

Sta. A (3)

OCT 31 1997

ENGINEERING DATA TRANSMITTAL

2. To: (Receiving Organization) Project W-320	3. From: (Originating Organization) Operations and Project Safety Support	4. Related EDT No.: N/A
5. Proj./Prog./Dept./Div.: W-320, C-106 Sluicing	6. Cog. Engr.: R.G. Stickney	7. Purchase Order No.: N/A
8. Originator Remarks: Review and sign for approval. If you have any questions please call RG Stickney on 376-4525 or Ed Dodd Jr on either. 373-0245 or 946-7111.		9. Equip./Component No.: N/A
11. Receiver Remarks: <i>Design Baseline Document? NO</i>		10. System/Bldg./Facility: N/A
		12. Major Assm. Dwg. No.: N/A
		13. Permit/Permit Application No.: N/A
		14. Required Response Date: N/A

15. DATA TRANSMITTED					(F)	(G)	(H)	(I)
(A) Item No.	(B) Document/Drawing No.	(C) Sheet No.	(D) Rev. No.	(E) Title or Description of Data Transmitted	Approval Designator	Reason for Transmittal	Originator Disposition	Receiver Disposition
1	HNF-SD- ^{WA} W320-IMP-001- ^{RG S 10/30/97} 005	A11	0	Project W-320 Basis of Interim Operation Compliance Implementation Plan	N/A	1		

16. KEY

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

17. SIGNATURE/DISTRIBUTION (See Approval Designator for required signatures)

(G)	(H)	(J) Name	(K) Signature	(L) Date	(M) MSIN	(J) Name	(K) Signature	(L) Date	(M)	(G)	(H)
1	1	Design Auth. JW Bailey	<i>JW Bailey</i>	6/16/97	52-48	JG Propson	<i>JG Propson</i>	6-9-97		1	1
1	1	Cog. Eng. RG Stickney	<i>RG Stickney</i>	6/15/97	21-49	OM Serrano	<i>OM Serrano</i>	970606		1	1
1	1	Cog. Mgr. CE Leach	<i>CE Leach</i>	6/9/97	21-49	GW Gault	<i>GW Gault</i>	005		1	1
4	4	Safety MN Islam	<i>MN Islam</i>	6/9/97		WM Funderburke	<i>WM Funderburke</i>	76/6-10-97		1	1
1	1	Project Manager JW Lentsch	<i>JW Lentsch</i>	6/5/97		WE Ross	<i>WE Ross</i>	6/7/97		1	1
1	1	TWRS Safety and Lic. Mgr. TC Geer	<i>TC Geer</i>	6/10/97		DE Bowers	<i>DE Bowers</i>	6/6/97		6	6
4	4	Environ. RK P'Pool	<i>R.K. P'Pool</i>	6-6-97							

18. Signature of EDT Originator <i>[Signature]</i> Date: 6/2/97	19. Authorized Representative Date for Receiving Organization Date: _____	20. Cognizant Manager <i>[Signature]</i> Date: 6/9/97	21. DOE APPROVAL (if required) Ctr1. No. <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/comments <input type="checkbox"/> Disapproved w/comments
---	--	---	--

Project W-320 Basis of Interim Operation Compliance Implementation Plan

E. N. Dodd, Jr., R. G. Stickney
Fluor Daniel Hanford, Richland, WA 99352
U.S. Department of Energy Contract DE-AC06-96RL13200

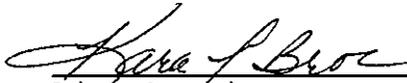
EDT/ECN: 141697 UC: 2030
Org Code: 2N140 Charge Code: D2M77
B&R Code: EW3130010 Total Pages: 40

Key Words: Basis for Interim Operation, BIO, Implementation Plan, CIP,
Waste Retrieval Sluicing System, WRSS.

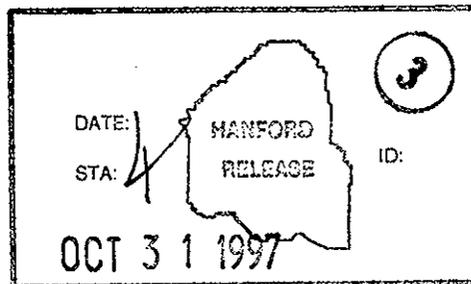
Abstract: This document provides the plan for implementation of the authorization basis controls for the Tank 241-C-106 Waste Retrieval Sluicing System (WRSS), Project W-320, to assure compliance with the TWRS BIO and WRSS addendum (BIO Addendum 1). It provides the responsibilities, schedule and cost information for implementation of the Project W-320 controls.

TRADEMARK DISCLAIMER. 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.

Printed in the United States of America. To obtain copies of this document, contact: WHC/BCS Document Control Services, P.O. Box 1970, Mailstop H6-08, Richland WA 99352, Phone (509) 372-2420; Fax (509) 376-4989.


