DISTRIBUTION SHEET

To	From	Page 1 of 1
Distribution	R. D. Claghorn	Date Sept 20, 1994
Project Title/Work Order		EDT No. 150808
Grout Facilities Standby Plan, WHC-SD-WM-SSP-005, Rev. 0		ECN No.

Name	MSIN	Text With All Attach.	Text Only	Attach./ Appendix Only	EDT/ECN Only
J. J. Badden	S5-01	X			
R. Carreon	S7-53	X			
R. D. Claghorn	H5-49	X			
F. D. Jobe	R3-82	X			
CENTRAL FILES	L8-04	X			
OSTI(2)	L8-07	X			

DISCLAIMER

This report was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor any agency thereof, nor any of their employees, make any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof.

DISCLAIMER

Portions of this document may be illegible in electronic image products. Images are produced from the best available original document.

SEP 29 1994

Sta. # 4 58

ENGINEERING DATA TRANSMITTAL

Page 1 of 1

1. EDT 150808

2. To: (Receiving Organization) Distribution		3. From: (Originating Organization) Grout Facilities		4. Related EDT No.: 151135	
5. Proj./Prog./Dept./Div.: Grout Facilities		6. Cog. Engr.: R. D. Claghorn		7. Purchase Order No.: NA	
8. Originator Remarks: This document provides information on the deactivation of the Grout Disposal Program. The plan includes information related to the disposition of staff, facilities, equipment and documentation.				9. Equip./Component No.: NA	
				10. System/Bldg./Facility: Grout Facilities	
				11. Receiver Remarks:	
				12. Major Assm. Dwg. No.: NA	
				13. Permit/Permit Application No.: NA	
				14. Required Response Date: January 13, 1994	

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	Impact Level	Reason for Transmittal	Originator Disposition	Receiver Disposition
1	WHC-SD-WM-SSP-005		0	Grout Facilities Standby Plan	IESQ	1	1	

16. Impact Level (F)		Reason for Transmittal (G)		Disposition (H) & (I)	
1, 2, 3, or 4 (see MRP 5.43)		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 Impact Level for required signatures)										(G)	(H)
Reason	Disp.	(J) Name	(K) Signature	(L) Date	(M) MSIN	(J) Name	(K) Signature	(L) Date	(M) MSIN	Reason	Disp.
	1	Cog. Eng. R. D. Claghorn	<i>R. D. Claghorn</i>	1-13-94							
	1	Cog. Mgr. R. J. Murkowski	<i>R. J. Murkowski</i>	1-13-94		L. Lee	<i>L. Lee</i>	1/20/94		1	1
	1	QA M. A. Richman	<i>M. A. Richman</i>	1-13-94							
	1	Safety R. V. Skinner	<i>R. V. Skinner</i>	1-13-94							
	1	Env. W. R. Brown	<i>W. R. Brown</i>	1-13-94							

18. Signature of EDT Originator <i>R. D. Claghorn</i> 1-13-94		19. Authorized Representative for Receiving Organization Date		20. Cognizant/Project Engineer's Manager <i>R. J. Murkowski</i> 1-13-94 Date		21. DOE APPROVAL (if required) Ltr. No. [] Approved [] Approved w/comments [] Disapproved w/comments	
---	--	--	--	---	--	---	--

RELEASE AUTHORIZATION

Document Number: WHC-SD-WM-SSP-005, REV 0

Document Title: GROUT FACILITIES STANDBY PLAN

Release Date: 9/21/94

* * * * *

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

APPROVED FOR PUBLIC RELEASE

* * * * *

WHC Information Release Administration Specialist:

Kara Broz

(Signature)

9/21/94

(Date)

SUPPORTING DOCUMENT

1. Total Pages ³⁰⁶ 292

2. Title Grout Facilities Standby Plan	3. Number WHC-SD-WM-SSP-005	4. Rev No. 0
5. Key Words Grout, Standby, Deactivation, Plan	6. Author Name: R. D. Claghorn <i>Ronald D. Claghorn</i> Signature Organization/Charge Code 7C540/D435A	
7. Abstract This document provides information on the deactivation of the Grout Disposal Program. The plan includes information related to the disposition of staff, facilities, equipment, and documentation. <i>KMB 9/20/94</i> APPROVED FOR PUBLIC RELEASE		
8. PURPOSE AND USE OF DOCUMENT - This document was prepared for use within the U.S. Department of Energy and its contractors. It is to be used only to perform, direct, or integrate work under U.S. Department of Energy contracts. This document is not approved for public release until reviewed. PATENT STATUS - This document copy, since it is transmitted in advance of patent clearance, is made available in confidence solely for use in performance of work under contracts with the U.S. Department of Energy. This document is not to be published nor its contents otherwise disseminated or used for purposes other than specified above before patent approval for such release or use has been secured, upon request, from the Patent Counsel, U.S. Department of Energy Field Office, Richland, WA. DISCLAIMER - This report was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor any agency thereof, nor any of their employees, nor any of their contractors, subcontractors or their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or any third party's use or the results of such use of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof or its contractors or subcontractors. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof.		10. RELEASE STAMP OFFICIAL RELEASE 58 BY WHC DATE/SEP 29 1994 <i>Sta: #4</i>
9. Impact Level ESQ		

MASTER
als

DISTRIBUTION OF THIS DOCUMENT IS UNLIMITED

GROUT FACILITIES STANDBY PLAN

Prepared by

R. D. Claghorn
P. F. Kison
D. R. Nunamaker
A. K. Yoakum

Westinghouse Hanford Company

TABLE OF CONTENTS

1.0	INTRODUCTION	1
1.1	BACKGROUND	1
1.2	SCOPE	1
1.2.1	Compliance With DOE Orders	2
1.2.2	Procedures	2
2.0	CRITERIA	2
3.0	ASSUMPTIONS	3
4.0	WORK DESCRIPTION	3
4.1	EQUIPMENT AND FACILITIES TRANSFER PLAN	3
4.2	WORK SUMMARY	3
4.2.1	Facility Deactivation Objective	4
4.2.2	Safety Basis	4
4.2.3	Project Controls	4
4.3	DEACTIVATION RECORDS	4
5.0	EMERGENCY RESTART CONCEPT	5
5.1	STAFFING	5
5.2	EQUIPMENT	5
5.3	DOCUMENTATION	6
5.4	RISKS	6
6.0	STANDBY/RESTART ORGANIZATION	6
7.0	REFERENCES	8
B1.0	DRY MATERIALS FACILITY (DMF)	B-1
B2.0	FEED TRANSFER SYSTEM (FTS)	B-3
B3.0	GROUT PROCESSING EQUIPMENT	B-6
B4.0	GROUT DISPOSAL FACILITY (GDF)	B-10
C1.0	GROUT FACILITIES/ACTIVITIES	C-1
C1.A	ACTIVATE NEW WORK	C-1
C1.A.1	Records Collection and Storage	C-1
C1.A.2	Surveillance and Monitoring Plan	C-2
C1.A.3	Program Restructuring	C-3
C1.B	TRANSFER FACILITIES/ACTIVITIES	C-4
C1.B.1	Dry Materials Facilities	C-4
C1.B.1.A	Dry Material Storage Bins	C-4
C1.B.1.B	Trucks	C-4
C1.B.1.C	Other Equipment	C-4
C1.B.2	FTS	C-5
C1.B.2.A	Project W-062	C-5
C1.B.2.B	Tank AP-102 Equipment	C-5
C1.B.2.C	Tank AP-102 Mixer Support Equipment	C-5
C1.B.3	GROUT PROCESSING FACILITIES	C-6
C1.B.3.A	Office, Trailers and Equipment	C-6
C1.B.3.B	Change Trailer	C-6
C1.B.3.C	Spare Parts	C-7

C1.B.3.D	Project W-257 - GPF Fire Hydrant	C-7
C1.B.4	GDF	C-7
C1.B.4.A	PIHs	C-7
C1.B.4.B	Ventilation System	C-8
C1.B.4.C	Core Truck	C-8
C1.B.4.D	Hydrogen Resolution Program	C-8
C1.B.4.E	Pumps	C-10
C1.B.4.F	Vaults 102-105 and Misc Equipment	C-11
C1.C	DEACTIVATE FACILITIES/ACTIVITIES	C-12
C1.C.1	Grout Processing Facilities	C-12
C1.C.1.A	243-G3 Decon Additives Module	C-12
C1.C.1.A.1	Decontaminate 243-G3	C-12
C1.C.1.A.2	Deactivate Utilities	C-12
C1.C.1.A.3	Close	C-13
C1.C.1.B	243-G4: Control Room	C-14
C1.C.1.B.1	Deactivate Utilities	C-14
C1.C.1.B.2	Close	C-15
C1.C.1.B.3	Software 243-G4	C-15
C1.C.1.B.3.A	Alarm Procedure	C-15
C1.C.1.B.3.B	Software Manual	C-16
C1.C.1.C	243-G5: Standby Generator	C-16
C1.C.1.C.1	Decontaminate 243-G5	C-16
C1.C.1.C.2	Deactivate Utilities	C-17
C1.C.1.C.3	Close 243-G5	C-17
C1.C.1.D	243-G6: Electrical Equipment Module	C-18
C1.C.1.D.1	Deactivate Utilities	C-18
C1.C.1.D.2	Close	C-18
C1.C.1.E	243-G8: Air Filtration Skid	C-19
C1.C.1.E.1	Decontaminate	C-19
C1.C.1.E.2	Deactivate Utilities	C-20
C1.C.1.E.3	Close	C-20
C1.C.1.F	243-G9: Substation	C-21
C1.C.1.F.1	Deactivate Utilities	C-21
C1.C.1.G	243-G81: Water Services Building	C-22
C1.C.1.G.1	Deactivate Utilities	C-22
C1.C.1.G.1	Close	C-22
C1.C.1.H	243-G82: Water Services Cassion	C-23
C1.C.1.H.1	Deactivate Utilities	C-23
C1.C.1.H.2	Close	C-23
C1.C.1.I	243-G1: LCT/MM	C-25
C1.C.1.I.1	Decontaminate	C-25
C1.C.1.I.2	Deactivate Utilities	C-26
C1.C.1.I.3	Close	C-27
C1.C.1.J	243-G1A: Motor Pump Pit	C-28
C1.C.1.J.1	Decontaminate	C-28
C1.C.1.J.2	Deactivate Utilities	C-29
C1.C.1.J.3	Close	C-29
C1.C.1.K	243-G2 Dry Blend Module	C-30
C1.C.1.K.1	Deactivate Utilities	C-30
C1.C.1.K.2	Decontaminate	C-31
C1.C.1.K.3	Close	C-32
C1.C.2	Permits and Compliance	C-33
C1.C.2.A	Gather, Inventory and Store Documents	C-33
C1.C.2.B	Safety Assessment	C-33
C1.C.2.C	Issue WHC-Approved FSAR	C-33
C1.C.2.D	Permits and Compliance	C-34
C1.C.3	Technology Closeout	C-34

C1.C.3.A	Lysimeter Removal	C-34
C1.C.3.B	Complete NDT and Characterization	C-34
C1.C.3.C	Cold Cap Demolition	C-34
C1.C.4	Performance Assessment (PA) Close Out	C-34
C1.C.5	Projects	C-35
C1.C.6	GDF	C-36
C1.C.6.A	Vault 101	C-36
C1.C.6.A.1	Decontamination	C-36
C1.C.6.A.2	Deactivate	C-36
C1.C.6.A.3	Close	C-37
C1.C.6.B	Vaults 102-105	C-38
C1.C.6.B.1	Deactivate Utilities	C-38
C1.C.6.B.2	Close	C-39
C1.C.7	DMF	C-41
C1.C.7.A	2400-E Control Room	C-41
C1.C.7.A.1	Deactivate Utilities	C-41
C1.C.7.A.2	Close	C-41
C1.C.7.B	2451-E Substation	C-42
C1.C.7.B.1	Deactivate Utilities	C-42
C1.C.7.B.2	Close	C-43
C1.C.7.C	2403-EA AC2/AC3 Compressor Building	C-43
C1.C.7.C.1	Deactivate Utilities	C-43
C1.C.7.C.2	Close	C-44
C1.C.7.D	2404-E AC1 Compressor Building	C-45
C1.C.7.D.1	Deactivate Utilities	C-45
C1.C.7.D.2	Close	C-45
C1.C.7.E	Dry Material Storage Bins	C-46
C1.C.7.E.1	Decontaminate	C-46
C1.C.7.E.2	Deactivate Utilities	C-47
C1.C.7.E.3	Close	C-48
C1.C.7.F	2402-EA Railcar Unloading Pit	C-49
C1.C.7.F.1	Deactivate Utilities	C-49
C1.C.7.F.2	Close	C-49
C1.C.7.G	2402-EG Blend Pump Pit	C-50
C1.C.7.G.1	Deactivate Utilities	C-50
C1.C.7.G.2	Close	C-51
C1.C.8	FTS	C-51
C1.C.8.B	Deactivate	C-51
C1.C.8.C	Close	C-51
C1.C.9	Reporting	C-52
D1.0	GROUT FACILITIES/ACTIVITIES	D-1
D1.A	ACTIVATE NEW WORK	D-1
D1.A.1	Records Collection and Storage	D-1
D1.A.2	Surveillance and Monitoring Plan	D-2
D1.A.3	Program Restructuring	D-2
D1.B	TRANSFER FACILITIES/ACTIVITIES TO OTHER PROGRAMS	D-3
D1.B.1	Dry Materials Facilities	D-3
D1.B.1.A	Dry Material Storage Bins	D-3
D1.B.1.B	Trucks	D-3
D1.B.1.C	Other Equipment	D-4
D1.B.2	FTS	D-4
D1.B.2.A	Project W-062	D-4
D1.B.2.B	Tank AP-102 Equipment	D-4
D1.B.2.C	Tank AP-102 Mixer Support Equipment	D-5
D1.B.3	Grout Processing Facilities	D-5
D1.B.3.A	Office, Trailers and Equipment	D-5

D1.B.3.B	Change Trailer	D-6
D1.B.3.C	Spare Parts	D-6
D1.B.3.D	Project W-257 - GPF Fire Hydrant	D-7
D1.B.4	Grout Disposal Facility	D-7
D1.B.4.A	PIHs	D-7
D1.B.4.B	Ventilation System	D-7
D1.B.4.C	Core Truck	D-8
D1.B.4.D	Hydrogen Resolution Program	D-8
D1.B.4.E	Pumps	D-10
D1.B.4.F	Vaults 102-105 and Miscellaneous Equipment	D-10
D1.C	DEACTIVATE FACILITIES/ACTIVITIES	D-11
D1.C.1	GROUT PROCESSING FACILITIES	D-11
D1.C.1.A	243-G3 Decon Additives Module	D-11
D1.C.1.A.2	Deactivate Utilities	D-12
D1.C.1.A.3	Close	D-13
D1.C.1.B	243-G4: Control Room	D-15
D1.C.1.B.1	Deactivate Utilities	D-15
D1.C.1.B.2	Close	D-17
D1.C.1.B.3	Software 243-G4	D-18
D1.C.1.B.3.A	Alarm Procedure	D-18
D1.C.1.C	Standby Generator - 243-G5	D-19
D1.C.1.C.1	Decontaminate 243-G5	D-19
D1.C.1.C.2	Deactivate Utilities	D-21
D1.C.1.C.3	Close	D-21
D1.C.1.D	Electrical Equipment Module - 243-G6	D-23
D1.C.1.D.1	Deactivate 243-G6	D-23
D1.C.1.D.2	Close	D-27
D1.C.1.E	243-G8: Air Filtration Skid	D-28
D1.C.1.E.1	Decontaminate	D-28
D1.C.1.E.2	Deactivate Utilities	D-29
D1.C.1.E.3	Close	D-29
D1.C.1.F.1	Deactivate 243-G9 Substation	D-31
D1.C.1.G	Water Service Building - 243-G81	D-31
D1.C.1.G.1	Deactivate 243-G81	D-31
D1.C.1.G.2	Close	D-32
D1.C.1.H	Water Service Caisson - 243-G82	D-33
D1.C.1.H.1	Deactivate 243-G82	D-33
D1.C.1.H.2	Close	D-33
D1.C.1.I	243-G1: LCT/MM	D-33
D1.C.1.I.1	Decontaminate	D-33
D1.C.1.I.2	Deactivate Utilities	D-35
D1.C.1.I.3	Close	D-36
D1.C.1.J	243-G1A: Motor Pump Pit	D-38
D1.C.1.J.1	Decontaminate	D-38
D1.C.1.J.2	Deactivate Utilities	D-39
D1.C.1.J.3	Close	D-40
D1.C.1.K	243-G2 Dry Blend Module	D-42
D1.C.1.K.1	Deactivate Utilities	D-42
D1.C.1.K.2	Decontaminate	D-42
D1.C.1.K.3	Close	D-44
D1.C.2	Final Safety Analysis Report Permits and Compliance	D-46
D1.C.2.A	Gather/Inventory/Store Documents	D-46
D1.C.2.B	Safety Assessment	D-46
D1.C.2.C	Issue WHC-Approved FSAR	D-47
D1.C.2.D	Permits and Compliance	D-47
D1.C.3	Technology Closeout	D-47
D1.C.3.A	Lysimeter Removal	D-47

D1.C.3.B Complete NDT Work and Characterization	D-47
D1.C.3.C Cold Cap Demolition	D-48
D1.C.4 Performance Assessment (PA) Close Out	D-48
D1.C.5 Project Closeout	D-48
D1.C.6 Grout Disposal Facility	D-51
D1.C.6.A Vault 101	D-51
D1.C.6.A.1 Decontamination	D-51
D1.C.6.A.2 Deactivate	D-52
D1.C.6.A.3 Close	D-52
D1.C.6.B Vaults 102-105	D-53
D1.C.6.B.1 Deactivate Utilities	D-53
D1.C.6.B.2 Close	D-55
D1.C.7 Dry Material Facilities	D-62
D1.C.7.A.1 Deactivate Utilities	D-62
D1.C.7.A.2 Close	D-70
D1.C.7.B 2451-E Substation	D-71
D1.C.7.B.1 Deactivate Utilities	D-71
D1.C.7.B.2 Close	D-72
D1.C.7.C 2403-EA AC2/AC3 Compressor Building	D-73
D1.C.7.C.1 Deactivate Utilities	D-73
D1.C.7.C.2 Close	D-73
D1.C.7.D 2404-E AC1 Compressor Building	D-75
D1.C.7.D.1 Deactivate Utilities	D-75
D1.C.7.D.2 Close	D-76
D1.C.7.E Dry Material Storage Bins	D-77
D1.C.7.E.1 Decontaminate	D-77
D1.C.7.E.2 Deactivate Utilities	D-78
D1.C.7.E.3 Close	D-79
D1.C.7.F 2402-EA Railcar Unloading Pit	D-80
D1.C.7.F.1 Deactivate Utilities	D-80
D1.C.7.F.2 Close	D-81
D1.C.7.G 2402-EG Blend Pump Pit	D-83
D1.C.7.G.1 Deactivate Utilities	D-83
D1.C.7.G.2 Close	D-83
D1.C.8 Feed Transfer System	D-84
D1.C.8.A Deactivate	D-84
D1.C.8.B Close	D-85
D1.C.9 Reporting Requirements/Open Issues	D-85

APPENDICES

A	CRITERIA FOR DEACTIVATION ACTIVITIES	A-1
B	MAJOR SYSTEMS TRANSFER PLAN	B-1
C	WORK BREAKDOWN STRUCTURE	C-1
D	CHECKLISTS	D-1
E	GROUT STANDBY/RESTART ORGANIZATION	E-1
F	SURVEILLANCE AND MONITORING PLAN	F-1
G	GROUT DEACTIVATION BUDGET	G-1
H	GROUT DEACTIVATION SCHEDULE	H-1

TABLES

1.	Applicable DOE Orders	10
2.	List of Applicable Manuals/Abstracts	12
A-1.	Generic Criteria for All Grout Facilities	A-1
A-2.	Criteria for the Waste Feed Transfer System (FTS)	A-5
A-3.	Criteria for the Dry Materials Facility (DMF)	A-5
A-4.	Criteria for Grout Processing Facilities	A-5
A-5.	Criteria for Grout Disposal Facilities	A-5
F-1.	Surveillance Schedule	F-14
F-2.	Maintenance Activities	F-16
F-3.	Summary of Labor Hours	F-18
F-4.	Summary of Labor and Contract Costs	F-19
F-5.	Summary of Total Costs	F-20

FIGURES

1.	Work Breakdown Structure	9
----	------------------------------------	---

GROUT FACILITIES STANDBY PLAN

1.0 INTRODUCTION

This plan defines how the Grout Facilities will be deactivated to meet the intent of the recently renegotiated Tri-Party Agreement (TPA). The TPA calls for the use of the grout process as an emergency option only in the event that tank space is not available to resolve tank safety issues. The availability of new tanks is expected by 1997. Since a grout startup effort would take an estimated two years, a complete termination of the Grout Disposal Program is expected in December 1995.

1.1 BACKGROUND

The former Tank Waste Remediation (TWRs) strategy, adopted in 1988, called for the contents of Hanford's 28 newer double-shell waste tanks to be separated into high-level radioactive material to be vitrified and disposed of in a geologic repository; low-level wastes were to be sent to the Grout Facility to be made into a cement-like mixture and poured into underground vaults at Hanford for disposal. The waste in the 149 older single-shell tanks (SST) were to undergo further study and analysis before a disposal decision was made.

The U.S. Department of Energy's (DOE) New Technical Strategy, presented to the public and state and federal regulators last April, proposed recovering the wastes from the 149 SSTs and treating it in the Vitrification and Grout Plants. This represented a four-fold increase in the waste to be processed by these two facilities.

After six months of public meetings and negotiations, the grouting option was abandoned and the concept adopted to vitrify the radioactive and hazardous contents of all 177 tanks, causing the high-level vitrification plant to be delayed for redesign, requiring a low-level vitrification plant to be built, shutting down the Grout Facility, and requiring that construction on six new double-shell tanks be accelerated.

The new mission for the Grout Facilities is stated in the change request for the TPA:

"DOE will maintain in a standby condition the capability to restart the grout facility if its operation is necessary before new double-shell tanks are available to provide tank space to resolve safety issues."

1.2 SCOPE

This Plan describes how the Low-Level Waste Disposal Program will deactivate plans to dispose of 44 million gallons of tank waste as grout and it describes plans to place the Grout Facilities in a standby condition. The plan covers all activities to be performed for fiscal year (FY) 1994 and as such, forms the basis for the Grout Facilities portion of the Low-Level Waste Disposal FY Work Plan. Applicable orders and procedures are described in the following sections.

1.2.1 Compliance With DOE Orders

A DOE order compliance review of the Grout Treatment Facility (GTF) was conducted during the preparation of the Grout Final Safety Analysis Report (FSAR). Of the 280 orders identified for the review, only 36 are specifically applicable to the design, construction and operation of the GTF. These 36 orders are identified in Table 1. These orders continue to be applicable to the GTF during the deactivation and standby phases of the Program.

1.2.2 Procedures

Applicable Westinghouse Hanford Company (WHC) manuals are listed in Table 2. These manuals provide general procedures and guidance for the performance of the work listed in this plan. More specific instructions for field work will be provided as part of the job package prepared for each task. Surveillance and maintenance procedures for the standby phase are listed in Appendix F.

2.0 CRITERIA

The general criteria for the development of the deactivation plan are:

- Assure safety to the public and the workers
- Maintain the ability to restart the facility within 2 years after a restart directive has been received from the DOE
- Minimize any further costs to the Grout Disposal Program
- Release/transfer Grout personnel as soon as possible, in an orderly fashion, into new positions
- Grout is removed from operational status and placed in Condition II - "Long-term standby status" (WHC1990) This status is defined as:

Held under DOE plan. Long-term standby has a startup time greater than 6 months and has greater than 2 years inactivity.

- The *Facility Shutdown, Standby, and Transfer* procedure (WHC 1990) and the Decontamination and Decommissioning checklist (Hughes 1993) are used as specific criteria for the deactivation of facilities. See Appendix A for a listing of these criteria
- Deactivation of the facility shall be accomplished to the extent that future surveillance inspections will not be required on a frequency of more than once each quarter unless the deactivation inhibits the ability of DOE to restart the Facilities within two years.
- Transfer of facilities shall be to DOE programs that have priority and applicable uses

3.0 ASSUMPTIONS

The assumptions used in the development of this plan are:

- Some risk that an emergency start will take more than two years is acceptable. See Section 5.4.
- Assessments and other activities specific to an operating facility or a facility preparing for startup are suspended/canceled. The regulatory compliance activities of permitting, tank integrity assessments and resolution of land disposal restriction issues are all suspended until Grout is given a restart directive.
- Current Grout Facility personnel will support the orderly shutdown while in transition to new positions.
- The deactivation of the Grout Facilities will not require waivers to applicable DOE Orders. The level of detail provided in compliance documentation is based on a graded approach corresponding to the potential risk to the public and the safety of the Grout Facility operators.

4.0 WORK DESCRIPTION

The work breakdown structure for the implementation of the deactivation plan is organized as illustrated in Figure 1. The work consists of new tasks that are activated to implement this plan, tasks related to the transfer of facilities/activities to other DOE programs and tasks related to the deactivation of facilities/activities.

4.1 EQUIPMENT AND FACILITIES TRANSFER PLAN

Appendix B is the plan for the facilities that are to be transferred to other DOE organizations. This plan is based on interviews with the "to" organizations and determinations by senior Grout personnel on the most beneficial use of these facilities based on DOE priorities and application of the equipment. In general, the Low-Level Waste Disposal program will not seek reimbursement for the equipment. A cost savings will be realized by the DOE for equipment and facilities that are adapted for other programs. The DOE's approval of this plan authorizes WHC to generate the paperwork necessary to consummate the transfers. The person assigned to transfer the equipment is also responsible to transfer the associated documentation.

Upon receipt of a restart directive, the Grout Facilities will be refurbished with new equipment as determined by the Standby/Restart Team described in Section 6.0. The new equipment will replace equipment that is no longer supported by the manufacturer and equipment that was transferred to other programs.

4.2 WORK SUMMARY

Appendix C provides a summary of the work to be performed for each facility or project. This includes new activities, activities to transfer equipment to other high priority DOE programs, and deactivation activities. Specific Grout Facility personnel assigned to support each task are identified

by name. This is an attempt to identify when specific Grout Facility personnel are released to their new positions. It is assumed that Grout Operations and Grout Maintenance will be available to support all of the work described in this plan.

4.2.1 Facility Deactivation Objective

One of the primary goals of the shutdown effort to deactivate the facilities for the standby period and, possibly, in preparation for decommissioning in a few years. By deactivating the facility (i.e. removing sources of energy such as pressure, radioactivity, electricity, etc), the potential for an accident of significant consequence is minimized. The deactivation process includes the isolation of the Grout Facilities from the Tank Farms as described in detail in Appendix C, Section C1.C.8. Therefore, Grout's dependence on equipment such as isolation valves for safety is eliminated and valve lineups within the Facilities are not important. Consequently, the surveillance and maintenance requirements, and the corresponding production of procedures for these activities, are minimized for the standby period.

A schedule for maintenance activities during the standby period is provided in Appendix F. The maintenance strategy will also be described in a new version of Grout Facilities Maintenance Implementation Plan (MIP) to be published after the facilities have been deactivated. With the Facilities in a deactivated status, third party inspections for pressurized vessels and the Liquid Collection Tank (LCT) will be suspended. In the event that the TWRS is directed to resume Grout startup activities, these tanks will be inspected for their continued use or new, qualified tanks will be purchased/refabricated.

4.2.2 Safety Basis

The safety basis for the standby phase of the Program will be a revised version of the *Hazards Identification and Evaluation Report for Operation Grouted Facility and Near-Surface Disposal of Grouted Phosphate/Sulfate Low Level Waste* (Gilbert 1993). The strategy for ensuring safety during the standby period is to isolate the Grout Facilities from any radioactive source, deactivate the facilities as described in Section 4.2.1, fill any holes around the facilities, and maintain the structural integrity of tall buildings such as the dry material bins of the Dry Materials Facility (DMF) and the dry blend tower at the Grout Processing Facility (GPF).

4.2.3 Project Controls

Project controls such as configuration management will be maintained during the deactivation and standby phases of this plan. Engineering Change Notices (ECNs) will be generated to document each change to the facility. Drawings may be revised to incorporate the changes if there is a favorable cost and benefit justification for the effort. A list of property owned by the Grout Facilities will be developed as part of this plan and the list will be kept current during the deactivation and standby modes.

4.3 DEACTIVATION RECORDS

A controlled notebook will be maintained as the deactivation logbook. This log will be used to record activities that are related to facility shutdown.

After shutdown work is complete, the Standby/Restart organization described in Section 6.0 will use a logbook to record activities related to standby operations.

Appendix D provides detailed checklists for the work summary described in Appendix C. Once Appendix D is completed, the Grout Program, in its current configuration, is considered deactivated and the cold standby period begins. Corrections, deletions, or additions to the checklist will be made by REDLINING the existing document. All redlined areas must be printed clearly, with the signature of the responsible person making the change and the date the change was made. All redlining must be performed by the person responsible for the affected section. All redlines must be made to the record copy of the checklist. The record copy will be controlled by the facility point-of-contact (POC). The POC will be assigned by the facility manager.

Storage of records will follow a graded approach. Quality records will be turned in to Records Management for NQA-1 qualified storage. One-of-a-kind-records will be kept in fire-proof cabinets. Informational documents will be placed in standard cabinets. The storage location for these cabinets is the DMF control room.

5.0 EMERGENCY RESTART CONCEPT

An emergency restart plan will not be prepared as a part of the deactivation work scope. It is assumed that the regulatory environment for the startup of the Grout Facilities will change considerably under a emergency restart directive. Therefore, the development of a detailed plan is not warranted. An emergency restart concept, however, is presented here.

The restart activity will require the acquisition of staff, equipment and documentation as described below.

5.1 STAFFING

It is assumed that TWRS will be a matrixed organization at the beginning of the restart effort. Program managers will use manpower available from "pools" of personnel. In the event that an emergency restart is required, the manager of TWRS will have the authority to shift resources to restart the Grout Facilities.

A "seed" organization, as described in Section 6.0, will be maintained to facilitate a restart effort. This organization will have detailed knowledge of the status of the facilities.

The names listed in the appendices of this plan identify the last person who worked on a particular facility. Assuming that these people remain at Hanford, they can be located using the phone directory and contacted to resume startup efforts or to provide an overview of what is required to start the Grout Facilities.

5.2 EQUIPMENT

As stated in the criteria section, facility modifications during the deactivation and standby periods, to include the removal of equipment, are limited to modifications that can be reversed within two years. Likewise, maintenance and inspection activities continue for those items that can't be

replaced within two years. In most cases, the procurement of replacement equipment and spare parts within the two-year startup should not present a problem. For the transfer of a major system such as the DMF, contingencies will be in place to ensure that it can support a Grout restart effort if needed.

5.3 DOCUMENTATION

To facilitate a restart effort, at least one set of all of the available documentation will be collected for storage near the GPF. The criteria for the types of documentation collected for storage are designed to facilitate a restart effort. A document librarian will be readily available to perform word searches and pull documents out of file cabinets for perusal by engineers, operators, trainers and maintenance personnel.

5.4 RISKS

Risks associated with the emergency startup concept as it is presented above include:

- Requirements for the startup of a nuclear facility may become even more difficult in the near future
- Manufacturers of equipment now used at the Grout Facilities may go out of business or discontinue support for the equipment
- Requirements for the conduct of work at the Grout Facilities may become even more rigid in the near future

Each of these risks could result in delays to a restart effort that would jeopardize the DOE contractor's ability to meet the 2 year restart criteria listed in Section 2.0 of this plan.

6.0 STANDBY/RESTART ORGANIZATION

The authors of this document, consisting of senior Grout Facilities personnel, have examined possible schemes for providing manpower to work Grout issues after the facilities have been deactivated. Each scheme is structured to implement the criteria given in Section 2.0 of this plan.

One option is to maintain a Grout organization until the program has been terminated. The organization will consist of a manager and a few employees who will be responsible for maintaining the Grout Facilities while they are in standby status.

The other option is to completely dissolve the organization after the facilities have been deactivated. It is assumed that any work related to the Grout Facilities will be performed by Tank Farm personnel, possibly on a part time basis.

The work required to implement each option and the advantages and disadvantages of each are listed in Appendix E of this plan.

The authors of this document recommend that Tank Farm Operations maintain a Grout organization until the program has been completely terminated. This organization should be staffed, at a minimum, with the following skills:

- A planner/scheduler/Job Control System (JCS) administrator
- A cognizant engineer
- A facility representative
- Two operators
- A clerk/secretary
- A manager to perform administrative requirements and provide the one-over-one signatures required by many WHC procedures

The responsibilities of the standby/restart organization include:

- Facility surveillance and monitoring (S&M) activities summarized in Appendix F
- Maintenance of the standby logbook and property list
- A descoping of the Maintenance Implementation Plan (MIP) to reflect Grout's standby status
- Maintenance of Grout's administrative procedures
- Provide a "seed" organization in the event that Grout is given a restart directive
- Participate in feasibility studies for new applications of Grout equipment and facilities
- Resolve any remaining issues such as counterfeit bolt replacement and AP-102 tank mixer replacement

The advantages of a dedicated Grout Facility organization include:

- The JCS is easier to operate because it is uncomplicated by Tank Farm requirements
- Configuration management will be controlled and tracked
- Vandalism of the facilities is inhibited
- The facilities will have a much better chance to start up within two years in the event that a restart effort becomes necessary

Even though the authors of this document recommend the formation of a dedicated restart/standby group for the duration of the standby phase, all support for the Grout Facilities may come from Tank Farm assets. The organizational details during the standby phase will depend upon funding levels, headcount limits and DOE priorities.

Office space for the standby/restart organization would logically be one of the trailers located near the facility. The deactivation files and restart files will be placed within the DMF control room which has a fire suppression system that will remain active throughout the standby period. Other trailers near the Facilities, office space, shops and the locker/lunch room, will be transferred to other DOE programs during the standby period.

7.0 REFERENCES

- Hughes, M. C., 1993, "UO3 Deactivation Criteria for Acceptance by Decontamination and Decommissioning", Letter no. 85000-93-0030, Westinghouse Hanford Company, Richland, Washington.
- Gilbert, B. H., 1993, *Hazards Identification and Evaluation Report for Operation Grouted Facility and Near-Surface Disposal of Grouted Phosphate/Sulfate Low Level Waste*, SD-WM-SAR-027, Rev 2, Westinghouse Hanford Company, Richland, Washington.
- WHC, 1990, *Facility Shutdown, Standby, and Transfer*, MRP 6.15, Rev 0, Westinghouse Hanford Company, Richland, Washington.

FIGURE 1. Work Breakdown Structure

Project Start : 01NOV93
Project Finish : 01NOV93

Westinghouse Hanford Company
Grout Facilities and Activities
Grout Facilities/Activities

Status Date : 01NOV93
Plot Date : 11JAN94
Plot Time : 1:05PM

Table 1. Applicable DOE Orders
(2 sheets)

Directive	Title
DOE-RL 1324-1A	Records Disposition
DOE 1324.2A	Records Disposition
DOE 4101.1	Value Engineering
DOE-RL 4320.2B	Site Selection
DOE 4700.1	Project Management System
DOE 5000.3	Unusual Occurrences Reporting System
DOE 5400.1	General Environmental Protection Program
DOE 5400.3	Hazardous and Radioactive Mixed Waste Program
DOE 5400.5 (Appendix 4A)	Radiation Protection of the Public and the Environment
DOE-RL 5440.1A	Implementation of the National Environmental Policy Act at the Richland Operations
DOE 5440.1C	National Environmental Policy Act
DOE 5480.1	Environmental, Safety, and Health Program for DOE Operations
DOE-RL 5480.1A	Environment, Safety, and Health Program for Richland Operations
DOE 5480.1B	Environmental, Safety, and Health Program for DOE Operations
DOE 5480.4 (Appendix 4B)	Environmental Protection, Safety, and Health Protection Standards
DOE 5480.5	Safety of Nuclear Facilities
DOE-RL 5480.5	Safety of Nuclear Facilities
DOE 5480.7	Fire Protection
DOE 5480.10	Contractor Industrial Hygiene Program
DOE 5480.11 (Appendix 4C)	Radiation Protection of Occupational Workers
DOE-RL 5480.11A	Requirements for Radiation Protection
DOE 5480.18	Accreditation of Performance-Based Training for Category A Reactors and Nuclear Facilities
DOE 5480.19 (Appendix 4D)	Conduct of Operations Requirements for DOE Facilities
DOE 5481.1B	Safety Analysis and Review System
DOE-RL 5481.1	Safety Analysis and Review System
DOE 5483.1A	Occupational Safety and Health Program for DOE Contractor Employees at Government-Owned Contractor-Operated Facilities

Table 1. Applicable DOE Orders
(2 sheets)

Directive	Title
DOE 5484.1	Environmental Protection, Safety, and Health Protection Information Reporting Requirements
DOE 5500.1A	Emergency Management System
DOE 5500.2A	Emergency Notification, Reporting, and Response Levels
DOE 5500.3	Reactor and Nonreactor Nuclear Facilities Emergency Planning Preparedness, and Response Program for DOE Operations
DOE 5632.2A	Physical Protection of Special Nuclear Material and Vital Equipment
DOE-RL 5700.1A	Quality Assurance
DOE-RL 5700.2	Project Management System
DOE 5700.6B	Quality Assurance
DOE 5820.2A (Appendix 4E)	Radioactive Waste Management
DOE 6430.1A (Appendix 4F)	General Design Criteria

Table 2. List of Applicable Manuals/Abstracts
(13 Sheets)

No.	TITLE
1-1	<p>Management Policies</p> <p>This manual includes statements of broad governing principles, values, and acceptable practices.</p>
1-3	<p>Management Requirements and Procedures</p> <p>This manual provides company administration requirements and procedures.</p>
1-4	<p>Corrective Action Management Manual</p>
1-5	<p>Standard Operating Practices</p> <p>This manual establishes guidance for DOE 5480.19, "Conduct of Operations Requirements for DOE Facilities," as supplemented by the Westinghouse Electric Corporation's GOBU "Conduct of Operations" manual. It is intended to provide all managers and supervisors with guidance for the conduct of operations, without duplicating existing procedures. The manual covers all WHC projects, programs, activities, and facilities, unless exceptions are indicated in the individual procedures.</p>
1-6	<p>WHC Radiological Control Manual</p>
2-1	<p>Procurement Manual and Procedures</p> <p>This document is primarily a requirements document for use by Procurement and requisitioners to ensure that all procurement conform to the applicable RL and Federal procurement regulations. Procurement Procedure 1, "Purchase Requisition" is the primary, controlling document for the requisitioner.</p>
2-2	<p>Materials Management Manual</p> <p>This manual primarily describes responsibilities and work practices for Materials Management personnel who perform shipping, receiving, disbursing, inventory and warehouse management, central stores, excess and surplus property disposal, and reuse services at the Hanford Site. The information maintained in this manual is intended for administrative guidance by any Hanford Site employee using any Materials Management-managed program. The procedures in this manual may be used by other plant organizations as a guide in preparing their own facility implementing procedures and work instructions. The procedures in this manual reflect direction from DOE, Federal Property Management Regulations, WHC-CM-2-3, <u>Property Management Manual</u>, WHC-CM-2-3, <u>Quality Assurance Manual</u>, and WHC-CM-1-3, <u>Management Requirements and Procedures</u>.</p>

Table 2. List of Applicable Manuals/Abstracts
(13 Sheets)

No.	TITLE
2-3	<p>Property Management Manual</p> <p>This manual provides property management procedural direction for managers, property custodians, property coordinators, property representatives, and other employees who manage government property (except for nuclear material, covered in WHC-CM-4-34, "Materials Control and Accountability Manual"). The procedures in this manual reflect direction from DOE and Federal Property Management Regulations, WHC Prime Contract Clause I-69, and WHC-CM-1-3, <u>Management Requirements and Procedures</u>, MRP 2.11, "Property Management."</p>
2-4	<p>Property and Inventory Accounting Manual</p> <p>This manual defines the areas of financial and management responsibilities related to the funding, acquisition, accounting, and control of capital property, except special nuclear materials, assigned to or acquired by WHC in performance of the prime contract. Construction and Property Accounting maintains and uses this manual to implement their responsibilities as the final authority on capital versus expense decisions, for performing third party reviews, and for providing reviews on all procedures related to capital and plant equipment.</p>
2-5	<p>Management Control System</p> <p>This manual documents the WHC Management Control System used to organize, plan, monitor, and control all work performed by WHC for the DOE. The manual contains implementing procedures for WHC-EP-0388, <u>Management Control System Description</u>. The system requirements contained in this manual are to be employed by all organizations within WHC in the accomplishment of their missions.</p>
2-6	<p>Data Administration Standards</p> <p>This manual is primarily a procedure manual that defines the methods by which all WHC/BCSR personnel will apply data administration standards to all uses of data, whether the data is automated or manual. The procedures in the manual serve as the basis for compliance with applicable DOE and other regulatory requirements, and in particular RL 1330.2 "Data Administration at Richland," and RLO-ADP-1, "Hanford Site Data Administration Guide."</p>

