024, "Portable Exhauster System/1000 SCFM"	_____	_____	Not Applicable
Master Equipment List	See W-320 Master ABU (Reference 2). Prepare ECN to HNF-2328, Revision 0, <i>Project W-320 Master Equipment List</i> .*	RR Bevins	Pre-Start Up	_____
Spare Parts List	See W-320 Master ABU (Reference 2).	_____	_____	_____
Spare Parts in Stock	See W-320 Master ABU (Reference 2).	_____	_____	_____

APPENDIX B

PUNCHLIST ITEMS FOR THE BACKUP 1000 CFM PORTABLE EXHAUSTERS ACCEPTANCE FOR BENEFICIAL USE

Table B-1: Portable Exhauster Acceptance for Beneficial Use Documentation Requirements Punchlist

ABU - BACKUP 1000 CFM PORTABLE EXHAUSTER (W-320)				
Punchlist Item	Document Number and Title	Responsible Individual	Anticipated Turnover Date	ORR Core Requirement Addressed
ENGINEERING				
Activity Schedule	Release of HNF-3029 Rev 0, Deployment of Backup Portable Exhausters POR-007-Skid E & POR-008-Skid F for W320 Use.	OD Nelson	Pre-Start Up	Not Applicable
Field Verified As-Built Project Drawings	Prepare and Release of ECN for As-Built of H-14-102593, "Fan Wheel Shaft Assembly Mounting Base"	SW Shaw	Pre-Start Up	Not Applicable
	Installation Drawings/ECN's for portable exhausters at 241-C-106, Tank 241-AY-102 & 241-AY-102 Annulus.	JW Bailey	At Exhauster Use	Not Applicable
	H-2-818506 Rev 0, Sheets 1,2,3 241-C-106 Portable Installation.			
	H-2-818507 Rev 0, Sheets 1,2,3 241-AY-102 Portable Exhauster Installation for tank and annulus".			
	H-2-818673 Rev 1, Sheet 1 Electrical C-Farm Partial Site Plan.			
	H-2-818694 Rev 2, Sheet 1 Electrical AY-Farm Partial Site Plan.			
	NOTE: These drawings can not be field verified until the exhausters are installed in the field.			

ABU - BACKUP 1000 CFM PORTABLE EXHAUSTER (W-320)				
Punchlist Item	Document Number and Title	Responsible Individual	Anticipated Turnover Date	ORR Core Requirement Addressed
Field Verified As-Built Drawings-DST Engineering Review	Review ECN for As-Built of H-14-102593, "Fan Wheel Shaft Assembly Mounting Base"	DG Baide	Pre-Start Up	Not Applicable
CGI Packages	Release of HNF-2980 Rev 0, Safety Class Procurement Evaluation For Project W320 Portable Exhausters	JR Kriskovich	Pre-Start Up	Not Applicable
	CGI-WTF-35, Commercial Grade Item Dedication for the exhaust fan bearings and coupling on Exhauster Skids POR-007 and POR-008.	JR Kriskovich	Pre-Start Up	Not Applicable
Software Configuration Management Plan	HNF-3097, Rev. 0, "Software Configuration Management Plan for the 1000 CFM Portable Exhausters"	TD Kaiser	Pre-Start Up	CR 2, 8, 13, 18, 19
MISCELLANEOUS				
DST Engineering Review	Review and Approve Authorization Basis Clarification Letter 98-031	DG Baide	Pre-Start Up	Not Applicable
DST Engineering Review	Review and Revise/Approve Memorandum of Agreement for Portable Exhauster Use by W320. (Numatec Letter 8C620-98-003)	DG Baide	Pre-Start Up	Not Applicable
	Memorandum of Agreement for Portable Generator Use by W320. (Numatec Letter 8C620-98-004)			
	Memorandum of Agreement for Storage of Portable Exhausters POR-007-SKID E and POR-008-SKID F at FMEF (Numatec Letter 8C620-98-005).			

ABU - BACKUP 1000 CFM PORTABLE EXHAUSTER (W-320)				
Punchlist Item	Document Number and Title	Responsible Individual	Anticipated Turnover Date	ORR Core Requirement Addressed
DST Engineering Review	Review and approve VI File 50024, "1,000 CFM Portable Exhauster Vendors Definitive Design Report 96675.2 Rev 2, Appendix L	DG Baide	Pre-Start Up	Not Applicable
DST Engineering Review	Review CGI-WTF-35, Commercial Grade Item Dedication for the exhaust fan bearings and coupling on Exhauster Skids POR-007 and POR-008.	DG Baide	Pre-Start Up	Not Applicable
DST Engineering Review	Review HNF-2980 Rev 0, Safety Class Procurement Evaluation For Project W320 Portable Exhausters	DG Baide	Pre-Start Up	Not Applicable
DST Engineering Review	Review and Approve Calc W-320-24-038, "DBE Analysis for the 1000 CFM Portable Exhausters.	DG Baide	Pre-Start Up	Not Applicable
DST Engineering Review	Review and Approve HNF-3029 Rev 0, Deployment of Backup Portable Exhausters POR-007-Skid E & POR-008-Skid F for W320 Use	DG Baide	Pre-Start Up	Not Applicable
Incorporate As-Built	Incorporate "As-Built" ECN for H-14-102593 (See Field Verified As-Built above).			
Master Equipment List	Prepare ECN to HNF-2328, "Project W-320 Master Equipment List" to add portable exhauster components as an appendix.	SW Shaw	Pre-Start Up	Not Applicable
Master Instrument List	Prepare ECN to HNF-2520, "Project W-320 Instrument List.	TD Kaiser	Pre-Start Up	Not Applicable
Replace Insulation	Replace Insulation on Portable Exhauster POR-007 and POR-008.	TD Kaiser	Pre-Start Up	Not Applicable
Quality Assurance	Ensure that there are no outstanding NCRs against POR-007 or POR-008.	MJ Bailey	Pre-Start Up	Not Applicable