Release Approval

10/30/97
Date



Release Stamp

Approved for Public Release

**TANK 241-C-106 WASTE RETRIEVAL SLUICING SYSTEM (WRSS)
PROJECT W-320
COMPLIANCE IMPLEMENTATION PLAN
HNF-SD-WM-IMP-005
REVISION 0**

June, 1997

TABLE OF CONTENTS

1.0	INTRODUCTION	1
1.1	BACKGROUND	1
1.2	PURPOSE AND OBJECTIVES	1
1.3	SCOPE	2
2.0	W-320 CIP DEVELOPMENT	3
2.1	METHODOLOGY	3
2.2	ADDITIONAL RISK REDUCTION CONTROLS	3
2.3	CURRENT SAFETY AUTHORIZATION BASIS DISPOSITION	3
3.0	IMPLEMENTATION APPROACH	5
3.1	EXECUTION PLAN	5
3.2	TRAINING	5
4.0	ORGANIZATION AND RESPONSIBILITIES	7
5.0	IMPLEMENTATION OF REQUIREMENTS/CONTROLS	9
5.1	DEVELOPMENT OF CONTROL IMPLEMENTATION	9
5.2	LCO 3.1.1 TRANSFER SYSTEM COVERS	9
5.3	LCO 3.1.2 SERVICE WATER PRESSURE DETECTION SYSTEMS	10
5.4	LCO 3.1.3 TRANSFER LEAK DETECTION SYSTEM	11
5.5	LCO 3.1.4 VENTILATION STACK CAM INTERLOCK SYSTEM	12
5.6	LCO 3.2.1 DST AND AWF TANK VENTILATION SYSTEMS	12
5.7	LCO 3.2.2 SST VENTILATION SYSTEMS - ACTIVE	13
5.8	LCO 3.3.1 SST WASTE TEMPERATURE CONTROLS	14
5.9	LCO 3.3.2 DST AND AWT TANK WASTE TEMPERATURE CONTROLS	14
5.10	LCO 3.3.3 TANK 241-AY-102 ANNULUS VENTILATION SYSTEM	15
5.11	AC 5.7 NUCLEAR CRITICALITY SAFETY	16
5.12	AC 5.10 IGNITION CONTROLS	16
5.13	AC 5.12 TRANSFER CONTROLS	17
5.14	AC 5.13 ENCASMENT SEAL LOOP CONTROLS	18
5.15	AC 5.14 EMERGENCY PREPAREDNESS	18
5.16	AC 5.17 EXCAVATION CONTROLS	19
5.17	AC 5.18 HEPA FILTER CONTROLS	20
5.18	AC 5.19 PROCESS INSTRUMENTATION AND MEASURING AND TEST EQUIPMENT	21
5.19	AC 5.20 TRANSFER PUMP ADMINISTRATIVE LOCK CONTROLS	21
5.20	AC 5.22 REQUIREMENTS FOR TRANSFER SYSTEM COVER REMOVAL CONTROLS	22
5.21	AC 5.24 VENTILATION CONTROLS	23
5.22	AC 5.25 TANK 241-C-106 WASTE TEMPERATURE CONTROLS	24
APPENDIX A	CONTROL IMPLEMENTATION MATRIX	A-1

1.0 INTRODUCTION

1.1 BACKGROUND

The U. S. Department of Energy (DOE) is taking action to eliminate safety concerns with regard to storage of high-heat waste in tank 241-C-106 and to demonstrate a tank waste retrieval technology. The proposed action is to move high-heat waste from tank 241-C-106 to a double-shell receiver tank, 241-AY-102. Past practice sluicing technology, a mode of waste retrieval used extensively in the past at the Hanford Site, will be used to perform this transfer. The process is identified as the tank 241-C-106 Waste Retrieval Sluicing System (WRSS), Project W-320.

This proposed action is not currently within the facility authorization basis as determined by a Unreviewed Safety Question (USQ) evaluation performed in accordance with DOE 5480.21 (DOE 1991). As a result, a change to the authorization basis must be prepared and approved by DOE. The document detailing the evaluation of potential impacts associated with construction, operation, and maintenance of the 241-C-106 WRSS is Addendum 1 to HNF-SD-WM-BIO-001, *Tank Waste Remediation System Basis for Interim Operation*. Based on the safety assessment constituting this addendum, controls have been identified to assure the action is performed safely and to eliminate or mitigate potential impacts to facility personnel, the public and the environment. These controls have been promulgated as Technical Safety Requirements.

1.2 PURPOSE AND OBJECTIVES

The purpose of this Compliance Implementation Plan (CIP) is to document the authorized implementation of Tank Farms Technical Safety Requirements (TSRs) applicable to Project W-320 and the Waste Retrieval Sluicing System (WRSS) by the U. S. Department of Energy - Richland Office (RL). This CIP complies with WHC-IP-0842, Volume 4, section 5.6.