**Table 2. List of Applicable Manuals/Abstracts
(13 Sheets)**

No.	TITLE
2-7	<p>Accounts Payable Manual</p> <p>The Accounts Payable Manual sets forth policies and procedures for control and payment of WHC financial obligations under the DOE contract, excluding salary payments. These policies and procedures are designed to ensure compliance with DOE and WHC requirements and generally accepted accounting principles. The manual outlines the policies and procedures for maintaining internal controls and ensuring that liabilities are properly stated and payments for goods and services are made in a timely manner. The manual also describes how payments are made, the payment terms, the type of documentation used by Accounts Payable to process and record payments, and pending commitments.</p>
2-8	<p>Accounts Receivable Manual</p> <p>This manual provides an overview of accounting procedures for recording, controlling and payment of receivables due to WHC under the DOE Prime Contract DE-AC06-87RL10930. The manual is used primarily by General Ledger Accounting. The content includes descriptions of various accounts and how they are used. This manual implements the <i>DOE Accounting Practices and Procedures Handbook</i>, and DOE 2200.06.</p>
2-9	<p>Cash Control Manual</p> <p>This manual sets forth specific policies and procedures for the control of cash and cash equivalents for which WHC has accountability. Descriptions and requirements of bank accounts and petty cash funds used by WHC are listed. The manual delineates WHC's provisions for the control of cash, including procedures for handling auction collections, excess store sales, safety shoe sales, employee store sales, and corporate and contract cash receipts. Guidelines are provided for the accountability and control of checks processed through WHC, including responsibilities for control of blank stock, signature requirements, and check preparation and distribution requirements. Also documented are controls for handling traveler's cheques. The Cash Control Manual's distribution is limited to a "need to know" basis.</p>

**Table 2. List of Applicable Manuals/Abstracts
(13 Sheets)**

No.	TITLE
2-14	<p>Hazardous Material Packaging and Shipping</p> <p>This manual defines the requirements, responsibilities, and procedures necessary to ensure that all hazardous material shipments are packaged and transported in a manner that complies with all appropriate regulations and minimizes risk to employees, the shipping industry, the public, and the environment. The regulations in this manual apply to all WHC organizations who package, ship, and transport hazardous material bound for onsite Hanford locations or offsite destinations. This manual implements the requirements of MP 2.5, "Shipping and Receiving," and MRP 5.20, "Packaging and Transportation of Hazardous Materials."</p>
2-15	<p>Training Administration Manual</p> <p>This is primarily a requirements document for use by Technical Training organizations to define requirements for technical training activities within WHC. The procedures in this manual also provide guidance to ensure compliance with applicable DOE, Washington State, WHC and other regulatory training requirements. The intended audience for this manual is all personnel, groups, and sections within Technical Training and those organizations which interface with the Technical Training function.</p>
2-17	<p>Budget Formulation Manual</p>
3-3	<p>Computer Operations Procedures</p> <p>This manual is a requirements document for computer operations, system management, change control, production control, and safety and security in the central facility and is intended for use by Operations personnel. The requirements comply with applicable RL requirements and WHC-CM-1-3, <u>Management Requirements and Procedures</u>, and serve as the basis for WHC-IP-00084, <u>Operations Workstation Procedures</u>.</p>
3-4	<p>Information Release Administration</p> <p>This manual describes the WHC administrative processes required for the review, approval and release of unclassified information of all kinds. It defines the various types of limited-use information that affect what type of audience may have access to certain information. This manual implements WHC-CM-1-3, MRP 1.16 and MRP 3.3.</p>

**Table 2. List of Applicable Manuals/Abstracts
(13 Sheets)**

No.	TITLE
3-5	<p>Document Control and Records Management Manual</p> <p>This manual establishes the sitewide requirements and provides direction for the conduct of document control and records management activities at WHC. The records management procedures within this manual ensure that WHC records are adequately identified, prepared, reviewed/approved, and protected in a readily retrievable manner. The document control procedures establish controls for the preparation, review/approval, distribution, revision, and use of controlled documents. The requirements and direction provided by this manual are based on document control/records management requirements invoked for compliance by DOE orders and directives, WHC-CM-4-2 (QR 6.0 and QR 17.0), and WHC-CM-1-3 (MRP 3.3 and MRP 3.21). All plans and procedures developed by any WHC organization that define or implement controls related to the aforementioned document control/records management activities are required to comply with the requirements and administrative processes described in this manual.</p>
3-6	<p>Uniform Publications System</p> <p>This manual establishes the publications standards for all documents produced by WHC authors, except for news releases, occurrence reports, correspondence, procurement notices, and classified information. This manual lists both requirements and guidance for any person or organization producing information, regardless of form. It implements DOE Orders DOE 1340.1A, DOE 1360.4, DOE 1430.1A, and DOE 1430.2A, as well as WHC-CM-1-3, MRP 3.15.</p>
3-10	<p>Software Practices</p> <p>This manual contains procedures and guidelines for use by IRM organizations that develop, maintain, use, or acquire software products and services. Use of these procedures provides for compliance with applicable DOE and RL orders and WHC requirements for software QA. The procedures in this manual are based on system and software requirements established in:</p> <p>DOE 1330.1D, "Computer Software Management" DOE 1360.3B, "Automated Data Processing Standards" DOE 1360.4A, "Scientific and Technical Computer Software" RL 1330.1A, "Automated Management Information Systems at Richland" WHC-CM-1-3, <u>Management Requirements And Procedures</u> WHC-CM-2-6, <u>Data Administration Standards</u> WHC-CM-3-4, <u>Information Release Administration</u> WHC-CM-3-5, <u>Document Control and Records Management Manual</u> WHC-CM-3-6, <u>Uniform Publications System</u> WHC-CM-4-2, <u>Quality Assurance Manual</u> WHC-CM-4-7, <u>Unclassified Computer Security</u> WHC-CM-6-1, <u>Standard Engineering Practices</u></p>

Table 2. List of Applicable Manuals/Abstracts
(13 Sheets)

No.	TITLE
4-1	<p>Emergency Plan</p> <p>This manual is primarily a requirements document for use by Emergency Preparedness and emergency response personnel in all organizations to establish internal WHC emergency management requirements that comply with applicable DOE and other regulatory agency requirements. The requirements in this manual serve as the basis for the procedures in WHC-CM-4-43, <u>Emergency Management Procedures</u> (for use by all WHC organizations), WHC-CM-4-44, <u>Emergency Preparedness Administration</u> (an EP Level III manual), and the facility and building emergency plans.</p>
4-2	<p>Quality Assurance Manual</p> <p>This manual is primarily a requirements document for use by all WHC organizations whose work affects quality. As defined in this manual, QA consists of all those planned and systematic actions necessary to provide adequate confidence that a structure, system, or component will perform satisfactorily in service. The manual establishes internal WHC QA requirements based on DOE orders and external regulations. The requirements in this manual serve as the basis for WHC procedures which affect quality, and for WHC-CM-4-8, <u>Quality Assurance Instructions</u>, a QA function Level III manual.</p>

**Table 2. List of Applicable Manuals/Abstracts
(13 Sheets)**

No.	TITLE
4-3	<p>Industrial Safety Manual, Vols 1-4</p> <p>This manual is organized into four volumes that apply to all WHC activities that affect industrial safety and hygiene. It currently provides requirements and responsibilities for occupational safety and industrial hygiene; however, the industrial hygiene requirements are being phased out of this manual and placed into the new WHC-CM-4-40, <u>Industrial Hygiene Manual</u>.</p> <p>The manual is currently organized as follows:</p> <p>Volume 1, "<i>Safety Standards</i>." Standards, designed and written for management, issued for mandatory compliance.</p> <p>Volume 2, "<i>Safety Guides</i>." Guides for selected standards, advisories written to explain to management the elements of the related standards and to assist managers in compliance with the standard.</p> <p>Volume 3, "<i>Safety Programs</i>." Energy Control Program (Lockout and Tagout) and the Respiratory Protection Program. These major safety programs are more extensive than standards, and include mandatory and guidance material.</p> <p>Volume 4, "<i>Health and Safety Programs for Hazardous Waste Operations</i>." This volume describes the WHC program for carrying out the Occupational Safety and Health Administration Hazardous Waste Operations and Emergency Response Standard (29 CFR 1910.120). This volume is for use in a) cleanup operations required by a governmental body (federal, state, or local, or other) involving hazardous substances that are conducted at uncontrolled hazardous waste sites, b) corrective actions involving cleanup operations at sites covered by the Resource Conservation and Recovery Act (RCRA), and c) voluntary cleanup operations at sites recognized by federal, state, local, or other governmental bodies as uncontrolled hazardous waste sites.</p>
4-5	<p>Quality Assurance Qualifications and Instructions</p> <p>This manual establishes qualification and certification requirements for Quality Assurance personnel who perform inspection and testing to verify conformance with specified requirements for the purpose of acceptability. It does not apply to the qualification of nondestructive examination (NDE) personnel. The manual also identifies responsibilities within the QA function, and provides instructions for qualifying and certifying inspection and test personnel. The program is defined in accordance with WHC-CM-4-8, <u>Quality Assurance Instructions</u>.</p>
4-6	Compliance Assurance

Table 2. List of Applicable Manuals/Abstracts
(13 Sheets)

No.	TITLE
4-7	<p>Unclassified Computer Security</p> <p>The purpose of the Unclassified Computer Security manual is to establish WHC unclassified computer security requirements to be used by all personnel to protect WHC computer systems from abuse and misuse, and sensitive unclassified information from unauthorized access, destruction, alteration, disclosure, or improper use. It documents the procedures and guidelines to assure compliance with DOE 1360.2A, "Unclassified Computer Security Program."</p>
4-8	<p>Quality Assurance Instructions</p> <p>This manual provides instructions for how QA personnel are to fulfill quality assurance requirements. The instructions are detailed descriptions of how the QA function implements the requirements of the <u>Quality Assurance Manual</u>. It is directly subordinate to, and is based on the requirements established in that manual.</p>
4-9	<p>Radiological Design</p> <p>This manual is a part of the WHC integrated radiation protection system. In conjunction with WHC-CM-4-10, <u>Radiation Protection</u> and WHC-CM-4-11 <u>ALARA Program Manual</u>, WHC-CM-4-9 provides compliance requirements from DOE orders, engineering standards, and level I and level II documents. The design engineer for new plant design or major modifications to radiological facilities at Hanford uses this document for radiological design guidance.</p>
4-11	<p>ALARA Program Manual</p> <p>This manual delineates and specifies authorities, responsibilities, requirements, policies, procedures, and guidelines for use by all WHC personnel in the implementation of As Low As Reasonably Achievable (ALARA) principles. Specific requirements and guidance for the completion of ALARA Management Worksheets, ALARA goal setting process (facility specific and sitewide), ALARA Checklist and Cost Benefit Analysis Worksheets are contained within WHC-CM-4-11. The application of the above listed tools will ensure compliance with RL requirements to minimize human and environmental exposures to radiation, hazardous materials and conditions, commensurate with sound economics and operating practices.</p>
4-12	<p>Operational Health Physics Practices Manual</p> <p>This manual describes the major programs and practices performed by Occupational Health and Safety (OHS) and provides instructions and guidance to OHS Managers and Supervisors. This manual further identifies the requirements of the <u>Radiation Protection</u> manual, WHC-CM-4-10. The Health Physics Practices Manual is implemented by the Health Physics Procedures Manual, WHC-IP-0692.</p>

**Table 2. List of Applicable Manuals/Abstracts
(13 Sheets)**

No.	TITLE
4-33	<p>Security Manual</p> <p>This manual provides instructions and guidance derived from DOE orders, RL Implementation Procedures (RLIP), and RL Notices as part of WHC policy requiring full compliance with it's contractual responsibilities. The manual establishes internal WHC Security management requirements and provides for information and reference use by WHC and it's subcontractor employees in Security-related subjects. It is also for guidance, procedural compliance, and, when appropriate, for noting any security changes in DOE requirements. The basis for the Security Manual is to assure compliance with applicable DOE and other pertinent regulatory agency requirements.</p>
4-35	<p>Safeguards Material Control Manual</p> <p>This manual is primarily an implementing procedure document used by WHC's Safeguards to respond to policy and requirements contained in WHC-CM-4-34, a Level II manual. It is also used as a guide for material control by all WHC organizations using, storing, processing or measuring nuclear materials. This document serves as a basis for more detailed manuals (internal publications) and desk procedures used by Safeguards for an effective material control program.</p>
4-38	<p>Nondestructive Examination Procedures</p> <p>This manual provides administrative and procedural requirements for performing NDEs by WHC NDE personnel as stipulated in WHC-CM-4-2, <u>Quality Assurance Manual</u>. It is in compliance with requirements of the American Society of Mechanical Engineers, <u>ASME Boiler and Pressure Vessel Code</u> and with the American National Standard Quality Assurance Program Requirements for Nuclear Facilities (ASME-NQA-1).</p>
4-40	<p>Industrial Hygiene Manual</p> <p>This manual establishes requirements of the WHC Industrial Hygiene Program. These standards were formerly included in several volumes of the <u>Industrial Safety Manual</u>, WHC-CM-4-3. Gathering these requirements into a separate manual is part of the response to a Tiger Team finding (IH.1-1) that indicated that WHC lacked a visible, comprehensive industrial hygiene program. The requirements of the manual are based on relevant DOE and RL directives for occupational health and apply to all WHC facilities and operations.</p>

Table 2. List of Applicable Manuals/Abstracts
(13 Sheets)

No.	TITLE
4-41	<p>Fire Protection Program Manual</p> <p>The first purpose of the <i>Fire Protection Program Manual</i> is to provide employees who are <u>not</u> fire protection professionals with the information necessary to ensure that WHC's commitment to uncompromising integrity and adherence to the highest safety standards is met in fire protection.</p> <p>Except for certain applications (such as new designs and modifications) the manual users are not expected to require access to National Fire Protection Association (NFPA) or other industry codes and standards. References to such documentation have been made only when required, with the expectation that manual users will request assistance from the Fire Protection Programs group if further details are desired or required.</p>
4-43	<p>Emergency Management Procedures</p> <p>This manual is primarily a procedures document for use by Emergency Preparedness and all other WHC organizations. This manual implements the requirements of WHC-CM-4-1, <u>Emergency Plan</u>.</p>
4-46	<p>Nonreactor Facility Safety Analysis Manual</p> <p>This manual specifies the requirements for staff and management who have primary responsibilities for ensuring safety of an operation and providing proper documentation to aid in compliance with safety analysis-related requirements in DOE orders and WHC management policies, and to establish criteria, procedures, and standards for safety analysis activities. Safety analysis is a documented process: to provide systematic identification of hazards within a facility or activity; to describe and analyze the adequacy of the measures taken to eliminate, control, or mitigate identified hazards; and to analyze and evaluate potential accidents and their associated risks. Compliance with this manual will help ensure that the health and safety of employees, the environment, and members of the general public are not subject to undue risk from the operation of DOE nonreactor facilities.</p>
5-3	<p>Sample Management and Administration</p>
5-16	<p>Solid Waste Management</p> <p>This manual is primarily a requirements document for use by all personnel who generate, handle, or dispose of solid waste in all organizations to establish solid waste management requirements that comply with applicable DOE and other regulatory agency requirements. This manual implements the WHC-EP-0063, <u>Hanford Site Solid Waste Acceptance Criteria</u>, within WHC, and documents the requirements for the revision of WHC-EP-0063.</p>

**Table 2. List of Applicable Manuals/Abstracts
(13 Sheets)**

No.	TITLE
5-40	<p>Grout Facilities - Administration</p> <p>This manual is a requirements manual for use by Grout Facilities personnel to establish and implement GTF plant-specific criteria and requirements of internal WHC administration; work control, operations, and surveillance requirements that comply with applicable DOE and other regulatory agency requirements. The procedures in this manual implement requirements from WHC-CM-1-3, <u>Management Requirements and Procedures</u>, to meet the needs of a new processing facility.</p>
6-1	<p>Standard Engineering Practices</p> <p>This manual provides the standard engineering practices for the conduct of all WHC engineering tasks in order to implement applicable design, safety, quality, environmental, and contractual requirements. These engineering practices support the principles of configuration management and design control to ensure that the engineering tasks and deliverable engineered products produced from these tasks are identified, authorized, verified, changed, and documented by a controlled methodology.</p>
6-2	<p>Project Management</p> <p>This manual provides guidelines and direction for managing major projects, line item projects, general plant projects, projects funded by capital equipment not related to construction (CENRTC) projects, expense-funded construction projects, and other construction-type activities. This manual is primarily a requirements document that is used sitewide by people performing project activities that comply with construction project management and project control requirements in accordance with RLIP 4700.1, "Project Management System." The requirements detailed in the front of this manual serve as the basis for the specialized-topic procedures included in the back of this manual and in WHC-CM-6-12, <u>Projects Department Procedures</u> (a Projects Department Level III manual).</p>
6-3	<p>Drafting Standards Manual</p> <p>The Drafting Standards Manual is the WHC required guide for developing and revising engineering drawings. All drawing developed by or for WHC (except for project architectural work, see WHC-CM-6-1, <u>Standard Engineering Practices</u>) are required to be developed in accordance with WHC-CM-6-3, the Drafting Standards Manual.</p>
6-5	<p>Software Application Quality Assurance Engineering Instructions</p>

**Table 2. List of Applicable Manuals/Abstracts
(13 Sheets)**

No.	TITLE
6-10	<p>Welding Manual</p> <p>This manual contains program requirements for welding and brazing activities performed by WHC for DOE facilities. Principle manual users are welding engineers, welding specialists and certain QA personnel required to approve changes to the welding program. The manual provides general descriptions of the major responsibilities and guidance concerning the application of codes related to welding. It also provides instructions on the proper method of qualifying welding procedures and personnel. A related document, WHC-SD-MA-SPP-001, <u>Welding Procedure Supporting Document</u>, includes all welding procedures specifications (WPS), information about weld inspection, repair, safety and a general section on welding and brazing requirements.</p>
7-4	<p>Operational Environmental Monitoring</p> <p>This manual is used in implementing and directing the Operational Environmental Monitoring Program. It is also used to direct cognizant engineers in investigation and reporting of suspect waste sites, investigating for approval of excavation permits, and directing them in the performance of inspections performed on the Operational Monitoring Program. This manual is written to comply with applicable DOE and other regulatory requirements and WHC-CM-7-5.</p>
7-5	<p>Environmental Compliance</p> <p>The purpose of this manual is to establish the environmental compliance requirements and guidelines to be used by WHC in conjunction with applicable DOE orders and federal, state, and local laws and regulations. The requirements in this manual are in accordance with the policy defined in WHC-CM-1-1, MP 5.1. The requirements in this manual apply to all WHC organizations and contractors using WHC-managed facilities.</p>
7-6	<p>Environmental Compliance Verification Program Manual</p> <p>This manual consists of implementation procedures for use by Environmental Assurance personnel to perform the Environmental Compliance Verification Program (ECVP). The ECVP is a multi-level program of compliance verification processes designed to provide WHC management and RL with information needed to assess the adequacy of environmental compliance issues that are the responsibility of WHC. The procedures in this manual elaborate upon the requirements established by WHC-CM-7-5, Part U, <u>Environmental Compliance</u> (for use by all WHC organizations).</p>

Table 2. List of Applicable Manuals/Abstracts
(13 Sheets)

No.	TITLE
8-7	<p>Operations Support Services</p> <p>This manual is a requirements and process description document for all WHC personnel who use or interface with the services of Operations Support Services. These services include activities related to the Davis-Bacon Act, condition assessment surveys, excavation and core drilling/tie-in permits, building administration and management, utilities (electricity, steam, and water), use of all types of vehicles, site selection, and roads. The sections in this document receive direction mainly from WHC-CM-1-3, <u>Management Requirements and Procedures</u>.</p>
8-8	<p>Job Control System</p> <p>This manual is primarily a requirements document for use by all organizations when performing maintenance, modifications, fabrications, and related services in WHC-managed facilities. This includes construction or contractor interfaces that impact a facility. It is intended to establish a process and minimum organizational requirements and procedures to effectively manage and control work activities in accordance with DOE 4330.4A, "Maintenance Management Program." The requirements in this manual serve as the basis for preparing facility-specific procedures to implement the system and to specify organizational structure to carry out the activities.</p>
8-9	<p>Workmanship Standards</p> <p>This manual provides a sitewide standard for specific electronic, electrical, and high voltage work actions (in the future will include mechanical work actions) and directions for related inspection procedures. This manual is an interpretation and compilation of various codes, regulations, and good practices related to workmanship. This manual is intended for use as a reference by craft personnel, maintenance planners, and inspectors, and as a tool for training. The existence of this manual is dictated by DOE 4330.4A, "Maintenance Management Program."</p>

APPENDIX A CRITERIA FOR DEACTIVATION ACTIVITIES

Table A-1. Generic Criteria for All Grout Facilities
(4 Sheets)

ITEM	WORK DESCRIPTION
CHKSHTS	Complete the deactivation check sheets for each facility or group of facilities signed off by the responsible personnel performing the actual work and the overview organizations and with managements approval signatures.
UORS	All pending Radiation Occurrence Reports, Event Fact Sheets, Unusual Occurrence Reports and/or any other out-of-standard condition reports should be finalized and closed out in accordance with applicable MRPs.
FSAR	The GTF Final Safety Analyses Report (FSAR) and Plant Emergency Procedures, shall be reviewed and updated for deactivation/shutdown status in accordance with applicable MRPs.
DOCUMENTS	CVI data, EMSs, equipment operating procedures, records, prints, as-builts, photographs, etc. are available in an indexed file and in good up-to-date order.
DECON_P	All permanent radiation zones should be decontaminated and released or the surface contamination levels reduced to prevent re-suspension and/or migration of loose contamination in accordance with Health Physics direction.
RADPOST	Where applicable, full compliance with WHC-CM-1-6, <u>WHC Radiological Control Manual</u> , must be assured, especially as it pertains to radiological posting. This should be accomplished by having Nuclear Safety perform an operational safety assessment, followed by operations correcting all noted discrepancies.
DECON_T	All temporary radiation zones inside and outside of facilities should be decontaminated and released.
DISPOSE_D	All stored radioactive and mixed waste (i.e., outside systems in containers such as barrels, drums, boxes, etc.) must be removed from facilities and disposed in accordance with appropriate procedures.

Table A-1. Generic Criteria for All Grout Facilities
(4 Sheets)

ITEM	WORK DESCRIPTION
DISPOSE_C	All unattached hazardous materials must be removed from facilities and disposed in accordance with established procedures.
HAZID	All hazardous material which is attached/contained and cannot be removed without going into a decontamination and decommissioning mode must be located, identified, quantified, and recorded as part of the shutdown/deactivation file.
RADSURV	Final radiological status surveys must be available on file, especially all process equipment.
DRAIN_V*	All tanks, vessels, drums, etc. must be drained and heels removed or, with the concurrence of Safety and Environmental, they are left in place and sampled and analyzed for radionuclides and hazardous materials in accordance with applicable state and federal regulations.
ZERO_E	Documentation must be available on file that shows that zero energy checks were made on all electrical circuits that were de-energized.
ELECT	Where applicable, centralize the electrical services left for S&M activities to one location (i.e., lighting circuits that are required for S&M).
AIREXH	Where appropriate, air supply and exhaust systems should be deactivated, sealed to the environment, and tagged.
DEACT	All unneeded equipment (e.g. pipes) and systems for S&M should be deactivated, isolated, and tagged.
FIRESUP	Reduce or eliminate year-round fire protection systems in accordance with Hanford Industrial and Fire Protection requirements.
RADMON	The radiation space monitoring system should be reduced to a level required by the Health Physics Technicians (HPT) organization.

Table A-1. Generic Criteria for All Grout Facilities
(4 Sheets)

ITEM	WORK DESCRIPTION
CAMON	The continuous air monitoring system should be reduced to a level required by the HPT organization.
ALARM	The facility monitoring and alarm system should be deactivated and tagged following the determination that no process solutions exist in the building that could contribute to nuclear contamination.
WSUPPLY	Reduce or eliminate the electrical and water supply services to the facility in accordance with the requirements of the S&M plan.
ELIGHT	Remove all emergency lighting from the facilities and dispose of associated batteries in accordance with applicable procedures.
EFFLUENT	All liquid effluent flow routes to disposal sites should be isolated by sealing or capping at the facilities and the outlet end of the discharge pipes screened off for varmint control.
SEAL	All appropriate facility penetrations, i.e., louvers, pipe openings, vent pipes, etc., should be closed off to prevent bird, animal, and weather intrusions.
CLOSE	All systems that were open to facilitate deactivation and could present a radiological and/or an industrial safety problem if left open must be adequately closed off.
ROOF	Repair all known facility roof leaks and/or deteriorated roof panels.
FURN	Remove and excess all office furniture.
SPAREP	Remove and excess all spare parts, tools, and equipment.
JANSUP	Remove all janitorial supplies from facilities.
INVENTORY	Property Management prepares an inventory of equipment, spare parts.
HOUSEK	Perform good housekeeping in all zones and areas in and around the facilities. Necessary safeguards are taken to prevent unauthorized removal of items.
ENVMON	The required environmental monitoring systems must be identified and maintained in serviceable condition.
PITS	Any seal pits dry or wet must be identified and their radiological status documented and on file.
LOCK	All doors to the facilities should be locked from the inside except those required for entrance by S&M crews. Access to the keys needed for entrance should be limited by access and key control procedures.

Table A-1. Generic Criteria for All Grout Facilities
(4 Sheets)

ITEM	WORK DESCRIPTION
PERMITS	Environmental and/or other applicable permits associated with the facility must be reviewed to determine the status and applicability for maintaining them.
S&MPLAN	Development of a S&M Plan for guidance on future requirements to maintain the facility in a safe, stable condition until final decommissioning.
LOG	Record all deactivation activities in the deactivation log books and reports.

*The following additional details are related to DRAIN_V activities.

All tanks, vessels, piping, powder handling equipment, hoppers, filters, etc. that were used either for storage of chemicals or the processing of waste must be flushed, cleaned, drained, and/or heels removed. Piping shall be blown out with dry air. This also includes previous equipment which has been out of service. A photographic record of the internal vessels must be made where applicable, or with the concurrence of Safety and Environmental they are left in place, sampled, and analyzed for radionuclides and hazardous materials in accordance with applicable state and federal regulations.

After the systems have been flushed, cleaned, drained, and/or heels removed, the piping systems shall be blanked at the appropriate location within the piping system. A record of the blanks installed shall be entered on ECNs and in the deactivation logbook.

Vessels, pits, or sumps that have the potential to receive significant liquid effluents from building leaks, consolidation of flushing solutions or storm water shall have a liquid level and monitoring system. Plant equipment that supports this monitoring shall be reviewed for the purpose of providing a file on the operating history and a list of spare parts.

Plant equipment that is required to be left operational in support of the S&M activities shall be reviewed for the purpose of providing a file on the operating history and a list of spare parts. This equipment shall not produce any liquid effluent discharges.

Table A-2. Criteria for the Waste Feed Transfer System (FTS)

ITEM	DESCRIPTION
WF_CUT	Isolate and blank off the tank farms from the Grout Facilities.
WF_TANK	Transfer sponsorship of Tank AP-102 and Tank AP-104 waste contents and equipment to Tank Farms.
WF_W062	Transfer project W-062, tank AP-104 upgrades to support the needs of TWRS. This will likely be just the new pit and installation of the in-tank mixer pump.
WF_PSW	Disposition the seismic detector and the old phosphate/sulfate waste (PSW) tank adjacent to the AP Tank Farm fence.

Table A-3. Criteria for the Dry Materials Facility (DMF)

ITEM	DESCRIPTION
DM_EMPTY	Empty all bins.
DM_FREEZE	Deactivate and freeze protect all equipment.
STRUCT	Ensure structural integrity of the major buildings.
DM_TRANSF	Negotiate the transfer of facility to another program if it can be used.
DM_FENCE	Otherwise, fence the area for safeguarding.

Table A-4. Criteria for Grout Processing Facilities (GPF)

ITEM	DESCRIPTION
GP_TRANSF	Transfer spare or surplus equipment to others.
GP_PROTECT	Place protectants on equipment as necessary.
STRUCT	Ensure structural integrity of the major buildings.
GP_COVER	Place coverblocks on module and sealant as needed for weather protection.

Table A-5. Criteria for Grout Disposal Facilities

ITEM	DESCRIPTION
DF CLOSE	Complete PSW vault cold capping and remainder of closure actions.
DF FILL	Fill in the excavation area with the soils pile material.
DF_TRANSF	Transfer pumps and other capital equipment to others as needed. Remove exhausters and Portable Instrument Houses (PIH) from vault. Transfer to others as needed.
DF_SEAL	Seal and isolate vaults 102-105 for future use by the Low-level Waste Program. This does not include additional fencing.

Table A-6. Other Criteria

ITEM	DESCRIPTION
CHAR	Complete waste characterization reports and issue.
LAB	Disposition grout specific lab equipment.
QA	The existing QA Program shall be modified to define QA requirements that are in place during shutdown/standby conditions.
PROJ	Terminate project and CENRTC activities with exception of tank AP-104 work.
PROG	Continue planning based on Case Beta. Transfer unused CENRTC funding to TWRS.

APPENDIX B MAJOR SYSTEMS TRANSFER PLAN

B1.0 DRY MATERIALS FACILITY (DMF)

ITEM	DESIGNATED RECEIVING ORGANIZATION, CONTACT, SAFETY IMPACT AND RESTART PLAN
DMF Storage Bins and Control Room	<p>To WRAP and Solid Waste Projects</p> <p>Contact: Dan Lucas</p> <p>Standby Plan: Prepare for a possible transfer to commence at the end of the standby phase (if and when Grout is terminated).</p> <p>Safety Impact: At least two of the bins contain small amounts of dry materials. These materials have hazardous characteristics and therefore, will be disposed while the proper equipment is available (i.e. vacuum system and dry material trailers).</p> <p>Restart Plan: Since this facility will be held until Grout is terminated, the restart effort will consist of reactivating and closing open issues (see Appendix C, Section C1.C.9) and performing a systems test. Therefore the implementation of this transfer will not inhibit a restart effort.</p>
Trucks (tractors and trailers)	<p>To Engineered Applications (EA), Technology Development.</p> <p>Contact: Steve Phillips</p> <p>Standby Plan: Prepare for a transfer as soon as possible. The receiving organization has stated that they will take the remaining dry materials for their use.</p> <p>Safety Impact: At least one of the trailers is needed to dispose of the remaining dry materials. Therefore, one trailer will be retained until the dry materials are disposed or transferred to EA.</p> <p>Restart Plan: The plan is to purchase new trucks and trailers to support a restart effort. The procurement schedule is estimated at 18 months. Therefore, the implementation of this transfer will not inhibit a restart effort.</p>

1000 KVA Transformer	<p>To Utilities.</p> <p>Contact: Rodney VanBaalen</p> <p>Standby Plan: Transfer the transformer after it has been replaced by the pole-mounted transformer(s). See Appendix C, Section C1.C.9.</p> <p>Safety Impact: The transformer is needed to support the current fire protection system. However, it is a fire hazard in itself and will be replaced by the pole-mounted transformer.</p> <p>Restart Plan: The pole-mounted transformers will be sized to support Facility operations. Therefore, the implementation of this transfer will not inhibit a restart effort.</p>
Other Miscellaneous Equipment	<p>To Property Utilization</p> <p>Contact: Ed Foss</p> <p>Standby Plan: Plan "A" is to transfer excess equipment to an appropriate DOE program during the standby phase. Plan "B" is to store the equipment within a secure location within the Facility. Plan "C" is to excess the equipment.</p> <p>Safety Impact: Some of the equipment will be needed to assist with the deactivation of the Facility. These items will be retained during the deactivation phase. Other equipment is available for immediate release.</p> <p>Restart Plan: All equipment that is released from the facility will be repurchased upon commencement of restart activities. All items can be replaced within a year. Therefore, the implementation of this transfer will not inhibit a restart effort.</p>

B2.0 FEED TRANSFER SYSTEM (FTS)

ITEM	DESIGNATED RECEIVING ORGANIZATION, CONTACT, SAFETY IMPACT AND RECOVERY PLAN
Project W-062	<p>Retrieval Development</p> <p>Contact: Les Fort</p> <p>Standby Plan: Tank AP-104 contains very little radioactivity which would otherwise complicate modification for future uses such as pretreatment and retrieval operations. Plan "A" is to transfer the sponsorship of this Project and the new mixer pump to another DOE Program. Plan "B" is to cancel the project, designate the new pump as a backup for the pump inside 101SY and fill the hole that was dug for the new pit.</p> <p>Safety Impact: This Project was intended to provide a second feed tank for the Grout Facilities. The current feed tank is not operational due to a failed mixer pump inside the tank. In the near term, the completion of this Project would present much less exposure to construction workers than the removal and replacement of the mixer pump in Tank AP-102. However, the mixer pump in AP-102 must eventually be removed anyway.</p> <p>Restart Plan: The Tank Farm organization is developing generic procedures for removing long items from a tank. Plan "A" is to transfer responsibility for removing the mixer to Tank Farms to achieve an efficiency of effort. Plan "B" is to retain some manpower within the Grout Facilities to remove the mixer during the standby phase. If the Facilities are required to restart, then the procurement and placement of a new pump is estimated to take 18 months. Therefore, the transfer or cancellation of this Project will not prevent a timely restart effort.</p>

Miscellaneous Tank AP-102 equipment	<p>Tank Farms</p> <p>Contact: Katie White</p> <p>Includes contents, mixer and seismic detector</p> <p>Standby Plan: Responsibility for making sure that the characterized waste feed is not compromised during the standby phase will be retained by the Standby/Restart group identified in Section 6.0 of this Plan. Responsibility for removing the in-tank mixer will be given to Tank Farms for the reasons stated above. Responsibility for the maintenance of the seismic detector will be transferred to Tank Farms since its functionality is also important to Tank Farms.</p> <p>Safety Impact: The tank will be isolated from the Facilities to eliminate any potential for contamination from an accident. Therefore, this transfer has no impact to safety.</p> <p>Restart Plan: The removal of the failed pump will be actively pursued during the standby phase. This effort will be further accelerated if the Facilities are required to restart processing and disposal actions. Upon restart, a new pump will be procured and installed. The time needed to procure and install a new pump is estimated at 18 months. Therefore the transfer of AP-102 equipment, to include the failed mixer pump, will not prevent a timely restart of the Grout Facilities.</p>
-------------------------------------	--

Tank AP-102 Mixer
support equipment

101SY

Contact: Sherri Brisbin

Standby Plan: The transfer of some of this equipment is already in progress to support the safety requirements of storing waste in Tank 101SY. The plan is to make all of the remaining equipment available during the standby phase. Configuration control will be maintained during the standby phase.

Safety Impact: The mixer support components do not have any function during the standby phase. Therefore, there is no safety impact from the transfer of this equipment.

Restart Plan: If the Facilities are required to restart waste processing and disposal actions, then new equipment will be procured to replace the equipment that is missing. All of this equipment should be readily available from various vendors. Therefore, the transfer of this equipment will not prevent a timely restart of waste processing activities.

B3.0 GROUT PROCESSING EQUIPMENT

ITEM	DESIGNATED RECEIVING ORGANIZATION, CONTACT, SAFETY IMPACT AND RECOVERY PLAN
Trailers, office equipment, maintenance equipment, 90 day material supply	<p>Compliance, Sampling and Support Operations (CSSO)</p> <p>Contact: Dennis Hamilton Steve Morgan (Office Sp) Ed Foss (Property Util)</p> <p>Standby Plan: Some office space and shop space will be made available to CSSO during the deactivation phase. At most, one office building will be retained for the Grout Facilities during the standby phase and the shop space will be turned over to CSSO.</p> <p>Safety Impact: The sharing of shop space during the deactivation phase must be carefully monitored to prevent a compromise of the conduct of operations. Since the deactivation philosophy is intended to minimize any maintenance during the standby phase, there is minimal impact to safety by transferring the shop to another organization.</p> <p>Restart Plan: Upon restart, the offices and shop space near the facility must be cleared to support a timely and safe restart effort. It is assumed that the DOE and the operating contractor will provide the necessary priority to the Grout Facilities to implement this concept. Therefore, the transfer of the office and shop space to another organization during the standby phase will not prevent the timely restart of waste processing activities.</p>

Control room simulator equipment	<p>Technical Support and Administration (under CSSO)</p> <p>Contact: Jim Foster</p> <p>Standby Plan: The simulator will be available to another DOE program that can use the equipment.</p> <p>Safety Impact: Since the control room will not be operational, the simulator will have no safety function during the standby phase. Therefore, there is no safety impact from the transfer of this equipment.</p> <p>Restart Plan: The facility can be operated with the simulator. If the Grout Facilities are given a long-term mission, then the simulator can be rebuilt to support the development of procedures and the training of operators.</p>
Vehicles (Trucks and forklifts)	<p>Technical Support and Administration (under CSSO)</p> <p>Contact: Jim Foster</p> <p>Standby Plan: At most, one of the vehicles may be required to support the standby phase of the Grout Facilities. Other vehicles and forklifts will be very useful to another operations group.</p> <p>Safety Impact: The vehicles and equipment are needed to support the deactivation phase. This equipment has very little utility to the Grout Facilities during the standby phase. If additional vehicles or forklifts are required during the standby phase, it will be borrowed from another organization. Therefore, there is no safety impact from the transfer of this equipment.</p> <p>Restart Plan: Upon receipt of a restart directive, vehicles and forklifts will be borrowed from other DOE programs to support restart efforts. The Grout Facilities will also procure new equipment to support efforts. Therefore, the transfer of vehicles will not prevent a timely restart of the processing operations.</p>

Portable Equipment (Trailers, etc)	Technical Support and Administration (under CSSO) Contact: Jim Foster Standby Plan: The portable equipment currently owned by the Grout Facilities would be very useful to another operational groups. The intent of the deactivation philosophy is to make all of this equipment available to other programs to effect a near-term cost and schedule savings for DOE. Safety Impact: Much of the equipment is needed to support the deactivation phase. This equipment has very little utility, however, to the Grout Facilities during the standby phase. If additional equipment is required during the standby phase, it will be borrowed from another organization. Therefore, there is no safety impact from the transfer. Restart Plan: Upon receipt of a restart directive, equipment will be borrowed from other DOE programs to support restart efforts. The Grout Facilities will also procure new equipment to support efforts. Therefore, the transfer of equipment will not prevent a timely restart of the processing operations.
Project W-257	CSSO Contact: Dennis Hamilton Standby Plan: This Project is required to comply with fire protection requirements for trailers and office equipment near the GPF. The funding however, has been redirected to other DOE projects which, in effect, cancels this Project. The plan is to assign this compliance issue to the group that assumes responsibility for the shop and office space. See Appendix C, Section C1.C.9. Safety Impact: The placement of fire hydrants near the facilities would facilitate fire-fighting efforts and therefore, could enhance the safety of the facilities. The issue will remain active so that there will be no additional impact to safety by transferring the issue to the next group of occupants. Restart Plan: It is anticipated that this issue will be resolved in the near future. Therefore, the transfer will have no impact on the restart of the processing actions.