To achieve this purpose, the following objectives have been identified:

- To implement the TSRs applicable to project W-320 within the framework of applicable requirements including configuration control and traceability of requirements, procedures, and design.
- To ensure that affected engineering and operations personnel are fully cognizant of, and trained, in the authorization basis for project W-320 and how it must be used to assure project safety.
- To ensure that necessary procedure development and/or revisions and equipment changes are fully evaluated and field tested prior to becoming effective.

1.3 SCOPE

This is a project level implementation plan and the requirements are applicable ONLY TO 241-C-106 and 241-AY-102 in the performance of Project W-320/WRSS action and related activities and is based on the Safety Assessment contained in BIO Addendum 1 and resulting TSRs.

Controls which are already in place as a result of the Basis for Interim Operation (BIO) TSR implementation will not be addressed in this project specific implementation plan beyond the information applicable to Project W-320. Controls necessary for Project W-320 activities that have yet to be implemented by the BIO are addressed in this plan. The costs for Project W-320 control implementation are identified and schedule requirements are stated.

2.0 W-320 CIP DEVELOPMENT

The implementation of the controls identified for safe performance of project W-320 requires significant actions. The purpose of these actions is to maintain an effective authorization basis throughout the period of W-320 performance. Thus, detailed planning is necessary to assure all appropriate actions are performed such that minimal risk is incurred. This CIP presents the upper level of the detailed planning. The following subsection provides a general overview of the organization and contents of the plan.

2.1 METHODOLOGY

In preparing this CIP, knowledgeable and responsible operations personnel were included in the development of the controls and were consulted in the necessary actions and activities for their implementation. The controls development focused on the necessary equipment modifications, difficulty of implementation, potential problem or conflict areas, and general guidance to facilitate implementation.

When the complete list of controls was developed, including the identified defense-in-depth measures, they were reviewed to determine the necessary changes to procedural documentation, and to determine if design changes were necessary. This process resulted in the review of lower tier documentation such as Plant Operating Procedures, Maintenance Procedures, and applicable technical drawings to identify those requiring modification. Subject matter experts then assessed the scope and magnitude of the procedural changes and training experts determined and verified the required training to assure appropriate employees will be educated on the project requirements and controls.

2.2 ADDITIONAL RISK REDUCTION CONTROLS

Additional controls or requirements not included in the TSRs were identified as defense-in-depth measures. These controls or requirements are used to further reduce risk of accidents or mitigate their consequences. These measures are identified in the applicable accident analyses in BIO Addendum 1.

2.3 CURRENT SAFETY AUTHORIZATION BASIS DISPOSITION

The current Authorization Basis which is assumed to be implemented by the time the W-320 controls are implemented is composed of the following documents:

- HNF-SD-WM-BIO-001, Rev 0, *Tank Waste Remediation System Basis for Interim Operations*. This is the new BIO for Tank Farms operations and activities. This document will be amended by Addendum 1 to include the authorization basis for the project W-320 activities and operations.

HNF-SD-WM-IMP-005, Rev. 0

- HNF-SD-WM-TSR-006, Rev B1, *Tank Waste Remediation System Technical Safety Requirements*. This document provides the TSRs for Tank Farm operations and activities and will be amended to encompass the operations and activities associated with project W-320.

These documents will remain as the basic authorization basis for Tank Waste Remediation activities and operations. The specific authorization basis elements for the project W-320 operations and activities will be incorporated into the documents listed above and implemented through this plan.

3.0 IMPLEMENTATION APPROACH

In the development of the Project W-320 CIP, a key element has been assurance that the operations and engineering personnel in the field who will be involved in the performance of the actions are provided a thorough understanding of the new requirements. This will enable them to assume ownership of the requirements and be fully prepared to effectively maintain and operate within the authorization basis for the waste transfer. This involves a commitment by management to provide the necessary resources and support to assure success. The elements of the approach to this end are:

- Involvement of the engineering and operations organizations which will be responsible for the safe performance of the transfer in the process of CIP and controls development and implementation.
- Integration of the project authorization basis into appropriate procedures, systems and operations.
- Training of involved personnel on the project W-320 authorization basis and associated TSRs.
- Utilization of procedural control to effectively manage and control the process.
- Performance of the necessary facility walkdowns, tests and verifications to ensure the new requirements and controls are workable, effective, understood and ready to implement.

The necessary elements and process for carrying out this CIP are described further in the following sections.

3.1 EXECUTION PLAN

Implementation of a portion of the controls and requirements developed for project W-320 will be initiated upon receipt of RL approval of the TWRS BIO and associated TSRs. Implementation of the remaining controls and requirements will begin when the Project W-320 authorization basis (Addendum 1 to the TWRS BIO) is approved by RL and will be complete before sluicing activities begin.

3.2 TRAINING

The training necessary for implementation of Project W-320 activities and actions will be provided to affected personnel prior to start of sluicing. The training to be developed will consist of three modules: general overview training for affected employees and two modules specifically tailored for field operations or support personnel.