Change Trailer	<p>SST Retrieval Systems</p> <p>Contact: Mike Lane</p> <p>Standby Plan: The plan is to transfer the trailer to another DOE program after the Facilities have been deactivated.</p> <p>Safety Impact: The facilities will essentially be uncontaminated during the standby phase. Controlled areas can be marked and portable radiation detection equipment can be used for surveys. Therefore, there will only be a minimal impact to safety.</p> <p>Restart Plan: Upon restart, the Facilities will pursue the procurement of a fully compliant change facility. The current change facility is not fully compliant with DOE Order 6430.1A. Therefore, the transfer of this trailer has no effect on restart efforts. The estimated time required to procure and install a compliant change facility is 18 months.</p>
Spare Parts	<p>Property Utilization</p> <p>Contact: Ed Foss</p> <p>Standby Plan: It is assumed that many of the spare parts currently owned by the Grout Facilities would be very useful to another operational groups. The intent of the deactivation philosophy is to make all of these parts available to other programs to effect a near-term cost and schedule savings for DOE.</p> <p>Safety Impact: In general, spare parts are not needed to support the deactivation or standby phase. Parts that may be required during the standby phase will be stocked by the Tank Farms organization who will provide maintenance support to the Grout Facilities. Therefore, there is no safety impact from the transfer.</p> <p>Restart Plan: Upon receipt of a restart directive, parts will be obtained from other DOE programs to support restart efforts or they will be purchased or fabricated. All of these activities can be accomplished in a timely manner to support a timely processing of waste feed.</p>

B4.0 GROUT DISPOSAL FACILITY (GDF)

ITEM	DESIGNATED RECEIVING ORGANIZATION, CONTACT, SAFETY IMPACT AND RECOVERY PLAN
PIHs	<p>SST Retrieval Systems</p> <p>Contact: Carl Dean</p> <p>Standby Plan: Prepare for a transfer of the buildings and associated cables as soon as possible. The PIHs are needed for a high priority DOE program.</p> <p>Safety Impact: The PIHs have no function during the standby phase. Therefore, there is no safety impact from this transfer.</p> <p>Restart Plan: Upon receipt of a restart directive, the Facilities must initiate the procurement of identical buildings. The design and the test procedures for these buildings will be readily available so that it will be possible to have a qualified equipment within 18 months. Therefore, the transfer of this equipment will not prevent the timely restart of processing operations.</p>
Ventilation System	<p>106-C</p> <p>Contact: Scott Pierce</p> <p>Includes inlet, exhaust and cables</p> <p>Standby Plan: Prepare for a transfer of the ventilation system and associated cables sometime during the standby phase. The system should be useful to some other DOE program.</p> <p>Safety Impact: The exhauster will have no function during the deactivation or standby phase. Therefore, there will be no safety impact from this transfer.</p> <p>Restart Plan: Upon receipt of a restart directive, the Facilities must initiate the procurement of an identical system. The design and the test procedures for the system will be readily available so that it will be possible to have a qualified equipment within 18 months. Therefore, the transfer of this equipment will not prevent the timely restart of processing operations.</p>

Core Truck	<p>Characterization Program</p> <p>Contact: Dean Hagmann</p> <p>Standby Plan: Prepare for a transfer as soon as possible. The receiving organization has stated that they will take the remaining dry materials for their use.</p> <p>Safety Impact: The core truck has no function during the standby phase. Therefore it has no impact to safety.</p> <p>Restart Plan: If the grout in a filled vault needs to be characterized, the Grout Disposal Program will task the Characterization Program for samples.</p>
Hydrogen Resolution Program	<p>To be determined</p> <p>Standby Plan: A number of tasks associated with the closure of the hydrogen issue are near completion and will be finished during the standby phase. See Appendix C, C1.B.4.D.</p> <p>Safety Impact: Information pertaining to hydrogen will not be useful to the standby phase of the Grout Program. Therefore there are no safety impacts associated with the transfer of this work to others.</p> <p>Restart Plan: The information generated during the standby plan will provide a solid basis for the development of hydrogen mitigation equipment. The information may determine that the equipment is not needed, or it could show that the equipment needs to be developed during the standby phase in order to meet the two year startup criteria.</p>

Jumpers	<p>Projects</p> <p>Contact: Tom Staehr</p> <p>Standby Plan: Prepare for a transfer as soon as possible to provide timely support of another DOE program.</p> <p>Safety Impact: The jumpers have no function during the deactivation or standby phases. Therefore there is no impact to safety.</p> <p>Restart Plan: New jumpers will be fabricated during the restart phase. The time required to fabricate the jumpers is estimated to be less than six months. Therefore, transferring these jumpers to another DOE program will not prevent the timely restart of waste processing by the Grout Facilities.</p>
Pumps	<p>To be determined</p> <p>Standby Plan: Prepare for a potential transfer during the standby phase.</p> <p>Safety Impact: The pumps have no function during the standby phase. Therefore, there won't be any impact to safety if the pumps were transferred to another program.</p> <p>Restart Plan: Even though it took more than two years to procure and test these particular pumps in preparation for a 1993 startup, The standby/restart team must provide conclusive evidence that these pumps can be procured in less than 18 months before they can be released to another DOE program.</p>

Vaults 102-105	<p>Environmental Division</p> <p>Contact: John Ludowise</p> <p>Standby Plan: Prepare for a transfer of vault 105 as soon as possible. Prepare for a transfer of vaults 102, 103 and 104 at the end of FY 1995.</p> <p>Safety Impact: The vaults will not have any function during the standby phase. Therefore, there is no impact to safety if the vaults are transferred to another DOE program.</p> <p>Restart Plan: Vaults 102, 103 and 104 will be retained during the standby phase to support processing of waste by the Grout Facilities. Additional vaults will probably not be needed to resolve the tank farm safety issue that caused the restart effort (e.g. a leaking tank). If new vaults are needed, they could be built in less than three years. Vault 104 would probably not be filled until three or four years after a restart effort is initiated. Therefore, the transfer plan given above will not impact the timely restart of waste processing operations by the Grout Facilities.</p>
----------------	--

APPENDIX C WORK BREAKDOWN STRUCTURE

C1.0 GROUT FACILITIES/ACTIVITIES

C1.A ACTIVATE NEW WORK

C1.A.1 Records Collection and Storage

Records Collection and Storage			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	All	DOCUMENT	<p>Collect the following documentation:</p> <ul style="list-style-type: none">• In-process work• A copy of QA record and Regulatory File records. (Need not be Grout's QA record, may be another group's QA record. Just has to have some impact or information about Grout contained in it, i.e., supporting documents, administrative procedures)• Other records• QA or regulatory file material• One-of-a-kind documentation on the Grout Facility• Technical reference material such as vendors catalogs• Other documents that would facilitate a restart effort• The original checklist and log used to record the activities associated with this (deactivation) plan

Records Collection and Storage			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
2	Widhalm Gardner	DOCUMENT	<ul style="list-style-type: none"> • All QA & regulatory file materials are to be turned into the DPC/RHA and copies of those are to be archived in standard file cabinets at the Information Resource Center • Place in-process (unfinished) documents in fireproof file cabinets • Place one-of-a-kind important documents in fireproof file cabinets • Place other records in fireproof file cabinets • Place informational copies of documents/records in standard file cabinets

C1.A.2 Surveillance and Monitoring Plan

Standby Surveillance and Monitoring Plan			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Jimenez	S&MPLAN	Provide technical justification for the shutdown or continuation of cathodic protection for the GPF and the GDF.
2	Yoakum Nunamaker	S&MPLAN	<p>Develop a S&M Plan based upon the following assumptions:</p> <p>Rotation - No periodic rotation of equipment will be required. No motors are large enough to expectation bearing/shaft damage from being idle.</p> <p>Radiation monitors will no longer be required. Continuous air monitors, radiation indicating tabs, and area radiation monitors (ARM) will be transferred to others or excessed.</p>

Standby Surveillance and Monitoring Plan			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
2 Cont'd	Yoakum Nunamaker	S&MPLAN	<p>Electricity will be de-energized to all buildings and equipment with the exception of those circuits required to supply: outdoor area lighting, interior lights, emergency lights, and control room heating.</p> <p>Continuation of the following preventive maintenance (PM) will be required:</p> <ul style="list-style-type: none"> • Winterization • Emergency Lighting • Substation Cleaning and Inspection (DMF & GPF) • Backflow Preventer testing • A tickler to inspect and change valve position for the sewer system will be created. This may become a landlord function • Heating/air conditioning and ventilation • Cathodic protection <p>All other PM and calibration activities will be terminated.</p> <ul style="list-style-type: none"> • Cancel Pacific Northwest Laboratory (PNL) & WHC calibration activities • Deactivate PISCES • Deactivate PM's - lock and tag hoists if no PM is to be performed • Cancel third-party inspections of pressurized vessels • Cancel vent & balance testing activities

C1.A.3 Program Restructuring

STANDBY S&M PLAN			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Claghorn	PROG	Prepare a standby plan in response to DOE direction.
2	Hanlon	PROG	Prepare and status a schedule for deactivation and standby activities.
3	Wood	PROG	Prepare the fiscal year work plan to reflect the new mission for the Grout Facilities.

C1.B TRANSFER FACILITIES/ACTIVITIES**C1.B.1 Dry Materials Facilities****C1.B.1.A Dry Material Storage Bins**

TRANSFER STORAGE BINS			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Gretsinger	DISPOSE_C	Dispose of the dry materials in the storage bins. See the DISPOSE_C checklist in Appendix C, C1.C.7.E.1. The Engineered Applications may be able to use the materials. Contact: Pat Scanlon, 376-8749.
2	Moxin	DM_TRANSF	Negotiate the transfer of the facility to the WRAP and Solid Waste Projects organization. Contact: Dan Lucas, 376-0060.

C1.B.1.B Trucks

TRANSFER DRY MATERIAL TRUCKS			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Gretsinger	DISPOSE_C	Disposal of all dry materials in the transport trailers. The Engineered Applications may be able to use the materials. Contact: Pat Scanlon, 376-8749.
2	Moxin	DM_TRANSF	Negotiate the transfer of the trucks (tractors and trailers) to the Engineered Applications, (Technology Development). Contact: Steve Phillips, 376-1720.

C1.B.1.C Other Equipment

TRANSFER DMF MISCELLANEOUS EQUIPMENT			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Moxin	DM_TRANSF	Negotiate transfer of the excess equipment to Property Utilization. Contact: Dan Lucas, 376-0060.

C1.B.2 FTS

C1.B.2.A Project W-062

TRANSFER SPONSORSHIP OF PROJECT W-062			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Cole	WF W062	Complete caisson procurement activities.
2	Claghorn	WF_W062	Turn over sponsorship of the project to Retrieval Development. Transfer may include the new mixer pump identified in Section C1.B.2.B. Contact: Les Fort, 372-0425.

C1.B.2.B Tank AP-102 Equipment

TRANSFER GROUT FACILITIES MISCELLANEOUS TANK AP-102 EQUIPMENT			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Deffenbaugh	WF_TANK	Negotiate transfer of the facility and related Grout equipment to the Tank Farms organization. This includes the seismic detector. Contact: Katie White, 373-9329
2	Jimenez	WF TANK	Develop new mixer pump removal plan.
3	Kison	WF_TANK	Complete mixer pump testing activities and transfer to Retrieval Development (see Section C1.B.2.A). Testing was initiated in Fiscal Year 1993 and will be completed in the near future. The testing activity will be completed by the Grout Facilities because the manufacturer's warranty may expire before a transfer can be negotiated.

C1.B.2.C Tank AP-102 Mixer Support Equipment

TRANSFER AP-102 MIXER SUPPORT DOCUMENT			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Deffenbaugh	WF_TANK	Negotiate transfer of mixer support equipment to the Tank 101SY organization. Contact: Sherri Brisbin, 376-9180

C1.B.3 Grout Processing Facilities**C1.B.3.A Office, Trailers and Equipment**

TRANSFER GPF OFFICE, TRAILERS AND EQUIPMENT			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Nunamaker	GP_TRANSF	Negotiate transfer of the facility to the CSSO organization. Contact: Steve Morgan (TWRS), 373-2252, and Jim Foster, 373-3765
2	Claghorn	GP_TRANSF	Negotiate transfer the simulator to the Technical Support and Administration. Contact: Jim Foster, 373-3765
3	Claghorn	GP_TRANSF	Vehicles (trucks and forklifts). Contact: Jim Foster, 373-3765
4	Claghorn	GP_TRANSF	Portable Equipment, (trailers, etc). Contact: Jim Foster, 373-3765
5	Nunamaker	FURN	Disposition all office furniture located at the GPF and support mobile offices. Contact property management to document the transfers.

C1.B.3.B Change Trailer

TRANSFER THE GPF CHANGE TRAILER			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	NA	ZERO_E	All electrical circuits de-energized within this building are fed from the 243-G6 Electrical Equipment Module. See the ZERO E descriptions for Electrical Equipment Module documentation of energy checks.
2	Yoakum	SEAL	See SEAL checklist, Appendix D, D1.B.3.B
3	McMath	GP_TRANSF	Negotiate transfer of the trailer to the SST Retrieval organization. Contact: W. M. (Mike) Lane, 372-0213.

C1.B.3.C Spare Parts

TRANSFER GPF SPARE PARTS			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	McMath	GP_TRANSF	Prepare and maintain a list of property present at the GTF. This list will be included in the deactivation files and will support the development of the Master Equipment List.
2	Armatis	SPAREP	Make the list of spare parts available for evaluation by other WHC organizations for interest and potential acquisition of portions of the Grout spares. This list does not include the ninety day inventory of maintenance items identified below.
3	Gotterbarm	SPAREP	<u>MO-997, MO 674, Connex boxes, 2101M</u> All spare parts, tools, and equipment will be identified and either excessed or transferred to other organizations. Contact: Ed Foss, 376-2428.

C1.B.3.D Project W-257 - GPF Fire Hydrant

TRANSFER PROJECT W-257			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Hundal	GP_TRANSF	Attempt to transfer of project sponsorship to CSSO or the Landlord organization. The project provides fire hydrants to the GPF office and processing complex.

C1.B.4 GDF**C1.B.4.A PIHs**

TRANSFER THE PIHS			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Claghorn	GF_TRANSF	Negotiate transfer of the facility to the SST Retrieval organization. Contact: W. M. (Mike) Lane, 373-7149.

C1.B.4.B Ventilation System

TRANSFER THE GPF VENTILATION SYSTEMS			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	McKinney	PROJ	Existing vent system (#1) - This system has been delivered and has gone through the Acceptance Test Procedure. There are minor problems which have not been fixed due to TWRS administrative hold. Projects will disposition the Project punch list and assure that Project records are in file.
2	Wells	PROJ	Disposition Projects punch list for the existing vault exhausters. Support project closure.
3	Wells	PROJ	Incorporate comments on the procurement specification for vault exhausters 2 and 3. Incorporate as-built drawings into specification. Issue specification as impact level 4 "For information only."
4	Wells	DF_TRANSF	Existing vent system (#1) - Negotiate the transfer of the system to 106-C. Contact: S. R. (Scott) Pierce, 373-2649.

C1.B.4.C Core Truck

TRANSFER THE CORE TRUCK			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Cog Engr	DF_TRANSF	Negotiate the transfer of the facility and remaining funding to the Characterization Program. Contact: Dean Hagmann, 373-5761

C1.B.4.D Hydrogen Resolution Program

TRANSFER THE HYDROGEN RESOLUTION PROGRAM			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Powell	DF_TRANSF	Negotiate transfer of the hydrogen analysis/mitigation program to the solid waste organization.

TRANSFER THE HYDROGEN RESOLUTION PROGRAM			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
2	Powell	PROJ	<p>Complete the experimental program as outlined below. The results of this program will form a good basis for final SAR modifications if the need for Grout is established in the future. This should allow for a startup of grout in less than two years by resolution of the gas generation issue. The title, status of experimental progress, schedule, final product, and group in charge of the work is listed.</p> <ul style="list-style-type: none"> • Gas Concentration Model upgrade to 3-D <ul style="list-style-type: none"> - Work shut down in October, cost account closed out - Modeling 80% complete - Central Engineering - Work may be restarted any time, may be required for final SAR approval
3	Powell	PROJ	<ul style="list-style-type: none"> • Simulated liquid waste generation, liquid irradiation and grout preparation. <ul style="list-style-type: none"> - Experimentation complete - Issue Supporting Document January, 1994 - Estimated cost \$10 K - Bill Powell - Low-Level Waste Disposal Technology (LLWDT) - Required to document/validate make up of grout for other investigations
4	Powell	PROJ	<ul style="list-style-type: none"> • Liquid Return by Pressure <ul style="list-style-type: none"> - Experimentation complete in late December - Supporting Document issue January, 1994 - Remaining cost \$10 K - Geotechnical Engineering and LLWDT - Required to answer liquid return issue, lots of application throughout industry
5	Powell	PROJ	<ul style="list-style-type: none"> • Liquid Return by Gamma Irradiation <ul style="list-style-type: none"> - Experimentation shut down November, 50% complete - Letter report in January, 1994 - Estimated remaining cost \$10 K, cost for entire SOW \$80 K - Dr. C. Hinman, Central Engineering - Documentation of liquid return with campaign 102 grout will be limited due to early shutdown, may be required for SAR approval

TRANSFER THE HYDROGEN RESOLUTION PROGRAM			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
6	Powell	PROJ	<ul style="list-style-type: none"> • Grout Gas Generation <ul style="list-style-type: none"> - Interim report issued December - Draft final report due January 1994, issued February - Estimated remaining cost \$10 K, will probably incur shut down penalty if closed out prematurely. - Contract with ANL - Required for SAR validation of gas yields
7	Powell	PROJ	<ul style="list-style-type: none"> • Hot Grout Gas Generation <ul style="list-style-type: none"> - Testing to be continued until complete, January 1994 - Final report March 1994 - Cost \$100 K - Dr. J. Person, 222-S laboratory - Required to restart Grout in <2 years
8	Powell	PROJ	<ul style="list-style-type: none"> • Hydrogen Catalyst Recombiner <ul style="list-style-type: none"> - Experiments complete in December, - Supporting document issue in January. - Estimated remaining cost \$10 K - M. Britton, Chemical Engineering Pilot Plant - Required for Grout SAR analysis, wide application in solid mixed waste disposal

C1.B.4.E Pumps

TRANSFER THE SHORT LEACHATE/EXCESS LIQUID PUMPS			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	McKinney	PROJ	Complete procurement activities with Goulds Pump. Money has been committed so there is no advantage in stopping fabrication and testing of the pumps. Completing fabrication at Goulds in accordance with the specifications will give DOE a product someone can use. Simply dropping the procurement will give us useless pumps. Six pumps will be delivered. At delivery time a determination will be made as to their disposition.

TRANSFER THE SHORT LEACHATE/EXCESS LIQUID PUMPS			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
2	McKinney	PROJ	Terminate Kaiser Engineers Hanford (KEH) fabrication/assembly activities for the short-term leachate pump assembly (4) and the excess liquid pump assembly (2). There is no reason to complete these assemblies which are specifically for mounting the pumps in the vault or in the leachate pit. Void existing assembly documents and scrap existing materials.

C1.B.4.F Vaults 102-105 and Misc Equipment

TRANSFER VAULTS 102 - 105			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Claghorn	DF_TRANSF	Attempt to transfer of the facility to the Environmental Division. Transfer vault 105 immediately, vaults 102-104 are to be transferred at the end of FY 1995. Contact: John Ludowise, 376-6470.
2	Claghorn	DF_TRANSF	Negotiate the transfer of the transformers to Utilities. Contact: Rodney VanBaalen, 373-5494
3	Claghorn	DF_TRANSF	Negotiate the transfer of the jumpers to WHC Projects. Contact: Tom Staehr, 372-3013

C1.C DEACTIVATE FACILITIES/ACTIVITIES**C1.C.1 Grout Processing Facilities****C1.C.1.A 243-G3 Decon Additives Module****C1.C.1.A.1 Decontaminate 243-G3**

DECONTAMINATE 243-G3 DECON ADDITIVES MODULE			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Clemens	DRAIN_V	There are five empty chemical storage tanks; these tanks have either been triple rinsed or have never had anything in them. The particulars of the tank rinsing are a matter of record. Tank rinsing should be configured through facility process. None of the tanks have ever had radioactive materials in them.
2	NA	DECON_P	No action required.
3	McMath	DECON_T	Decontaminate and release any temporary surface contamination areas.
4	Gretsinger	DISPOSE_D	Dispose of all radioactive low-level or mixed waste in accordance with appropriate procedures i.e., restricted approval requirements.
5	Gretsinger	DISPOSE_C	Dispose or disposition of all hazardous materials.
6	McMath	HAZID	Identify all remaining hazards at the facility and record as part of the deactivation file.
7	Mabry	RADSURV	Perform final radiological surveys of the facility. Map the areas and place into the shutdown record file.
8	NA	PITS	No action required.

C1.C.1.A.2 Deactivate Utilities

DEACTIVATE 243-G3 DECON ADDITIVES MODULE			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Yoakum	ZERO_E	All electrical circuits de-energized within this building are fed from the 243-G6 electrical equipment module. See the ZERO_E descriptions for the electrical equipment module for documentation of energy checks.

DEACTIVATE 243-G3 DECON ADDITIVES MODULE			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
2	Yoakum	ELECT	The lighting circuits fed from circuits 6 and 8 in the electrical equipment module power panel (PPI) will remain energized. These circuits pass through the PTB-DA terminal box in the decon module.
3	Yoakum	AIREXH	Air compressors will be de-energized.
4	McMath	DEACT	The air receiver should be blown down and the equipment shut down and tagged out.
5	NA	FIRESUP	No action required.
6	NA	RADMON	No action required.
7	NA	CAMON	No action required.
8	NA	ALARM	No action required.
9	Yoakum	WSUPPLY	See WSUPPLY checklist, Appendix D, D1.C.1.A.2

C1.C.1.A.3 Close

CLOSE 243-G3 DECON ADDITIVES MODULE			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	NA	EFFLUENT	No action required.
2	Nunamaker	JANSUP	Remove or transfer ownership of all janitor supplies.
3	Gotterbar m	SPAREP	Remove and excess all spare parts, tools and equipment.
4	Clemans	ROOF	See ROOF checklist, Appendix D, D1.C.1.A.3
5	Yoakum	SEAL	See SEAL checklist, Appendix D, D1.C.1.A.3
6	Yoakum	CLOSE	Condensate lines should be capped after being blown out.
7	McMath	RADPOST	Assure compliance with WHC-CM-1-6.
8	NA	ELIGHT	No action required.
9	Clemans	INVENTORY	Document an inventory of all remaining equipment.
10	McMath	HOUSEK	Perform thorough housekeeping throughout the facility. Provide the appropriate access control and security to prevent unauthorized removal of items.
11	NA	ENVMON	No action required.
12	McMath	LOCK	Ensure all doors at the facility are locked and keys to those facilities are controlled.

CLOSE 243-G3 DECON ADDITIVES MODULE			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
13	Yoakum	S&MPLAN	Ensure HVAC systems are functioning. This will provide environment control for this facility while in cold standby.

C1.C.1.B 243-G4: Control Room**C1.C.1.B.1 Deactivate Utilities**

DEACTIVATE 243-G4 CONTROL ROOM			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Yoakum	ZERO E	See ZERO E checklist, Appendix D, D1.C.1.B.1
2	Yoakum	ELECT	The lighting circuits fed from circuits 6, 7 and 10 in the control module service panel will remain energized.
3	NA	AIREXH	No action required.
4	NA	DEACT	No action required.
5	Clemans	FIRE SUP	The halon fire suppression system in the control module may be shut down, presuming the computer is shut down. Wet systems in occupied facilities and facilities housing permanent records must be kept on and the facilities heated to prevent freeze-up of these lines. Wet fire systems in unoccupied facilities containing no permanent records may be deactivated but must be drained to prevent freeze-up.
6	NA	RADMON	No action required.
7	NA	CAMON	No action required.
8	Clemans	ALARM	The only source of new contaminated solution is AP tank farms. Once that facility is isolated by means of blank flanges at tank farms and a survey indicates that lines at the liquid collection tank (LCT)/mixer module (MM) are empty, then the alarm system may be deactivated.
9	Clemans	WSUPPLY	Isolate the water supply to the facility.
10	Clemans	HAZID	Ensure the HALON in the GPF fire protection system is quantified, identified, and recorded in the shutdown file (if maintained).

C1.C.1.B.2 Close

CLOSE 243-G4 CONTROL ROOM			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	NA	EFFLUENT	No action required.
2	Nunamaker	JANSUP	Remove or transfer ownership of all janitor supplies at the DMF, GPF and support mobile offices.
3	Gotterbarm	SPAREP	Remove and excess all spare parts, tools and equipment.
4	Clemans	ROOF	See ROOF checklist, Appendix D, D1.C.1.B.2
5	Yoakum	SEAL	See SEAL checklist, Appendix D, D1.C.1.B.2
6	NA	CLOSE	No action required.
7	Clemans	RADPOST	No action required.
8	NA	ELIGHT	No action required.
9	Cog Engr	INVENTORY	Document an inventory of all remaining equipment.
10	McMath	HOUSEK	Perform thorough housekeeping throughout the facility. Provide the appropriate access control and security to prevent unauthorized removal of items.
11	NA	ENVMON	No action required.
12	McMath	LOCK	Ensure all doors at the facility are locked and keys to those facilities are controlled.
13	Yoakum	S&MPLAN	Ensure HVAC systems are functioning. This will provide environment control for this facility while in cold standby.

C1.C.1.B.3 Software 243-G4

C1.C.1.B.3.A Alarm Procedure

COMPLETE THE ALARM PROCEDURE			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Clemans	PROJ	Status and archive the alarm response procedure.
2	Parazin	PROJ	Status and archive the review of the Alarm Response Procedure (GR-046-013).

C1.C.1.B.3.B Software Manual

REVISE THE SOFTWARE MANUAL			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Crystal	PROJ	Identify additional software modifications that should or must be made.
2	Crystal	PROJ	Status and issue the revised GTF Software Manual.

C1.C.1.C 243-G5: Standby Generator**C1.C.1.C.1 Decontaminate 243-G5**

DECONTAMINATE 243-G5 STANDBY GENERATOR			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Moxin	DRAIN_V	The diesel fuel tank needs to be drained completely but not rinsed. If the unit is transferred to another facility, this is sufficient. Leave the oil and coolant in the engine. Drain the water jacket.
2	NA	DECON_P	No action required.
3	McMath	DECON_T	Decontaminate and release any temporary surface contamination areas.
4	Gretsinger	DISPOSE_D	No action required.
5	NA	DISPOSE_C	Dispose of the uninterrupted power supply (UPS) batteries.
6	Clemans	DISPOSE_C	If the unit is not transferred to another facility, dispose/recycle Ethylene Glycol in the standby generator.
7	Gretsinger	DISPOSE_C	Remove or recycle diesel fuel for standby generator.
8	Clemans/ McMath	HAZID	Identify any remaining hazards and record as part of the deactivation file.
9	Mabry	RADSURV	Perform final radiological surveys of the facility. Map the areas and place into the shutdown record file.
10	NA	PITS	No action required.

C1.C.1.C.2 Deactivate Utilities

DEACTIVATE 243-G5 STANDBY GENERATOR			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Yoakum	ZERO E	See ZERO E checklist, Appendix D, D1.C.1.C.2
2	NA	ELECT	No circuits will remain energized.
3	NA	AIREXH	No action required.
4	NA	DEACT	No action required.
5	NA	FIRESUP	No action required.
6	NA	RADMON	No action required.
7	NA	CAMON	No action required.
8	NA	ALARM	No action required.
9	NA	WSUPPLY	No action required.

C1.C.1.C.3 Close 243-G5

CLOSE 243-G5 STANDBY GENERATOR			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	NA	EFFLUENT	No action required.
2	Nunamaker	JANSUP	Remove or transfer ownership of all janitor supplies.
3	Yoakum	SPAREP	Remove and excess all spare parts, tools and equipment.
4	Clemans	ROOF	See ROOF checklist, Appendix D, D1.C.1.C.3
5	Yoakum	SEAL	See SEAL checklist, Appendix D, D1.C.1.C.3
6	NA	CLOSE	No action required.
7	NA	RADPOST	No action required.
8	NA	ELIGHT	No action required.
9	Clemans	INVENTORY	Document an inventory of all remaining equipment.
10	McMath	HOUSEK	Perform thorough housekeeping throughout the facility. Provide the appropriate access control and security to prevent unauthorized removal of items.
11	NA	ENVMON	No action required.
12	McMath	LOCK	Ensure all doors at the facility are locked and keys to those facilities are controlled.
13	Cog Engr	S&MPLAN	No surveillance or monitoring required.

C1.C.1.D 243-G6: Electrical Equipment Module**C1.C.1.D.1 Deactivate Utilities**

DEACTIVATE 243-G6 ELECTRICAL EQUIPMENT MODULE			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Yoakum	ZERO E	See ZERO E checklist, Appendix D, D1.C.1.D.1
2	Yoakum	ELECT	See ELECT checklist, Appendix D, D1.C.1.D.1
3	NA	AIREXH	No action required.
4	NA	DEACT	No action required.
5	NA	FIRESUP	Since the electrical module is needed, then the fire suppression system in that facility must be kept on. No action required.
6	NA	RADMON	No action required.
7	NA	CAMON	No action required.
8	NA	ALARM	No action required.
9	NA	WSUPPLY	No action required.

C1.C.1.D.2 Close

CLOSE 243-G6 ELECTRICAL EQUIPMENT MODULE			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Cog Engr	EFFLUENT	No action required.
2	Nunamaker	JANSUP	Remove or transfer ownership of all janitor supplies.
3	Gotterbarm	SPAREP	Remove and excess all spare parts, tools and equipment.
4	Clemans	ROOF	See ROOF checklist, Appendix D, D1.C.1.D.2
5	Yoakum	SEAL	See SEAL checklist, Appendix D, D1.C.1.D.2
6	Cog Engr	CLOSE	No action required.
7	Cog Engr	RADPOST	No action required.
8	Cog Engr	ELIGHT	No action required.
9	Clemans	INVENTORY	Document an inventory of all remaining equipment.
10	McMath	HOUSEK	Perform thorough housekeeping throughout the facility. Provide the appropriate access control and security to prevent unauthorized removal of items.
11	Cog Engr	ENVMON	No action required.

CLOSE 243-G6 ELECTRICAL EQUIPMENT MODULE			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
12	McMath	LOCK	Ensure all doors at the facility are locked and keys to those facilities are controlled.
13	Cog Engr	S&MPLAN	Ensure HVAC systems are functioning. This will provide environment control for this facility while in cold standby.

C1.C.1.E 243-G8: Air Filtration Skid

C1.C.1.E.1 Decontaminate

Note: These activities must be performed after the LCT/Mixer module is decontaminated.

DECONTAMINATE 243-G8 AIR FILTRATION MODULE			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Clemans	DRAIN_V	Filtration Skid - As long as the filtration system is being used to evaporate liquids in the LCT/MM, the chilled water system must be kept operable. When that task is completed, the chilled water system should be drained completely and the ethylene glycol disposed of properly. Process memo and Remote System Application are in place for sampling. The condensate lines need to be blown out to prevent freeze-ups.
2	McMath	DECON_P	Decontaminate all permanent radiation zones and release or reduce surface contamination levels to prevent re-suspension and/or migration of loose contamination.
3	McMath	DECON_T	Decontaminate and release any temporary surface contamination areas.
4	Gretsinger	DISPOSE_D	Dispose of all radioactive low-level or mixed waste in accordance with appropriate procedures i.e., restricted approval requirements.
5	Gretsinger	DISPOSE_C	Dispose/recycle of ethylene glycol in the GPF ventilation chiller.
6	Clemans	HAZID	Identify any remaining hazards and record as part of the deactivation file.
7	Mabry	RADSURV	Perform final radiological surveys of the facility. Map the areas and place into the shutdown record file.
8	NA	PITS	No action required.

C1.C.1.E.2 Deactivate Utilities

DEACTIVATE 243-G8 AIR FILTRATION MODULE			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	NA	ZERO_E	All electrical circuits de-energized within this building are fed from the 243-G6 electrical equipment module. See the ZERO_E descriptions for the electrical equipment module for documentation of energy checks.
2	Yoakum	ELECT	The lighting in this area is from area lighting panel LP2 located in the motor pit and will remain energized. These circuits pass through the PTB-F terminal box on the filtration skid.
3	McMath	AIREXH	Shutdown the LCT/MM ventilation system and remove/dispose of the exhaust system HEPA filters.
4	NA	DEACT	No action required.
5	NA	FIRESUP	No action required.
6	NA	RADMON	No action required.
7	McMath	CAMON	As long as the filtration skid is used, the stack monitoring system must be kept on. Once this facility goes off line, the entire skid may be locked out, including stack monitoring.
8	Clemans	ALARM	Deactivate local alarms.
9	NA	WSUPPLY	No action required.

C1.C.1.E.3 Close

CLOSE 243-G8 AIR FILTRATION MODULE			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	NA	EFFLUENT	No action required.
2	Nunamaker	JANSUP	Remove or transfer ownership of all janitor supplies.
3	Gotterbarm	SPREP	Remove and excess all spare parts, tools and equipment.
4	NA	ROOF	No action required.
5	Yoakum	SEAL	See SEAL checklist, Appendix D, D1.C.1.E.3
6	Yoakum	CLOSE	The exhaust inlet and outlet ducts are to be plugged (see LCT/MM). Condensate lines should be capped after being blown out.
7	Cog Engr	RADPOST	Assure compliance with WHC-CM-1-6.
8	NA	ELIGHT	No action required.

CLOSE 243-G8 AIR FILTRATION MODULE			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
9	Clemans	INVENTORY	Document an inventory of all remaining equipment.
10	McMath	HOUSEK	Perform thorough housekeeping throughout the facility. Provide the appropriate access control and security to prevent unauthorized removal of items.
11	Cog Engr	ENVMON	See CAMON above.
12	McMath	LOCK	Ensure all doors at the facility are locked and keys to those facilities are controlled.
13	Cog Engr	S&MPLAN	No surveillance or monitoring required.

C1.C.1.F 243-G9: Substation

C1.C.1.F.1 Deactivate Utilities

DEACTIVATE 243-G9 SUBSTATION			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	NA	ZERO E	No action required.
2	NA	ELECT	Power will remain on four the following circuits: Ckt 2 - MO-293 feeder Ckt 3 - Vault panel D-PB-01 Ckt 4 - Motor control center feeder Ckt 5 - New office trailers
3	NA	AIREXH	No action required.
4	NA	DEACT	No action required.
5	NA	FIRESUP	No action required.
6	NA	RADMON	No action required.
7	NA	CAMON	No action required.
8	NA	ALARM	No action required.
9	NA	WSUPPLY	No action required.

C1.C.1.G 243-G81: Water Services Building

C1.C.1.G.1 Deactivate Utilities

DEACTIVATE 243-G81 WATER SERVICES BUILDING			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	NA	ZERO E	No action required.
2	NA	ELECT	No action required.
3	NA	AIREXH	No action required.
4	NA	DEACT	No action required.
5	NA	FIRESUP	No action required.
6	NA	RADMON	No action required.
7	NA	CAMON	No action required.
8	NA	ALARM	No action required.
9	Clemans	WSUPPLY	See WSUPPLY checklist, Appendix D, D1.C.1.G.1

C1.C.1.G.1 Close

CLOSE 243-G81 WATER SERVICES BUILDING			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	NA	EFFLUENT	No action required.
2	Nunamaker	JANSUP	Remove or transfer ownership of all janitor supplies at the DMF, GPF and support mobile offices.
3	Gotterbarm	SPAREP	Remove and excess all spare parts, tools and equipment.
4	Clemans	ROOF	See ROOF checklist, Appendix D, D1.C.1.G.1
5	NA	SEAL	No action required.
6	NA	CLOSE	No action required.
7	NA	RADPOST	No action required.
8	NA	ELIGHT	No action required.
9	Clemans	INVENTORY	Document an inventory of all remaining equipment.
10	McMath	HOUSEK	Perform thorough housekeeping throughout the facility. Provide the appropriate access control and security to prevent unauthorized removal of items.
11	NA	ENVMON	No action required.

CLOSE 243-G81 WATER SERVICES BUILDING			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
12	McMath	LOCK	Ensure all doors at the facility are locked and keys to those facilities are controlled.
13	Clemans	S&MPLAN	Develop and implement a freeze protection plan.

C1.C.1.H 243-G82: Water Services Cassion**C1.C.1.H.1 Deactivate Utilities**

DEACTIVATE 243-G82 WATER SERVICES CASSION			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	NA	ZERO E	No action required.
2	Yoakum	ELECT	Power to this caisson will remain energized for freeze protection.
3	NA	AIREXH	No action required.
4	NA	DEACT	No action required.
5	NA	FIRESUP	No action required.
6	NA	RADMON	No action required.
7	NA	CAMON	No action required.
8	NA	ALARM	No action required.
9	Clemans	WSUPPLY	See WSUPPLY checklist, Appendix D, D1.C.1.H.1

C1.C.1.H.2 Close

CLOSE 243-G82 WATER SERVICES CASSION			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	NA	EFFLUENT	No action required.
2	Nunamaker	JANSUP	Remove or transfer ownership of all janitor supplies at the DMF, GPF and support mobile offices.
3	Gotterbarm	SPAREP	Remove and excess all spare parts, tools and equipment.
4	Clemans	ROOF	No action required.
5	NA	SEAL	No action required.
6	NA	CLOSE	No action required.
7	NA	RADPOST	No action required.
8	NA	ELIGHT	No action required.

CLOSE 243-G82 WATER SERVICES CASSION			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
9	Clemans	INVENTORY	Document an inventory of all remaining equipment.
10	McMath	HOUSEK	Perform thorough housekeeping throughout the facility. Provide the appropriate access control and security to prevent unauthorized removal of items.
11	NA	ENVMON	No action required.
12	McMath	LOCK	Ensure all doors at the facility are locked and keys to those facilities are controlled.
13	Clemans	S&MPLAN	Develop and implement a freeze protection plan.

C1.C.1.I 243-G1: LCT/MM

C1.C.1.I.1 Decontaminate

DECONTAMINATE 243-G1 LCT/MM			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Clemans	DRAIN_V	<p>This facility is contaminated and currently accumulates rain water in the sump due to cover configuration. The Kelly Closure needs to be installed so that the interior is kept dry. We are currently evaporating liquid from the vaults as a part of the cold capping job. When that is completed, the portable building needs to be installed and the sump cleaned free from contamination and monitored quarterly for in-leakage. Design of the Kelly Closure will include protection of the gap between the LCT/MM and the motor pit. This is not now a part of the Kelly Closure as delivered.</p> <p>The LCT will have been drained to the sump as a part of the evaporation task and does not need to be rinsed since it is in a contaminated facility.</p> <p>The surge tank is empty but the interior is contaminated, as is all equipment that processed feed material during the PSW campaign. All lines and equipment must be left empty. Wet is acceptable, but no standing water.</p> <p>The Moyno pump may contain water in the inlet chamber. This can be determined by removing the inspection port in the surge tank. If this liquid cannot be removed by running the pump, then the side plate must be taken off and the liquid bailed out.</p>
2	McMath	DECON_P	Decontaminate the LCT/MM after completion of evaporating the contents of the LCT and sump.
3	McMath	DECON_T	Decontaminate and release any temporary surface contamination areas.
4	Gretsinger	DISPOSE_D	Dispose of all radioactive low-level or mixed waste in accordance with appropriate procedures i.e., restricted approval requirements.
5	Gretsinger	DISPOSE_C	Dispose or disposition of all hazardous materials.

DECONTAMINATE 243-G1 LCT/MM			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
6	Mabry	RADSURV	The LCT/MM itself is a pit and should be surveyed thoroughly.
7	Clemans	HAZID	Identify any remaining hazards and record as part of the deactivation file.
8	Mabry	RADSURV	Perform final radiological surveys of the facility. Map the areas and place into the shutdown record file.
9	NA	PITS	No action required.

C1.C.1.I.2 Deactivate Utilities

DEACTIVATE 243-G1 LCT/MM			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Yoakum	ZERO_E	All electrical circuits de-energized within this building are fed from the electrical equipment module. See the ZERO E descriptions for the electrical equipment module for documentation of these energy checks.
2	Yoakum	ELECT	The lighting circuits fed from PP1 circuits 10, 14, and 16 located in the electrical equipment module will remain energized. These circuits all pass through the PTB-MP terminal box in the motor pit, and circuits 14 & 16 pass through the PTB-MOD terminal box in the LCT/MM pit.
3	Clemans	AIREXH	See AIREXH checklist, Appendix D, D1.C.1.I.2
4	NA	DEACT	No action required.
5	NA	FIRESUP	No action required.
6	NA	RADMON	No action required.
7	NA	CAMON	No action required.
8	NA	ALARM	No action required.
9	NA	WSUPPLY	<p><u>Sanitary water</u> will be secured at N-197-S and verified under 243-G3.</p> <p><u>Raw water</u> will be secured and verified under 243-G82.</p>

C1.C.1.I.3 Close

CLOSE 243-G1 LCT/MM			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Clemans	EFFLUENT	Plug lines leading from the facility.
2	Nunamaker	JANSUP	Remove or transfer ownership of all janitor supplies at the DMF, GPF and support mobile offices.
3	Gotterbarm	SPAREP	Remove and excess all spare parts, tools and equipment.
4	Clemans	ROOF	Pipe Chase - This is the pipe gallery that connects the LCT/MM with the motor pit. It has cover blocks but no weather protection to keep rain water out. It is planned to cover this with a rubber mat, covered up to the LCT/MM foundation to prevent in-leakage.
5	Yoakum	SEAL	See SEAL checklist, Appendix D, D1.C.1.I.3
6	Yoakum	CLOSE	Condensate lines should be capped after being blown out. See CLOSE checklist, Appendix D, D1.C.1.I.3
7	Clemans	RADPOST S&MPLAN	The pipe chase can be considered a pit, although the cover blocks make it virtually inaccessible. It will be sealed with a rubber mat to prevent influx of water, and on this mat should be placed labels indicating possible contamination. Should water somehow get into the sump via the pipe chase in spite of efforts to seal it off, then the liquid will be sampled and disposed of according to procedures developed.
8	Mabry	RADPOST	Labels on the LCT/MM cover should indicate survey readings.
9	Mabry	INVENTORY	Document an inventory of all remaining equipment.
10	McMath	HOUSEK	Perform thorough housekeeping throughout the facility. Provide the appropriate access control and security to prevent unauthorized removal of items.
11	Weber	ROOF GP_COVER	Place the metal cover over the LCT/MM to prevent water intrusions into the motor pit sump.
12	Mabry	RADPOST	Once the Kelly Closure is in place, labels should be placed at the entrances indicating that there is contamination in the pit.
13	McMath	LOCK	Ensure all doors at the facility are locked and keys to those facilities are controlled.

CLOSE 243-G1 LCT/MM			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
14	McMath	S&MPLAN	The cover blocks should not be put in place so that lighting and visual surveillance can be maintained.

C1.C.1.J 243-G1A: Motor Pump Pit

C1.C.1.J.1 Decontaminate

DECONTAMINATE 243-G1A MOTOR PUMP PIT			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	McMath	DRAIN_V	Drain motor pit sump. See DRAIN_V checklist, Appendix D, D1.C.1.J.1
2	McMath	DECON_P	Decontaminate all permanent radiation zones and release or reduce surface contamination levels to prevent re-suspension and/or migration of loose contamination.
3	McMath	DECON_T	Decontaminate and release any temporary surface contamination areas.
4	Gretsinger	DISPOSE_D	Dispose of all radiative low-level or mixed waste in accordance with appropriate procedures i.e., restricted approval requirements.
5	Gretsinger	DISPOSE_C	Dispose or disposition all hazardous materials.
6	Gretsinger	HAZID	Ensure lead shielding in the motor pit is quantified, identified, and recorded in the shutdown file.
7	Mabry	RADSURV	The motor pit sump is quite likely contaminated. After this is placed in shutdown condition, it will be probed and the reading recorded.
8	Mabry	RADSURV	Perform final radiological surveys of the facility. Map the areas and place into the shutdown record file.
9	Mabry	PITS	None of the effluent streams going to the French drain have ever been contaminated. Therefore, an affidavit from Operations management should suffice as evidence of that facility's radiological condition. If such is not the case, then a probe may be lowered as far as possible into the drain and readings taken and recorded.

C1.C.1.J.2 Deactivate Utilities

DEACTIVATE 243-G1A MOTOR PUMP PIT			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Yoakum	ZERO_E	All electrical circuits de-energized within this building are fed from the 243-G6 electrical equipment module. See the ZERO_E descriptions for the electrical equipment module for documentation of energy checks.
2	Yoakum	ELECT	The lighting circuits fed from PP1 circuits 2 and 4 located in the electrical equipment module will remain energized. These circuits pass through the PTB-MP terminal box in the motor pit.
3	Clemans	AIREXH	Install pipe plug on duct.
4	NA	DEACT	No action required.
5	NA	FIRESUP	No action required.
6	NA	RADMON	No action required.
7	NA	CAMON	No action required.
8	NA	ALARM	No action required.