The general overview training will provide students with information regarding what constitutes the authorization basis for the project and the overall impact of project controls.

The module developed for field operators will provide detailed information regarding the authorization basis elements that are critical to the performance of their duties. The operators will be instructed in the specific controls, their effect on operations and the specific operations procedures impacted and the relevant changes.

The affected engineering and other support personnel will be trained in the project controls as they relate to changes in the authorization basis documentation.

The costs associated with development and conduct of the necessary training for Project W-320 operations and activities are identified in Program Change Request TWR-97-047, Revision 0 (Project Change Request CR W320-057, Revision 3).

4.0 ORGANIZATION AND RESPONSIBILITIES

Successful implementation of the project W-320 authorization basis amendment and the associated actions will require significant resources from several organizations within TWRS and will impact several facilities. To ensure a smooth, orderly, and expeditious implementation of the controls, certain TWRS organizations and facilities will assume clear and distinct responsibilities for the implementation effort. These roles and responsibilities are defined as follows:

Authorization Basis Management and Implementation (ABMI) shall be responsible for the overall coordination, planning, and oversight of the W-320 authorization basis implementation effort. As part of the process, ABMI will provide oversight of the creation and modification of all procedures and direct the updates of the Authorization Basis Requirements Management Interface (ARMI) database.

Project W-320 will be responsible for all field work necessary to implement the BIO Addendum I controls and requirements for WRSS. This responsibility shall include new equipment installation, equipment modification, procurement, transportation, maintenance actions, and acceptance testing. Project W-320 shall also develop detailed schedules and supply the necessary manpower to complete work items. Readiness assessments and reviews will be conducted to verify implementation of BIO Addendum I controls and requirements.

Safety Analysis will develop the TSRs safety documentation to assure safe performance of project W-320. As controls are determined, this group will expeditiously communicate them to project management and affected key project personnel.

Operations and Projects Safety Support (OPSS) will perform project integration functions, and assist in resolving conflicts between the W-320 authorization basis and other specific TWRS projects. OPSS will also assist ABMI in resolving any conflicts that arise between the BIO TSRs and the IOSRs of specific TWRS projects not covered by the BIO. This group will also review and concur with the disposition of all obsolete Authorization Basis documents.

W-320 Project Manager will ensure that the project mission is carried out and that project objectives and scope are executed safely and within the approved cost, scope, and schedule baselines.

W-320 Design Engineering and Startup and Testing is responsible for equipment and facility modification design, procurement, construction, testing, and turn over to Tank Farms Operations. Responsibilities also include staffing, planning, and scheduling of the above activities.

HNF-SD-WM-IMP-005, Rev. 0

OPSS Licensing Engineer will direct and coordinate the safety authorization basis documentation and amendment to the TWRS Authorization Basis necessary for the performance of the project in a safe and effective manner.

East Tank Farms Operations will be responsible for shift operations, work release and training to support project activities.

TWRS Training will develop, organize, and conduct all training required to implement the controls and requirements stipulated by the BIO.

Quality Assurance and TWRS Safety will verify that all activities are performed in accordance with TWRS Procedures as defined in WHC IP-0842, Volume IV.

TWRS Safety Issue Resolution is responsible for the costs of installation of the SHMS-C in Tanks AY-102 and C-106.

5.0 IMPLEMENTATION OF REQUIREMENTS/CONTROLS

5.1 DEVELOPMENT OF CONTROL IMPLEMENTATION

The following sections provide the details for implementation of the controls identified for successful and safe performance of the Project W-320 transfer. The details provided are for those controls and requirements identified specifically for Project W-320 performance. The implementation of the controls and requirements identified for implementation of the TWRS BIO are detailed in HNF-SD-WM-IMP-001, *Tank Farms Basis for Interim Operation Compliance Implementation Plan* and are not repeated in this CIP.

All new equipment required to implement the controls for the project will conform with the specifications established in *Tank Waste Remediation System Safety Structures, Systems, and Components (SSCs): Requirements and Characteristics* (WHC-SD-WM-RD-057). A safety equipment list (WHC-SD-WM-SEL-033) has been developed that encompasses the equipment requirements for the project and specifies mandatory equipment replacement items for CIP implementation.

All work conducted within the scope of this CIP will be in full accordance with the TWRS Procedures as defined in WHC IP-0842, Volume IV.

The costs associated with equipment development and modifications, facility construction and modifications, procedure changes and documentation of required operations and activities for implementation of the controls and requirements for Project W-320 are identified in Program Change Request TWR-97-047, Revision 0 (Project Change Request CR W320-057, Revision 3).

Implementation of the Project W-320 controls will involve modification of existing operational, maintenance, surveillance, alarm response, and functional and operational test procedures. The procedures affected by the Project W-320 controls are identified in the Control Implementation Matrix (Attachment 1)

The following sections identify the Limiting Conditions for Operation (LCO) and Administrative Controls (AC) necessary for the safe performance of Project W-320 operations and activities and provide details on the implementation actions.

5.2 LCO 3.1.1 TRANSFER SYSTEM COVERS

5.2.1 Equipment Modifications

No additional equipment modifications are necessary for Project W-320 implementation of this control.

5.2.2 Procedural and Administrative Modifications

A total of three procedures relating to transfer system cover blocks associated with project W-320 activities have been identified. These procedures fulfill this requirement, however, they will be modified to accommodate other LCO and AC requirements.

5.2.3 Implementation Schedule

Implementation of all of the controls specified in this LCO will be initiated upon receipt of RL approval of the W-320 addendum to the TWRS BIO and the related TSRs. Implementation including the completion of all required training and the issuance of updated or revised procedures will be completed prior to initiation of sluicing operations.

5.2.4 Cost Estimates

The costs associated with implementing the transfer system cover block controls are included in the Project Change Request identified in section 5.1 above. The costs of the required procedure changes for this LCO have been captured as a part of procedure revisions for other LCOs and ACs.

5.2.5 Waivers and Compensatory Measures

No waivers are requested, nor are any compensatory measures required to implement the controls specified in this LCO.

5.3 LCO 3.1.2 SERVICE WATER PRESSURE DETECTION SYSTEMS

5.3.1 Equipment Modifications

No equipment modifications are required for implementation of LCO 3.1.2 for Project W-320.

5.3.2 Procedural and Administrative Modifications

One Project specific procedure has been identified that will require modification for implementation of this control for Project W-320. One other procedure necessary for implementation of this control is currently in place.

5.3.3 Implementation Schedule

Implementation of all of the controls specified in this LCO will be initiated upon receipt of RL approval of the W-320 addendum to the TWRS BIO and the related TSRs. Implementation including the completion of all required training and the issuance of updated or revised procedures will be completed prior to initiation of sluicing operations.

5.3.4 Cost Estimates

The costs of the required procedure changes for this LCO have been captured as a part of procedure revisions for other LCOs and ACs.

5.3.5 Waivers and Compensatory Measures

No waivers are requested, nor are any compensatory measures required to implement the controls specified in this LCO.

5.4 LCO 3.1.3 TRANSFER LEAK DETECTION SYSTEM

5.4.1 Equipment Modifications

The necessary equipment modifications for this control consist of installation of intrinsically safe and fail-safe leak detectors on the Project W-320 transfer line at 241-AY-02E, 241-C-06A, and 241-C-06C pit locations.

5.4.2 Procedural and Administrative Modifications

A total of two procedures and one Functional Test Procedure relating to transfer leak detection systems associated with project W-320 activities have been identified. These procedures must be modified to accommodate the controls specified in the LCO to support implementation.

5.4.3 Implementation Schedule

The installation of the needed leak detectors will be scheduled per the Project change request identified in Section 5.1. Implementation of all of the controls specified in this LCO will be initiated upon receipt of RL approval of the W-320 addendum to the TWRS BIO and the related TSRs. Implementation including the completion of all required training and the issuance of updated or revised procedures will be completed prior to initiation of sluicing operations.

5.4.4 Cost Estimates

The costs associated with implementation of the leak detection system control are included in the Project Change Request identified in section 5.1 above. The costs of the required procedure changes for this LCO have been captured as a part of procedure revisions for other LCOs and ACs.

5.4.5 Waivers and Compensatory Measures

No waivers are requested, nor are any compensatory measures required to implement the controls specified in this LCO.

5.5 LCO 3.1.4 VENTILATION STACK CAM INTERLOCK SYSTEM

5.5.1 Equipment Modifications

No equipment modifications are necessary for W-320 if those required by the BIO implementation are complete. Specifically, either the 702A or the 702AZ CAM interlock need to have been installed on the AY system and an interlock installed on the 105/106-C system as required by BIO implementation.

5.5.2 Procedural and Administrative Modifications

A total of three procedures relating to ventilation stack CAM interlock system operations related to project W-320 activities have been identified. Both procedures must be modified to accommodate the controls specified in the LCO to support implementation.

5.5.3 Implementation Schedule

Implementation of all of the controls specified in this LCO will be initiated upon receipt of RL approval of the W-320 addendum to the TWRS BIO and the related TSRs. Implementation including the completion of all required training and the issuance of updated or revised procedures will be completed prior to initiation of sluicing operations.

5.5.4 Cost Estimates

The costs of the required procedure changes for this LCO have been included with those of procedure revisions for other LCOs and ACs.

5.5.5 Waivers and Compensatory Measures

No waivers are requested, nor are any compensatory measures required to implement the controls specified in this LCO.

5.6 LCO 3.2.1 DST AND AWF TANK VENTILATION SYSTEMS

5.6.1 Equipment Modifications

No equipment modifications are necessary for the full implementation of this LCO.