C1.C.1.J.3 Close

CLOSE 243-G1A MOTOR PUMP PIT			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	NA	EFFLUENT	No action required.
2	Nunamaker	JANSUP	Remove or transfer ownership of all janitor supplies at the facility.
3	Gotterbarm	SPAREP	Remove and excess all spare parts, tools and equipment.
4	Clemans	ROOF	See ROOF checklist, Appendix D, D1.C.1.J.3
5	Yoakum	SEAL	Seal all penetrations on the GPF pipe trench to prevent water intrusions. See SEAL checklist, Appendix D, D1.C.1.J.3
6	NA	CLOSE	No action required.
7	Mabry	RADPOST	If contamination is shown to exist, then the motor pit sump should be tagged with radiation stickers and the radiation level listed.
8	NA	ELIGHT	No action required.
9	Clemans	INVENTORY	Document an inventory of all remaining equipment.

CLOSE 243-G1A MOTOR PUMP PIT			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
10	McMath	HOUSEK	Perform thorough housekeeping throughout the facility. Provide the appropriate access control and security to prevent unauthorized removal of items.
11	NA	ENVMON	No action required.
12	Clemans	SEAL	Motor Pit Sump - This pit has a vent into the Isolok Sampler, but this has been blocked. Need to check to make sure the blockage is permanent. The only other passages lead to the LCT/MM and to the pipe chase and the concrete confinement system, and will be considered to be confined when the module cover, pipe chase cover, and the Kelly Closure are in place.
13	McMath	LOCK	Ensure all doors at the facility are locked and keys to those facilities are controlled.
14	Popella	PROJ	Complete the glovebox in motor pump pit engineering study and document both status of project and future plans.
15	Yoakum	S&MPLAN	Ensure HVAC systems are functioning. This will provide environment control for this facility while in cold standby.

C1.C.1.K 243-G2 Dry Blend Module

C1.C.1.K.1 Deactivate Utilities

DEACTIVATE 243-G2 DRY BLEND MODULE			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Yoakum	ZERO_E	All electrical circuits de-energized within this building are fed from the 243-G6 electrical equipment module. See the Zero_E descriptions for the electrical equipment module for documentation of energy checks.
2	Yoakum	ELECT	The lighting circuits fed from PP1 circuits 1, 3, and 5 located in the electrical equipment module will remain energized. These circuits pass through the lighting panel LP2 terminal box in the motor pit.
3	NA	AIREXH	No action required.
4	NA	DEACT	No action required.
5	NA	FIRESUP	No action required.
6	NA	RADMON	No action required.

DEACTIVATE 243-G2 DRY BLEND MODULE			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
7	NA	CAMON	No action required.
8	NA	ALARM	No action required.
9	NA	WSUPPLY	No action required.

C1.C.1.K.2 Decontaminate

DECONTAMINATE 243-G2 DRY BLEND MODULE			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Clemans	DRAIN_V	The day bin is empty and only trace amounts of dry feed remain. It is not necessary to clean this free from all traces for long-term storage or shutdown.
2	Clemans	AIREXH	The day bin vent dryer should be emptied of desiccant and the desiccant disposed of properly. The interior should be vacuumed.
3	McMath	DECON_P	Decontaminate the baghouse area.
4	McMath	DECON_T	Decontaminate and release any temporary surface contamination areas.
5	Gretsinger	DISPOSE_D	Dispose of all radioactive low-level or mixed waste in accordance with appropriate procedures i.e., restricted approval requirements.
6	Gretsinger	DISPOSE_C	Dispose of all dry material in the GPF day bin.
7	Gretsinger	DISPOSE_C	Disposal of all dry material in the tramp material drum.
8	Clemans	HAZID	Identify any remaining hazards and record as part of the deactivation file
9	Mabry	RADSURV	Perform final radiological surveys of the facility. Map the areas and place into the shutdown record file.
10	NA	PITS	No action required.

C1.C.1.K.3 Close

CLOSE 243-G2 DRY BLEND MODULE			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	NA	EFFLUENT	No action required.
2	Nunamaker	JANSUP	Remove or transfer ownership of all janitor supplies at the DMF, GPF and support mobile offices.
3	Yoakum	STRUCT	Complete suspect materials identification to ensure facility integrity.
4	Gotterbarm	SPAREP	Remove and excess all spare parts, tools and equipment.
5	NA	ROOF	No action required.
6	Yoakum	SEAL	See SEAL checklist, Appendix D, D1.C.1.K.3
7	Clemans	CLOSE	Condensate lines should be capped after being blown out.
8	Mabry	RADPOST	Assure compliance with WHC-CM-1-6
9	NA	ELIGHT	No action required.
10	Clemans	INVENTORY	Document an inventory of all remaining equipment.
11	McMath	HOUSEK	Perform thorough housekeeping throughout the facility. Provide the appropriate access control and security to prevent unauthorized removal of items.
12	NA	ENVMON	No action required.
13	McMath	LOCK	Ensure all doors at the facility are locked and keys to those facilities are controlled.
14	Yoakum	STRUCT	Complete GPF tower painting to ensure no degradation of equipment/structure.

C1.C.2 Permits and Compliance**C1.C.2.A Gather, Inventory and Store Documents**

DEACTIVATE WORK ON THE FSAR			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Shapley	FSAR	Gather and inventory all documents pertinent to the GTF FSAR. Assume that the storage location for these documents is in fire-safe cabinets near the GPF. Transfer documents to storage location.
2	Claghorn	FSAR	Status FSAR changes intended to resolve the hydrogen issue. Gather and inventory documents pertinent to the changes to include Review Comment Records. Transfer documents to storage location.

C1.C.2.B Safety Assessment

SAFETY ASSESSMENT			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Shapley	FSAR	Provide safety assessment for shutdown status of the GTF in accordance with MRP 6.15. Append assessment to current Hazards Identification and Evaluation Report.

C1.C.2.C Issue WHC-Approved FSAR

DEACTIVATE WORK ON THE FSAR			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Shapley	FSAR	<p>Issue Rev 0A of the GTF FSAR as an impact level 4 document. Preface document with a status the GTF FSAR to identify:</p> <ul style="list-style-type: none"> • Open issues such as hydrogen and safety classification of systems • unresolved comments such as Brookhaven National Laboratory and Stone & Webster Engineers • Known errors

C1.C.2.D Permits and Compliance

DEACTIVATE WORK ON THE FSAR			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Claghorn	QA	Modify the existing QA program to define the QA requirements that are in place during shutdown/standby conditions.
2	Gretsinger	PERMITS	Environmental and/or other applicable permits associated with the facility must be reviewed to determine the status and applicability for maintaining them.

C1.C.3 Technology Closeout**C1.C.3.A Lysimeter Removal**

LYSIMETER REMOVAL			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Shade	PROJ	Remove and dispose the research lysimeter at PNL.

C1.C.3.B Complete NDT and Characterization

COMPLETE NDT AND CHARACTERIZATION			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Kruger	PROJ	Complete acquisition of nondestructive testing equipment.
2	Nguyen	CHAR	Complete characterization activities for AP-102, AP-105, and AP-106.

C1.C.3.C Cold Cap Demolition

COLD CAP DEMOLITION			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Bledsoe	PROJ	Cold cap demolition.

C1.C.4 Performance Assessment (PA) Close Out

DEACTIVATE WORK ON THE PA			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Shade	PROJ	Obtain DOE-HQ approval of the PA.

C1.C.5 Projects

DEACTIVATE MISCELLANEOUS PROJECTS			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Bolinger	PROJ	Incorporate design changes for the long-term leachate system to accommodate frequent changeout of the catalytic combiner.
2	Bolinger	PROJ	Gather and inventory all documents pertinent to the long-term leachate handling system. Transfer documents to designated storage location.
3	Wells	PROJ	Complete procurement activities for the short-term and excess liquid pumps. Disposition pumps when they arrive.
4	Wells	PROJ	Terminate KEH fabrication and assembly activities for the short term leachate and excess liquid pump assemblies. Inventory existing assembly documents and package for storage. Disposition materials.
5	Stringer	PROJ	Finish, in draft form, the ECN to replace the existing UPS and panelboard CP-1. Gather and inventory all documents pertinent to the ECN. Transfer documents to the designated storage location.
6	Stringer	PROJ	Develop and issue a plan, as impact level 4, to finish the electrical evaluation of the GPF. Gather and inventory all EXISTING documents pertinent to the project. Transfer documents to the designated storage location.
7	Parazin	PROJ	Obtain/evaluate/incorporate comments on the component analysis section of the DOE 6430.1A Compliance Analysis Report. Issue the ECN for release.
8	Hunda1	PROJ	W-257, GPF Water System Upgrades - Review of design documents CVI and drawings have been completed and incorporation of comments is in progress. Continue supporting this project until completion. Projects (M. E. McKinney) is coordinating with KEH. Construction of this project is scheduled to be completed in May 1995.
9	Jimenez	PROJ	Release WHC-SD-WM-ES-247, "Design and Operation of the Grout Vault EW Removal System."
10	Jimenez	PROJ	Release WHC-SD-WM-ES-196, "Chemical Addition to Grout Waste Feed."
11	Jimenez	PROJ	New sidewalks serving trailers - Make sure work is properly completed.

C1.C.6 GDF

C1.C.6.A Vault 101

C1.C.6.A.1 Decontamination

DECONTAMINATE VAULT 101			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	NA	DRAIN V	No action required.
2	McMath	DECON_P	Decontaminate all permanent radiation zones and release or reduce surface contamination levels to prevent re-suspension and/or migration of loose contamination.
3	McMath	DECON_T	Decontaminate and release any temporary surface contamination areas.
4	Gretsinger	DISPOSE_D	Dispose of all radioactive low-level or mixed waste in accordance with appropriate procedures i.e., restricted approval requirements.
5	Gretsinger	DISPOSE_C	Dispose or disposition all hazardous materials.
6	Kison	HAZID	Identify any remaining hazards and record as part of the deactivation file.
7	Mabry	RADSURV	Perform final radiological surveys of the facility. Map the areas and place into the shutdown record file.
8	NA	PITS	No action required.

C1.C.6.A.2 Deactivate

DEACTIVATE VAULT 101			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	NA	ELECT	No action required.
2	NA	AIREXH	No action required.
3	Kison	DEACT	Vault 101 was the only activated vault and it has been closed. The only remaining isolation that needs to take place is the removal of wooden platform that contains the following equipment: 1) two Motor Control Centers (MCC) for the leachate pumps; 2) relay box for detectors; 3) two leachate level instruments; 4) thermocouple junction box. All power to these need to be disconnected from panel board DPB-01. All wires from the boxes to the field have been disconnected.

DEACTIVATE VAULT 101			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
4	NA	PITS	A radiological status only applies to vault 101 six pits in which all closure activities have been documented both by the JCS system, drawing system and filmed. Its status is closed per the closure drawings.
5	NA	RADMON	No action required.
6	NA	CAMON	No action required.
7	Kison	ALARM	No processing will be taking place at the vaults. We are currently supposed to be operating under the old alarm procedure because the new alarm system is not ready to be used. The problems with this is that the current alarm procedure does not reflect what the new project does and therefore it would be false to assume that we have a legal procedure. So technically nothing is supposed to be run off the computer unless a procedure change authorization is done to show what the alarms need to be enabled and what responses are valid. No action required.
8	NA	WSUPPLY	No action required.

C1.C.6.A.3 Close

CLOSE VAULT 101			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	NA	EFFLUENT	Read "disposal sites" to include vaults. The only line going to the vaults will be capped at the vault as a part of the cold capping. The line at the LCT/MM should be blocked. This can best be accomplished by locking valve FV-W31 on the grout discharge jumper in the AC position. Blanking is not necessary since there would be no source for this line.
2	Kison	EFFLUENT	Vault 101 is fully capped off with the exception that the grout feed line and excess water transfer line still need to be cut at the vault pit and grouted in. The vault pit to which these two lines terminate at is filled with grout. Before it was filled, the pipes were cut at the wall entrance and plugged.
3	NA	JANSUP	No action required.

CLOSE VAULT 101			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
4	Gotterbarm	SPAREP	Remove and excess all spare parts, tools and equipment.
5	NA	ROOF	No action required.
6	NA	SEAL	No action required.
7	NA	CLOSE	No action required.
8	Cog Engr	RADPOST	Assure compliance with WHC-CM-1-6.
9	NA	ELIGHT	No action required.
10	Kison	INVENTORY	Document an inventory of all remaining equipment.
11	McMath	HOUSEK	Perform thorough housekeeping throughout the facility. Provide the appropriate access control and security to prevent unauthorized removal of items.
12	NA	ENVMON	No action required.
13	McMath	LOCK	Ensure all doors at the facility are locked and keys to those facilities are controlled.
14	Kison	S&MPLAN	No surveillance or monitoring required.

C1.C.6.B Vaults 102-105

C1.C.6.B.1 Deactivate Utilities

DEACTIVATE VAULTS 102 THROUGH 105			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Yoakum	ZERO E	See ZERO E checklist, Appendix D, D1.C.6.B.1
2	Yoakum	ELECT	No circuits will be energized at the vault facility.
3	Yoakum	AIREXH	Deactivate the ventilation system.
4	Yoakum	DEACT	Vaults 102-105 Need the power terminated at the transformers. Wires coiled up, removed from being disconnected (if external) and protected against the elements. This includes all instrument cables such as motor-operated valve (MOV) lines, sonic probe.
5	Yoakum	DEACT	Disconnect thermocouple wires from terminal boxes 102, 102a, 102b, 103, 103a, 103b and place wires in storage. Tape box connector ends cause there is no caps. Best to use caps.
6	Yoakum	DEACT	Also disconnect the power from the outlet.

DEACTIVATE VAULTS 102 THROUGH 105			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
7	NA	FIRESUP	No action required.
8	Rad Prot	RADMON	Remove two ARMs on vaults 102 and 103.
9	Rad Prot	CAMON	Remove a continuous air monitor on vault 102.
10	NA	ALARM	No action required.
11	NA	WSUPPLY	No action required.

C1.C.6.B.2 Close

CLOSE VAULTS 102 THROUGH 105			
ITEM	ASSIGNEE	Criteria	DESCRIPTION
1	NA	EFFLUENT	No action required.
2	Nunamaker	JANSUP	Remove or transfer ownership of all janitor supplies at the support mobile buildings.
3	Yoakum	CLOSE	Vaults 102-105: Cover all risers with plugs or riser caps and pits with coverblocks.
4	Johnson	ROOF	Place blind flanges on manholes and grease threads for future removal of the flanges.
5	Yoakum	SEAL	Vaults 104-105 are fully closed and require no action except that all risers should be fully tightened and the closed-circuit television risers need sealed using bolts. C6381P, C6381P can be removed.
6	Yoakum	INVENTORY	For vault 102 and 103, ensure everything is properly tagged before removing.
7	NA	LOCK	PIHs 1-3 have no wires hooked to them so no action is required except ensure that the doors are locked. According to the vendor, we can store the Genius blocks (in the PIH) between 60°C and -40°C so we should not have to run the HVAC.
8	Kison/ Yoakum	SPAREP	Remove two jumpers from the central vault pits on vaults 102 and 103 and place in temporary storage.
9	Yoakum	SEAL	Blank off pipes in all the pits on all the vaults. Cork/rubber stoppers. Put coverblocks in place to provide more security.
10	Yoakum	SPAREP	Remove the sonic probes from vaults 102 and 103 risers 37-40.

CLOSE VAULTS 102 THROUGH 105			
ITEM	ASSIGNEE	Criteria	DESCRIPTION
11	Yoakum	SPAREP	Pit leak detectors need pick up and stored, and they are next to or laying in all the pits at vault 102 and 103.
12	Yoakum	SEAL	Cover and seal vault pits C on 102 and 103 and risers with their appropriate covers.
13	Yoakum	SPAREP	Remove two jumpers (MOV-08) located on vaults 102 and 103 and place in storage.
14	Yoakum	SPAREP	Remove all wires attached to the exhauster including the inlets and the outlet on vault 102 and 103 and place in storage with the equipment.
15	McMath	SPAREP	Remove five portable lights on vaults 102-104.
16	McMath	SPAREP	Excess eight wire chases at vault 102.
17	NA	SPAREP	There are other pieces of equipment being stored on vault 102 and 103 that can be thrown out when fully abandoning the vault, like the camera riser poles, pit drain plug assemblies. No action required.
18	Cog Engr	SPAREP	Remove/excess transformers at vaults 102, 103, 104, (C6380P, C6381P, C6382P) if needed elsewhere.
19	Mabry	RADPOST	Assure compliance with WHC-CM-1-6.
20	NA	ELIGHT	No action required.
21	Kison	INVENTORY	Document an inventory of all remaining equipment.
22	McMath	HOUSEK	Perform thorough housekeeping throughout the facility. Provide the appropriate access control and security to prevent unauthorized removal of items.
23	NA	ENVMON	No action required.
24	McMath	LOCK	Ensure all gates to the facility are locked and keys to those facilities are controlled.
25	Yoakum	S&MPLAN	Develop a maintenance plan for the prevention of pipe corrosion (cathodic protection).

C1.C.7 DMF**C1.C.7.A 2400-E Control Room****C1.C.7.A.1 Deactivate Utilities**

DEACTIVATE 2400-E CONTROL ROOM			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Yoakum	ZERO E	See ZERO E checklist, Appendix D, D1.C.7.A.1
2	NA	ELECT	No action required.
3	NA	AIREXH	No action required.
4	Doeler	DEACT	Almost all systems at the DMF can be inactivated, but consideration should be given to maintaining power to the computer, and power to the fire alarm system. A decision is needed concerning the HPT people occupying the lunchroom. Although these people are not part of Grout and will remain in existence their electrical power and their sanitary water come from the DMF. Either they move or they assume responsibility for the power supply and the sanitary water piping. They would vigorously object to a sudden loss of services. They would probably also want to maintain the area lighting which is supplied by the power panels in the control room.
5	Doeler	FIRESUP	Inactivate the control room sprinkler system. This would remove the requirements on the sanitary water system associated with fire protection. If the control room is to be generally unoccupied, it may not be needed.
6	NA	RADMON	No action required.
7	NA	CAMON	No action required.
8	Doeler	ALARM	Deactivate all alarms except the fire alarm.
9	Doeler	WSUPPLY	See WSUPPLY checklist, Appendix D, D1.C.7.A.1

C1.C.7.A.2 Close

CLOSE 2400-E CONTROL ROOM			
Item	Assignee	Criteria	Description
1	NA	EFFLUENT	No action required.
2	Nunamaker	JANSUP	Remove or transfer ownership of all janitor supplies at the facility.
3	Gotterbarm	SPAREP	Remove and excess all spare parts, tools and equipment.

CLOSE 2400-E CONTROL ROOM			
Item	Assignee	Criteria	Description
4	Doeler	ROOF	See ROOF checklist, Appendix D, D1.C.7.A.2
5	Cog Engr	SEAL	See SEAL checklist, Appendix D, D1.C.7.A.2
6	NA Eng.	CLOSE	No action required.
7	NA	RADPOST	No action required.
8	NA	ELIGHT	No action required.
9	Doeler	INVENTORY	Document an inventory of all remaining equipment.
10	McMath	HOUSEK	Perform thorough housekeeping throughout the facility. Provide the appropriate access control and security to prevent unauthorized removal of items.
11	NA	ENVMON	No action required.
12	McMath	LOCK	Ensure all doors at the facility are locked and keys to those facilities are controlled.
13	Yoakum	S&MPLAN	Ensure HVAC systems are functioning. This will provide environment control for this facility while in cold standby.

C1.C.7.B 2451-E Substation

C1.C.7.B.1 Deactivate Utilities

DEACTIVATE 2451-E SUBSTATION			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Yoakum	ZERO E	See ZERO E checklist, Appendix D, D1.C.7.B.1
2	Yoakum	ELECT	The lunch room feeder breaker for the HPT trailer will remain energized. The MCC will remain energized through the F8X601 main breaker.
3	NA	AIREXH	No action required.
4	NA	DEACT	No action required.
5	NA	FIRESUP	No action required.
6	NA	RADMON	No action required.
7	NA	CAMON	No action required.
8	NA	ALARM	No action required.
9	NA	WSUPPLY	No action required.

C1.C.7.B.2 Close

CLOSE 2451-E SUBSTATION			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	NA	EFFLUENT	No action required.
2	Nunamaker	JANSUP	Remove or transfer ownership of all janitor supplies at the facility.
3	Gotterbarm	SPAREP	Remove and excess all spare parts, tools and equipment.
4	NA	ROOF	No action required.
5	NA	SEAL	No action required.
6	NA	CLOSE	No action required.
7	NA	RADPOST	No action required.
8	NA	ELIGHT	No action required.
9	Doeler	INVENTORY	Document an inventory of all remaining equipment.
10	McMath	HOUSEK	Perform thorough housekeeping throughout the facility. Provide the appropriate access control and security to prevent unauthorized removal of items.
11	NA	ENVMON	No action required.
12	McMath	LOCK	Ensure all doors at the facility are locked and keys to those facilities are controlled.

C1.C.7.C 2403-EA AC2/AC3 Compressor Building

C1.C.7.C.1 Deactivate Utilities

DEACTIVATE 2403-EA AC2/AC3 COMPRESSOR BUILDING			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Yoakum	ZERO_E	All electrical circuits de-energized within this building are fed from the 2400-E Control Room. See the ZERO_E descriptions for the Control Room for documentation of energy checks.
2	Yoakum	ELECT	The lighting circuits fed from circuits xxxxx in the Control Room Panel Px will remain energized.
3	NA	AIREXH	No action required.

DEACTIVATE 2403-EA AC2/AC3 COMPRESSOR BUILDING			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
4	NA	DEACT	No process equipment is operational. Fuses and heaters were removed from the MCC buckets, therefore no lock & tag required. Drain all air-compressor receiver tanks of condensate. Drain all air dryer systems (including in-line filters/dryers) of condensate.
5	NA	FIRESUP	No action required.
6	NA	RADMON	No action required.
7	NA	CAMON	No action required.
8	NA	ALARM	No action required.
9	Doeler	WSUPPLY	No action required.

C1.C.7.C.2 Close

Close 2403-EA AC2/AC3 Compressor Building			
Item	Assignee	Criteria	Description
1	NA	EFFLUENT	No action required.
2	Nunamaker	JANSUP	Remove or transfer ownership of all janitor supplies at the facility.
3	Gotterbarm	SPAREP	Remove and excess all spare parts, tools and equipment.
4	Doeler	ROOF	See ROOF checklist, Appendix D, D1.C.7.C.2
5	Doeler	SEAL	See SEAL checklist, Appendix D, D1.C.7.C.2
6	NA Eng.	CLOSE	No action required.
7	NA	RADPOST	No action required.
8	NA	ELIGHT	No action required.
9	Doeler	INVENTORY	Document an inventory of all remaining equipment.
10	McMath	HOUSEK	Perform thorough housekeeping throughout the facility. Provide the appropriate access control and security to prevent unauthorized removal of items.
11	NA	ENVMON	No action required.
12	McMath	LOCK	Ensure all doors at the facility are locked and keys to those facilities are controlled.

C1.C.7.D 2404-E AC1 Compressor Building**C1.C.7.D.1 Deactivate Utilities**

DEACTIVATE 2404-E AC1 COMPRESSOR BUILDING			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Yoakum	ZERO_E	All electrical circuits de-energized within this building are fed from the 2400-E Control Room. See the ZERO_E descriptions for the Control Room for documentation of energy checks.
2	Yoakum	ELECT	The lighting circuit fed from breaker 8 in the Control Room Panel P4 will remain energized.
3	NA	AIREXH	Air compressor is to be de-energized.
4	Yoakum	DEACT	Lock out and tag all process related moving equipment. Drain all air-compressor receiver tanks of condensate. Drain all air dryer systems (including in-line filters/dryers) of condensate.
5	NA	FIRESUP	No action required.
6	NA	RADMON	No action required.
7	NA	CAMON	No action required.
8	NA	ALARM	No action required.
9	NA	WSUPPLY	No action required.

C1.C.7.D.2 Close

CLOSE 2404-E AC1 COMPRESSOR BUILDING			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	NA	EFFLUENT	No action required.
2	McMath	JANSUP	Remove or transfer ownership of all janitor supplies at the facility.
3	Gotterbarm	SPAREP	Remove and excess all spare parts, tools and equipment.
4	Doeler	ROOF	See ROOF checklist, Appendix D, D1.C.7.D.2
5	Doeler	SEAL	See SEAL checklist, Appendix D, D1.C.7.D.2
6	NA	CLOSE	No action required.
7	NA	RADPOST	No action required.
8	NA	ELIGHT	No action required.

CLOSE 2404-E AC1 COMPRESSOR BUILDING			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
9	Doeler	INVENTORY	Document an inventory of all remaining equipment.
10	McMath	HOUSEK	Perform thorough housekeeping throughout the facility. Provide the appropriate access control and security to prevent unauthorized removal of items.
11	NA	ENVMON	No action required.
13	McMath	LOCK	Ensure all doors at the facility are locked and keys to those facilities are controlled
14	Yoakum	S&MPLAN	Ensure HVAC systems are functioning. This will provide environment control for this facility while in cold standby.

C1.C.7.E Dry Material Storage Bins

C1.C.7.E.1 Decontaminate

DECONTAMINATE THE DRY MATERIAL STORAGE BINS			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Yoakum	DRAIN_V	The storage bins should be inspected for the presence of excess dry material. There is probably material in the cone area of at least bin 1 and bin 4. Since the bin access hatches are at the top of the bins a good inspection using the hatch is a problem. Access for looking can be attained by lowering a light into the bin from the top or using the air slide inspection port and opening the knife gate and slide gate valves. Undoubtedly some material will have to be cleared way but it may be possible to slide a light and a mirror far enough to get a look at the bottom of the bin. The only other alternative would be to remove the manual slide gate valve. This would be necessary to gain access to the bin in order to clean up any material which has hardened inside the cone.

DECONTAMINATE THE DRY MATERIAL STORAGE BINS			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
2	McMath	DM EMPTY	Inspect the fly ash storage bin for materials and transfer to the blend storage bin if required.
3	McMath	DM EMPTY	Inspect the cement bin for materials and transfer to the blend storage bin if required.
4	McMath	DM EMPTY	Inspect the attapulgate storage bin for materials and transfer to the blend storage bin if required.
5	McMath	DM EMPTY	Inspect the pottery clay storage bin for materials and transfer to the blend storage bin if required.
6	McMath	DM EMPTY	Inspect the blend storage bin and transfer all materials into a transport trailer.
7	NA	DECON P	No action required.
8	NA	DECON T	No action required.
9	NA	DISPOSE D	No action required.
10	Gretsinger	DISPOSE_C	Dispose of the attapulgate clay and Portland cement. In addition, dispose of the oil in the compressors. Remove the desiccant from the air dryers when inactivating the air system.
11	Doeler	HAZID	Identify any remaining hazards and record as part of the deactivation file.
12	NA	RADSURV	No action required.
13	NA	PITS	No action required.

C1.C.7.E.2 Deactivate Utilities

DEACTIVATE THE DRY MATERIAL STORAGE BINS			
Item	Assignee	Criteria	Description
1	Yoakum	ZERO_E	All electrical circuits de-energized within this building are fed from the 2400-E Control Room. See the ZERO_E descriptions for the Control Room for documentation of energy checks.
2	Yoakum	ELECT	The lighting circuits fed from breakers 1, 2, 3, 4, and 6 in the Control Room Panel P4 will remain energized.
3	NA	AIREXH	No action required.

DEACTIVATE THE DRY MATERIAL STORAGE BINS			
Item	Assignee	Criteria	Description
4	NA	DEACT	No action required.
5	NA	FIRESUP	No action required.
6	NA	RADMON	No action required.
7	NA	CAMON	No action required.
8	NA	ALARM	No action required.
9	NA	WSUPPLY	No action required.

C1.C.7.E.3 Close

CLOSE THE DRY MATERIAL STORAGE BINS			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	NA	EFFLUENT	No action required.
2	Nunamaker	JANSUP	Remove or transfer ownership of all janitor supplies at the facility.
3	Gotterbarm	SPAREP	Remove and excess all spare parts, tools and equipment.
4	Doeler	ROOF	See ROOF checklist, Appendix D, D1.C.7.E.3
5	Doeler	SEAL	Seal around the area where the air slides penetrate the walls of the silos/bins. See SEAL checklist, Appendix D, D1.C.7.E.3
6	NA	CLOSE	No action required.
7	NA	RADPOST	No action required.
8	NA	ELIGHT	No action required.
9	Doeler	INVENTORY	Document an inventory of all remaining equipment.
10	Doeler	HOUSEK	Perform thorough housekeeping throughout the facility. Provide the appropriate access control and security to prevent unauthorized removal of items.
11	NA	ENVMON	No action required.
12	McMath	LOCK	Ensure all doors at the facility are locked and keys to those facilities are controlled.

C1.C.7.F 2402-EA Railcar Unloading Pit

C1.C.7.F.1 Deactivate Utilities

DEACTIVATE 2402-EA RAILCAR UNLOADING PIT			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Yoakum	ZERO_E	All electrical circuits de-energized within this building are fed from the 2400-E Control Room. See the ZERO_E descriptions for the Control Room for documentation of energy checks.
2	Yoakum	ELECT	The lighting circuits fed from breaker 10 in the Control Room Panel P4 will remain energized.
3	NA	AIREXH	No action required.
4	NA	DEACT	No action required.
5	NA	FIRESUP	No action required.
6	NA	RADMON	No action required.
7	NA	CAMON	No action required.
8	NA	ALARM	No action required.
9	Doeler	WSUPPLY	No action required.

C1.C.7.F.2 Close

CLOSE 2402-EA RAILCAR UNLOADING PIT			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	NA	EFFLUENT	No action required.
2	Nunamaker	JANSUP	Remove or transfer ownership of all janitor supplies at the facility.
3	Gotterbarm	SPAREP	Remove and excess all spare parts, tools and equipment.
4	Doeler	ROOF	See ROOF checklist, Appendix D, D1.C.7.F.2
5	Doeler	SEAL	See SEAL checklist, Appendix D, D1.C.7.F.2
6	NA	CLOSE	No action required.
7	NA	RADPOST	No action required.
8	NA	ELIGHT	No action required.
9	Doeler	INVENTORY	Document an inventory of all remaining equipment.

CLOSE 2402-EA RAILCAR UNLOADING PIT			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
10	McMath	HOUSEK	Perform thorough housekeeping throughout the facility. Provide the appropriate access control and security to prevent unauthorized removal of items.
11	NA	ENVMON	No action required.
12	McMath	LOCK	Ensure all doors at the facility are locked and keys to those facilities are controlled.
13	Yoakum	S&MPLAN	The receiving pump pit and the batch pump pit collect water and their sumps require occasional pumping. They should be checked periodically and the water removed. Leave the lights/emergency lights operational.

C1.C.7.G 2402-EG Blend Pump Pit

C1.C.7.G.1 Deactivate Utilities

DEACTIVATE 2402-EG BLEND PUMP PIT			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Yoakum	ZERO_E	All electrical circuits de-energized within this building are fed from the 2400-E Control Room. See the ZERO_E descriptions for the Control Room for documentation of energy checks.
2	Yoakum	ELECT	The lighting circuits fed from breaker xxx in the Control Room Panel P4 will remain energized.
3	NA	AIREXH	No action required.
4	NA	DEACT	No action required.
5	NA	FIRESUP	No action required.
6	NA	RADMON	No action required.
7	NA	CAMON	No action required.
8	NA	ALARM	No action required.
9	NA	WSUPPLY	No action required.

C1.C.7.G.2 Close

CLOSE 2402-EG BLEND PUMP PIT			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	NA	EFFLUENT	No action required.
2	Nunamaker	JANSUP	Remove or transfer ownership of all janitor supplies at the facility.
3	Gotterbarm	SPAREP	Remove and excess all spare parts, tools and equipment.
4	Doeler	ROOF	See ROOF checklist, Appendix D, D1.C.7.G.2
5	Doeler	SEAL	See SEAL checklist, Appendix D, D1.C.7.G.2
6	NA	CLOSE	No action required.
7	NA	RADPOST	No action required.
8	NA	ELIGHT	No action required.
9	Doeler	INVENTORY	Document an inventory of all remaining equipment.
10	McMath	HOUSEK	Perform thorough housekeeping throughout the facility. Provide the appropriate access control and security to prevent unauthorized removal of items.
11	NA	ENVMON	No action required.
12	McMath	LOCK	Ensure all doors at the facility are locked and keys to those facilities are controlled.

C1.C.8 FTS

C1.C.8.B Deactivate

DEACTIVATE FTS			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Deffenbaugh	WF_CUT	Isolate the Grout Facilities by removing the jumper in pit 241-AP-102D that connects the pump with Nozzle E. Blank Nozzle E and the plug the encasement drain outlet to the pit. See Drawing H-2-76489.

C1.C.8.C Close

CLOSE FTS			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	McMath/ Mabry	RADPOST	Ensure appropriate radiation posting on the FTS line from AP Tank Farm to the LCT/MM.

C1.C.9 Reporting

Most of the following issues are TWRS Issue Management Program (TIMP) Quality, Environmental and Safety Tracking (QUEST) items.

UORs AND QUEST REPORTING			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Kison	UORS	<p>TIMP-93-0099-094 QUEST IAA-92-0017-SAF-F-17</p> <p>Description: This issue pertains to actions needed to mitigate a number of industrial hazards associated with the operation of the Grout Facilities.</p> <p>Disposition: In the deactivated state, the Grout Facilities will present a minimal number of industrial hazards. Therefore, the parts of this issue that are important to safety during the standby phase will be worked to closure. Specifically, the wooden scaffolding on vault 101 will be removed (see D1.C.6.A.2) and the concrete pads for the GPF Air Filtration Skid will be repaired (see D1.C.1.E.3). Other issues not important to the safety of the facility during the standby phase will be placed in the "inactive" status until the grout disposal efforts are restarted. Upon restart, the issue will be reevaluated and closed as a readiness review item.</p>

2	Kison	UORS	<p>TIMP-93-0099-103 QUEST ISA-91-0002-GROUT-OB-17</p> <p>Description: This issue pertains to noncompliance with WHC-CM-7-5 - H.5.3, Q.4.2.B, R.4.1, and J.4.1 in that the current and projected waste minimization program is not complete.</p> <p>Disposition: In the deactivated state, the Grout Facilities will not generate significant quantities of waste. Therefore, this issue will be placed in the "inactive" status until grout disposal efforts are restarted. Upon restart, the issue will be reevaluated and closed as a readiness review item.</p>
3	Kison	UORS	<p>TIMP-93-0099-104 QUEST ISA-91-0002-GROUT-OB-18</p> <p>Description: This issue pertains to noncompliance with WHC-CM-7-5 - J.4.1, J.5.5, and J.9.1 in that waste segregation, packaging, shipping, and disposal procedures are not consistent with the expected waste streams of the operating Facilities.</p> <p>Disposition: In the deactivated state, the Grout Facilities will not generate significant quantities of waste. Therefore, this item will be placed in the "inactive" status until the Facilities are restarted. Upon restart, this issue will be reevaluated and closed as a readiness review item.</p>

4	Kison	UORS	<p>TIMP-93-0099-105 QUEST ISA-91-0002-GROUT-OB-19</p> <p>Description: This issue pertains to noncompliance with WHC-CM-7-5 - I.5.2.4.C in that container and tank storage areas inspection procedures not current with the operation of the Facilities.</p> <p>Disposition: In the deactivated state, the Grout Facilities will not store significant quantities of hazardous materials. Therefore, this issue will be placed in the "inactive" status until grout disposal efforts are restarted. Upon restart, the issue will be reevaluated and closed as a readiness review item.</p>
5	Jimenez	UORS	<p>TIMP-93-0099-106 QUEST ISA-91-0002-GROUT-OB-21</p> <p>Description: This item pertains to noncompliance with WHC-CM-7-5 - T.5.1.1.G in that Grout's cathodic protection systems were not operating when the issue was identified.</p> <p>Disposition: The cathodic protection systems are operating and this issue will be closed during the deactivation of the Facilities. The system will be maintained during standby as stated in the standby and monitoring plan (Appendix F).</p>

6	Kison	UORS	<p>TIMP-93-0099-107 QUEST ISA-91-0002-GROUT-OB-23</p> <p>Description: This item pertains to noncompliance with WHC-CM-7-5 - T.4.1.A, T.5.1.1.G(1-4), T.5.2.3 in that procedures are not existent for the conduct of daily inspections of storage tanks. Further, inspections have not been conducted.</p> <p>Disposition: In the deactivated state, the Grout Facilities will not store significant quantities of hazardous materials. Therefore, this issue will be placed in the "inactive" status until grout disposal efforts are restarted. Upon restart, the issue will be reevaluated and closed as a readiness review item.</p>
7	Parazin	UORS	<p>TIMP-93-0099-110 QUEST ISA-91-0005-GROUT/ENG-F9</p> <p>Description: This item pertains to an unfinished analysis of GTF SC-2 components for compliance to DOE Order 6430.1A requirements.</p> <p>Disposition: The analysis has been completed. This issue will be closed during the deactivation of the Facilities as stated in Appendix C, Section C1.C.5 item 7.</p>

8	Kison	UORS	<p>TIMP-93-0099-116 QUEST ISA-92-0001-MT2-2.3</p> <p>Description: This item pertains to the production of procedures and a campaign run plan for the operation of new equipment at the Grout Disposal Facility. This is an action item that resulted from a review of the Grout Disposal Program by a senior technical panel in response to several employee concerns.</p> <p>Disposition: The Grout Facilities will produce new procedures only as necessary for the deactivation/standby period. Therefore, this issue will be placed in the "inactive" status until grout disposal efforts are restarted. Upon restart, the issue will be reevaluated and closed as a readiness review item.</p>
9	Doeler	UORS	<p>TIMP-93-0099-117 QUEST ISA-92-0003-GRT/FSAR-F-01</p> <p>Description: This item pertains to the construction of fire shields on 2 sides of the DMF transformer as committed to in the Fire Hazard Actions, WHC-SD-WM-ANAL-006, Rev. 0.</p> <p>Disposition: The plan for this corrective action will be revised because the Grout Facilities determined that the construction of fire shields around the DMF transformer is not practical. The new plan is to place a smaller transformer on a pole away from adjacent buildings. This work will be accomplished during the deactivation period.</p>

10	Kison	UORS	<p>TIMP-93-0099-118 QUEST ISA-92-0003-GRT/FSAR-F-03</p> <p>Description: This item pertains to a commitment in the Fire Hazard Actions, WHC-SD-WM-ANAL-006, to place a fire shield between the Electrical Equipment Module and the diesel generator.</p> <p>Disposition: In the deactivated state, the generator will not have any function. The diesel fuel will be removed and it will be disconnected from the Facilities. Therefore, it will not be a significant threat to the Electrical Equipment Module. This issue, however, will be placed in the "inactive" status until grout disposal efforts are restarted. Upon restart, the issue will be reactivated and closed prior to a readiness review of the Facilities.</p>
11	Clemans	UORS	<p>TIMP-93-0099-119 QUEST ISA-92-0003-GRT/FSAR-F-04</p> <p>Description: This item pertains to a commitment in the Fire Hazard Actions, WHC-SD-WM-ANAL-006, to place a fire detector in the passage between the Electrical Equipment Module and the Control module.</p> <p>Disposition: In the deactivated state, the modules will have minimal potential to start a fire and there is only a remote potential for personnel to be inside the passage. This disposition will be reviewed under a new Fire Hazards Analysis which will address the fire protection requirements for the standby phase of the Facilities. Until then, this issue will be placed in the "inactive" status until grout disposal efforts are restarted. Upon restart, the issue will be reactivated and closed prior to a readiness review of the Facilities.</p>

12	Hundal	UORS	<p>TIMP-93-0099-120 QUEST ISA-92-0003-GRT/FSAR-F-05</p> <p>Description: This item pertains to a commitment in the Fire Hazard Actions, WHC-SD-WM-ANAL-006, to place a fire hydrant in the GPF area.</p> <p>Disposition: This action item was being worked as Project W-257, Water System Upgrades. The Grout Facilities plan to transfer responsibility for this issues to the new occupants of the office buildings as stated in Appendix B.</p>
13	Kison	UORS	<p>TIMP-93-0099-121 QUEST ISA-92-0003-GRT/FSAR-F-06</p> <p>Description: This item pertains to a commitment in the Fire Hazard Actions, WHC-SD-WM-ANAL-006, to place fire detectors in the mixer module and pump.</p> <p>Disposition: In the deactivated state, the mixer module and pump will not have a significant potential to initiate or contribute to a fire at the Facilities. Therefore, this issue will be placed in the "inactive" status until grout disposal efforts are restarted. Upon restart, the issue will be reactivated and closed as a readiness review item.</p>
14	Doeler	UORS	<p>TIMP-93-0099-122 QUEST ISA-92-0003-GRT/FSAR-F-07</p> <p>Description: This item pertains to a commitment in the Fire Hazard Actions, WHC-SD-WM-ANAL-006, to develop administrative procedures to have the area around dry material bins clear of combustibles.</p> <p>Disposition: This issue will be closed during the facility deactivation period.</p>