5.6.2 Procedural and Administrative Modifications

The procedures relating to the affected primary ventilation systems involved in project W-320 activities that have been identified will be revised during implementation of the TWRS BIO. No further modifications are necessary to accommodate Project W-320.

5.6.3 Implementation Schedule

Implementation of all of the controls specified in this LCO will be initiated upon receipt of RL approval of the W-320 addendum to the TWRS BIO and the related TSRs. Implementation including the completion of all required training and the issuance of updated or revised procedures will be completed prior to initiation of sluicing operations.

5.6.4 Cost Estimates

The costs of the required procedure changes for this LCO have been included with those of procedure revisions for other LCOs and ACs.

5.6.5 Waivers and Compensatory Measures

No waivers are requested, nor are any compensatory measures required to implement the controls specified in this LCO.

5.7 LCO 3.2.2 SST VENTILATION SYSTEMS - ACTIVE

5.7.1 Equipment Modifications

Implementation of this LCO does not require modifications to any Project W-320 equipment.

5.7.2 Procedural and Administrative Modifications

One procedure relating to the ventilation systems in tank C-106 has been identified. This procedure is currently being drafted. One additional procedure related to Project W-320 will require revision.

5.7.3 Implementation Schedule

Implementation of all of the controls specified in this LCO will be initiated upon receipt of RL approval of the W-320 addendum to the TWRS BIO and the related TSRs. Implementation including the completion of all required training and the issuance of updated or revised procedures will be completed prior to initiation of sluicing operations.

5.7.4 Cost Estimates

The costs of the required procedure changes for this LCO have been included with those of procedure revisions for other LCOs and ACs.

5.7.5 Waivers and Compensatory Measures

No waivers are requested, nor are any compensatory measures required to implement the controls specified in this LCO.

5.8 LCO 3.3.1 SST WASTE TEMPERATURE CONTROLS

5.8.1 Equipment Modifications

Implementation of this LCO does not require equipment modifications for performance of W-320 activities.

5.8.2 Procedural and Administrative Modifications

One procedure relating to the tank C-106 waste temperature control has been identified. This procedure requires modification to accommodate the controls specified in the LCO to support implementation.

5.8.3 Implementation Schedule

Implementation of the controls specified in this LCO will be initiated upon receipt of RL approval of the W-320 addendum to the TWRS BIO and the related TSRs is received. Implementation including the completion of all required training and the issuance of updated or revised procedures will be achieved prior to initiation of sluicing operations.

5.8.4 Cost Estimates

The costs of the required procedure changes for this LCO have been included with those of procedure revisions for other LCOs and ACs.

5.8.5 Waivers and Compensatory Measures

No waivers are requested, nor are any compensatory measures required to implement the controls specified in this LCO.

5.9 LCO 3.3.2 DST AND AWT TANK WASTE TEMPERATURE CONTROLS

5.9.1 Equipment Modifications

The equipment modifications necessary for implementation of this control include repair/replacement of thermocouples in AY-102 and installation of a new multiplexer and subsequent connection to the TMACS.

5.9.2 Procedural and Administrative Modifications

A total of three procedures associated with tank AY-102 waste temperature control has been identified. The procedures will need to be modified to accommodate the controls specified in the LCO to support implementation.

5.9.3 Implementation Schedule

Implementation of the controls specified in this LCO will be initiated upon receipt of RL approval of the W-320 addendum to the TWRS BIO and the related TSRs is received. Implementation including the completion of all required training and the issuance of updated or revised procedures will be achieved prior to initiation of sluicing operations.

5.9.4 Cost Estimates

The costs associated with implementation of the DST/AWT waste temperature controls are included in the Project Change Request identified in section 5.1 above. The costs of the required procedure changes for this LCO have been included with those of procedure revisions for other LCOs and ACs.

5.9.5 Waivers and Compensatory Measures

No waivers are requested, nor are any compensatory measures required to implement the controls specified in this LCO.

5.10 LCO 3.3.3 TANK 241-AY-102 ANNULUS VENTILATION SYSTEM

5.10.1 Equipment Modifications

The equipment modifications necessary for implementation of this control include upgrades to the system, installation of annulus blocking capability and possible improvement of cooling capability.

5.10.2 Procedural and Administrative Modifications

One procedure has been identified that will require modification for implementation of this control for Project W-320.

5.10.3 Implementation Schedule

Implementation of the controls specified in this LCO will be initiated upon receipt of RL approval of the W-320 addendum to the TWRS BIO and the related TSRs is received. Implementation including the completion of all required training and the issuance of updated or revised procedures will be achieved prior to initiation of sluicing operations.

5.10.4 Cost Estimates

The costs associated with implementation of the 241-AY-102 annulus ventilation system controls are included in the Project Change Request identified in section 5.1 above. The costs of the required procedure changes for this LCO have been included with those of procedure revisions for other LCOs and ACs.