15	Kison	UORS	<p>TIMP-93-0099-123 QUEST ISA-92-0003-GRT/FSAR-F-08</p> <p>Description: This item pertains to a commitment made in the Human Factors Engineering Review of the Grout Treatment Facilities, WHC-SD-WM-ANAL-005, in that the plant needs to be relabeled according to Military Standard 1472D.</p> <p>Disposition: The process screens within the GPF control room were modified to be consistent with the Standard. The DMF, however, has not been modified as originally planned due to a its high cost and questionable benefit. In the deactivated state, the Grout Facilities will not use the control panel at the DMF. Therefore, this issue will be placed in the "inactive" status until grout disposal efforts are restarted. Upon restart, the issue will be reevaluated and closed as a readiness review item.</p>
16	Kison	UORS	<p>TIMP-93-0099-124 QUEST ISA-92-0003-GRT/FSAR-F-09</p> <p>Description: This item pertains to a commitment made in the Human Factors Engineering Review of the Grout Treatment Facilities, WHC-SD-WM-ANAL-005, in that there is an excessive amount of railcar dusting during unloading activities.</p> <p>Disposition: In the deactivated state, the Grout Facilities will not handle significant quantities of dry materials. If the bins need to be loaded with dry materials, then trucks may be used in lieu of railcars. Therefore, this issue will be placed in the "inactive" status until grout disposal efforts are restarted. Upon restart, the issue will be reevaluated and closed as a readiness review item.</p>

17	Kison	UORS	<p>TIMP-93-0099-125 QUEST ISA-92-0003-GRT/FSAR-F-10</p> <p>Description: This item pertains to a commitment made in the Human Factors Engineering Review of the Grout Treatment Facilities, WHC-SD-WM-ANAL-005, in that an assessment of noise, light & vibration within the GTF is not available for evaluation.</p> <p>Disposition: In the deactivated state, the Grout Facilities will not generate significant levels of noise or vibration. Portable lights will be used (if needed) to supplement the work required to perform the S&M activities described in Appendix F. Therefore, this issue will be placed in the "inactive" status until grout disposal efforts are restarted. Upon restart, the issue will be reevaluated and closed as a readiness review item.</p>
----	-------	------	--

18	Kison	UORS	<p>TIMP-93-0099-126 QUEST ISA-92-0003-GRT/FSAR-F-12</p> <p>Description: This item pertains to a commitment made in the Human Factors Engineering Review of the Grout Treatment Facilities, WHC-SD-WM-ANAL-005, in that incorrect colors are/were used for indicating lights on the DMF and GPF control panels.</p> <p>Disposition: The colors on the GPF control panel have been corrected. The colors on the DMF panel have not. The corrective action plan as described in the Review has raised concerns in that the DMF panels could give false information to the operators. A full resolution of this issue will require a rework of the control panel which would be costly and the benefit of this rework would depend on the total life expectancy of the facility. If the Grout mission under a restart situation is very limited, then there is little justification for the rework. Since the control panel at the DMF will have little function during the standby period, this issue will be placed in "inactive" status and will be reactivated at the restart of grout disposal efforts.</p>
----	-------	------	--

19	Kison	UORS	<p>TIMP-93-0099-127 QUEST ISA-92-0006-GROUT-F-01</p> <p>Description: Construct a permanent change facility to meet the requirements of DOE Order 6430.1A, part 1300-6.6 and 1300-6.8. This includes requirements for a personnel decon area, showers and HEPA filtration on the structure. Reference: FSAR Section 4.6.</p> <p>Disposition: In the deactivated state, the Grout Facilities will not have significant quantities of radioactive residue to justify the construction and operation of a permanent change facility. Therefore, this issue will be placed in the "inactive" status until grout disposal efforts are restarted. Upon restart, this issue will be reevaluated to determine if the expected duration of grout operations will justify the construction of the change room.</p>
20	Kison	UORS	<p>TIMP-93-0099-128 QUEST ISA-92-0006-GROUT-F-03</p> <p>Description: Install backflow systems on GPF piping to meet the requirements of the confinement study. Reference: GTF Confinement Study, WHC-SD-WM-ES-161, Section II.C and Appendix II.</p> <p>Disposition: In the deactivated state, the Grout Facilities will not have any pressurized radioactive piping that could contribute to an accident of significant consequences. Therefore, backflow preventers are not needed during standby and this issue will be placed in the "inactive" status until grout disposal efforts are restarted. Upon restart, the issue will be reevaluated and closed as a readiness review item.</p>

21	Kison	UORS	<p>TIMP-93-0099-129 QUEST ISA-92-0006-GROUT-F-04</p> <p>Description: Install secondary confinement at the Decon/Additive Module loading area to confine spills to meet the requirements of the Confinement Study. Reference: GTF Confinement Study, WHC-SD-WM-ES-161, Section 11.C.</p> <p>Disposition: In the deactivated state, the Grout Facilities will not operate the Decon/Additive Module loading area. Therefore, this issue will be placed in the "inactive" status until grout disposal efforts are restarted. Upon restart, the issue will be reevaluated and closed as a readiness review item.</p>
22	Kison	UORS	<p>TIMP-93-0099-130 QUEST ISA-92-0006-GROUT-F-06</p> <p>Description: Upgrade all references within the FSAR to reflect Rev 0. versions of the Part B (DOE/RL 88-27) and the Performance Assessment (PNL-8027).</p> <p>Disposition: Work on the FSAR will be deactivated as described in Appendix C. Therefore, this issue will be placed in the "inactive" status until grout disposal efforts are restarted. Upon restart, the issue will be reactivated and closed as a readiness review item.</p>

23	Kison	UORS	<p>TIMP-93-0099-131 QUEST ISA-92-0006-GROUT-F-07</p> <p>Description: Complete mixer module lubrication analysis and upgrades to ensure exposure levels do not exceed the values in the FSAR. Reference: FSAR Section 8.4.5 and Table 8-13.</p> <p>Disposition: The FSAR is not applicable to the standby period. The safety for the standby mode is the HI&E as explained in Section 3 and the potential exposure levels are evaluated there. Therefore, facility modifications, if required, will be based on the HI&E. Otherwise this issue will be placed in the "inactive" status until grout disposal efforts are restarted. Upon restart, the issue will be reevaluated and closed as a readiness review item.</p>
24	Kison	UORS	<p>TIMP-93-0099-132 QUEST ISA-92-0006-GROUT-F-08</p> <p>Description: Incorporate information from the Hanford Mobile Solidified Low-Level Radioactive Waste Sampling Unit (core drilling rig) PSAR-WHC-WM-PSAR-001 into the Grout FSAR. This is required prior to core drilling. Reference: WHC-SD-WM-PSAR-001.</p> <p>Disposition: Work on the FSAR will be deactivated as stated in Section 3. Therefore, this issue will be placed in the "inactive" status until grout disposal efforts are restarted. Upon restart, the issue will be reevaluated and closed as a readiness review item.</p>

25	Kison	UORS	<p>TIMP-93-0099-182 QUEST ISR-93-0521-200</p> <p>Description: A survey was performed on a CBRS computer run for backflow prevention devices, dated 5/25/93, to determine the accuracy of the information listed. The information on the backflow prevention was not recorded for sanitary and raw water.</p> <p>Disposition: Since the office facilities will be occupied during the standby phase, this item will be worked to closure.</p>
26	Clemans	UORS	<p>TIMP-93-0099-282 QUEST ORT-91-1008-GROUT</p> <p>Description: On October 15, 1991, Fire systems maintenance personnel were performing a routine preventive maintenance (PM) procedure on the 243-G4 battery backup fire alarm system. While performing the procedure, it was determined that the battery backup circuit was not functioning in the fire alarm panel. This condition would result in a loss of the system alarm capabilities should the normal power supply be disrupted.</p> <p>Disposition: This issue will be closed during the deactivation period.</p>

27	Kison	UORS	<p>TIMP-93-0099-409 QUEST RLW-91-0022-GHS-01</p> <p>Description: This item pertains to the inadequate amount of space available to perform maintenance.</p> <p>Disposition: The new maintenance facilities will resolve this issue for the purposes of deactivating the facilities. Since space has not been provided at the DMF and space will be transferred to another organization during the standby period, this issue must be retained in the "inactive" status until the Grout facility is restarted. Upon restart, this item will be reactivated and worked as required.</p>
28	Kison	UORS	<p>TIMP-93-0099-410 QUEST RLW-91-0022-GHS-02</p> <p>Description: This issue pertains to the inadequate amount of environmentally controlled space available for material storage.</p> <p>Disposition: The new building designated for material storage will resolve this issue for the purpose of deactivating the facilities. The new building, however, will be transferred to another organization during the standby period. Therefore, this issue will be placed in the "inactive" status until grout disposal efforts are restarted. Upon restart, the issue will be reactivated and closed as a readiness review item.</p>

29	Kison	UORS	<p>TIMP-93-0099-411 QUEST RLW-91-0022-GHS-05</p> <p>Description: This issue pertains to the inadequate space available for training, conference areas, and office space.</p> <p>Disposition: The new office buildings will resolve this issue for the purpose of deactivating the facilities. These new buildings, however, will be transferred to another organization during the standby period. Therefore, this item will be placed in the "inactive" status until the Grout facility is restarted. Upon restart, this item will be reactivated and worked as required.</p>
30	Kison	UORS	<p>TIMP-93-0099-459 QUEST RRR-88-0000-AD-GROUT-005</p> <p>Description: Implement freeze protection for the air compressor rooms.</p> <p>Disposition: In the deactivated state, the Grout Facilities will not freeze protection for the air compressor rooms. There are no water lines and condensate lines will be drained and capped as stated in Appendix C. Therefore, this issue will be placed in the "inactive" status until grout disposal efforts are restarted. Upon restart, the issue will be reevaluated and closed as a readiness review item.</p>

31	Kison	UORS	<p>TIMP-93-0099-460 QUEST RRR-88-0000-AD-GROUT-057</p> <p>Description: This issue pertains to the readiness review requirement to perform an evaluation of system performance and correct as required.</p> <p>Disposition: The process system is not required during the standby period. As part of the readiness review under an emergency restart, however, the system must be tested to determine if it will perform its intended function. Therefore, this issue will be placed in the "inactive" status until grout disposal efforts are restarted. Upon restart, the issue will be reactivated and closed as a readiness review item.</p>
32	Kison	UORS	<p>TIMP-93-0099-461 QUEST RRR-88-0000-AD-GROUT-068</p> <p>Description: Review LCT module return air relative humidity requirements subsequent to LCT floor spray installation, demonstrate that the LCT module return air relative humidity requirements are met.</p> <p>Disposition: In the deactivated state, the Grout Facilities will not have any air flow through the LCT module and the module penetrations will be sealed as part of the closure action. Therefore, this issue will be placed in the "inactive" status until grout disposal efforts are restarted. Upon restart, the issue will be reevaluated and closed as a readiness review item.</p>

33	Kison	UORS	<p>TIMP-93-0099-462 QUEST RRR-88-0000-AD-GROUT-093</p> <p>Description: This item pertains to the design and construction of a system that will transfer liquid from a closed (using the RCRA definition) vault. The vault sump could potentially have liquid from rain, melted snow or possibly leachate.</p> <p>Disposition: Vault 101 has been closed and sealed from the environment. Therefore, a transfer system is not required during the standby period. In the event that the Facilities are directed to start processing waste, a transfer system will be needed for the other vaults before pipelines leading from a vault are cut as part of a closure action. Therefore, this issue will be placed in the "inactive" status until grout disposal efforts are restarted. Upon restart, the issue will be reactivated and closed as a readiness review item.</p>
34	Kison	UORS	<p>TIMP-93-0099-463 QUEST RRR-88-0000-AD-GROUT-094</p> <p>Description: This issue pertains to the development of a procedure for the transfer of liquid from a closed (using the RCRA definition) vault.</p> <p>Disposition: Vault 101 has been closed and sealed from the environment. Therefore, a transfer procedure is not required during the standby period. A transfer procedure is needed, however, before pipelines leading from a vault are cut as part of a closure action. Therefore, this issue will be placed in the "inactive" status until grout disposal efforts are restarted. Upon restart, the issue will be reactivated and closed as a readiness review item.</p>

35	Yoakum	UORS	<p>TIMP-93-0099-600 QUEST SFP-92-0001-243G10-F-03</p> <p>Description: Breaker panel in water heater room and southwest office area does not have adequate clearance in front of it.</p> <p>Disposition: The area in front of the breaker will be cleared during the deactivation of the facilities.</p>
36	Yoakum	UORS	<p>TIMP-93-0099-615 QUEST SFP-93-0001-M0041-F-01</p> <p>Description: This issue pertains to the fire extinguisher at the facilities. The 12 year hydrostatic test required for fire extinguisher #1 and #2 are past due.</p> <p>Disposition: This issue will be resolved during the deactivation of the Facilities.</p>
37	Hundal	UORS	<p>TIMP-93-0099-616 QUEST SFP-93-243-G4</p> <p>Description: This item pertains to the fact that there are no fire hydrants in the area of the 243 buildings. This situation is not compliant with the NFPA 24 standard identified as a DOE 6430.1A requirement.</p> <p>Disposition: This action item is being worked as Project W-257, Water System Upgrades. The Grout Facilities plan to transfer this issue to the new occupants of the office buildings as stated in Appendix B.</p>

38	Clemans	UORS	<p>TIMP-93-0999-090 QUEST NCR-0000-B08135</p> <p>Description: This item pertains to evidence of welding on lifting hooks. The welding indicates that these hooks may not be as strong as required to ensure safety of operations.</p> <p>Disposition: This issue will be resolved during the deactivation of the facilities.</p>
39	Kison	UORS	<p>Unusual Occurrence Report</p> <p>Description: This item pertains to the failure of the mixer pump in Tank AP-102.</p> <p>Disposition: This issue will be resolved during the standby period. TWRS will aggressively plan and pursue the removal of the pump to eliminate it as a restart issue. Since this may be a multi-year effort, the Grout Disposal Program will transfer this issue to another program within TWRS during the deactivation period.</p>
40	Wood	PROG	<p>Defense Nuclear Facilities Safety Board (DNFSB) Recommendation 90-2</p> <p>Description: This item pertains to the identification of applicable codes and standards, an assessment of the adequacy of the codes and standards and a determination of the extent to which the standards have been implemented at the Facility.</p> <p>Disposition: A listing of codes and standards was developed by Grout during readiness review activities. This listing will be archived for future use. Records that identify the extent to which codes and standards (Records Inventory and Disposition Schedule or RIDs) will be forwarded to NQA-1 qualified storage.</p>

41	Jimenez	UORS	<p>Fire Hazards Analysis (FHA)</p> <p>Description: This item pertains to the need to revise the current FHA to be compliant with the latest DOE orders and to reflect the condition of the Facilities during the standby period.</p> <p>Disposition: This issue will be resolved during the deactivation of the facilities.</p>
----	---------	------	---

APPENDIX D CHECKLISTS

D1.0 GROUT FACILITIES/ACTIVITIES

D1.A ACTIVATE NEW WORK

D1.A.1 Records Collection and Storage

RECORDS COLLECTION AND STORAGE			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Widhalm	DOCUMENT	<p>Documents collected from each employee.</p> <p>Verified by: _____ Date: _____</p>
2	Widhalm Gardner	DOCUMENT	<p>All QA & Regulatory file materials are turned into the DPC/RHA and copies archived in standard file cabinets at the Information Resource Center.</p> <p>Verified by: _____ Date: _____</p> <p>In-process (unfinished) documents in fireproof file cabinets.</p> <p>Verified by: _____ Date: _____</p> <p>One of a kind important documents in fireproof file cabinets.</p> <p>Verified by: _____ Date: _____</p> <p>Informational copies of documents/records in standard file cabinets.</p> <p>Verified by: _____ Date: _____</p>

D1.A.2 Surveillance and Monitoring Plan

STANDBY S&M PLAN			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Jimenez	S&MPLAN	Technical justification for the shutdown or continuation of cathodic protection provided. Verified by:_____ Date:_____
2	Yoakum Nunamaker	S&MPLAN	S&M Plan issued. Verified by:_____ Date:_____

D1.A.3 Program Restructuring

STANDBY S&M PLAN			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Claghorn	PROG	Standby plan as-built. Verified by:_____ Date:_____
2	Hanlon	PROG	Prepare and status a schedule for deactivation and standby activities. Verified by:_____ Date:_____
3	Wood	PROG	Fiscal year work plan reflects the new mission for the Grout Facilities. Verified by:_____ Date:_____

D1.B TRANSFER FACILITIES/ACTIVITIES TO OTHER PROGRAMS**D1.B.1 Dry Materials Facilities****D1.B.1.A Dry Material Storage Bins**

TRANSFER STORAGE BINS			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Gretsinger	DISPOSE_C	Dry materials in the storage bins have been sent to EA in dry material trailers. Verified by:_____ Date:_____
2	Moxin	DM_TRANSF	Transfer documentation complete. Verified by:_____ Date:_____

D1.B.1.B Trucks

TRANSFER DRY MATERIAL TRUCKS			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Gretsinger	DISPOSE_C	Dry materials in the transport trailers are disposed. EA took trailers with the dry materials. Verified by:_____ Date:_____
2	Moxin	DM_TRANSF	Transfer documentation complete. Verified by:_____ Date:_____

D1.B.1.C Other Equipment

TRANSFER DMF MISCELLANEOUS EQUIPMENT			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Moxin	DM_TRANSF	Transfer documentation complete. Verified by:_____ Date:_____

D1.B.2 FTS

D1.B.2.A Project W-062

TRANSFER SPONSORSHIP OF PROJECT W-062			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Cole	WF_W062	Complete caisson procurement activities. Verified by:_____ Date:_____
2	Claghorn	WF_W062	Transfer documentation complete. Verified by:_____ Date:_____

D1.B.2.B Tank AP-102 Equipment

TRANSFER GROUT FACILITIES' MISCELLANEOUS TANK AP-102 EQUIPMENT			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Deffenbaugh	WF_TANK	Equipment transfer documentation complete. Verified by:_____ Date:_____
2	Jimenez	WF_TANK	Transfer of pump removal responsibilities complete. Verified by:_____ Date:_____

TRANSFER GROUT FACILITIES' MISCELLANEOUS TANK AP-102 EQUIPMENT			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
3	Kison	WF_TANK	Mixer pump testing complete. Verified by:_____ Date:_____

D1.B.2.C Tank AP-102 Mixer Support Equipment

TRANSFER AP-102 MIXER SUPPORT EQUIPMENT			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Deffenbaugh	WF_TANK	Transfer documentation complete. Verified by:_____ Date:_____

D1.B.3 Grout Processing Facilities

D1.B.3.A Office, Trailers and Equipment

TRANSFER GPF OFFICE, TRAILERS, AND EQUIPMENT			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Nunamaker	GP_TRANSF	Transfer documentation complete. Verified by:_____ Date:_____
2	Nunamaker	FURN	Transfer documentation for the office equipment located at the GPF and support mobile offices is complete. Verified by:_____ Date:_____

D1.B.3.B Change Trailer

TRANSFER THE GPF CHANGE TRAILER			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Maint.	SEAL	<p>Seal hole around 1/4" tube penetrations from the P-10 bottle storage rack on the southside.</p> <p>Verified by:_____ Date:_____</p> <p>Install caps on the 2 1/4" S/S tubes at the P-10 bottle storage rack.</p> <p>Verified by:_____ Date:_____</p>
2	McMath	GP_TRANSF	<p>Transfer documentation complete.</p> <p>Verified by:_____ Date:_____</p>

D1.B.3.C Spare Parts

TRANSFER GPF SPARE PARTS			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Gotterbarm	GP_TRANSF	<p>Property list complete and placed in the deactivation files.</p> <p>Verified by:_____ Date:_____</p>
2	Armatis	SPAREP	<p>List of spare parts made available for other DOE programs.</p>
3	Gotterbarm	SPAREP	<p>Spare parts transferred or excessed.</p> <p>Verified by:_____ Date:_____</p>

D1.B.3.D Project W-257 - GPF Fire Hydrant

TRANSFER PROJECT W-257			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Hundal	GP_TRANSF	Project sponsorship transferred to the new organization. Verified by:_____ Date:_____

D1.B.4 Grout Disposal Facility**D1.B.4.A PIHs**

TRANSFER THE PIHs			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Claghorn	GF_TRANSF	Transfer documentation complete. Verified by:_____ Date:_____

D1.B.4.B Ventilation System

TRANSFER THE GPF VENTILATION SYSTEMS			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	McKinney	PROJ	Project punch list complete and Project records are filed. Verified by:_____ Date:_____
2	Wells	PROJ	Comments on the procurement specification for vault exhausters 2 and 3 are incorporated. As-built drawings are incorporated into specification. Specification issued as impact level 4 "For information only". Verified by:_____ Date:_____

TRANSFER THE GPF VENTILATION SYSTEMS			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
3	Wells	DF_TRANSF	Transfer documentation complete. Verified by:_____ Date:_____

D1.B.4.C Core Truck

TRANSFER THE CORE TRUCK			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Kruger	DF_TRANSF	Transfer documentation complete. Verified by:_____ Date:_____

D1.B.4.D Hydrogen Resolution Program

TRANSFER THE HYDROGEN RESOLUTION PROGRAM			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Powell	DF_TRANSF	Transfer of the hydrogen analysis/mitigation program complete Verified by:_____ Date:_____

TRANSFER THE HYDROGEN RESOLUTION PROGRAM			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
2	Powell	PROJ	<p>Issue supporting document for simulated liquid waste generation, liquid irradiation and grout preparation.</p> <p>Verified by:_____ Date:_____</p> <p>Issue supporting document for liquid return by pressure.</p> <p>Verified by:_____ Date:_____</p> <p>Issue letter report for liquid return by gamma irradiation.</p> <p>Verified by:_____ Date:_____</p> <p>Issue supporting document for grout gas generation.</p> <p>Verified by:_____ Date:_____</p> <p>Issue supporting document for hot grout gas generation.</p> <p>Verified by:_____ Date:_____</p> <p>Issue supporting document for hydrogen catalyst recombiner tests.</p> <p>Verified by:_____ Date:_____</p>

D1.B.4.E Pumps

TRANSFER THE SHORT TERM LEACHATE/EXCESS LIQUID PUMPS			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	McKinney	PROJ	<p>Complete procurement activities with Goulds Pump.</p> <p>Verified by:_____ Date:_____</p> <p>Transfer pumps to new owners.</p> <p>Verified by:_____ Date:_____</p>
2	McKinney	PROJ	<p>Terminate Kaiser Engineers Hanford (KEH) fabrication/assembly activities for the short-term leachate pump assembly (4) and the excess liquid pump assembly (2).</p> <p>Verified by:_____ Date:_____</p> <p>Void existing assembly documents and scrap existing materials.</p> <p>Verified by:_____ Date:_____</p>

D1.B.4.F Vaults 102-105 and Miscellaneous Equipment

TRANSFER VAULTS 102 - 105 AND MISC EQUIPMENT			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Claghorn	DF_TRANSF	<p>Transfer documentation for vault 105 complete.</p> <p>Verified by:_____ Date:_____</p>
2	Claghorn	RADMON	<p>Transfer documentation for two ARM on vaults 102 and 103 complete.</p> <p>Verified by:_____ Date:_____</p>

TRANSFER VAULTS 102 - 105 AND MISC EQUIPMENT			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
8	Claghorn	SPAREP	Transfer documentation for the two jumpers from the C vault pits on vaults 102 and 103 complete. Verified by:_____ Date:_____
3	Claghorn	CAMON	Transfer documentation complete for the continuous air monitor on vault 102. Verified by:_____ Date:_____

D1.C DEACTIVATE FACILITIES/ACTIVITIES**D1.C.1 GROUT PROCESSING FACILITIES****D1.C.1.A 243-G3 Decon Additives Module****D1.C.1.A.1 Decontaminate 243-G3**

DECONTAMINATE 243-G3 - DECON ADDITIVES			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Opns.	DRAIN_V	All vessels drained and decontaminated. Verified by:_____ Date:_____
2	Opns.	DECON_T	All temporary surface contamination areas decontaminated and released. Verified by:_____ Date:_____
3	Opns.	DISPOSE_D	Radioactive low-level or mixed waste disposed in accordance with appropriate procedures. Verified by:_____ Date:_____

DECONTAMINATE 243-G3 - DECON ADDITIVES			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
4	Opns.	DISPOSE_C	Hazardous materials disposed or dispositioned Verified by:_____ Date:_____
5	Opns.	HAZID	Remaining hazards identified and recorded as part of the deactivation file. Verified by:_____ Date:_____
6	Opns.	RADSURV	Final radiological surveys complete. Map placed into shutdown record file. Verified by:_____ Date:_____

D1.C.1.A.2 Deactivate Utilities

DEACTIVATE 243-G3 - DECON ADDITIVES			
Item	Assignee	Criteria	Description
1	Maint.	ELECT	Lighting circuits remain energized. Verified by:_____ Date:_____
2	Maint.	Zero_E	Air compressors de-energized. Verified by:_____ Date:_____

DEACTIVATE 243-G3 - DECON ADDITIVES			
Item	Assignee	Criteria	Description
3	Opns.	WSUPPLY	<p><u>Sanitary water</u> supply to be isolated by closing valve N-197-S, located southwest of 243-G4. Valves to remain open, supplies water to control room.</p> <p>Verified by:_____ Date:_____</p> <p><u>Raw water</u> will be secured at 243-G82 Water Service Caisson.</p> <p>Verified by:_____ Date:_____</p>

D1.C.1.A.3 Close

CLOSE 243-G3 - DECON ADDITIVES			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Opns.	JANSUP	<p>Janitor supplies removed.</p> <p>Verified by:_____ Date:_____</p>
2	Maint.	SPAREP	<p>All spare parts, tools and equipment removed.</p> <p>Verified by:_____ Date:_____</p>
3	Maint.	ROOF	<p>Roofing is in good repair with no leaks.</p> <p>Verified:_____ Date:_____</p>

CLOSE 243-G3 - DECON ADDITIVES			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
4	Maint.	SEAL	<p>Plug 3/4" ball valve (#hv 405) on the eastside of the building, labeled <u>Drain Valve</u>.</p> <p>Verified by: _____ Date: _____</p> <p>Plug Module Sump drain HV-269.</p> <p>Verified by: _____ Date: _____</p> <p>Plug Fill Box drain HV-403.</p> <p>Verified by: _____ Date: _____</p> <p>Plug Caustic drain HV-317.</p> <p>Verified by: _____ Date: _____</p>
5	Opns.	CLOSE	<p>All open systems closed off.</p> <p>Verified by: _____ Date: _____</p>
6	Maint.	RADPOST	<p>Radiological areas posted and in full compliance with WHC-CM-1-6.</p> <p>Verified by: _____ Date: _____</p>
7	Opns.	INVENTORY	<p>All remaining equipment inventoried.</p> <p>Verified by: _____ Date: _____</p>

CLOSE 243-G3 - DECON ADDITIVES			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
8	Opns.	HOUSEK	Facility in good order. Verified by: _____ Date: _____
9	Opns.	LOCK	Doors locked and all keys accounted for. Verified by: _____ Date: _____
10	Maint.	S&MPLAN	HVAC system functioning. Verified by: _____ Date: _____

D1.C.1.B 243-G4: Control Room

D1.C.1.B.1 Deactivate Utilities

DEACTIVATE 243-G4 - CONTROL ROOM			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION

1	Maint.	ZERO_E	<p>The following circuits are to be de-energized:</p> <p>Control Module Service Panel</p> <p>Ckt 1</p> <p>Verified by:_____ Date:_____</p> <p>Ckt 2,4</p> <p>Verified by:_____ Date:_____</p> <p>Ckt 3</p> <p>Verified by:_____ Date:_____</p> <p>Ckt 5</p> <p>Verified by:_____ Date:_____</p> <p>Ckt 8</p> <p>Verified by:_____ Date:_____</p> <p>Ckt 9</p> <p>Verified by:_____ Date:_____</p> <p>Note: All other electrical circuits in this building are fed from the Electrical Equipment Module. See the ZERO E descriptions for the Electrical Equipment Module for documentation of energy checks.</p>
2	Maint.	ELECT	<p>Circuits 6, 7, 10 in the control module service panel remain energized.</p> <p>Verified by:_____ Date:_____</p>

3	Maint.	FIRESUP	Fire suppression system left in accordance with the standby fire hazards analysis. Verified by:_____ Date:_____
4	Opns.	ALARM	Alarms deactivated. Verified by:_____ Date:_____
5	Maint.	HAZID	The HALON hazard quantified, identified, and recorded in the shutdown file. Verified by:_____ Date:_____

D1.C.1.B.2 Close

CLOSE 243-G4 CONTROL ROOM			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Opns.	JANSUP	Janitor supplies removed. Verified by:_____ Date:_____
2	Maint.	SPAREP	All spare parts, tools and equipment removed. Verified by:_____ Date:_____
3	Maint.	ROOF	Roofing is in good repair with no leaks. Verified by:_____ Date:_____
4	Maint.	SEAL	Seal around LB on northside of building, approx. 3' above ground under HVAC unit. Verified by:_____ Date:_____

CLOSE 243-G4 CONTROL ROOM			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
5	Maint.	SEAL	<p>Seal hole on northside of building, approx 2.5' above ground, just to the left of a duplex receptacle.</p> <p>Verified by:_____ Date:_____</p> <p>Check and reattach the conduit straps on the security lighting around the building.</p> <p>Verified by:_____ Date:_____</p>
6	Opns.	INVENTORY	<p>All remaining equipment inventoried.</p> <p>Verified by:_____ Date:_____</p>
7	Opns.	HOUSEK	<p>Facility in good order.</p> <p>Verified by:_____ Date:_____</p>
8	Opns.	LOCK	<p>Doors locked and all keys accounted for.</p> <p>Verified by:_____ Date:_____</p>

D1.C.1.B.3 Software 243-G4

D1.C.1.B.3.A Alarm Procedure

COMPLETE THE ALARM PROCEDURE			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Clemans	PROJ	<p>Alarm response procedure archived.</p> <p>Verified by:_____ Date:_____</p>

COMPLETE THE ALARM PROCEDURE			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
2	Parazin	PROJ	Review of the Alarm Response Procedure archived. Verified by: _____ Date: _____

D1.C.1.B.3.B Software Manual

REVISE THE SOFTWARE MANUAL			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Crystal	PROJ	Additional software modifications needed for operation are documented. Appendix J of the Software Manual. Verified by: _____ Date: _____
2	Crystal	PROJ	Revised GTF Software Manual archived. Verified by: _____ Date: _____

D1.C.1.C Standby Generator - 243-G5

D1.C.1.C.1 Decontaminate 243-G5

DECONTAMINATE 243-G5 - STANDBY GENERATOR			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Maint.	DRAIN_V	Diesel fuel tank drained. Verified by: _____ Date: _____ If a transfer commitment has not been obtained, drain oil, coolant and water jacket. Verified by: _____ Date: _____

DECONTAMINATE 243-G5 - STANDBY GENERATOR			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
2	Opns.	DECON_T	All temporary surface contamination (i.e. oil, coolant) areas decontaminated and released. Verified by: _____ Date: _____
3	Opns.	DISPOSE_C	Hazardous materials disposed or dispositioned: batteries Verified by: _____ Date: _____ coolant Verified by: _____ Date: _____ diesel fuel Verified by: _____ Date: _____
4	Opns.	HAZID	Remaining hazards identified and recorded as part of the deactivation file. Verified by: _____ Date: _____

D1.C.1.C.2 Deactivate Utilities

DEACTIVATE 243-G5 - STANDBY GENERATOR			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Maint.	ZERO_E	<p>De-energize 800 amp breaker located inside the generator enclosure.</p> <p>Verified by:_____ Date:_____</p> <p>Place the key switch on the transfer switch in the electrical equipment room in the <i>normal</i> position.</p> <p>Verified by:_____ Date:_____</p> <p>Place the motor disconnect switch in the <i>manual</i> position.</p> <p>Verified by:_____ Date:_____</p> <p>Disconnect the batteries for disposal.</p> <p>Verified by:_____ Date:_____</p>

D1.C.1.C.3 Close

CLOSE 243-G5 - STANDBY GENERATOR			
Item	Assignee	Criteria	Description
1	Opns.	JANSUP	<p>Janitor supplies removed.</p> <p>Verified by:_____ Date:_____</p>
2	Maint.	SPAREP	<p>All spare parts, tools and equipment removed.</p> <p>Verified by:_____ Date:_____</p>

CLOSE 243-G5 - STANDBY GENERATOR			
Item	Assignee	Criteria	Description
3	Maint.	ROOF	Roofing is in good repair with no leaks. Verified by:_____ Date:_____
4	Maint.	SEAL	Secure diesel fuel storage tank. Verified by:_____ Date:_____
5	Opns.	INVENTORY	All remaining equipment inventoried. Verified by:_____ Date:_____
6	Opns.	HOUSEK	Facility in good order. Verified by:_____ Date:_____
7	Opns.	LOCK	Doors locked and all keys accounted for. Verified by:_____ Date:_____

D1.C.1.D Electrical Equipment Module - 243-G6

D1.C.1.D.1 Deactivate 243-G6

DEACTIVATE 243-G6 - ELECTRICAL EQUIPMENT MODULE			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Maint.	ZERO_E	<p>De-energize the following:</p> <p><u>Motor Control Center</u></p> <p>Ckt 1B</p> <p>Verified by:_____ Date:_____</p> <p>Ckt 1D</p> <p>Verified by:_____ Date:_____</p> <p>Ckt 1F</p> <p>Verified by:_____ Date:_____</p> <p>Ckt 2B</p> <p>Verified by:_____ Date:_____</p> <p>Ckt 2F</p> <p>Verified by:_____ Date:_____</p> <p>Ckt 2H</p> <p>Verified by:_____ Date:_____</p> <p>Ckt 2K</p> <p>Verified by:_____ Date:_____</p>

DEACTIVATE 243-G6 - ELECTRICAL EQUIPMENT MODULE			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
			Ckt 2M
			Verified by: _____ Date: _____
			Ckt 3C
			Verified by: _____ Date: _____
			Ckt 3E
			Verified by: _____ Date: _____
			Ckt 3M
			Verified by: _____ Date: _____

DEACTIVATE 243-G6 - ELECTRICAL EQUIPMENT MODULE			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
			Ckt 4B
			Verified by:_____ Date:_____
			Ckt 4D
			Verified by:_____ Date:_____
			Ckt 4F
			Verified by:_____ Date:_____
			Ckt 4H
			Verified by:_____ Date:_____
			Ckt 4K
			Verified by:_____ Date:_____
			Ckt 4M
			Verified by:_____ Date:_____

DEACTIVATE 243-G6 - ELECTRICAL EQUIPMENT MODULE			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
2	Maint.	ELECT	<p>The following circuits will remain energized:</p> <p><u>Motor Control Center:</u></p> <p>9H - Transformer T3 - feeding panel SPA, SP1 & CP1. 8J - Panel PP1 feeding the lighting circuits. 8M - Breaker feeding Panel PP1. 1M - Incoming main for the MCC. 5BR - Motor Pit HVAC 5FL - Decon Module Hvac</p> <p>Verified by:_____ Date:_____</p> <p><u>Service Panel SP1:</u></p> <p>39, 41 - Control Module Service Panel. 24 - Yard lighting Control Power. 3, 4, 5, 9 - Receptacle 25, 27 - UPS By Pass</p> <p>Verified by:_____ Date:_____</p> <p><u>Control Panel CP1:</u></p> <p>29 - Radio Fire Alarm Box. 30 - Halon Fire Protection & Alarm Panels.</p> <p>Verified by:_____ Date:_____</p> <p><u>Service Panel SPA:</u></p> <p>1, 3 - Electrical Equipment Room HVAC (West). 2, 4 - Electrical Equipment Room HVAC (East). 5 - Electrical Equipment Module Lights. 11 - Control Room Heat Trace</p> <p>Verified by:_____ Date:_____</p>

DEACTIVATE 243-G6 - ELECTRICAL EQUIPMENT MODULE			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
			<u>Power Panel PP1:</u> 1 - Outdoor area lighting. 3 - Outdoor area lighting. 5 - Outdoor area lighting. 15 - Control Room lighting. 17 - Electrical Equipment Module lighting. 2 - Motor Pit lighting. 4 - Motor Pit lighting. 6 - Decon Additive lighting. 8 - Decon Additive lighting. 10 - LCT/MM light receptacles. 14 - LCT/MM lighting. 16 - LCT/MM lighting. Verified by: _____ Date: _____

D1.C.1.D.2 Close

CLOSE 245-G6 - ELECTRICAL EQUIPMENT MODULE			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Maint.	SEAL	Seal around 1/2" LB on the southside of the building, approx. 8' above ground, towards the east end of the building. Verified by: _____ Date: _____
2	Maint.	ROOF	Roofing is in good repair with no leaks. Verified by: _____ Date: _____

D1.C.1.E 243-G8: Air Filtration Skid

D1.C.1.E.1 Decontaminate

DECONTAMINATE 243-G8 AIR FILTRATION MODULE			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Maint.	DRAIN_V	<p>After the liquids in the LCT/MM have evaporated, drain the chilled water system.</p> <p>Verified by:_____ Date:_____</p> <p>Condensate lines drained and blown out.</p> <p>Verified by:_____ Date:_____</p>
2	Opns.	DECON_P	<p>All permanent radiation zones released or surface contamination levels reduced to prevent resuspension and/or migration of loose contamination.</p> <p>Verified by:_____ Date:_____</p>
3	Opns.	DECON_T	<p>All temporary surface contamination areas decontaminated and released.</p> <p>Verified by:_____ Date:_____</p>
4	Opns.	DISPOSE_D	<p>Radioactive low-level or mixed waste disposed in accordance with appropriate procedures.</p> <p>Verified by:_____ Date:_____</p>
5	Opns.	DISPOSE_C	<p>Hazardous materials disposed or dispositioned</p> <p>Verified by:_____ Date:_____</p>

DECONTAMINATE 243-G8 AIR FILTRATION MODULE			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
6	Opns.	HAZID	Remaining hazards identified and recorded as part of the deactivation file. Verified by:_____ Date:_____
7	Opns.	RADSURV	Final radiological surveys complete. Map placed into shutdown record file. Verified by:_____ Date:_____

D1.C.1.E.2 Deactivate Utilities

DEACTIVATE 243-G8 AIR FILTRATION MODULE			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Opns.	CAMON	Stack monitoring system deactivated. Verified by:_____ Date:_____
8	Opns.	ALARM	Local alarms deactivated. Verified by:_____ Date:_____

D1.C.1.E.3 Close

CLOSE 243-G8 AIR FILTRATION MODULE			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Maint.	STRUCT	Concrete pads repaired. Verified by:_____ Date:_____

CLOSE 243-G8 AIR FILTRATION MODULE			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
2	Opns.	JANSUP	Janitor supplies removed. Verified by:_____ Date:_____
3	Maint.	SPAREP	All spare parts, tools and equipment removed. Verified by:_____ Date:_____
4	Maint.	SEAL	Install sheet metal cover over the exhaust stack. Verified by:_____ Date:_____
5	Maint.	CLOSE	Exhaust inlet and outlet ducts are plugged. Verified by:_____ Date:_____
6	Opns.	RADPOST	Radiological areas posted and in full compliance with WHC-CM-1-6. Verified by:_____ Date:_____
7	Opns.	INVENTORY	All remaining process equipment inventoried. Verified by:_____ Date:_____
8	Opns.	HOUSEK	Facility in good order. Verified by:_____ Date:_____

CLOSE 243-G8 AIR FILTRATION MODULE			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
9	Opns.	LOCK	Gate locked and all keys accounted for. Verified by: _____ Date: _____

D1.C.1.F.1 Deactivate 243-G9 Substation

DEACTIVATE 243-G9 SUBSTATION			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Maint.	ZERO_E	Check energy to circuit 3 (B566 feeder, vault panel D-PB-01). Verified by: _____ Date: _____ *Note: This circuit provides power to the cathodic protection system to the vaults.
2	Maint.	ELECT	Power on for the following circuits: Ckt 2 - M0-293 feeder Ckt 3 - Vault panel D-PB-01 Ckt 4 - Motor control center feeder Ckt 5 - New office trailers Verified by: _____ Date: _____
3	Maint.	ROOF	Roofing is in good repair with no leaks. Verified by: _____ Date: _____

D1.C.1.G Water Service Building - 243-G81**D1.C.1.G.1 Deactivate 243-G81**

DEACTIVATE 243-G81 WATER SERVICE BUILDING			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION

1	Opns.	WSUPPLY	Close, Lock & Tag <u>Sanitary water</u> at valve #HVSW-10. Verified by: _____ Date: _____
---	-------	---------	--

D1.C.1.G.2 Close

CLOSE 243-G81 WATER SERVICE BUILDING			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Opns.	JANSUP	Janitor supplies removed. Verified by: _____ Date: _____
2	Maint.	SPAREP	All spare parts, tools and equipment removed. Verified by: _____ Date: _____
3	Maint.	ROOF	Roofing is in good repair with no leaks. Verified by: _____ Date: _____
4	Opns.	INVENTORY	All remaining equipment inventoried. Verified by: _____ Date: _____
5	Opns.	HOUSEK	Facility in good order. Verified by: _____ Date: _____
6	Opns.	LOCK	Doors locked and all keys accounted for. Verified by: _____ Date: _____

D1.C.1.H Water Service Caisson - 243-G82

D1.C.1.H.1 Deactivate 243-G82

DEACTIVATE 243-G82 WATER SERVICE CAISSON			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Maint.	WSUPPLY	Secure <u>Raw water "ONLY"</u> , by placing a 3" - 150# blind flange on the outlet side of valve 130-R. Verified by:_____ Date:_____
2	Maint.	ELECT	Power to caisson remains energized. Verified by:_____ Date:_____

D1.C.1.H.2 Close

CLOSE 243-G82 WATER SERVICE CAISSON			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Opns.	JANSUP	Janitor supplies removed. Verified by:_____ Date:_____
2	Maint.	SPAREP	All spare parts, tools and equipment removed. Verified by:_____ Date:_____