5.10.5 Waivers and Compensatory Measures

No waivers are requested, nor are any compensatory measures required to implement the controls specified in this AC.

5.11 AC 5.7 NUCLEAR CRITICALITY SAFETY

5.11.1 Equipment Modifications

There are no equipment modifications necessary for implementation of this AC for W-320 activities.

5.11.2 Procedural and Administrative Modifications

No procedure changes are required for Project W-320 activities for implementation of this AC. HNF-IP-1266, *Tank Farm Operations Administrative Controls*, will incorporate all ACs in Chapters numbered to correspond with the AC number. The Criticality Prevention Specification for TWRS will be revised and will include necessary information for exemption of Project W-320 from the concentration limit and subcritical mass ratios.

5.11.3 Implementation Schedule

The controls specified in this AC are in place and implemented.

5.11.4 Cost Estimates

There are no costs associated with implementation of this AC for Project W-320 activities.

5.11.5 Waivers and Compensatory Measures

No waivers are requested, nor are any compensatory measures required to implement the controls specified in this AC.

5.12 AC 5.10 IGNITION CONTROLS

5.12.1 Equipment Modifications

The full implementation of this AC will require the installation and modification of equipment at the affected W-320 locations to comply with the requirements as specified in Appendix E to the BIO.

5.12.2 Procedural and Administrative Modifications

All required modifications of procedures will be performed during implementation of the TWRS BIO. HNF-IP-1266, *Tank Farm Operations Administrative Controls*, will incorporate all ACs in Chapters numbered to correspond with the AC number.

5.12.3 Implementation Schedule

Implementation of the controls specified in this AC will be initiated upon receipt of RL approval of the W-320 addendum to the TWRS BIO and the related TSRs is received. Implementation including the completion of all required training and the issuance of updated or revised procedures will be achieved prior to initiation of sluicing operations.

5.12.4 Cost Estimates

The costs associated with implementing the ignition source controls are included in the Project Change Request identified in section 5.1 above. The costs of the required procedure changes for this AC have been included with those of procedure revisions for other LCOs and ACs.

5.12.5 Waivers and Compensatory Measures

No waivers are requested, nor are any compensatory measures required to implement the controls specified in this AC.

5.13 AC 5.12 TRANSFER CONTROLS

5.13.1 Equipment Modifications

Implementation of this LCO does not require equipment modifications for performance of W-320 activities.

5.13.2 Procedural and Administrative Modifications

A total of two procedures related to W-320 activities associated with the Transfer Controls AC have been identified. Both of these procedures must be modified to accommodate the controls specified in the AC to support implementation. HNF-IP-1266, *Tank Farm Operations Administrative Controls*, will incorporate all ACs in Chapters numbered to correspond with the AC number.

5.13.3 Implementation Schedule

Implementation of the controls specified in this AC will be initiated upon receipt of RL approval of the W-320 addendum to the TWRS BIO and the related TSRs is received. Implementation including the completion of all required training and the issuance of updated or revised procedures will be achieved prior to initiation of sluicing operations.

5.13.4 Cost Estimates

The costs of the required procedure changes for this AC have been included with those of procedure revisions for other LCOs and ACs.

5.13.5 Waivers and Compensatory Measures

No waivers are requested, nor are any compensatory measures required to implement the controls specified in this AC.

5.14 AC 5.13 ENCASUREMENT SEAL LOOP CONTROLS

5.14.1 Equipment Modifications

Implementation of this LCO does not require equipment modifications for performance of W-320 activities.

5.14.2 Procedural and Administrative Modifications

Two Project specific procedures related to encasement seal loop controls necessary for Project W-320 have been identified. Both of these procedures must be modified to accommodate the controls specified in the AC to support implementation. HNF-IP-1266, *Tank Farm Operations Administrative Controls*, will incorporate all ACs in Chapters numbered to correspond with the AC number.

5.14.3 Implementation Schedule

Implementation of the controls specified in this AC will be initiated upon receipt of RL approval of the W-320 addendum to the TWRS BIO and the related TSRs is received. Implementation including the completion of all required training and the issuance of updated or revised procedures will be achieved prior to initiation of sluicing operations.

5.14.4 Cost Estimates

The costs of the required procedure changes for this AC have been included with those of procedure revisions for other LCOs and ACs.

5.14.5 Waivers and Compensatory Measures

No waivers are requested, nor are any compensatory measures required to implement the controls specified in this AC.

5.15 AC 5.14 EMERGENCY PREPAREDNESS

5.15.1 Equipment Modifications

Implementation of this LCO does not require equipment modifications for performance of W-320 activities.

5.15.2 Procedural and Administrative Modifications

One procedure related to emergency preparedness requirements in support of Project W-320 have been identified. This procedure must be modified to accommodate the controls specified in the AC to support implementation. HNF-IP-1266, *Tank Farm Operations Administrative Controls*, will incorporate all ACs in Chapters numbered to correspond with the AC number.