D1.C.1.I 243-G1: LCT/MM

D1.C.1.I.1 Decontaminate

DECONTAMINATE 243-G1 LCT/MM			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION

1	Opns.	DRAIN_V	<p>LCT drained to the sump.</p> <p>Verified by:_____ Date:_____</p> <p>Liquid remaining in the LCT/Mixer module has been evaporated.</p> <p>Verified by:_____ Date:_____</p> <p>The surge tank is empty with no standing water.</p> <p>Verified by:_____ Date:_____</p> <p>The Moyno pump is empty with no standing water.</p> <p>Verified by:_____ Date:_____</p> <p>All other tanks and lines drained.</p> <p>Verified by:_____ Date:_____</p>
2	Opns.	DECON_P	<p>All permanent radiation zones decontaminated and released.</p> <p>Verified by:_____ Date:_____</p>
3	Opns.	DECON_T	<p>All temporary surface contamination areas decontaminated and released.</p> <p>Verified by:_____ Date:_____</p>

4	Opns.	DISPOSE_D	Radioactive low-level or mixed waste disposed in accordance with appropriate procedures. Verified by:_____ Date:_____
5	Opns.	RADSURV	Final radiological surveys complete. Map placed into shutdown record file. Verified by:_____ Date:_____
6	Opns.	HAZID	Remaining hazards identified and recorded as part of the deactivation file. Verified by:_____ Date:_____

D1.C.1.I.2 Deactivate Utilities

Deactivate 243-G1 LCT/MM			
Item	Assignee	Criteria	Description
1	Maint.	ELECT	The lighting circuits fed from PP1 circuits 10, 14, and 16 remain energized. Verified by:_____ Date:_____
2	Maint.	AIREXH	Install plug in exhaust duct. Verified by:_____ Date:_____ Install plug on inlet duct. Verified by:_____ Date:_____

D1.C.1.I.3 Close

CLOSE 243-G1 LCT/MM			
Item	Assignee	Criteria	Description
1	Maint.	EFFLUENT	<p>All lines leading from the facility are plugged.</p> <p>Verified by:_____ Date:_____</p>
2	Opns.	JANSUP	<p>Janitor supplies removed.</p> <p>Verified by:_____ Date:_____</p>
3	Maint.	SPAREP	<p>All spare parts, tools and equipment removed.</p> <p>Verified by:_____ Date:_____</p>
4	Maint.	ROOF	<p>Roofing will be accomplished by the installation of the cover by work package 2N-90-02660.</p> <p>Verified by:_____ Date:_____</p> <p>Pipe gallery covered with the rubber mat to prevent in-leakage.</p> <p>Verified by:_____ Date:_____</p>
5	Maint.	CLOSE	<p>Pipelines capped after being blown out.</p> <p>Verified by:_____ Date:_____</p> <p>VID-01 camera re-installed.</p> <p>Verified by:_____ Date:_____</p>

CLOSE 243-G1 LCT/MM			
Item	Assignee	Criteria	Description
6	Opns.	RADPOST	Labels placed on the mat covering the pipe chase indicating possible contamination. Verified by:_____ Date:_____
7	Opns.	RADPOST	Labels on the LCT/MM cover should indicate survey readings. Verified by:_____ Date:_____
8	Opns.	INVENTORY	All remaining process equipment inventoried. Verified by:_____ Date:_____
9	Opns.	HOUSEK	Facility in good order. Verified by:_____ Date:_____
10	Maint.	ROOF GP_COVER	Metal cover over the LCT/MM in place. Verified by:_____ Date:_____
11	Opns.	RADPOST	Labels placed at the entrances indicating that there is contamination in the pit. Verified by:_____ Date:_____
12	Opns.	LOCK	Doors locked and all keys accounted for. Verified by:_____ Date:_____

CLOSE 243-G1 LCT/MM			
Item	Assignee	Criteria	Description
13	Opns.	S&MPLAN	Cover blocks remain off so that lighting and visual surveillance can be maintained. Verified by:_____ Date:_____

D1.C.1.J 243-G1A: Motor Pump Pit

D1.C.1.J.1 Decontaminate

DECONTAMINATE 243-G1A MOTOR PUMP PIT			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Maint.	DRAIN_V	All water lines drained. Verified by:_____ Date:_____
2	Opns.	DECON_P	All permanent radiation zones decontaminated and released. Verified by:_____ Date:_____
3	Opns.	DECON_T	All temporary surface contamination areas decontaminated and released. Verified by:_____ Date:_____
4	Opns.	DISPOSE_D	Radioactive low-level or mixed waste disposed in accordance with appropriate procedures. Verified by:_____ Date:_____

DECONTAMINATE 243-G1A MOTOR PUMP PIT			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
5	Opns.	DISPOSE_C	Hazardous materials disposed or dispositioned Verified by:_____ Date:_____
6	Opns.	HAZID	Lead shielding in the motor pit is quantified, identified, and recorded in the shutdown file. Verified by:_____ Date:_____
7	Opns.	RADSURV	Final radiological surveys complete. Map placed into shutdown record file. Verified by:_____ Date:_____
8	Opns.	PITS	None of the effluent streams going to the French drain have ever been contaminated. Verified by:_____ Date:_____

D1.C.1.J.2 Deactivate Utilities

DEACTIVATE 243-G1A MOTOR PUMP PIT			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Maint.	ELECT	The lighting circuits fed from PPI circuits 2 and 4 located in the electrical equipment module remain energized. Verified by:_____ Date:_____

DEACTIVATE 243-G1A MOTOR PUMP PIT			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
2	Maint.	AIREXH	Pipe plug on duct installed. Verified by:_____ Date:_____

D1.C.1.J.3 Close

CLOSE 243-G1A MOTOR PUMP PIT			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Opns.	JANSUP	Janitor supplies removed. Verified by:_____ Date:_____
2	Maint.	SPAREP	All spare parts, tools and equipment removed. Verified by:_____ Date:_____
3	Maint.	ROOF	Roofing is in good repair with no leaks. Verified by:_____ Date:_____
4	Maint.	SEAL	Hole around conduit penetration on southside, upper left hand corner of the sound enclosure is sealed. Verified by:_____ Date:_____
5	Maint.	SEAL	Reseal joints and repair cracks on pipe gallery. Verified by:_____ Date:_____

CLOSE 243-G1A MOTOR PUMP PIT			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
6	Opns.	RADPOST	If contamination is shown to exist, then the motor pit sump should be tagged with radiation stickers and the radiation level listed. Verified by:_____ Date:_____
7	Opns.	INVENTORY	All remaining equipment inventoried. Verified by:_____ Date:_____
8	Opns.	HOUSEK	Facility in good order. Verified by:_____ Date:_____
9	Maint.	SEAL	Vent into the Isolok Sampler is present. Verified by:_____ Date:_____
10	Opns.	LOCK	Doors locked and all keys accounted for. Verified by:_____ Date:_____
11	Popella	PROJ	Complete the glovebox in motor pump pit engineering study and document both status of project and future plans. Verified by:_____ Date:_____
12	Maint.	S&MPLAN	HVAC systems are functioning. Verified by:_____ Date:_____

D1.C.1.K 243-G2 Dry Blend Module

D1.C.1.K.1 Deactivate Utilities

DEACTIVATE 243-G2 DRY BLEND MODULE			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Maint.	ELECT	<p>The lighting circuits fed from PP1 circuits 1, 3, and 5 located in the electrical equipment module remain energized.</p> <p>Verified by: _____ Date: _____</p>

D1.C.1.K.2 Decontaminate

DECONTAMINATE 243-G2 DRY BLEND MODULE			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Opns.	AIREXH	<p>The day bin vent dryer emptied of desiccant. and the interior vacuumed.</p> <p>Verified by: _____ Date: _____</p> <p>Tramp material drum empty.</p> <p>Verified by: _____ Date: _____</p>
2	Opns.	DECON_P	<p>Baghouse area decontaminated.</p> <p>Verified by: _____ Date: _____</p>
3	Opns.	DECON_T	<p>All temporary surface contamination areas decontaminated and released.</p> <p>Verified by: _____ Date: _____</p>

DECONTAMINATE 243-G2 DRY BLEND MODULE			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
4	Opns.	DISPOSE_D	Radioactive low-level or mixed waste disposed in accordance with appropriate procedures. Verified by:_____ Date:_____
5	Opns.	DISPOSE_C	Dispose of the desiccant from the day bin vent dryer. Verified by:_____ Date:_____
			Dispose of the dry material in the tramp material drum. Verified by:_____ Date:_____
6	Opns.	HAZID	Remaining hazards identified and recorded as part of the deactivation file. Verified by:_____ Date:_____
7	Opns.	RADSURV	Final radiological surveys complete. Map placed into shutdown record file. Verified by:_____ Date:_____

D1.C.1.K.3 Close

CLOSE 243-G2 DRY BLEND MODULE			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Opns.	JANSUP	<p>Janitor supplies removed.</p> <p>Verified by:_____ Date:_____</p>
2	Maint.	STRUCT	<p>Complete suspect materials identification to ensure facility integrity.</p> <p>Verified by:_____ Date:_____</p>
3	Maint.	SPAREP	<p>All spare parts, tools and equipment removed.</p> <p>Verified by:_____ Date:_____</p>
4	Yoakum	SEAL	<p>Replace the rubber covers on the shaker with metal covers.</p> <p>Verified by:_____ Date:_____</p> <p>Replace the rubber and canvas boots with metal covers.</p> <p>Verified by:_____ Date:_____</p> <p>Secure the flapper vent on the dry blend bin.</p> <p>Verified by:_____ Date:_____</p>

CLOSE 243-G2 DRY BLEND MODULE			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
5	Maint.	CLOSE	<p>Valve M23 closed.</p> <p>Verified by:_____ Date:_____</p> <p>Elephant trunk from transfer conveyor removed and sheet metal cover placed over conveyor opening.</p> <p>Verified by:_____ Date:_____</p> <p>Cam lock cap placed on truck transfer line.</p> <p>Verified by:_____ Date:_____</p> <p>Cam Lock cap placed on transport blower outlet.</p> <p>Verified by:_____ Date:_____</p>
6	Maint.	RADPOST	<p>Radiological areas posted and in full compliance with WHC-CM-1-6.</p> <p>Verified by:_____ Date:_____</p>
7	Opns.	INVENTORY	<p>All remaining equipment inventoried.</p> <p>Verified by:_____ Date:_____</p>
8	Opns.	HOUSEK	<p>Facility in good order.</p> <p>Verified by:_____ Date:_____</p>

CLOSE 243-G2 DRY BLEND MODULE			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
9	Opns.	LOCK	Doors locked and all keys accounted for. Verified by:_____ Date:_____
10	Yoakum	STRUCT	GPF tower painting is complete. Verified by:_____ Date:_____

D1.C.2 Final Safety Analysis Report Permits and Compliance**D1.C.2.A Gather/Inventory/Store Documents**

GATHER/INVENTORY/STORE FSAR			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Shapley	FSAR	FSAR documents inventoried and filed at the DMF Control Room. Verified by:_____ Date:_____
2	Claghorn	FSAR	FSAR changes related to the hydrogen issue statused and filed at the DMF Control Room. Verified by:_____ Date:_____

D1.C.2.B Safety Assessment

SAFETY ASSESSMENT			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Shapley	FSAR	Hazards Identification and Evaluation revised to provide safety basis for the facility cold standby mode. Verified by:_____ Date:_____

D1.C.2.C Issue WHC-Approved FSAR

ISSUE FSAR			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Shapley	FSAR	GTF FSAR issued as an impact level 4 document. Verified by:_____ Date:_____

D1.C.2.D Permits and Compliance

ISSUE FSAR			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Gretsinger	PERMITS	Disposition of permits is established. Verified by:_____ Date:_____

D1.C.3 Technology Closeout**D1.C.3.A Lysimeter Removal**

LYSIMETER REMOVAL			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Shade	PROJ	PNL lysimeter removed and disposed. Verified by:_____ Date:_____

D1.C.3.B Complete NDT Work and Characterization

DEACTIVATE PNL AND OAK RIDGE RESEARCH			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Kruger	PROJ	Remaining nondestructive testing equipment acquired and transferred to another program. Verified by:_____ Date:_____

DEACTIVATE PNL AND OAK RIDGE RESEARCH			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
2	Nguyen	CHAR	Characterization activities for AP-102, AP-105, and AP-106 complete. Verified by:_____ Date:_____

D1.C.3.C Cold Cap Demolition

COLD CAP DEMOLITION			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
3	Bledsoe	PROJ	Demonstration cold cap demolished and disposed. Verified by:_____ Date:_____

D1.C.4 Performance Assessment (PA) Close Out

DEACTIVATE WORK ON THE PERFORMANCE ASSESSMENT			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Shade	PROJ	Performance assessment approved by DOE-HQ. Verified by:_____ Date:_____

D1.C.5 Project Closeout

DEACTIVATE MISCELLANEOUS PROJECTS			
Item	Assignee	Criteria	Description
1	Bolinger	PROJ	Design changes for the long-term leachate system to accommodate frequent changeout of the catalytic combiner have been incorporated. Verified by:_____ Date:_____

DEACTIVATE MISCELLANEOUS PROJECTS			
Item	Assignee	Criteria	Description
2	Bolinger	PROJ	All documents pertinent to the long-term leachate handling system have been inventoried, statused and filed at the DMF control room. Verified by:_____ Date:_____
3	Wells	PROJ	Procurement activities for the short-term and excess liquid pumps are complete. Disposition of pumps has been determined. Verified by:_____ Date:_____
4	Wells	PROJ	KEH fabrication and assembly activities for the short term leachate and excess liquid pump assemblies are terminated. Assembly documents inventoried and filed at the DMF Control Room. Verified by:_____ Date:_____
5	Stringer	PROJ	ECN to replace the existing UPS and panelboard CP-1 drafted and filed at the DMF Control Room. All other documents pertinent to the ECN inventoried and file at the DMF Control Room. Verified by:_____ Date:_____
6	Stringer	PROJ	The electrical evaluation of the GPF statused. All existing documents pertinent to the project inventoried and filed at the DMF Control Room. Verified by:_____ Date:_____

DEACTIVATE MISCELLANEOUS PROJECTS			
Item	Assignee	Criteria	Description
7	Parazin	PROJ	<p>The ECN for the component analysis section of the DOE 6430.1A Compliance Analysis Report is released.</p> <p>Verified by:_____ Date:_____</p>
8	Jimenez	PROJ	<p>WHC-SD-WM-ES-247, "Design and Operation of the Grout Vault EW Removal System," released for distribution.</p> <p>Verified by:_____ Date:_____</p>
9	Jimenez	PROJ	<p>WHC-SD-WM-ES-196, "Chemical Addition to Grout Waste Feed," released for distribution.</p> <p>Verified by:_____ Date:_____</p>
10	Jimenez	PROJ	<p>New sidewalks serving trailers is complete.</p> <p>Verified by:_____ Date:_____</p>

D1.C.6 Grout Disposal Facility

D1.C.6.A Vault 101

D1.C.6.A.1 Decontamination

DECONTAMINATE VAULT 101			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Opns.	DECON_P	All permanent radiation zones decontaminated and released. Verified by:_____ Date:_____
2	Opns.	DECON_T	All temporary surface contamination areas decontaminated and released. Verified by:_____ Date:_____
3	Opns.	DISPOSE_D	Radioactive low-level or mixed waste disposed in accordance with appropriate procedures. Verified by:_____ Date:_____
4	Opns.	DISPOSE_C	Hazardous materials disposed or dispositioned Verified by:_____ Date:_____
5	Opns.	HAZID	Remaining hazards identified and recorded as part of the deactivation file. Verified by:_____ Date:_____
6	Opns.	RADSURV	Final radiological surveys complete. Map placed into shutdown record file. Verified by:_____ Date:_____

D1.C.6.A.2 Deactivate

DEACTIVATE VAULT 101			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Maint.	DEACT	Wooden platform on Vault 101 has been removed. Verified by:_____ Date:_____

D1.C.6.A.3 Close

CLOSE VAULT 101			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Opns.	EFFLUENT	Valve FV-W31 on the grout discharge jumper locked in the AC position. Verified by:_____ Date:_____
2	Maint.	EFFLUENT	The grout feed line and excess water transfer line still need are cut at the vault pit and grouted in. Verified by:_____ Date:_____
3	Opns.	SPAREP	All spare parts, tools and equipment removed. Verified by:_____ Date:_____
4	Maint.	RADPOST	Radiological areas posted and in full compliance with WHC-CM-1-6. Verified by:_____ Date:_____

CLOSE VAULT 101			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
5	Opns.	INVENTORY	All remaining equipment inventoried. Verified by: _____ Date: _____
6	Opns.	HOUSEK	Facility in good order. Verified by: _____ Date: _____
7	Opns.	LOCK	Doors locked and all keys accounted for. Verified by: _____ Date: _____

D1.C.6.B Vaults 102-105

D1.C.6.B.1 Deactivate Utilities

DEACTIVATE VAULTS 102 THROUGH 105			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Maint.	ZERO_E	De-energize the 13.8Kv to the vaults at the pole disconnect C8X136. Verified by: _____ Date: _____
2	Maint.	AIREXH	Install cover on top of exhaust stack. Verified by: _____ Date: _____ Exhauster @ Vault 102 & 103, replace screen on exhaust outlet with smaller mesh screen. Verified by: _____ Date: _____

DEACTIVATE VAULTS 102 THROUGH 105			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
3	Yoakum	DEACT	<p>Power terminated at the transformers.</p> <p>Vault 102</p> <p>Verified by: _____ Date: _____</p> <p>Vault 103</p> <p>Verified by: _____ Date: _____</p> <p>Vault 104</p> <p>Verified by: _____ Date: _____</p> <p>Vault 105</p> <p>Verified by: _____ Date: _____</p>
4	Maint.	SPAREP	<p>Wires disconnected (if external), rolled up and protected against the elements (cables formerly attached to the PIH go inside the PIH). This includes all instrument cables such as motor-operated valve (MOV) lines, sonic probe.</p> <p>Verified by: _____ Date: _____</p>
5	Maint.	DEACT	<p>Thermocouple wires from terminal boxes 102, 102a, 102b, 103, 103a, 103b disconnected and placed in storage. Box connector ends taped or capped.</p> <p>Verified by: _____ Date: _____</p>

DEACTIVATE VAULTS 102 THROUGH 105			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
6	Maint.	DEACT	Thermocouple power disconnected from the outlet. Verified by: _____ Date: _____

D1.C.6.B.2 Close

CLOSE VAULTS 102 THROUGH 105			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Opns.	INVENTORY	Ensure everything is properly tagged before removing. Vault 102 Verified by: _____ Date: _____ Vault 103 Verified by: _____ Date: _____ Vault 104 Verified by: _____ Date: _____ Vault 105 Verified by: _____ Date: _____
2	Opns.	SPAREP	Pit leak detectors picked up and stored. Verified by: _____ Date: _____

CLOSE VAULTS 102 THROUGH 105			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
3	Maint.	SEAL	<p>C6381P, C6381P removed.</p> <p>Vault 104</p> <p>Verified by:_____ Date:_____</p> <p>Vault 105</p> <p>Verified by:_____ Date:_____</p>
4	Maint.	SPAREP	<p>Sonic probes from vaults 102 and 103 risers 37-40 removed.</p> <p>Verified by:_____ Date:_____</p>
5	Opns.	SPAREP	<p>The two jumpers (MOV-08) located on vaults 102 and 103 picked up and stored.</p> <p>Verified by:_____ Date:_____</p>
6	Maint.	SPAREP	<p>All wires attached to the exhauster including the inlets and the outlet on vault 102 and 103 removed and placed in storage with the equipment.</p> <p>Verified by:_____ Date:_____</p>
7	Opns.	SPAREP	<p>Five portable lights on vaults 102-104 transferred to excess.</p> <p>Verified by:_____ Date:_____</p>

CLOSE VAULTS 102 THROUGH 105			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
8	Opns.	SPAREP	Eight wire chases at vault 102 transferred to excess. Verified by:_____ Date:_____
9	Opns.	SPAREP	Other pieces of equipment being stored on vault 102 and 103 transferred to excess to include the camera riser poles, pit drain plug assemblies. Verified by:_____ Date:_____
10	Opns.	SPAREP	Transformers at vaults 102, 103, 104, (C6380P, C6381P, C6382P) transferred if needed elsewhere. Verified by:_____ Date:_____
11	Opns.	JANSUP	Janitor supplies removed. Verified by:_____ Date:_____
12	Maint.	CLOSE	Plug 3/4" drain on bottom of the fan housing, below the stack. Verified by:_____ Date:_____

CLOSE VAULTS 102 THROUGH 105			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
13	Opns.	ROOF	<p>Blind flanges on manholes and threads greased for future removal of the flanges.</p> <p>Vault 102</p> <p>Verified by:_____ Date:_____</p> <p>Vault 103</p> <p>Verified by:_____ Date:_____</p> <p>Vault 104</p> <p>Verified by:_____ Date:_____</p> <p>Vault 105</p> <p>Verified by:_____ Date:_____</p>

CLOSE VAULTS 102 THROUGH 105			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
14	Maint.	CLOSE	<p>Gaskets on camera risers and bolted shut. Vault 102.</p> <p>Verified by:_____ Date:_____</p> <p>Vault 103.</p> <p>Verified by:_____ Date:_____</p> <p>Vault 104.</p> <p>Verified by:_____ Date:_____</p> <p>Vault 105.</p> <p>Verified by:_____ Date:_____</p>
15	Maint.	CLOSE	<p>Place blind flanges on level risers: Vault 102.</p> <p>Verified by:_____ Date:_____</p> <p>Vault 103.</p> <p>Verified by:_____ Date:_____</p> <p>Vault 104.</p> <p>Verified by:_____ Date:_____</p> <p>Vault 105.</p> <p>Verified by:_____ Date:_____</p>

CLOSE VAULTS 102 THROUGH 105			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
16	Maint.	SEAL	<p>Pipes in all the pits on all the vaults. are blanked with cork/rubber stoppers. Coverblocks in place to provide more security.</p> <p>Vault 102</p> <p>Verified by:_____ Date:_____</p> <p>Vault 103</p> <p>Verified by:_____ Date:_____</p> <p>Vault 104</p> <p>Verified by:_____ Date:_____</p> <p>Vault 105</p> <p>Verified by:_____ Date:_____</p>

CLOSE VAULTS 102 THROUGH 105			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
17	Maint.	CLOSE	<p>Cover blocks in place and sealed.</p> <p>Vault 102.</p> <p>Verified by: _____ Date: _____</p> <p>Vault 103.</p> <p>Verified by: _____ Date: _____</p> <p>Vault 104.</p> <p>Verified by: _____ Date: _____</p> <p>Vault 105.</p> <p>Verified by: _____ Date: _____</p>
18	Maint.	CLOSE	<p>Replace cover on duplex receptacle under exhaust plenums.</p> <p>Verified by: _____ Date: _____</p>
19	Maint.	RADPOST	<p>Radiological areas posted and in full compliance with WHC-CM-1-6.</p> <p>Verified by: _____ Date: _____</p>
20	Opns.	INVENTORY	<p>All remaining equipment inventoried.</p> <p>Verified by: _____ Date: _____</p>

CLOSE VAULTS 102 THROUGH 105			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
21	Opns.	HOUSEK	Facility in good order. Verified by:_____ Date:_____
22	Opns.	LOCK	Doors locked and all keys accounted for. Verified by:_____ Date:_____
23	Maint.	S&MPLAN	Cathodic protection installed and operating. Verified by:_____ Date:_____

D1.C.7 Dry Material Facilities

D1.C.7.A.1 Deactivate Utilities

DEACTIVATE 2400-E CONTROL ROOM			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Maint.	ZERO_ E	De-energize the following: <u>Motor Control Center:</u> AC-1 Verified by:_____ Date:_____ AC-2 Verified by:_____ Date:_____ AC-3 Verified by:_____ Date:_____

DEACTIVATE 2400-E CONTROL ROOM			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
			Blender
			Verified by: _____ Date: _____

DEACTIVATE 2400-E CONTROL ROOM			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
			Discharger
			Verified by: _____ Date: _____
			Vent Fan No. 1
			Verified by: _____ Date: _____
			Vent Fan No. 2
			Verified by: _____ Date: _____
			Vent Fan No. 3
			Verified by: _____ Date: _____
			Vent Fan No. 4
			Verified by: _____ Date: _____
			Vent Fan No. 5
			Verified by: _____ Date: _____
			Booster Fan
			Verified by: _____ Date: _____
			Loadout Hoist
			Verified by: _____ Date: _____

DEACTIVATE 2400-E CONTROL ROOM			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
			AC-1 Cooling Fan
			Verified by: _____ Date: _____
			AC-2 Cooling Fan
			Verified by: _____ Date: _____
			<u>Panel P2</u>
			Circuit 1
			Verified by: _____ Date: _____
			Circuit 11
			Verified by: _____ Date: _____
			Circuit 13
			Verified by: _____ Date: _____
			Circuit 15
			Verified by: _____ Date: _____

DEACTIVATE 2400-E CONTROL ROOM			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
			Circuit 17
			Verified by: _____ Date: _____
			Circuit 21
			Verified by: _____ Date: _____
			Circuit 25
			Verified by: _____ Date: _____
			Circuit 27
			Verified by: _____ Date: _____
			Circuit 29
			Verified by: _____ Date: _____

DEACTIVATE 2400-E CONTROL ROOM			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
			Circuit 2
			Verified by: _____ Date: _____
			Circuit 16
			Verified by: _____ Date: _____
			Circuit 18
			Verified by: _____ Date: _____
			Circuit 22
			Verified by: _____ Date: _____
			Circuit 24
			Verified by: _____ Date: _____

DEACTIVATE 2400-E CONTROL ROOM			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
			<p>Circuit 26</p> <p>Verified by: _____ Date: _____</p> <p>Circuit 28</p> <p>Verified by: _____ Date: _____</p> <p>Circuit 30</p> <p>Verified by: _____ Date: _____</p>
			<p><u>Panel P4</u></p> <p>Circuit 5, 7</p> <p>Verified by: _____ Date: _____</p> <p>Circuit 19, 21, 23</p> <p>Verified by: _____ Date: _____</p> <p>Circuit 37, 39, 41</p> <p>Verified by: _____ Date: _____</p>

DEACTIVATE 2400-E CONTROL ROOM			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
			<p>Circuit 16</p> <p>Verified by:_____ Date:_____</p> <p>Circuit 18</p> <p>Verified by:_____ Date:_____</p> <p>Circuit 20</p> <p>Verified by:_____ Date:_____</p> <p>Circuit 22</p> <p>Verified by:_____ Date:_____</p> <p>Circuit 24</p> <p>Verified by:_____ Date:_____</p>
4	Doeler	DEACT	<p>Power to the fire alarm system remains on.</p> <p>Verified by:_____ Date:_____</p> <p>Area lighting which is supplied by the power panels in the control room remains on.</p> <p>Verified by:_____ Date:_____</p>

DEACTIVATE 2400-E CONTROL ROOM			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
8	Opns.	ALARM	All alarms except the fire alarm deactivated. Verified by:_____ Date:_____

D1.C.7.A.2 Close

CLOSE 2400-E CONTROL ROOM			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Opns.	JANSUP	Janitor supplies removed. Verified by:_____ Date:_____
2	Maint.	SPAREP	All spare parts, tools and equipment removed. Verified by:_____ Date:_____
3	Maint.	ROOF	Roofing is in good repair with no leaks. Verified by:_____ Date:_____
4	Maint.	SEAL	Seal around conduit on the west end of the southside, approx.10' above ground. Verified by:_____ Date:_____
5	Maint.	SEAL	Caulk around building where siding meets concrete pad. Verified by:_____ Date:_____

CLOSE 2400-E CONTROL ROOM			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
6	Opns.	INVENTORY	All remaining equipment inventoried. Verified by:_____ Date:_____
7	Opns.	HOUSEK	Facility in good order. Verified by:_____ Date:_____
8	Opns.	LOCK	Doors locked and all keys accounted for. Verified by:_____ Date:_____
9	Maint.	S&MPLAN	HVAC in good order. Verified by:_____ Date:_____

D1.C.7.B 2451-E Substation

D1.C.7.B.1 Deactivate Utilities

DEACTIVATE 2451-E SUBSTATION			
Item	Assignee	Criteria	Description
1	Maint.	ZERO_E	De-energize the 400 Amp Car Puller breaker. Verified by:_____ Date:_____
2	Yoakum	ELECT	The lunch room feeder breaker for the HPT trailer remains energized. The MCC remains energized through the F8X601 main breaker. Verified by:_____ Date:_____

D1.C.7.B.2 Close

CLOSE 2451-E SUBSTATION			
Item	Assignee	Criteria	Description
1	Opns.	JANSUP	Janitor supplies removed. Verified by:_____ Date:_____
2	Maint.	SPAREP	All spare parts, tools and equipment removed. Verified by:_____ Date:_____
3	Opns.	INVENTORY	All remaining equipment inventoried. Verified by:_____ Date:_____
4	Opns.	HOUSEK	Facility in good order. Verified by:_____ Date:_____
5	Opns.	LOCK	Doors locked and all keys accounted for. Verified by:_____ Date:_____

D1.C.7.C 2403-EA AC2/AC3 Compressor Building

D1.C.7.C.1 Deactivate Utilities

DEACTIVATE 2403-EA AC2/AC3 COMPRESSOR BUILDING			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Maint.	DRAIN_V	All air-compressor receiver tanks are drained of condensate. Verified by:_____ Date:_____
2	Maint.	DRAIN_V	All air dryer systems (including in-line filters/dryers) drained of condensate. Verified by:_____ Date:_____

D1.C.7.C.2 Close

CLOSE 2403-EA AC2/AC3 COMPRESSOR BUILDING			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Opns.	JANSUP	Janitor supplies removed. Verified by:_____ Date:_____
2	Maint.	SPAREP	All spare parts, tools and equipment removed. Verified by:_____ Date:_____
3	Maint.	ROOF	Roofing is in good repair with no leaks. Verified by:_____ Date:_____

CLOSE 2403-EA AC2/AC3 COMPRESSOR BUILDING			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
4	Maint.	SEAL	Seal around conduit on the northside, approx 9' above ground, between the receiver tanks. Verified by:_____ Date:_____ Caulk around building where siding meets concrete pad. Verified by:_____ Date:_____
5	Opns.	INVENTORY	All remaining equipment inventoried. Verified by:_____ Date:_____
6	Opns.	HOUSEK	Facility in good order. Verified by:_____ Date:_____
7	Opns.	LOCK	Doors locked and all keys accounted for. Verified by:_____ Date:_____

D1.C.7.D 2404-E AC1 Compressor Building

D1.C.7.D.1 Deactivate Utilities

DEACTIVATE 2404-E AC1 COMPRESSOR BUILDING			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Maint.	DRAIN_V	<p>Drain all air-compressor receiver tanks of condensate.</p> <p>Verified by:_____ Date:_____</p> <p>Drain all air dryer systems (including in-line filters/dryers) of condensate.</p> <p>Verified by:_____ Date:_____</p>
2	Maint.	ELECT	<p>The lighting circuit fed from breaker 8 in the Control Room Panel P4 remains energized.</p> <p>Verified by:_____ Date:_____</p>
3	Maint.	AIREXH	<p>Air compressor is de-energized.</p> <p>Verified by:_____ Date:_____</p>

D1.C.7.D.2 Close

CLOSE 2404-E AC1 COMPRESSOR BUILDING			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Opns.	JANSUP	Janitor supplies removed. Verified by: _____ Date: _____
2	Maint.	SPAREP	All spare parts, tools and equipment removed. Verified by: _____ Date: _____
3	Maint.	ROOF	Roofing is in good repair with no leaks. Verified by: _____ Date: _____
4	Maint.	SEAL	Caulk around building where siding meets concrete pad. Verified by: _____ Date: _____
5	Opns.	INVENTORY	All remaining equipment inventoried. Verified by: _____ Date: _____
6	Opns.	HOUSEK	Facility in good order. Verified by: _____ Date: _____
7	Opns.	LOCK	Doors locked and all keys accounted for. Verified by: _____ Date: _____

D1.C.7.E Dry Material Storage Bins

D1.C.7.E.1 Decontaminate

DECONTAMINATE THE DRY MATERIAL STORAGE BINS			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	McMath	DM EMPTY	No material in the storage bins. Fly Ash Bin Verified by: _____ Date: _____ Cement Bin Verified by: _____ Date: _____ Attapulgate Bin Verified by: _____ Date: _____ Pottery clay bin Verified by: _____ Date: _____ Blend Storage Bin Verified by: _____ Date: _____

DECONTAMINATE THE DRY MATERIAL STORAGE BINS			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
2	Gretsinger	DISPOSE_C	<p>The following are properly disposed. Dry materials.</p> <p>Verified by:_____ Date:_____</p> <p>ATF Oil from the compressors.</p> <p>Verified by:_____ Date:_____</p> <p>Desiccant from the air dryers.</p> <p>Verified by:_____ Date:_____</p>
3	Opns.	HAZID	<p>Remaining hazards identified and recorded as part of the deactivation file.</p> <p>Verified by:_____ Date:_____</p>

D1.C.7.E.2 Deactivate Utilities

DEACTIVATE THE DRY MATERIAL STORAGE BINS			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Maint.	ELECT	<p>The lighting circuits fed from breakers 1, 2, 3, 4, and 6 in the Control Room Panel P4 remain energized.</p> <p>Verified by:_____ Date:_____</p>

D1.C.7.E.3 Close

CLOSE THE DRY MATERIAL STORAGE BINS			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Opns.	JANSUP	<p>Janitor supplies removed.</p> <p>Verified by: _____ Date: _____</p>
2	Maint.	SPAREP	<p>All spare parts, tools and equipment removed.</p> <p>Verified by: _____ Date: _____</p>
3	Maint.	ROOF	<p>Roofing is in good repair with no leaks.</p> <p>Verified by: _____ Date: _____</p>
4	Maint.	SEAL	<p>Place small mesh netting over vehicle drive-through to prevent birds from nesting in this area.</p> <p>Verified by: _____ Date: _____</p>
5	Maint.	SEAL	<p>Area where the air slides penetrate the walls of the silos/bins sealed.</p> <p>Verified by: _____ Date: _____</p> <p>Blender sampler opening capped.</p> <p>Verified by: _____ Date: _____</p> <p>Truck unloading sampler capped.</p> <p>Verified by: _____ Date: _____</p>

CLOSE THE DRY MATERIAL STORAGE BINS			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
6	Opns.	INVENTORY	All remaining equipment inventoried. Verified by:_____ Date:_____
7	Opns.	HOUSEK	Facility in good order. Verified by:_____ Date:_____
8	Opns.	LOCK	Doors locked and all keys accounted for. Verified by:_____ Date:_____

D1.C.7.F 2402-EA Railcar Unloading Pit

D1.C.7.F.1 Deactivate Utilities

DEACTIVATE 2402-EA RAILCAR UNLOADING PIT			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Opns.	DRAIN_V	No water in the receiving pump pit and the batch pump pit. Verified by:_____ Date:_____
2	Maint.	ELECT	The lighting circuits fed from breaker 10 in the Control Room Panel P4 remain energized. Verified by:_____ Date:_____

DEACTIVATE 2402-EA RAILCAR UNLOADING PIT			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
3	Maint.	DEACT	<p>On Railcar Platform place restraints, so Railcar & Truck gates will not lower due to hydraulic bleeding.</p> <p>Truck gate.</p> <p>Verified by:_____ Date:_____</p> <p>Railcar gate.</p> <p>Verified by:_____ Date:_____</p>

D1.C.7.F.2 Close

CLOSE 2402-EA RAILCAR UNLOADING PIT			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Opns.	JANSUP	<p>Janitor supplies removed.</p> <p>Verified by:_____ Date:_____</p>
2	Maint.	SPAREP	<p>All spare parts, tools and equipment removed.</p> <p>Verified by:_____ Date:_____</p>
3	Maint.	ROOF	<p>Roofing is in good repair with no leaks.</p> <p>Verified by:_____ Date:_____</p>

CLOSE 2402-EA RAILCAR UNLOADING PIT			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
4	Maint.	SEAL	Cap sampler openings: Truck sampler: Verified by:_____ Date:_____ Railcar sampler: Verified by:_____ Date:_____
5	Opns.	INVENTORY	All remaining equipment inventoried. Verified by:_____ Date:_____
6	Opns.	HOUSEK	Facility in good order. Verified by:_____ Date:_____
7	Opns.	LOCK	Doors locked and all keys accounted for. Verified by:_____ Date:_____
8	Maint.	S&MPLAN	Capability to remove water from the receiving pump pit and the batch pump pit. Verified by:_____ Date:_____

D1.C.7.G 2402-EG Blend Pump Pit

D1.C.7.G.1 Deactivate Utilities

DEACTIVATE 2402-EG BLEND PUMP PIT			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Maint.	ELECT	<p>The lighting circuits fed from a breaker in the Control Room Panel P4 remains energized.</p> <p>Verified by:_____ Date:_____</p>

D1.C.7.G.2 Close

CLOSE 2402-EG BLEND PUMP PIT			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Opns.	JANSUP	<p>Janitor supplies removed.</p> <p>Verified by:_____ Date:_____</p>
2	Maint.	SPAREP	<p>All spare parts, tools and equipment removed.</p> <p>Verified by:_____ Date:_____</p>
3	Maint.	ROOF	<p>Roofing is in good repair with no leaks.</p> <p>Verified by:_____ Date:_____</p>
4	Maint.	SEAL	<p>Seal around transition chute.</p> <p>Verified by:_____ Date:_____</p>
5	Opns.	INVENTORY	<p>All remaining equipment inventoried.</p> <p>Verified by:_____ Date:_____</p>

CLOSE 2402-EG BLEND PUMP PIT			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
6	Opns.	HOUSEK	Facility in good order. Verified by:_____ Date:_____
7	Opns.	LOCK	Doors locked and all keys accounted for. Verified by:_____ Date:_____

D1.C.8 Feed Transfer System

D1.C.8.A Deactivate

DEACTIVATE FTS			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	Maint.	ZERO_E	De-energize the following: P-102-1 Verified by:_____ Date:_____ P-102-3 Verified by:_____ Date:_____ Rotation Mtr Verified by:_____ Date:_____
2	Doeler	ELECT	All remaining circuits will be turned over to Tank Farms. Verified by:_____ Date:_____

DEACTIVATE FTS			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
3	Maint.	WF_CUT	<p>Jumper that connects Nozzle E with the pump in pit 241-AP-102D removed.</p> <p>Verified by:_____ Date:_____</p> <p>Nozzle E blanked and the encasement drain outlet to the pit is plugged.</p> <p>Verified by:_____ Date:_____</p>

D1.C.8.B Close

CLOSE FTS			
ITEM	ASSIGNEE	CRITERIA	DESCRIPTION
1	McMath/ Mabry	RADPOST	Radiation posting on the FTS line from AP Tank Farm to the LCT/MM in place and compliant with WHC-CM-1-6.

D1.C.9 Reporting Requirements/Open Issues

Most of the following issues are TWRS Issue Management Program (TIMP) Quality, Environmental and Safety Tracking (QUEST) items.

UORs AND QUEST REPORTING			
Item	Assignee	Criteria	Description
1	Kison	UORS	<p>TIMP-93-0099-094 QUEST IAA-92-0017-SAF-F-17</p> <p>Placed in the "inactive" status.</p> <p>Verified by:_____ Date:_____</p>

2	Kison	UORS	<p>TIMP-93-0099-103 QUEST ISA-91-0002-GROUT-OB-17</p> <p>Placed in the "inactive" status.</p> <p>Verified by:_____ Date:_____</p>
3	Kison	UORS	<p>TIMP-93-0099-104 QUEST ISA-91-0002-GROUT-OB-18</p> <p>Placed in the "inactive" status.</p> <p>Verified by:_____ Date:_____</p>
4	Kison	UORS	<p>TIMP-93-0099-105 QUEST ISA-91-0002-GROUT-OB-19</p> <p>Placed in the "inactive" status.</p> <p>Verified by:_____ Date:_____</p>
5	Jimenez	UORS	<p>TIMP-93-0099-106 QUEST ISA-91-0002-GROUT-OB-21</p> <p>Issue closed.</p> <p>Verified by:_____ Date:_____</p>
6	Kison	UORS	<p>TIMP-93-0099-107 QUEST ISA-91-0002-GROUT-OB-23</p> <p>Placed in the "inactive" status.</p> <p>Verified by:_____ Date:_____</p>

7	Parazin	UORS	<p>TIMP-93-0099-110 QUEST ISA-91-0005-GROUT/ENG-F9</p> <p>Issue closed.</p> <p>Verified by:_____ Date:_____</p>
8	Kison	UORS	<p>TIMP-93-0099-116 QUEST ISA-92-0001-MT2-2.3</p> <p>Placed in the "inactive" status.</p> <p>Verified by:_____ Date:_____</p>
9	Doeler	UORS	<p>TIMP-93-0099-117 QUEST ISA-92-0003-GRT/FSAR-F-01</p> <p>Issue closed.</p> <p>Verified by:_____ Date:_____</p>
10	Kison	UORS	<p>TIMP-93-0099-118 QUEST ISA-92-0003-GRT/FSAR-F-03</p> <p>Placed in the "inactive" status.</p> <p>Verified by:_____ Date:_____</p>
11	Clemans	UORS	<p>TIMP-93-0099-119 QUEST ISA-92-0003-GRT/FSAR-F-04</p> <p>Placed in the "inactive" status.</p> <p>Verified by:_____ Date:_____</p>

12	Hundal	UORS	<p>TIMP-93-0099-120 QUEST ISA-92-0003-GRT/FSAR-F-05</p> <p>Responsibility for the compliance to fire codes transferred to group inheriting the office spaces.</p> <p>Verified by:_____ Date:_____</p>
13	Kison	UORS	<p>TIMP-93-0099-121 QUEST ISA-92-0003-GRT/FSAR-F-06</p> <p>Placed in the "inactive" status.</p> <p>Verified by:_____ Date:_____</p>
14	Doeler	UORS	<p>TIMP-93-0099-122 QUEST ISA-92-0003-GRT/FSAR-F-07</p> <p>Issue closed.</p> <p>Verified by:_____ Date:_____</p>
15	Kison	UORS	<p>TIMP-93-0099-123 QUEST ISA-92-0003-GRT/FSAR-F-08</p> <p>Placed in the "inactive" status.</p> <p>Verified by:_____ Date:_____</p>
16	Kison	UORS	<p>TIMP-93-0099-124 QUEST ISA-92-0003-GRT/FSAR-F-09</p> <p>Placed in the "inactive" status.</p> <p>Verified by:_____ Date:_____</p>

17	Kison	UORS	TIMP-93-0099-125 QUEST ISA-92-0003-GRT/FSAR-F-10 Placed in the "inactive" status. Verified by:_____ Date:_____
18	Kison	UORS	TIMP-93-0099-126 QUEST ISA-92-0003-GRT/FSAR-F-12 Placed in the "inactive" status. Verified by:_____ Date:_____
19	Kison	UORS	TIMP-93-0099-127 QUEST ISA-92-0006-GROUT-F-01 Placed in the "inactive" status. Verified by:_____ Date:_____
20	Kison	UORS	TIMP-93-0099-128 QUEST ISA-92-0006-GROUT-F-03 Placed in the "inactive" status. Verified by:_____ Date:_____
21	Kison	UORS	TIMP-93-0099-129 QUEST ISA-92-0006-GROUT-F-04 Placed in the "inactive" status. Verified by:_____ Date:_____

22	Kison	UORS	<p>TIMP-93-0099-130 QUEST ISA-92-0006-GROUT-F-06</p> <p>Placed in the "inactive" status.</p> <p>Verified by:_____ Date:_____</p>
23	Kison	UORS	<p>TIMP-93-0099-131 QUEST ISA-92-0006-GROUT-F-07</p> <p>Placed in the "inactive" status.</p> <p>Verified by:_____ Date:_____</p>
24	Kison	UORS	<p>TIMP-93-0099-132 QUEST ISA-92-0006-GROUT-F-08</p> <p>Placed in the "inactive" status.</p> <p>Verified by:_____ Date:_____</p>
25	Kison	UORS	<p>TIMP-93-0099-182 QUEST ISR-93-0521-200</p> <p>Issue closed.</p> <p>Verified by:_____ Date:_____</p>
26	Clemans	UORS	<p>TIMP-93-0099-282 QUEST ORT-91-1008-GROUT</p> <p>Issue closed.</p> <p>Verified by:_____ Date:_____</p>

27	Kison	UORS	TIMP-93-0099-409 QUEST RLW-91-0022-GHS-01 Placed in the "inactive" status. Verified by:_____ Date:_____
28	Kison	UORS	TIMP-93-0099-410 QUEST RLW-91-0022-GHS-02 Placed in the "inactive" status. Verified by:_____ Date:_____
29	Kison	UORS	TIMP-93-0099-411 QUEST RLW-91-0022-GHS-05 Placed in the "inactive" status. Verified by:_____ Date:_____
30	Kison	UORS	TIMP-93-0099-459 QUEST RRR-88-0000-AD-GROUT-005 Placed in the "inactive" status. Verified by:_____ Date:_____
31	Kison	UORS	TIMP-93-0099-460 QUEST RRR-88-0000-AD-GROUT-057 Placed in the "inactive" status. Verified by:_____ Date:_____

32	Kison	UORS	<p>TIMP-93-0099-461 QUEST RRR-88-0000-AD-GROUT-068</p> <p>Placed in the "inactive" status.</p> <p>Verified by:_____ Date:_____</p>
33	Kison	UORS	<p>TIMP-93-0099-462 QUEST RRR-88-0000-AD-GROUT-093</p> <p>Placed in the "inactive" status.</p> <p>Verified by:_____ Date:_____</p>
34	Kison	UORS	<p>TIMP-93-0099-463 QUEST RRR-88-0000-AD-GROUT-094</p> <p>Placed in the "inactive" status.</p> <p>Verified by:_____ Date:_____</p>
35	Yoakum	UORS	<p>TIMP-93-0099-600 QUEST SFP-92-0001-243G10-F-03</p> <p>Issue closed.</p> <p>Verified by:_____ Date:_____</p>
36	Yoakum	UORS	<p>TIMP-93-0099-615 QUEST SFP-93-0001-M0041-F-01</p> <p>Issue closed.</p> <p>Verified by:_____ Date:_____</p>

37	Hundal	UORS	<p>TIMP-93-0099-616 QUEST SFP-93-243-G4</p> <p>Issue transferred to new occupants of the office buildings.</p> <p>Verified by:_____ Date:_____</p>
38	Clemans	UORS	<p>TIMP-93-0999-090 QUEST NCR-0000-B08135</p> <p>Issue closed.</p> <p>Verified by:_____ Date:_____</p>
39	Kison	UORS	<p>Unusual Occurrence Report (mixer pump failure)</p> <p>Approved plan is in place.</p> <p>Verified by:_____ Date:_____</p>
40	Wood	PROG	<p>Defense Nuclear Facilities Safety Board (DNFSB) Recommendation 90-2</p> <p>Documents archived.</p> <p>Verified by:_____ Date:_____</p>
41	Jimenez	UORS	<p>Fire Hazards Analysis (FHA)</p> <p>New analysis issued.</p> <p>Verified by:_____ Date:_____</p>

APPENDIX E GROUT STANDBY/RESTART ORGANIZATION

The authors of this document, consisting of senior Grout personnel, have examined possible schemes for providing manpower to work Grout issues after the facilities have been deactivated. Each scheme is structured to implement the criteria given in Section 2.0 of the Deactivation Plan.

One option is to maintain a Grout organization until the Program has been terminated. The organization will consist of a manager and a few employees who will be responsible for maintaining the facilities while they are in standby status.

The other option is to completely dissolve the organization after the facilities have been deactivated. It is assumed that any work related to the Grout Facilities will be performed by Tank Farm personnel, possibly on a part time basis.

The work required to implement each option and the advantages and disadvantages of each are listed in the following table.

ACTIVITY	MAINTAIN GROUT UNIT	ABSORB GROUT INTO TANK FARMS
MIP	<p>The current MIP would be descoped to reflect a standby condition</p> <p>Advantages: As a separate document, the scope of the Grout MIP is very clear and unencumbered by the complexity of the Tank Farm Plan. If Grout is given a restart directive, it should be relatively simple to reactivate the current version of the MIP.</p> <p>Disadvantages: Once the MIP has been descoped, the maintenance of separate documents (a Grout and a Tank Farms MIP) will require more manpower than the maintenance of a single document.</p>	<p>The current MIP would be descoped to reflect a standby condition. It would be integrated as part of the Tank Farm MIP.</p> <p>Advantages: Many of the requirements for an MIP are satisfied by the Tank Farms Plan. Therefore, the Grout Plan shouldn't be much more than a small addition to the Tank Farm MIP.</p> <p>Disadvantages: The incorporation of Grout into the Tank Farm Plan could get complicated if numerous documents have to be revised to reflect a change in the scope of Tank Farm responsibilities. If Grout is given a restart directive, many of the revisions will have to be undone.</p>

ACTIVITY	MAINTAIN GROUT UNIT	ABSORB GROUT INTO TANK FARMS
<p>Administrative Procedures</p>	<p>Grout will maintain its current set of administrative procedures. Some of the procedures will have to be revised to reflect a standby status.</p> <p>Advantages: As a separate document, the scope of Grout's administrative procedures is very clear and unencumbered by the complexity of the Tank Farm procedures. If Grout is given a restart directive, it should be relatively simple to reactivate the current version of the Grout procedures.</p> <p>Disadvantages: Once the administrative procedures have been rewritten, the maintenance of separate documents (the Grout and the Tank Farms manual) will require more manpower than the maintenance of a single document.</p>	<p>The Tank Farm procedures would have to be augmented to include information that is specific to the Grout Facilities.</p> <p>Advantages: Many of the administrative procedures required by Westinghouse and DOE Orders are common to both the Tank Farms and Grout Facilities. Therefore, it may be more efficient to use one set of procedures for both facilities.</p> <p>Disadvantages: The incorporation of Grout into the Tank Farm manual could get complicated if numerous documents have to be revised to reflect a change in the scope of Tank Farm responsibilities. If Grout is given a restart directive, many of the revisions will have to be undone.</p>

ACTIVITY	MAINTAIN GROUT UNIT	ABSORB GROUT INTO TANK FARMS
<p>PM, Including Planning and Scheduling</p>	<p>The Grout standby/restart unit would do the planning and scheduling required to implement the various PMs. The crafts workers needed to perform the procedures would be borrowed from other organizations.</p> <p>Advantages: A Grout standby/restart unit should be able to focus on Grout-specific requirements better than a unit that works on Grout issues part time.</p> <p>Disadvantages: A Grout standby/restart unit may use manpower for work that is relatively unimportant to the TWRS.</p>	<p>Preventive maintenance would be planned, scheduled and performed by Tank Farm resources.</p> <p>Advantages: Tank Farm Operations will be free to prioritize all of its resources.</p> <p>Disadvantages: The maintenance of Grout Facilities will have very low priority. If someone isn't pushing Grout-specific issues, then the integrity of the facility may be questionable which will increase the complexity of a restart operation.</p>
<p>Surveillance Activities</p>	<p>The Grout standby/restart unit will have two operators to perform routine surveillance.</p> <p>Advantages: The operators will know the facility much better than generic Tank Farm personnel which will enhance the conduct of operations for Grout. The Grout operators will also feel some sense of ownership for the facility which will inhibit random vandalism and pilfering.</p> <p>Disadvantages: The operator position for Grout may be a job with little activity. It may be difficult to keep these operators employed efficiently for the next two years.</p>	<p>Tank Farm operators will perform the surveillance activities.</p> <p>Advantages: The Tank Farm operators will be efficiently employed within tank farms. Grout surveillance will be performed as time permits.</p> <p>Disadvantage: The Tank Farm operators will not feel any ownership for the facility which, based on past experience, could lead to increased vandalism and pilfering of materials and equipment.</p>

ACTIVITY	MAINTAIN GROUT UNIT	ABSORB GROUT INTO TANK FARMS
JCS	<p>Job control will be implemented under the Grout system.</p> <p>Advantages: The Grout system is far less complicated than the Tank Farm system due to vastly different scope and conditions in the field. The development of job packages would be done much more efficiently under the Grout unit.</p> <p>Disadvantages: The need for job control manpower for Grout will diminish with time. Manpower may not be used very efficiently after FY94.</p>	<p>Job control will be implemented under the Tank Farm system.</p> <p>Advantages: The coordination between Grout and Tank Farms would be enhanced by controlling jobs under one system.</p> <p>Disadvantages: The Tank Farm system is much more complicated than Grout's system because of Tank Farms' scope and field conditions. Implementation of job control under Tank Farms is cumbersome.</p>
Configuration Management	<p>Configuration management will be maintained by a cognizant engineer within the Grout standby/restart team.</p> <p>Advantages: An engineer dedicated to the Grout Facility will be able to focus and track the configuration of the facility.</p> <p>Disadvantages: Manpower may not be used as efficiently as is possible under the Tank Farms organization.</p>	<p>Configuration management will be maintained by a cognizant engineer who may also have other duties within Tank Farms.</p> <p>Advantages: Manpower may be used more efficiently if the cog engineer is assigned to more jobs than just Grout.</p> <p>Disadvantages: If the cog engineer is not focused on the Grout Facilities, then the TWRS may lose track of facility status.</p>

ACTIVITY	MAINTAIN GROUT UNIT	ABSORB GROUT INTO TANK FARMS
<p>Feasibility Studies</p>	<p>The Grout standby/restart unit will be available to give tours and to participate in feasibility studies. These studies may include the reuse of some or all of the facilities.</p> <p>Advantages: This activity could require a significant amount of resources on a periodic basis. A dedicated Grout staff would be able to support the effort.</p> <p>Disadvantages: None.</p>	<p>Tank farm personnel would try to support some feasibility studies.</p> <p>Advantage: None</p> <p>Disadvantages: This activity could detract from the responsibilities of the Tank Farm organization.</p>
<p>Remaining Issues</p>	<p>The Grout standby/restart unit would continue to resolve any lingering issues after the facilities have been deactivated.</p> <p>Advantages: Resolution of open issues will continue at a steady or possibly accelerated pace.</p> <p>Disadvantages: Responsibility for closure of action items will be given to individuals who may have a short career remaining with Grout. If closure of the action item will take several years (replacement of counterfeit bolts, for example), then the item will probably be transferred to Tank Farms anyway.</p>	<p>Remaining issues will be handled by Tank Farm personnel.</p> <p>Advantages: Responsibilities for closure of open items will be assigned to an organization with some stability.</p> <p>Disadvantages: Diverted attention to Grout issues will be disruptive to Tank Farm efforts.</p>

ACTIVITY	MAINTAIN GROUT UNIT	ABSORB GROUT INTO TANK FARMS
Restart Operation	<p>The Grout standby/restart unit would initiate restart activities.</p> <p>Advantages: The standby/restart unit will be readily available, and prepared, to initiate restart activities.</p> <p>Disadvantages: None</p>	<p>Manpower to support an initial restart effort would have to be pulled out of the Tank Farm organization.</p> <p>Advantages: None</p> <p>Disadvantages: The sudden departure of several employees would be very disruptive to the Tank Farm mission. The condition of the facilities and the limited knowledge of Tank Farm personnel would jeopardize the chances of a grout startup within two years.</p>

Based on the above assessment, the authors of this document recommend that Tank Farm Operations maintain a Grout standby/restart organization through FY 94 and possibly through FY 95. This organization should be staffed, at a minimum, with the following skills:

- A planner/scheduler/JCS administrator
- A cognizant engineer
- A facility representative
- Two operators
- A clerk/secretary

The responsibilities of the standby/restart organization includes:

- Facility surveillance and maintenance (S&M) activities summarized in Appendix F
- A descoping of the MIP to reflect Grout's standby status
- Maintenance of Grout's administrative procedures
- Provide a "seed" organization in the event that Grout is given a restart directive
- Participate in feasibility studies for new applications of Grout equipment and facilities
- Resolve any remaining issues such as counterfeit bolt evaluation and (possibly) replacement

The advantages of a dedicated Grout organization include:

- The Job Control System is easier to operate because it is uncomplicated by tank farm requirements
- Configuration management will be controlled and tracked
- Vandalism of the facilities is inhibited
- The facilities will have a much better chance to start up within 2 yrs in the event that a restart effort becomes necessary

Office space for the standby/restart organization would logically be located near the Grout Facilities.

APPENDIX F SURVEILLANCE AND MONITORING PLAN

This appendix provides information on the surveillance and monitoring activities to be performed during the standby period for the Grout Facilities. Information pertaining to maintenance activities is also provided.

PURPOSE

By the end of April, the Grout Facilities will be deactivated and the standby phase for the Facilities will begin. Even though the Facilities will be deactivated, many Grout-related activities will continue throughout the standby period for the reasons provided below. This appendix provides additional detail regarding the type of work required to support Grout during the standby phase and identifies the required levels of manpower.

Standby activities are subdivided into 5 groupings:

- Regulatory Compliance
- DOE Order Compliance
- Two Year Restart Compliance
- Continuing Equipment Transfers
- Administrative Support

REGULATORY COMPLIANCE ACTIVITIES

The recently renegotiated Tri-Party Agreement (TPA) states that the "DOE will maintain in a standby condition the capability to restart the Grout Facility if its operation is necessary ... to resolve safety issues" (Ref 1). Therefore, from a regulatory perspective, Grout is an operational facility and is subject to federal and state requirements, namely WAC 173-303-280 through -440 and 40 CFR 265 Subparts F through R. Regulatory requirements for an operating facility include periodic inspections, personnel training, reporting and recordkeeping.

Periodic inspections of the facility are required by WAC 173-303-320 and DOE 5480.19. To meet these requirements, operators will conduct surveillance and monitoring (S&M) activities during the standby phase. These activities are identified in Table F-1.

As stated in Section 4 of this Plan, one of the primary goals of the deactivation strategy is to remove sources of energy such as pressure, radioactivity, electricity, etc. so that the potential for an accident of significant consequence is minimized. Therefore, Grout's dependance on equipment such as isolation valves for safety is eliminated. Consequently, the required surveillance and maintenance tasks, and the corresponding

production of procedures for these activities, are minimized for the standby period.

The surveillance and monitoring plan is designed to alert Grout personnel whenever there is a change to the as-left status of the facility. This should be enough to ensure that the facility stays isolated and in a safe layup condition. Evidence of rotting electrical insulators, for example, will alert operators that new zero energy checks may be necessary to verify the safety of the facility.

A Grout operator will initially provide this support during the standby phase and will be assisted by operators from the Waste Tank Organization (WTO) as needed. An estimate of the cost of these inspections is provided below.

INSPECTIONS			
	FY 94	FY 95	FY 96 on
Labor (hrs)	2100	4100	4100
Materials & Contracts (\$1000s)			
Total cost (\$1000s)	\$105	\$205	\$205

Deficiencies noted during the surveillances will be tracked by a facility representative and corrected using the Grout version of the Job Control System (JCS). Possible deficiencies include liquid infiltration into one of the buildings or damage caused by weather or animal intrusion. The operation of the JCS will be a part-time job for a scheduler, a planner and an administrator. An estimate of the cost of these corrective actions is provided below.

CORRECTIVE ACTIONS			
	FY 94	FY 95	FY 96 on
Labor (hrs)	500	100	100
Materials & Contracts (\$1000s)			
Total cost (\$1000s)	\$25	\$5	\$5

The quality assurance requirements during standby, to include WAC requirements for facility recordkeeping (WAC 173-303-380/390), will be identified in a revised version of the Hanford Site Grout Facilities Quality Assurance Program Plan. A revision of the Plan reflecting Grout's standby status is also required by Westinghouse procedures. This Plan will be revised by one of the Grout engineers during this fiscal year and it is anticipated that maintenance of this plan during standby operations will be a part time job for an engineer. An estimate of the cost of the maintenance of the Quality Assurance Program Plan is provided below.

QUALITY ASSURANCE PROGRAM PLAN			
	FY 94	FY 95	FY 96 on
Labor (hrs)	300	40	40
Materials & Contracts (\$1000s)			
Total cost (\$1000s)	\$15	\$2	\$2

The WAC 173-303-330 requires the Grout Facilities to have a training program. The program must be a written plan kept at the facility. Grout has to also maintain the training records. A Training Implementation Matrix (TIM) for the remaining Facilities personnel has been prepared. A clerk will track training for Facilities personnel. An estimate of the cost of the training of Grout personnel is provided below.

TRAINING			
	FY 94	FY 95	FY 96 on
Labor (hrs)	400	400	400
Materials & Contracts (\$1000s)			
Total cost (\$1000s)	\$20	\$20	\$20

The WAC 173-303-350/360 requires the Grout Facilities to have an emergency plan that contains a list of emergency equipment, an evacuation plan and a list of emergency coordinators. Initially, one of Grout's former managers, working on a part time basis, will maintain the Building Emergency Plan to comply with this requirement. A revision of the current plan is

needed to reflect the reduction of hazards associated with the standby condition of the Facilities. An estimate of the cost of maintenance of the Plan is provided below.

BUILDING EMERGENCY PLAN			
	FY 94	FY 95	FY 96 on
Labor (hrs)	160	40	40
Materials & Contracts (\$1000s)			
Total cost (\$1000s)	\$8	\$2	\$2

The WAC 173-303-350/360 and DOE 5480.19 requires the Facilities to keep a record of all inspections/surveillances. Initially, a Grout operator will be responsible for generating these records. An estimate of monthly manpower required for this type of recordkeeping is included in Table F-1.

DOE ORDER COMPLIANCE ACTIVITIES

DOE Order compliance for the Grout Facilities has been assessed in several documents to include the Grout Facilities Safety Analysis Report (SAR). A more detailed annual assessment is required for maintenance activities and for conduct of operations. Grout's maintenance activities will be assessed against DOE Orders by one of Grout's former managers working on a part time basis. Grout's conduct of operations will be assessed by another one of Grout's former managers also working on a part time basis. An estimate of the cost of these assessments is provided below.

ASSESSMENTS			
	FY 94	FY 95	FY 96 on
Labor (hrs)	300	80	80
Materials & Contracts (\$1000s)			
Total cost (\$1000s)	\$15	\$4	\$4

Up to date procedures are an important part of Grout's successful conduct of operations. A Grout engineer, working on a part time basis, will maintain the "GTF Standby Surveillance" procedure and maintenance procedures reflecting the surveillances and maintenance needed for cold standby operations. An estimate of the cost of the maintenance of procedures is provided below.

PROCEDURES			
	FY 94	FY 95	FY 96 on
Labor (hrs)	160	40	40
Materials & Contracts (\$1000s)			
Total cost (\$1000s)	\$8	\$2	\$2

Grout's Maintenance Implementation Plan (MIP) will be descoped to reflect revised maintenance goals for the Facilities. The goals identified in the previous version of the MIP were applicable to a processing facility and are excessive for Grout's standby status. The MIP will be maintained by Grout's former maintenance manager, working on a part time basis. An estimate of the cost of maintaining the Implementation Plan is provided below.

MAINTENANCE IMPLEMENTATION PLAN			
	FY 94	FY 95	FY 96 on
Labor (hrs)	160	40	40
Materials & Contracts (\$1000s)			
Total cost (\$1000s)	\$8	\$2	\$2

Additionally, DOE Order 5480.23 requires the Facilities to update the safety basis, Grout's *Hazards Identification and Evaluation* (HI&E), annually or whenever there is a major change in the Facilities. The HI&E will be maintained by an engineer, working on a part time basis, in one of the Westinghouse safety analysis organizations. An estimate of the cost of maintaining the Grout HI&E is provided below.

GROUT HI&E			
	FY 94	FY 95	FY 96 on
Labor (hrs)	300	40	40
Materials & Contracts (\$1000s)			
Total cost (\$1000s)	\$15	\$2	\$2

DOE Order 5480.21 requires safety assessments of all changes to the Facilities. A trained engineer, familiar with the Facilities and working on a part time basis, will perform Unresolved Safety Question (USQ) evaluations for all changes. The formal assessment will use the HI&E as the safety basis. An informal assessment is also needed to review changes against the Grout Safety Analysis Report to address possible safety issues in preparation for an emergency startup. An estimate of the cost of these evaluations is provided below.

USQ EVALUATIONS			
	FY 94	FY 95	FY 96 on
Labor (hrs)	80	40	40
Materials & Contracts (\$1000s)			
Total cost (\$1000s)	\$4	\$2	\$2

TWO YEAR RESTART COMPLIANCE ACTIVITIES

The Department of Energy, Richland Operations (DOE-RL) has interpreted the TPA to mean that the Grout Facilities must maintain a capability to process waste feed within two years after a restart directive is given to the

operating contractor (Ref 3). To meet this requirement, Grout must identify plans to replace equipment that has failed or is transferred to other organizations. Reference documents needed to facilitate a restart effort must be filed and procedures must keep current with the latest DOE and State requirements.

Maintenance of the facilities will be necessary to prevent large losses of equipment due to fire or corrosion. Maintenance activities are summarized in Table F-2. An estimate of the cost of equipment maintenance is provided below.

EQUIPMENT MAINTENANCE			
	FY 94	FY 95	FY 96 on
Labor (hrs)	120	240	240
Materials & Contracts (\$1000s)			
Total cost (\$1000s)	\$6	\$12	\$12

Former Grout personnel will maintain a list of property that would require replacement to support startup operations and will initiate procurement actions for their possible replacement. Perhaps the most significant task of this type is the preparation for the acquisition an operable waste feed system to replace the one that has failed. If the acquisition is funded, then an additional \$800,000 in capital funding (as opposed to expense funding) will be required for FY 1995. It is anticipated that these efforts will require a significant amount of manpower during the standby phase. An estimate of the cost of equipment replacement activities is provided below.

EQUIPMENT REPLACEMENT			
	FY 94	FY 95	FY 96 on
Labor (hrs)	900	900	100
Materials & Contracts (\$1000s)	\$700	\$200	
Total cost (\$1000s)	\$745	\$245	\$5

Clerks will continue to sort and file reference documents that are needed to facilitate a restart effort. The reference library will be maintained in the Dry Materials Facility Control Room. All documents will be filed and identified in a computer database to facilitate retrieval. This effort will probably diminish significantly after this fiscal year. An estimate of the cost of maintaining the library is provided below.

REFERENCE LIBRARY			
	FY 94	FY 95	FY 96 on
Labor (hrs)	600	80	80
Materials & Contracts (\$1000s)			
Total cost (\$1000s)	\$30	\$4	\$4

The success of a restart effort will depend, largely, on the initial efforts of the restart team. Therefore, a small (20 page) plan will be prepared and maintained to identify the initial actions needed for a restart effort. The plan will be a collaborative effort involving several engineers and former operating managers. An estimate of the cost of maintenance of the restart plan is provided below.

RESTART PLAN			
	FY 94	FY 95	FY 96 on
Labor (hrs)	200	80	80
Materials & Contracts (\$1000s)			
Total cost (\$1000s)	\$10	\$4	\$4

The success of the restart effort will also depend on workable procedures that are compliant with the latest DOE and State requirements. An engineer, working on a part time basis, will be in charge of maintaining of Grout's administrative procedures during the standby phase. An estimate of the cost of these inspections is provided below.

ADMINISTRATIVE PROCEDURES			
	FY 94	FY 95	FY 96 on
Labor (hrs)	80	40	40
Materials & Contracts (\$1000s)			
Total cost (\$1000s)	\$4	\$2	\$2

EQUIPMENT TRANSFER ACTIVITIES

While Grout is in the cold standby mode, many other DOE programs will benefit from the reuse of grout equipment and facilities. Grout engineers will make the Facilities, equipment and associated documentation available to other, high priority programs. They will also participate in feasibility studies for new applications of Grout facilities including applications that would benefit the new waste pretreatment and vitrification complex. While there is a cost listed here for the Grout Facilities, the reuse of equipment will provide an overall net savings for the DOE. An estimate of the cost of equipment transfer activities is provided below.

EQUIPMENT TRANSFERS			
	FY 94	FY 95	FY 96 on
Labor (hrs)	600	1200	1200
Materials & Contracts (\$1000s)			
Total cost (\$1000s)	\$30	\$60	\$60

Changes in the equipment and system configuration that result from equipment transfers or facilities modification will be communicated through engineering change notifications (ECNs). This work is necessary to maintain

compliance with DOE Order 5480.19. A Grout engineer will perform configuration management for the Facilities while it is in standby. An estimate of the cost of this effort is provided below.

CONFIGURATION MANAGEMENT			
	FY 94	FY 95	FY 96 on
Labor (hrs)	160	160	160
Materials & Contracts (\$1000s)			
Total cost (\$1000s)	\$8	\$8	\$8

ADMINISTRATIVE SUPPORT

The standby efforts will require some planning and accounting. This work will be handled by the management team within the Westinghouse Tank Waste Remediation System. Secretarial/clerk duties will be performed by a clerk within the TWRS. An estimate of the cost of this effort is provided below.

PROGRAM ADMINISTRATION			
	FY 94	FY 95	FY 96 on
Labor (hrs)	160	300	300
Materials & Contracts (\$1000s)			
Total cost (\$1000s)	\$8	\$15	\$15

It is assumed that certain costs will continue to be assessed to the Grout Facilities. These costs include power, electrical systems, rail track maintenance, weed control, potable water assessment and custodial charges. An estimate of these costs is given below.

BUILDING ADMINISTRATION			
	FY 94	FY 95	FY 96 on
Labor (hrs)			
Materials & Contracts (\$1000s)	\$36	\$86	\$86
Total cost (\$1000s)	\$36	\$86	\$86

Recent history has proven that a significant amount of time will be required to support research into past practices at Grout and to provide tours to various outside groups and agencies. An estimate of the cost of these activities is provided below.

RESEARCH AND TOURS			
	FY 94	FY 95	FY 96 on
Labor (hrs)	80	80	80
Materials & Contracts (\$1000s)			
Total cost (\$1000s)	\$4	\$4	\$4

MANPOWER SUMMARY FOR THE STANDBY PHASE

The scope of the standby effort, therefore, leads to the following totals as detailed in Tables F-3, F-4 and F-5. These costs are for the remainder of fiscal year (FY) 94, May through September, FY 95 and for each fiscal year thereafter.

COST SUMMARY			
	FY 94	FY 95	FY 96 on
Labor (hrs)	7,360	8,000	7,200
Materials & Contracts (\$1000s)	736	286	86
Total cost (\$1000s)	\$1,104	\$686	\$446

REFERENCES

- 1) Document, *Hanford Federal Facility Agreement and Consent Order Action Plan*, Appendix D, Change no. M-60-93-01, January 25, 1994
- 2) Supporting Document, *Grout Facilities Standby Plan*, WHC-SD-WM-SSP-005, January 17, 1994
- 3) Letter, "Grout Treatment Facility Standby Plan", Leif Erickson (DOE) to President, Westinghouse Hanford Company, 93-DSB-044, 21 Dec 1993

**Table F-1. Surveillance Schedule
Grout Facilities - Standby
(2 sheets)**

TITLE	DESCRIPTION	FREQUENCY	HOURS/ MONTH
Fire extinguisher	Inspect fire extinguishers in all facilities	Monthly	4
Emergency lantern	Inspect emergency lanterns in all facilities	Monthly	8
Water intrusions	Inspect the LCT/MM, motor pit, and DMF pits for water intrusions	Weekdays	20
Lockout and tagout	Inspect all lockouts and tagouts	Monthly	1
Room lighting	Inspect room lighting and issue work orders as required	Weekly	1
Access control	Record all visitor in a logbook, maintain key control logbook and ensure facilities are secure	Weekdays	30
Surveillance records	Maintain an active file of surveillance records	Weekdays	30
Housekeeping	Perform housekeeping as required in each building	Weekdays	140
Signs	Inspect all signs (radiological, nonradiological, etc.)	Weekly	4
Facility inspection	Inspect all facilities for any unsafe conditions, vandalism, and property theft	Weekdays	20
Property management	Maintain an inventory of all property	Quarterly	20
Material/supplies	Maintain an inventory of all materials and supplies and replace as required	Weekly	20
Vehicle inspections	Inspect vehicle(s) for any unsafe conditions, i.e. tires, lights, wipers, etc. and clean	Monthly	10

**Table F-1. Surveillance Schedule
Grout Facilities - Standby
(2 sheets)**

TITLE	DESCRIPTION	FREQUENCY	HOURS/ MONTH
Bulletin board memo postings	Maintain current bulletin board information	Weekly	5
Safety meetings	Hold staff safety meetings	Weekly	16
Laundry	Stock laundry and replace as required	Weekly	10
HAZMAT inventory	Maintain and report the inventory of HAZMAT	Monthly	5

**Table F-2. Maintenance Activities
Grout Facilities - Standby
(2 sheets)**

PM #	TITLE	FREQUENCY
2N8801	Cold weather protection for the Grout Facility	Monthly (Oct-Mar)
2N22018	Substation bus and breaker inspection cleaning and testing	Yearly
2N22026	Inspection of emergency lights	Yearly
2N22046	GPF - Cathodic protection system function test	Monthly
2N22049	Inspect grout panels	Yearly
2N24012	Inspect and lubricate air conditioners and heat pumps	Monthly
S-CC-0044	Reduced pressure backflow assembly testing	Yearly
S-FS-0096	Fire systems - smoke detectors, pull boxes,	Six months
S-FS-0017	Bells, FACP, flow switches, and halon testing	Six months
S-FS-0017	Fire systems - flow testing	Four months
S-FS-0010	Fire systems - FACP electrical testing	Yearly
S-FS-0101	Fire systems - Wet riser maintenance	Five years
S-FS-0037	Fire systems - Heat detector testing	Yearly
Desk Instructions	Fire systems - RFAR testing	Four months
2N22043	Clean and Inspect the Wet Grout Facility MCC at 243-G8, TGE	Yearly
2N22042	Clean and Inspect the Dry Blend facility MCC at 2400E	Yearly
2N22037	Main Breaker Inspection and Test for (Westinghouse Type DS-206) for 243-G9 Substation	Yearly

**Table F-2. Maintenance Activities
Grout Facilities - Standby
(2 sheets)**

PM #	TITLE	FREQUENCY
2N22036	Feeder Breaker Inspection and Test (Westinghouse Type DS-206) for 243-G9 SUB (Elect. Equip. Room)	Yearly
2N22035	Feeder Breaker Inspection and Test (Westinghouse Type DS-206) for 243-G9 TGE Substation (B566 Feeder)	Yearly
2N22034	Feeder Breaker Test and Inspection (Westinghouse Type DS-206) for 243-G9, SUB, (Change Rm.)	Yearly

All other preventive maintenance procedures will be inactivated from recall, but will remain ready for use as required.

Table F-3. Summary of Labor Hours

Task	FY 94	FY 95	FY 96 on
Inspections	2100	4100	4100
Corrective Actions	500	100	100
Quality Assurance Program Plan	300	40	40
Training	400	400	400
Building Emergency Plan	160	40	40
Assessments	300	80	80
Procedures	160	40	40
Maintenance Implement. Plan	160	40	40
Grout HI&E	300	40	40
USQ Evaluations	80	40	40
Equipment Maintenance	120	240	240
Equipment Replacement	900	900	100
Reference Library	600	80	80
Restart Plan	200	80	80
Administrative Procedures	80	40	40
Equipment Transfers	600	1200	1200
Configuration Management	160	160	160
Program Admin	160	300	300
Building Admin			
Research & Tours	80	80	80
Totals	7,360	8,000	7,200

Table F-4. Summary of Material and Contract Costs (\$1000s)

Task	FY 94	FY 95	FY 96 on
Inspections			
Corrective actions			
Quality Assurance Program Plan			
Training			
Building Emergency Plan			
Assessments			
Procedures			
Maintenance Implement. Plan			
Grout HI&E			
USQ Evaluations			
Equipment Maintenance			
Equipment Replacement	700	200	
Reference Library			
Restart Plan			
Administrative Procedures			
Equipment Transfers			
Configuration Management			
Program Admin			
Building Admin	36	86	86
Research & Tours			
Totals	736	286	86

Table F-5. Summary of Total Costs (\$1000s)

Task	FY 94	FY 95	FY 96 on
Inspections	105	205	205
Corrective actions	25	5	5
Quality Assurance Program Plan	15	2	2
Training	20	20	20
Building Emergency Plan	8	2	2
Assessments	15	4	4
Procedures	8	2	2
Maintenance Implement. Plan	8	2	2
Grout HI&E	15	2	2
USQ Evaluations	4	2	2
Equipment Maintenance	6	12	12
Equipment Replacement	745	245	5
Reference Library	30	4	4
Restart Plan	10	4	4
Administrative Procedures	4	2	2
Equipment Transfers	30	60	60
Configuration Management	8	8	8
Program Admin	8	15	15
Building Admin	36	86	86
Research & Tours	4	4	4
Totals	1,104	686	446

APPENDIX G GROUT DEACTIVATION BUDGET

COST & SCHEDULE ITEM NUMBER	WORK DESCRIPTION	CRITERIA	PLANNED MM	BUDGET AMOUNT BCWS
1.A.1	Records Collection and Storage	1	6.00	\$60,000.00
		2	1.00	\$10,000.00
	\$190,000.00	2	1.00	\$10,000.00
		2	1.00	\$10,000.00
		2	1.00	\$10,000.00
			FIELD -	
			WORK /	
			MM	
		1	5.00	\$50,000.00
		2	1.00	\$10,000.00
		2	1.00	\$10,000.00
		2	1.00	\$10,000.00
		2	1.00	\$10,000.00
			19.00	\$190,000.00
1.A.2	Surveillance & Monitoring	1	1.00	\$23,762.38
		2	4.00	\$95,049.50
	\$240,000.00		FIELD -	
			WORK /	
			MM	
		1	0.10	\$2,376.24

COST & SCHEDULE ITEM NUMBER	WORK DESCRIPTION	CRITERIA	PLANNED MM	BUDGET AMOUNT BCWS
		2	5.00	\$118,811.88
			10.10	\$240,000.00
1.A.3	Program Restructuring	1	5.00	\$49,107.14
		2	2.00	\$19,642.86
	\$110,000.00	3	2.00	\$19,642.86
			FIELD -	
			WORK /	
			MM	
		1	0.10	\$982.14
		2	2.00	\$19,642.86
		3	0.10	\$982.14
			11.20	\$110,000.00
1.B.1.A	Dry Materials Storage Bins	1	0.20	\$2,025.00
	\$8,100.00	2	0.20	\$2,025.00
	(Budget for all 1.B.1)			
1.B.1.B	Trucks	1	0.10	\$1,012.50
		2	0.10	\$1,012.50
1.B.1.C	Other Equipment	1	0.10	\$1,012.50
			FIELD -	

COST & SCHEDULE ITEM NUMBER	WORK DESCRIPTION	CRITERIA	PLANNED MM	BUDGET AMOUNT BCWS
			WORK /	
			MM	
		1	0.10	\$1,012.50
			0.80	\$8,100.00
1.B.2.A	Project - W062	1	0.10	\$793.65
	\$100,000.00	2	1.00	\$7,936.51
	(Budget for all 1.B.2)			
1.B.2.B	Tank AP-102 Equipment	1	0.20	\$1,587.30
		2	3.00	\$23,809.52
		3	1.00	\$7,936.51
			FIELD -	
			WORK /	
			MM	
		1	0.20	\$1,587.30
		2	0.10	\$793.65
		3	5.00	\$39,682.54
1.B.2.C	Tank AP-102 Mixer Sup. Equip.	1	1.00	\$7,936.51
			FIELD -	
			WORK /	
			MM	
		1	1.00	\$7,936.51
			12.60	\$100,000.00

COST & SCHEDULE ITEM NUMBER	WORK DESCRIPTION	CRITERIA	PLANNED MM	BUDGET AMOUNT BCWS
1.B.3.A	Office, Trailers, & Equipment	1	0.10	\$6,046.51
		2	0.10	\$6,046.51
	\$260,000.00		FIELD -	
	(Budget for all 1.B.3 work)		WORK /	
			MM	
		1	0.10	\$6,046.51
		2	0.10	\$6,046.51
1.B.3.B	Change Trailer	1	0.10	\$6,046.51
		2	0.10	\$6,046.51
			FIELD -	
			WORK /	
			MM	
		1	0.10	\$6,046.51
		2	0.10	\$6,046.51
1.B.3.C	Spare Parts	1	1.00	\$60,465.12
		2	1.00	\$60,465.12
		3	1.00	\$60,465.12
			FIELD -	
			WORK /	
			MM	
		1	0.10	\$6,046.51
		2	0.10	\$6,046.51
		3	0.10	\$6,046.51
1.B.3.D	Project W-257 - GPF Fire Hyd.	1	0.10	\$6,046.51
			FIELD -	
			WORK /	

COST & SCHEDULE ITEM NUMBER	WORK DESCRIPTION	CRITERIA	PLANNED MM	BUDGET AMOUNT BCWS
			FIELD -	
			WORK /	
			MM	
		1	0.00	\$0.00
		2	6.00	\$19,351.37
		2	6.00	\$19,351.37
		2	6.00	\$19,351.37
		2	6.00	\$19,351.37
		2	6.00	\$19,351.37
		2	6.00	\$19,351.37
		2	16.00	\$51,603.66
1.B.4.E	Pumps	1	0.10	\$322.52
		1	0.10	\$322.52
		2	0.10	\$322.52
		2	0.10	\$322.52
			FIELD -	
			WORK /	
			MM	
		1	0.10	\$322.52
		1	0.10	\$322.52
		2	0.10	\$322.52
		2	0.10	\$322.52
1.B.4.F	Vaults 102-105 & Misc. Equip	1	1.00	\$3,225.23
		2	0.10	\$322.52
		3	0.10	\$322.52

COST & SCHEDULE ITEM NUMBER	WORK DESCRIPTION	CRITERIA	PLANNED MM	BUDGET AMOUNT BCWS
		4	0.10	\$322.52
			FIELD -	
			WORK /	
			MM	
		1	0.10	\$322.52
		2	0.10	\$322.52
		3	0.10	\$322.52
		4	0.01	\$32.25
			55.81	\$180,000.00
1.C.1.A.1	Decontaminate 243-G3	1	1.00	\$14,465.41
	(Additives Module)	2	1.00	\$14,465.41
		3	1.00	\$14,465.41
	\$230,000.00	4	1.00	\$14,465.41
	(Budget for all 1.C.1.A work)	5	0.50	\$7,232.70
		6	1.00	\$14,465.41
			FIELD -	
			WORK /	
			MM	
		1	1.00	\$14,465.41
		2	1.00	\$14,465.41
		3	1.00	\$14,465.41
		4	1.00	\$14,465.41
		5	0.50	\$7,232.70

COST & SCHEDULE ITEM NUMBER	WORK DESCRIPTION	CRITERIA	PLANNED MM	BUDGET AMOUNT BCWS
		6	1.00	\$14,465.41
1.C.1.A.2	Deactivate Utilities 243-G3	1	0.10	\$1,446.54
	(Additives Module)	2	0.10	\$1,446.54
		3	0.10	\$1,446.54
			FIELD -	
			WORK /	
			MM	
		1	0.20	\$2,893.08
		2	0.10	\$1,446.54
		3	0.10	\$1,446.54
1.C.1.A.3	Close 243-G3	1	0.10	\$1,446.54
	(Additives Module)	2	0.10	\$1,446.54
		3	0.10	\$1,446.54
		4	0.10	\$1,446.54
		4	0.10	\$1,446.54
		4	0.10	\$1,446.54
		4	0.10	\$1,446.54
		4	0.10	\$1,446.54
		4	0.10	\$1,446.54
		4	0.10	\$1,446.54
		4	0.10	\$1,446.54
		5	0.10	\$1,446.54
		6	0.10	\$1,446.54
		7	0.10	\$1,446.54
		8	0.10	\$1,446.54
		9	0.10	\$1,446.54
		10	0.00	\$0.00
			FIELD -	
			WORK /	

COST & SCHEDULE ITEM NUMBER	WORK DESCRIPTION	CRITERIA	PLANNED MM	BUDGET AMOUNT BCWS
			MM	
		1	0.10	\$1,446.54
		2	0.10	\$1,446.54
		3	0.20	\$2,893.08
		4	0.10	\$1,446.54
		4	0.10	\$1,446.54
		4	0.20	\$2,893.08
		4	0.20	\$2,893.08
		4	0.50	\$7,232.70
		4	0.10	\$1,446.54
		4	0.10	\$1,446.54
		5	0.50	\$7,232.70
		6	0.10	\$1,446.54
		7	0.10	\$1,446.54
		8	0.20	\$2,893.08
		9	0.10	\$1,446.54
		10	0.00	\$0.00
			15.90	\$230,000.00
1.C.1.B.1	Deactivate Utilities 243-G4	1	0.10	\$2,448.98
	(Control Room)	1	0.10	\$2,448.98
		1	0.10	\$2,448.98
	\$240,000.00	1	0.10	\$2,448.98
	(Budget for all 1.C.1.B work)	1	0.10	\$2,448.98
		1	0.10	\$2,448.98
		2	0.10	\$2,448.98
		3	0.10	\$2,448.98
		4	0.10	\$2,448.98

COST & SCHEDULE ITEM NUMBER	WORK DESCRIPTION	CRITERIA	PLANNED MM	BUDGET AMOUNT BCWS
		5	0.00	\$0.00
		6	0.10	\$2,448.98
			FIELD -	
			WORK /	
			MM	
		1	0.10	\$2,448.98
		1	0.10	\$2,448.98
		1	0.10	\$2,448.98
		1	0.10	\$2,448.98
		1	0.10	\$2,448.98
		1	0.10	\$2,448.98
		2	0.10	\$2,448.98
		3	0.10	\$2,448.98
		4	1.00	\$24,489.80
		5	0.00	\$0.00
		6	0.50	\$12,244.90
1.C.1.B.2	Close 243-G4	1	0.10	\$2,448.98
	(Control Room)	2	0.10	\$2,448.98
		3	0.10	\$2,448.98
		4	0.10	\$2,448.98
		5	0.10	\$2,448.98
		5	0.10	\$2,448.98
		6	0.10	\$2,448.98
		7	0.10	\$2,448.98
		8	0.10	\$2,448.98
			FIELD -	
			WORK /	
			MM	
		1	0.10	\$2,448.98

COST & SCHEDULE ITEM NUMBER	WORK DESCRIPTION	CRITERIA	PLANNED MM	BUDGET AMOUNT BCWS
		2	0.10	\$2,448.98
		3	0.50	\$12,244.90
		4	0.10	\$2,448.98
		5	0.20	\$4,897.96
		5	0.10	\$2,448.98
		6	0.20	\$4,897.96
		7	0.10	\$2,448.98
		8	0.10	\$2,448.98
1.C.1.B.3.A	Alarm Proc'd. Software 243-G4	1	2.00	\$48,979.59
	(Control Room)	2	1.00	\$24,489.80
1.C.1.B.3.B	Software Manual 243-G4	1	0.10	\$2,448.98
	(Control Room)	2	1.00	\$24,489.80
			9.80	\$240,000.0 0
1.C.1.C.1	Decontaminate 243-G5	1	0.30	\$8,846.15
	(Standby Generator)	2	0.50	\$14,743.59
		3	0.30	\$8,846.15
	\$230,000.00	3	0.30	\$8,846.15
		3	0.30	\$8,846.15
		4	0.20	\$5,897.44
			FIELD -	
			WORK /	
			MM	
		1	0.30	\$8,846.15

COST & SCHEDULE ITEM NUMBER	WORK DESCRIPTION	CRITERIA	PLANNED MM	BUDGET AMOUNT BCWS
		2	0.50	\$14,743.59
		3	0.30	\$8,846.15
		3	0.30	\$8,846.15
		3	0.30	\$8,846.15
		4	0.20	\$5,897.44
1.C.1.C.2	Deactivate Utilities 243-G5	1	0.20	\$5,897.44
	(Standby Generator)	1	0.20	\$5,897.44
		1	0.10	\$2,948.72
		1	0.10	\$2,948.72
			FIELD -	
			WORK /	
			MM	
		1	0.20	\$5,897.44
		1	0.20	\$5,897.44
		1	0.10	\$2,948.72
		1	0.10	\$2,948.72
1.C.1.C.3	Close 243-G5	1	0.10	\$2,948.72
	(Standby Generator)	2	0.10	\$2,948.72
		3	0.20	\$5,897.44
		4	0.30	\$8,846.15
		5	0.30	\$8,846.15
		6	0.20	\$5,897.44
		7	0.20	\$5,897.44
			FIELD -	
			WORK /	
			MM	
		1	0.10	\$2,948.72
		2	0.10	\$2,948.72

COST & SCHEDULE ITEM NUMBER	WORK DESCRIPTION	CRITERIA	PLANNED MM	BUDGET AMOUNT BCWS
			FIELD -	
			WORK /	
			MM	
		1	0.10	\$2,419.35
		1	0.10	\$2,419.35
		1	0.10	\$2,419.35
		1	0.10	\$2,419.35
		1	0.10	\$2,419.35
		1	0.10	\$2,419.35
		1	0.10	\$2,419.35
		1	0.10	\$2,419.35
		1	0.10	\$2,419.35
		1	0.10	\$2,419.35
		1	0.10	\$2,419.35
		1	0.10	\$2,419.35
		1	0.10	\$2,419.35
		1	0.10	\$2,419.35
		1	0.10	\$2,419.35
		1	0.10	\$2,419.35
		1	0.10	\$2,419.35
		2	0.20	\$4,838.71
		2	0.20	\$4,838.71
		2	0.20	\$4,838.71
		2	0.20	\$4,838.71
		2	0.20	\$4,838.71
		2	0.20	\$4,838.71
1.C.1.D.2	Close 243-G6	1	0.20	\$4,838.71
	(Electric. Equip. Module)	2	0.20	\$4,838.71
			FIELD -	
			WORK /	
			MM	
		1	0.20	\$4,838.71

COST & SCHEDULE ITEM NUMBER	WORK DESCRIPTION	CRITERIA	PLANNED MM	BUDGET AMOUNT BCWS
		2	0.20	\$4,838.71
			6.20	\$150,000.00
1.C.1.E.1	Decontaminate 243-G8	1	0.30	\$6,969.70
	(Air Filtration Module)	2	0.30	\$6,969.70
		3	0.00	\$0.00
	\$230,000.00	4	0.30	\$6,969.70
	(Budget for all 1.C.1.E work)	5	0.30	\$6,969.70
		6	0.30	\$6,969.70
		7	0.30	\$6,969.70
			FIELD -	
			WORK /	
			MM	
		1	0.30	\$6,969.70
		2	0.30	\$6,969.70
		3	0.30	\$6,969.70
		4	0.30	\$6,969.70
		5	0.30	\$6,969.70
		6	0.30	\$6,969.70
		7	0.30	\$6,969.70
1.C.1.E.2	Deactivate Utilities 243-G8	1	0.20	\$4,646.46
	(Air Filtration Module)	2	0.30	\$6,969.70
			FIELD -	
			WORK /	
			MM	
		1	0.20	\$4,646.46
		2	0.30	\$6,969.70

COST & SCHEDULE ITEM NUMBER	WORK DESCRIPTION	CRITERIA	PLANNED MM	BUDGET AMOUNT BCWS
1.C.1.E.3	Close 243-G8	1	0.30	\$6,969.70
	(Air Filtration Module)	2	0.10	\$2,323.23
		3	0.10	\$2,323.23
		4	0.50	\$11,616.16
		5	0.50	\$11,616.16
		5	0.30	\$6,969.70
		6	0.20	\$4,646.46
		7	0.20	\$4,646.46
		8	0.20	\$4,646.46
		9	0.10	\$2,323.23
			FIELD -	
			WORK /	
			MM	
		1	0.30	\$6,969.70
		2	0.10	\$2,323.23
		3	0.10	\$2,323.23
		4	0.50	\$11,616.16
		5	0.50	\$11,616.16
		5	0.30	\$6,969.70
		6	0.20	\$4,646.46
		7	0.20	\$4,646.46
		8	0.20	\$4,646.46
		9	0.10	\$2,323.23
			9.90	\$230,000.00
1.C.1.F.1	Deactivate 243-G9	1	0.20	\$12,666.67

COST & SCHEDULE ITEM NUMBER	WORK DESCRIPTION	CRITERIA	PLANNED MM	BUDGET AMOUNT BCWS
	(Substation)	2	0.20	\$12,666.67
		3	0.20	\$12,666.67
	\$76,000.00		FIELD -	
			WORK /	
			MM	
		1	0.20	\$12,666.67
		2	0.20	\$12,666.67
		3	0.20	\$12,666.67
			1.20	\$76,000.00
1.C.1.G.1	Deactivate 243-G81	1	0.20	\$5,428.57
	(Water Services Building)		FIELD -	
	\$76,000.00		WORK /	
	(Budget for all 1.C.1.G work)		MM	
		1	0.20	\$5,428.57
1.C.1.G.2	Close 234-G81	1	0.20	\$5,428.57
	(Water Services Building)	2	0.20	\$5,428.57
		3	0.20	\$5,428.57
		4	0.20	\$5,428.57
		5	0.20	\$5,428.57
		6	0.20	\$5,428.57
			FIELD -	
			WORK /	
			MM	
		1	0.20	\$5,428.57

COST & SCHEDULE ITEM NUMBER	WORK DESCRIPTION	CRITERIA	PLANNED MM	BUDGET AMOUNT BCWS
		2	0.20	\$5,428.57
		3	0.20	\$5,428.57
		4	0.20	\$5,428.57
		5	0.20	\$5,428.57
		6	0.20	\$5,428.57
			2.80	\$76,000.00
1.C.1.H.1	Deactivate 243-G82	1	1.00	\$22,352.94
	(Water Services Caisson)	2	0.20	\$4,470.59
	\$76,000.00		FIELD -	
	(Budget for all 1.C.1.H work)		WORK /	
			MM	
		1	1.00	\$22,352.94
		2	0.20	\$4,470.59
1.C.1.H.2	Close 243-G82	1	0.10	\$2,235.29
	(Water Services Caisson)	2	0.10	\$2,235.29
		3	0.10	\$2,235.29
		4	0.10	\$2,235.29
		5	0.10	\$2,235.29
			FIELD -	
			WORK /	
			MM	
		1	0.10	\$2,235.29
		2	0.10	\$2,235.29
		3	0.10	\$2,235.29
		4	0.10	\$2,235.29
		5	0.10	\$2,235.29

COST & SCHEDULE ITEM NUMBER	WORK DESCRIPTION	CRITERIA	PLANNED MM	BUDGET AMOUNT BCWS
			3.40	\$76,000.00
1.C.1.I.1	Decontaminate 243-G1	1	0.10	\$241.09
	(LCT-MM)	1	2.00	\$4,821.80
	\$230,000.00	1	0.20	\$482.18
	(Budget for all 1.C.1.I work)	1	0.20	\$482.18
		1	0.50	\$1,205.45
		2	1.00	\$2,410.90
		3	1.00	\$2,410.90
		4	1.00	\$2,410.90
		5	0.50	\$1,205.45
		6	0.50	\$1,205.45
			FIELD -	
			WORK /	
			MM	
		1	0.10	\$241.09
		1	2.00	\$4,821.80
		1	0.20	\$482.18
		1	0.20	\$482.18
		1	0.50	\$1,205.45
		2	1.00	\$2,410.90
		3	1.00	\$2,410.90
		4	1.00	\$2,410.90
		5	0.50	\$1,205.45
		6	0.50	\$1,205.45
1.C.1.I.2	Deactivate 243-G1	1	0.20	\$482.18
	(LCT-MM)	2	0.20	\$482.18
		2	0.20	\$482.18

COST & SCHEDULE ITEM NUMBER	WORK DESCRIPTION	CRITERIA	PLANNED MM	BUDGET AMOUNT BCWS
			FIELD -	
			WORK /	
			MM	
		1	0.20	\$482.18
		2	0.20	\$482.18
		2	0.20	\$482.18
1.C.1.I.3	Close 243-G1	1	1.00	\$2,410.90
	(LCT-MM)	2	0.10	\$241.09
		3	0.10	\$241.09
		4	10.00	\$24,109.01
		4	10.00	\$24,109.01
		5	1.00	\$2,410.90
		5	1.00	\$2,410.90
		6	0.30	\$723.27
		7	0.30	\$723.27
		8	0.30	\$723.27
		9	0.50	\$1,205.45
		10	15.00	\$36,163.52
		11	0.20	\$482.18
		12	0.10	\$241.09
		13	0.10	\$241.09
			FIELD -	
			WORK /	
			MM	
		1	1.00	\$2,410.90
		2	0.10	\$241.09
		3	0.10	\$241.09
		4	25.00	\$60,272.54

COST & SCHEDULE ITEM NUMBER	WORK DESCRIPTION	CRITERIA	PLANNED MM	BUDGET AMOUNT BCWS
		4	10.00	\$24,109.01
		5	1.00	\$2,410.90
		5	1.00	\$2,410.90
		6	0.30	\$723.27
		7	0.30	\$723.27
		8	0.30	\$723.27
		9	0.50	\$1,205.45
		10	0.20	\$482.18
		11	0.20	\$482.18
		12	0.10	\$241.09
		13	0.10	\$241.09
			95.40	\$230,000.00
1.C.1.J.1	Decontaminate 243-G1A	1	2.00	\$4,120.88
	(Motor Pump Pit)	2	2.00	\$4,120.88
		3	2.00	\$4,120.88
	\$150,000.00	4	2.00	\$4,120.88
	(Budget for all 1.C.1.J work)	5	2.00	\$4,120.88
		6	2.00	\$4,120.88
		7	2.00	\$4,120.88
		8	0.00	\$0.00
			FIELD -	
			WORK /	
			MM	
		1	2.00	\$4,120.88
		2	2.00	\$4,120.88
		3	2.00	\$4,120.88
		4	2.00	\$4,120.88

COST & SCHEDULE ITEM NUMBER	WORK DESCRIPTION	CRITERIA	PLANNED MM	BUDGET AMOUNT BCWS
		5	2.00	\$4,120.88
		6	2.00	\$4,120.88
		7	2.00	\$4,120.88
		8	0.00	\$0.00
1.C.1.J.2	Deactivate 243-G1A	1	0.20	\$412.09
	(Motor Pump Pit)	2	0.10	\$206.04
			FIELD -	
			WORK /	
			MM	
		1	0.20	\$412.09
		2	0.10	\$206.04
1.C.1.J.3	Close 243-G1A	1	1.00	\$2,060.44
	(Motor Pump Pit)	2	1.00	\$2,060.44
		3	2.00	\$4,120.88
		4	5.00	\$10,302.20
		5	3.00	\$6,181.32
		6	2.00	\$4,120.88
		7	2.00	\$4,120.88
		8	2.00	\$4,120.88
		9	0.00	\$0.00
		10	2.00	\$4,120.88
		11	0.10	\$206.04
		12	2.00	\$4,120.88
			FIELD -	
			WORK /	
			MM	
		1	1.00	\$2,060.44
		2	1.00	\$2,060.44
		3	2.00	\$4,120.88

COST & SCHEDULE ITEM NUMBER	WORK DESCRIPTION	CRITERIA	PLANNED MM	BUDGET AMOUNT BCWS
		4	5.00	\$10,302.20
		5	3.00	\$6,181.32
		6	2.00	\$4,120.88
		7	2.00	\$4,120.88
		8	2.00	\$4,120.88
		9	0.00	\$0.00
		10	2.00	\$4,120.88
		11	0.10	\$206.04
		12	2.00	\$4,120.88
			72.80	\$150,000.00
1.C.1.K.1	Deactivate 243-G2	1	0.30	\$2,960.53
	(Dry Blend Module)		FIELD -	
	\$150,000.00		WORK /	
	(Budget for all 1.C.1.K work)		MM	
		1	0.30	\$2,960.53
1.C.1.K.2	Decontaminate 243-G2	1	0.30	\$2,960.53
	(Dry Blend Module)	1	0.30	\$2,960.53
		2	0.30	\$2,960.53
		3	0.30	\$2,960.53
		4	0.30	\$2,960.53
		5	0.30	\$2,960.53
		5	0.30	\$2,960.53
		6	0.30	\$2,960.53
		7	0.30	\$2,960.53
			FIELD -	
			WORK /	
			MM	

COST & SCHEDULE ITEM NUMBER	WORK DESCRIPTION	CRITERIA	PLANNED MM	BUDGET AMOUNT BCWS
		1	0.30	\$2,960.53
		1	0.30	\$2,960.53
		2	0.30	\$2,960.53
		3	0.30	\$2,960.53
		4	0.30	\$2,960.53
		5	0.30	\$2,960.53
		5	0.30	\$2,960.53
		6	0.30	\$2,960.53
		7	0.30	\$2,960.53
1.C.1.K.3	Close 243-G2	1	0.30	\$2,960.53
	(Dry Blend Module)	2	0.30	\$2,960.53
		3	0.30	\$2,960.53
		4	0.30	\$2,960.53
		4	0.30	\$2,960.53
		4	0.30	\$2,960.53
		5	0.30	\$2,960.53
		5	0.30	\$2,960.53
		5	0.30	\$2,960.53
		5	0.30	\$2,960.53
		6	0.30	\$2,960.53
		7	0.30	\$2,960.53
		8	0.30	\$2,960.53
		9	0.30	\$2,960.53
		10	0.30	\$2,960.53
			FIELD -	
			WORK /	
			MM	
		1	0.30	\$2,960.53
		2	0.50	\$4,934.21
		3	0.30	\$2,960.53

COST & SCHEDULE ITEM NUMBER	WORK DESCRIPTION	CRITERIA	PLANNED MM	BUDGET AMOUNT BCWS
		4	0.30	\$2,960.53
		4	0.30	\$2,960.53
		4	0.30	\$2,960.53
		5	0.30	\$2,960.53
		5	0.30	\$2,960.53
		5	0.30	\$2,960.53
		5	0.30	\$2,960.53
		6	0.30	\$2,960.53
		7	0.30	\$2,960.53
		8	0.30	\$2,960.53
		9	0.30	\$2,960.53
		10	0.30	\$2,960.53
			15.20	\$150,000.00
1.C.2.A	Gather/Inventory/Store: FSAR	1	2.00	\$58,666.67
	\$88,000.00	2	1.00	\$29,333.33
			3.00	\$88,000.00
1.C.2.B	Safety Assessment	1	5.00	\$88,000.00
	\$88,000.00		5.00	\$88,000.00
1.C.2.C	Issue WHC Approved FSAR	1	6.00	\$88,000.00
	\$88,000.00		6.00	\$88,000.00

COST & SCHEDULE ITEM NUMBER	WORK DESCRIPTION	CRITERIA	PLANNED MM	BUDGET AMOUNT BCWS
1.C.2.D	Permits & Compliance	1	2.00	\$430,000.0 0
	\$430,000.00			
			2.00	\$430,000.0 0
1.C.3.A	Lysimeter Removal (PNL)		FIELD -	
	\$720,000.00		WORK /	
			MM	
		1	72.00	\$720,000.0 0
			72.00	\$720,000.0 0
1.C.3.B	NDT Work & Character.	1	7.00	\$22,272.73
	\$140,000.00	2	15.00	\$47,727.27
			FIELD -	
			WORK /	
			MM	
		1	7.00	\$22,272.73
		2	15.00	\$47,727.27
			44.00	\$140,000.0 0
1.C.3.C	Cold Cap Demolition		FIELD -	
	\$320,000.00		WORK /	

COST & SCHEDULE ITEM NUMBER	WORK DESCRIPTION	CRITERIA	PLANNED MM	BUDGET AMOUNT BCWS
			MM	
		1	32.00	\$320,000.0 0
			32.00	\$320,000.0 0
1.C.4	Performance Assessment		FIELD -	
	\$330,000.00		WORK /	
			MM	
		1	7.00	\$330,000.0 0
			7.00	\$330,000.0 0
1.C.5	Project Closeout	1	1.00	\$20,000.00
	\$220,000.00	2	1.00	\$20,000.00
		3	1.00	\$20,000.00
		4	1.00	\$20,000.00
		5	1.00	\$20,000.00
		6	1.00	\$20,000.00
		7	1.00	\$20,000.00
		8	1.00	\$20,000.00
		9	1.00	\$20,000.00
			FIELD -	
			WORK /	

COST & SCHEDULE ITEM NUMBER	WORK DESCRIPTION	CRITERIA	PLANNED MM	BUDGET AMOUNT BCWS
			MM	
		1	0.00	\$0.00
		2	0.00	\$0.00
		3	2.00	\$40,000.00
		4	0.00	\$0.00
		5	0.00	\$0.00
		6	0.00	\$0.00
		7	0.00	\$0.00
		8	0.00	\$0.00
		9	0.00	\$0.00
			11.00	\$220,000.00
1.C.6.A.1	Decontaminate Vault 101	1	0.10	\$2,149.53
	\$230,000.00	2	0.10	\$2,149.53
	(Budget for all 1.C.6.A work)	3	0.10	\$2,149.53
		4	0.10	\$2,149.53
		5	0.10	\$2,149.53
		6	0.10	\$2,149.53
			FIELD -	
			WORK /	
			MM	
		1	0.30	\$6,448.60
		2	0.30	\$6,448.60
		3	1.00	\$21,495.33
		4	0.30	\$6,448.60
		5	0.30	\$6,448.60
		6	0.30	\$6,448.60

COST & SCHEDULE ITEM NUMBER	WORK DESCRIPTION	CRITERIA	PLANNED MM	BUDGET AMOUNT BCWS
1.C.6.A.2	Deactivate Vault 101	1	0.10	\$2,149.53
			FIELD -	
			WORK /	
			MM	
		1	5.00	\$107,476.6 4
1.C.6.A.3	Close Vault 101	1	0.10	\$2,149.53
		2	0.10	\$2,149.53
		3	0.10	\$2,149.53
		4	0.10	\$2,149.53
		5	0.10	\$2,149.53
		6	0.10	\$2,149.53
		7	0.10	\$2,149.53
			FIELD -	
			WORK /	
			MM	
		1	0.20	\$4,299.07
		2	0.10	\$2,149.53
		3	0.50	\$10,747.66
		4	0.30	\$6,448.60
		5	0.30	\$6,448.60
		6	0.20	\$4,299.07
		7	0.20	\$4,299.07
			10.70	\$230,000.0 0
1.C.6.B.1	Deactivate Utilities Vaults	1	0.10	\$646.65
	102>105	2	0.10	\$646.65
	\$280,000.00	2	0.10	\$646.65

COST & SCHEDULE ITEM NUMBER	WORK DESCRIPTION	CRITERIA	PLANNED MM	BUDGET AMOUNT BCWS
	(Budget for all 1.C.6.B work)	3	0.10	\$646.65
		3	0.10	\$646.65
		3	0.10	\$646.65
		3	0.10	\$646.65
		4	0.10	\$646.65
		5	0.10	\$646.65
		6	0.10	\$646.65
			FIELD -	
			WORK /	
			MM	
		1	1.00	\$6,466.51
		2	0.30	\$1,939.95
		2	1.00	\$6,466.51
		3	0.30	\$1,939.95
		3	0.30	\$1,939.95
		3	0.30	\$1,939.95
		3	0.30	\$1,939.95
		4	1.00	\$6,466.51
		5	1.00	\$6,466.51
		6	0.50	\$3,233.26
1.C.6.B.2	Close Vaults 102>105	1	0.10	\$646.65
		1	0.10	\$646.65
		1	0.10	\$646.65
		1	0.10	\$646.65
		2	0.10	\$646.65
		3	0.10	\$646.65
		3	0.10	\$646.65
		4	0.10	\$646.65
		5	0.10	\$646.65
		6	0.10	\$646.65

COST & SCHEDULE ITEM NUMBER	WORK DESCRIPTION	CRITERIA	PLANNED MM	BUDGET AMOUNT BCWS
		7	0.10	\$646.65
		8	0.10	\$646.65
		9	0.10	\$646.65
		10	0.10	\$646.65
		11	0.10	\$646.65
		12	0.10	\$646.65
		13	0.10	\$646.65
		13	0.10	\$646.65
		13	0.10	\$646.65
		13	0.10	\$646.65
		14	0.10	\$646.65
		14	0.10	\$646.65
		14	0.10	\$646.65
		14	0.10	\$646.65
		15	0.10	\$646.65
		15	0.10	\$646.65
		15	0.10	\$646.65
		15	0.10	\$646.65
		16	0.10	\$646.65
		16	0.10	\$646.65
		16	0.10	\$646.65
		16	0.10	\$646.65
		17	0.10	\$646.65
		17	0.10	\$646.65
		17	0.10	\$646.65
		18	0.10	\$646.65
		19	0.00	\$0.00
		20	0.10	\$646.65
		21	0.10	\$646.65
		22	0.10	\$646.65
		23	0.10	\$646.65

COST & SCHEDULE ITEM NUMBER	WORK DESCRIPTION	CRITERIA	PLANNED MM	BUDGET AMOUNT BCWS
			FIELD -	
			WORK /	
			MM	
		1	0.30	\$1,939.95
		1	0.30	\$1,939.95
		1	0.30	\$1,939.95
		1	0.30	\$1,939.95
		2	0.50	\$3,233.26
		3	0.30	\$1,939.95
		3	0.30	\$1,939.95
		4	0.50	\$3,233.26
		5	1.00	\$6,466.51
		6	1.00	\$6,466.51
		7	0.50	\$3,233.26
		8	0.50	\$3,233.26
		9	0.50	\$3,233.26
		10	1.00	\$6,466.51
		11	0.10	\$646.65
		12	0.20	\$1,293.30
		13	0.20	\$1,293.30
		13	0.20	\$1,293.30
		13	0.20	\$1,293.30
		13	0.20	\$1,293.30
		14	0.20	\$1,293.30
		14	0.20	\$1,293.30
		14	0.20	\$1,293.30
		14	0.20	\$1,293.30
		15	0.20	\$1,293.30
		15	0.20	\$1,293.30
		15	0.20	\$1,293.30
		15	0.20	\$1,293.30

COST & SCHEDULE ITEM NUMBER	WORK DESCRIPTION	CRITERIA	PLANNED MM	BUDGET AMOUNT BCWS
		2	0.20	\$1,578.95
		2	0.20	\$1,578.95
		2	0.20	\$1,578.95
		2	0.20	\$1,578.95
		2	0.20	\$1,578.95
		2	0.20	\$1,578.95
		2	0.20	\$1,578.95
		2	0.20	\$1,578.95
		2	0.20	\$1,578.95
		2	0.20	\$1,578.95
		2	0.20	\$1,578.95
		2	0.20	\$1,578.95
		3	0.20	\$1,578.95
		3	0.20	\$1,578.95
		3	0.20	\$1,578.95
		3	0.20	\$1,578.95
		3	0.20	\$1,578.95
		3	0.20	\$1,578.95
		3	0.20	\$1,578.95
		3	0.20	\$1,578.95
		3	0.20	\$1,578.95
		3	0.20	\$1,578.95
		4	0.20	\$1,578.95
		4	0.20	\$1,578.95
		5	0.20	\$1,578.95
1.C.7.A.2	Close 2400-E	1	0.10	\$789.47
	(Control Room)	2	0.10	\$789.47
		3	0.10	\$789.47
		4	0.10	\$789.47
		4	0.10	\$789.47
		5	0.10	\$789.47
		6	0.10	\$789.47
		7	0.10	\$789.47

COST & SCHEDULE ITEM NUMBER	WORK DESCRIPTION	CRITERIA	PLANNED MM	BUDGET AMOUNT BCWS
		8	0.10	\$789.47
		9	0.10	\$789.47
			FIELD -	
			WORK /	
			MM	
		1	0.20	\$1,578.95
		2	0.50	\$3,947.37
		3	1.00	\$7,894.74
		4	0.50	\$3,947.37
		4	0.10	\$789.47
		5	0.50	\$3,947.37
		6	0.50	\$3,947.37
		7	0.50	\$3,947.37
		8	0.20	\$1,578.95
		9	0.20	\$1,578.95
			19.00	\$150,000.00
1.C.7.B.1	Deactivate 2451-E	1	0.10	\$7,142.86
	(Substation)	2	0.10	\$7,142.86
	\$150,000.00		FIELD -	
	(Budget for all 1.C.7.B work)		WORK /	
			MM	
		1	0.20	\$14,285.71
		2	0.20	\$14,285.71
1.C.7.B.2	Close 2451-E	1	0.10	\$7,142.86
	(Substation)	2	0.10	\$7,142.86
		3	0.10	\$7,142.86

COST & SCHEDULE ITEM NUMBER	WORK DESCRIPTION	CRITERIA	PLANNED MM	BUDGET AMOUNT BCWS
		4	0.10	\$7,142.86
		5	0.10	\$7,142.86
			FIELD -	
			WORK /	
			MM	
		1	0.20	\$14,285.71
		2	0.20	\$14,285.71
		3	0.20	\$14,285.71
		4	0.20	\$14,285.71
		5	0.20	\$14,285.71
			2.10	\$150,000.0 0
1.C.7.C.1	Deactivate Utilities 2403-EA	1	0.10	\$4,545.45
	(AC2/AC3 Compress. Bldg)	1	0.10	\$4,545.45
	\$150,000.00	2	0.10	\$4,545.45
	(Budget for all 1.C.7.C work)		FIELD -	
			WORK /	
			MM	
		1	0.20	\$9,090.91
		1	0.20	\$9,090.91
		2	0.20	\$9,090.91
1.C.7.C.2	Close 2403-EA	1	0.10	\$4,545.45
	(AC2/AC3 Compress. Bldg)	2	0.10	\$4,545.45
		3	0.10	\$4,545.45
		4	0.10	\$4,545.45

COST & SCHEDULE ITEM NUMBER	WORK DESCRIPTION	CRITERIA	PLANNED MM	BUDGET AMOUNT BCWS
		4	0.10	\$4,545.45
		5	0.10	\$4,545.45
		6	0.10	\$4,545.45
		7	0.10	\$4,545.45
			FIELD -	
			WORK /	
			MM	
		1	0.10	\$4,545.45
		2	0.20	\$9,090.91
		3	0.20	\$9,090.91
		4	0.20	\$9,090.91
		4	0.20	\$9,090.91
		5	0.20	\$9,090.91
		6	0.30	\$13,636.36
		7	0.20	\$9,090.91
			3.30	\$150,000.0 0
1.C.7.D.1	Deactivate Utilities 2404-E	1	0.10	\$4,166.67
	(Compressor Bldg)	1	0.10	\$4,166.67
	\$150,000.00	2	0.10	\$4,166.67
	(Budget for all 1.C.7.D work)	3	0.10	\$4,166.67
		4	0.10	\$4,166.67
			FIELD -	
			WORK /	
			MM	
		1	0.20	\$8,333.33
		1	0.20	\$8,333.33
		2	0.20	\$8,333.33

COST & SCHEDULE ITEM NUMBER	WORK DESCRIPTION	CRITERIA	PLANNED MM	BUDGET AMOUNT BCWS
		3	0.20	\$8,333.33
		4	0.20	\$8,333.33
1.C.7.D.2	Close 2404-E	1	0.10	\$4,166.67
	(Compressor Bldg)	2	0.10	\$4,166.67
		3	0.10	\$4,166.67
		4	0.10	\$4,166.67
		5	0.10	\$4,166.67
		6	0.10	\$4,166.67
		7	0.10	\$4,166.67
			FIELD -	
			WORK /	
			MM	
		1	0.20	\$8,333.33
		2	0.20	\$8,333.33
		3	0.20	\$8,333.33
		4	0.20	\$8,333.33
		5	0.20	\$8,333.33
		6	0.20	\$8,333.33
		7	0.20	\$8,333.33
			3.60	\$150,000.00
1.C.7.E.1	Decontaminate	1	0.10	\$2,446.81
	(Dry Mat. Storage Bins)	1	0.10	\$2,446.81
	\$230,000.00	1	0.10	\$2,446.81
	(Budget for all 1.C.7.E work)	1	0.10	\$2,446.81
		1	0.10	\$2,446.81
		2	0.10	\$2,446.81
		2	0.10	\$2,446.81

COST & SCHEDULE ITEM NUMBER	WORK DESCRIPTION	CRITERIA	PLANNED MM	BUDGET AMOUNT BCWS
		2	0.10	\$2,446.81
		3	0.10	\$2,446.81
			FIELD -	
			WORK /	
			MM	
		1	0.20	\$4,893.62
		1	0.20	\$4,893.62
		1	0.20	\$4,893.62
		1	0.20	\$4,893.62
		1	0.50	\$12,234.04
		2	0.50	\$12,234.04
		2	0.20	\$4,893.62
		2	0.20	\$4,893.62
		3	0.20	\$4,893.62
1.C.7.E.2	Deactivate Utilities	1	0.10	\$2,446.81
	(Dry Mat. Storage Bins)		FIELD -	
			WORK /	
			MM	
		1	0.50	\$12,234.04
1.C.7.E.3	Close	1	0.10	\$2,446.81
	(Dry Mat. Storage Bins)	2	0.10	\$2,446.81
		3	0.10	\$2,446.81
		4	0.10	\$2,446.81
		5	0.10	\$2,446.81
		5	0.10	\$2,446.81
		5	0.10	\$2,446.81
		6	0.10	\$2,446.81

COST & SCHEDULE ITEM NUMBER	WORK DESCRIPTION	CRITERIA	PLANNED MM	BUDGET AMOUNT BCWS
		7	0.10	\$2,446.81
		8	0.10	\$2,446.81
			FIELD -	
			WORK /	
			MM	
		1	0.10	\$2,446.81
		2	0.30	\$7,340.43
		3	1.00	\$24,468.09
		4	1.00	\$24,468.09
		5	0.50	\$12,234.04
		5	0.20	\$4,893.62
		5	0.20	\$4,893.62
		6	0.50	\$12,234.04
		7	0.50	\$12,234.04
		8	0.20	\$4,893.62
			9.40	\$230,000.00
1.C.7.F.1	Deactivate Utilities	1	0.10	\$3,000.00
	(2402-EA Rail Car Unloading)	2	0.10	\$3,000.00
	\$150,000.00	3	0.10	\$3,000.00
	(Budget for all 1.C.1.F work)	3	0.10	\$3,000.00
			FIELD -	
			WORK /	
			MM	
		1	0.50	\$15,000.00

COST & SCHEDULE ITEM NUMBER	WORK DESCRIPTION	CRITERIA	PLANNED MM	BUDGET AMOUNT BCWS
		2	0.40	\$12,000.00
		3	0.30	\$9,000.00
		3	0.30	\$9,000.00
1.C.7.F.2	Close	1	0.10	\$3,000.00
	(2402-EA Rail Car Unloading)	2	0.10	\$3,000.00
		3	0.10	\$3,000.00
		4	0.10	\$3,000.00
		4	0.10	\$3,000.00
		5	0.10	\$3,000.00
		6	0.10	\$3,000.00
		7	0.10	\$3,000.00
		8	0.10	\$3,000.00
			FIELD -	
			WORK /	
			MM	
		1	0.10	\$3,000.00
		2	0.10	\$3,000.00
		3	0.30	\$9,000.00
		4	0.50	\$15,000.00
		4	0.30	\$9,000.00
		5	0.30	\$9,000.00
		6	0.20	\$6,000.00
		7	0.20	\$6,000.00
		8	0.20	\$6,000.00
			5.00	\$150,000.00

COST & SCHEDULE ITEM NUMBER	WORK DESCRIPTION	CRITERIA	PLANNED MM	BUDGET AMOUNT BCWS
1.C.7.G.1	Deactivate Utilities 2402-EG	1	0.10	\$5,000.00
	(Blend Pump Pit)		FIELD -	
	\$150,000.00		WORK /	
	(Budget for all 1.C.7.G work)		MM	
		1	0.30	\$15,000.00
1.C.7.G.2	Close 2402-EG	1	0.10	\$5,000.00
	(Blend Pump Pit)	2	0.10	\$5,000.00
		3	0.10	\$5,000.00
		4	0.10	\$5,000.00
		5	0.10	\$5,000.00
		6	0.10	\$5,000.00
		7	0.10	\$5,000.00
			FIELD -	
			WORK /	
			MM	
		1	0.10	\$5,000.00
		2	0.10	\$5,000.00
		3	0.30	\$15,000.00
		4	0.50	\$25,000.00
		5	0.50	\$25,000.00
		6	0.20	\$10,000.00
		7	0.20	\$10,000.00
			3.00	\$150,000.0 0

COST & SCHEDULE ITEM NUMBER	WORK DESCRIPTION	CRITERIA	PLANNED MM	BUDGET AMOUNT BCWS
1.C.8.A	Deactivate Utilities	1	0.10	\$8,333.33
	(Feed Transfer System)	1	0.10	\$8,333.33
	\$500,000.00	2	0.10	\$8,333.33
		3	0.10	\$8,333.33
		3	0.10	\$8,333.33
			FIELD -	
			WORK /	
			MM	
		1	0.20	\$16,666.67
		1	0.20	\$16,666.67
		2	0.50	\$41,666.67
		3	2.00	\$166,666.67
		3	2.00	\$166,666.67
1.C.8.B	Close	1	0.10	\$8,333.33
	(Feed Transfer System)		FIELD -	
			WORK /	
			MM	
		1	0.50	\$41,666.67
			6.00	\$500,000.00
1.C.9	Reporting/Open Issues			
	\$1,200,000.00	1	0.10	\$14,457.83
		2	0.10	\$14,457.83

COST & SCHEDULE ITEM NUMBER	WORK DESCRIPTION	CRITERIA	PLANNED MM	BUDGET AMOUNT BCWS
		3	0.10	\$14,457.83
		4	0.10	\$14,457.83
		5	0.10	\$14,457.83
		6	0.10	\$14,457.83
		7	0.10	\$14,457.83
		8	0.10	\$14,457.83
		9	0.20	\$28,915.66
		10	0.10	\$14,457.83
		11	0.10	\$14,457.83
		12	0.10	\$14,457.83
		13	0.10	\$14,457.83
		14	0.10	\$14,457.83
		15	0.10	\$14,457.83
		16	0.10	\$14,457.83
		17	0.10	\$14,457.83
		18	0.10	\$14,457.83
		19	0.10	\$14,457.83
		20	0.10	\$14,457.83
		21	0.10	\$14,457.83

COST & SCHEDULE ITEM NUMBER	WORK DESCRIPTION	CRITERIA	PLANNED MM	BUDGET AMOUNT BCWS
		22	0.10	\$14,457.83
		23	0.10	\$14,457.83
		24	0.10	\$14,457.83
		25	0.50	\$72,289.16
		26	0.20	\$28,915.66
		27	0.10	\$14,457.83
		28	0.10	\$14,457.83
		29	0.10	\$14,457.83
		30	0.10	\$14,457.83
		31	0.10	\$14,457.83
		32	0.10	\$14,457.83
		33	0.10	\$14,457.83
		34	0.10	\$14,457.83
		35	0.10	\$14,457.83
		36	0.20	\$28,915.66
		37	0.10	\$14,457.83
		38	0.10	\$14,457.83
		39	0.50	\$72,289.16
		40	0.10	\$14,457.83

COST & SCHEDULE ITEM NUMBER	WORK DESCRIPTION	CRITERIA	PLANNED MM	BUDGET AMOUNT BCWS
		41	1.00	\$144,578.3 1
			FIELD-	
			WORK/	
			MM	
		1	0.50	\$72,289.16
		2	0.00	\$0.00
		3	0.00	\$0.00
		4	0.00	\$0.00
		5	0.10	\$14,457.83
		6	0.00	\$0.00
		7	0.10	\$14,457.83
		8	0.00	\$0.00
		9	1.00	\$144,578.3 1
		10	0.00	\$0.00
		11	0.00	\$0.00
		12	0.00	\$0.00
		13	0.00	\$0.00
		14	0.10	\$14,457.83
		15	0.00	\$0.00
		16	0.00	\$0.00
		17	0.00	\$0.00
		18	0.00	\$0.00
		19	0.00	\$0.00
		20	0.00	\$0.00
		21	0.00	\$0.00
		22	0.00	\$0.00
		23	0.00	\$0.00
		24	0.00	\$0.00

COST & SCHEDULE ITEM NUMBER	WORK DESCRIPTION	CRITERIA	PLANNED MM	BUDGET AMOUNT BCWS
		25	0.10	\$14,457.83
		26	0.10	\$14,457.83
		27	0.00	\$0.00
		28	0.00	\$0.00
		29	0.00	\$0.00
		30	0.00	\$0.00
		31	0.00	\$0.00
		32	0.00	\$0.00
		33	0.00	\$0.00
		34	0.00	\$0.00
		35	0.10	\$14,457.83
		36	0.10	\$14,457.83
		37	0.00	\$0.00
		38	0.00	\$0.00
		39	0.00	\$0.00
		40	0.00	\$0.00
		41	0.00	\$0.00
			8.30	\$1,200,000.00
	BUDGET TOTALS		649.91	\$8,690,100.00

APPENDIX H GROUT DEACTIVATION SCHEDULE