5.15.3 Implementation Schedule

Implementation of the controls specified in this AC will be initiated upon receipt of RL approval of the W-320 addendum to the TWRS BIO and the related TSRs is received. Implementation including the completion of all required training and the issuance of updated or revised procedures will be achieved prior to initiation of sluicing operations.

5.15.4 Cost Estimates

The costs of the required procedure changes for this AC have been included with those of procedure revisions for other LCOs and ACs.

5.15.5 Waivers and Compensatory Measures

No waivers are requested, nor are any compensatory measures required to implement the controls specified in this AC.

5.16 AC 5.17 EXCAVATION CONTROLS

5.16.1 Equipment Modifications

Implementation of this AC in support of Project W-320 will not require modification of any equipment.

5.16.2 Procedural and Administrative Modifications

Two procedures related to excavation controls in support of Project W-320 have been identified. These procedures must be modified to accommodate the controls specified in the AC to support implementation. HNF-IP-1266, *Tank Farm Operations Administrative Controls*, will incorporate all ACs in Chapters numbered to correspond with the AC number.

5.16.3 Implementation Schedule

Implementation of the controls specified in this AC will be initiated upon receipt of RL approval of the W-320 addendum to the TWRS BIO and the related TSRs is received. Implementation including the completion of all required training and the issuance of updated or revised procedures will be achieved prior to initiation of sluicing operations.

5.16.4 Cost Estimates

The costs of the required procedure changes for this AC have been included with those of procedure revisions for other LCOs and ACs.

5.16.5 Waivers and Compensatory Measures

No waivers are requested, nor are any compensatory measures required to implement the controls specified in this AC.

5.17 AC 5.18 HEPA FILTER CONTROLS

5.17.1 Equipment Modifications

Implementation of this AC in support of Project W-320 will not require modification of any equipment.

5.17.2 Procedural and Administrative Modifications

No procedure related to control for HEPA filters associated with Project W-320 has been identified. HNF-IP-1266, *Tank Farm Operations Administrative Controls*, will incorporate all ACs in Chapters numbered to correspond with the AC number.

5.17.3 Implementation Schedule

Implementation of the controls specified in this AC will be initiated upon receipt of RL approval of the W-320 addendum to the TWRS BIO and the related TSRs is received. Implementation including the completion of all required training and the issuance of updated or revised procedures will be achieved prior to initiation of sluicing operations.

5.17.4 Cost Estimates

The costs of the required procedure changes for this AC have been included with those of procedure revisions for other LCOs and ACs.

5.17.5 Waivers and Compensatory Measures

No waivers are requested, nor are any compensatory measures required to implement the controls specified in this AC.

5.18 AC 5.19 PROCESS INSTRUMENTATION AND MEASURING AND TEST EQUIPMENT

5.18.1 Equipment Modifications

Implementation of this AC in support of Project W-320 will require installation of a MIT, a mass flow meter on the slurry transfer line, temperature and flow measurement devices on tank AY-102 and a humidity monitor placed in the exhaust line of AY-102.

5.18.2 Procedural and Administrative Modifications

Three procedures related to process instrumentation and measuring and test equipment related to Project W-320 have been identified. All of these procedures must be modified to accommodate the controls specified in the AC to support implementation. HNF-IP-1266, *Tank Farm Operations Administrative Controls*, will incorporate all ACs in Chapters numbered to correspond with the AC number.

5.18.3 Implementation Schedule

All modifications necessary for implementation of the controls of this AC will be scheduled per the Project change request identified in Section 5.1. Implementation of the controls specified in this AC will be initiated upon receipt of RL approval of the W-320 addendum to the TWRS BIO and the related TSRs is received. Implementation including the completion of all required training and the issuance of updated or revised procedures will be achieved prior to initiation of sluicing operations.

5.18.4 Cost Estimates

The costs associated with instrument design, fabrication and installation for implementation of this AC are included in the Project Change Request identified in section 5.1 above. The costs of the required procedure changes for this AC have been included with those of procedure revisions for other LCOs and ACs.

5.18.5 Waivers and Compensatory Measures

No waivers are requested, nor are any compensatory measures required to implement the controls specified in this AC.

5.19 AC 5.20 TRANSFER PUMP ADMINISTRATIVE LOCK CONTROLS

5.19.1 Equipment Modifications

Implementation of this AC in support of Project W-320 will not require modification of any equipment.

5.19.2 Procedural and Administrative Modifications

No specific procedures related to transfer pump administrative lock controls for Project W-320 have been identified. HNF-IP-1266, *Tank Farm Operations Administrative Controls*, will incorporate all ACs in Chapters numbered to correspond with the AC number.

5.19.3 Implementation Schedule

Implementation of the controls specified in this AC will be initiated upon receipt of RL approval of the W-320 addendum to the TWRS BIO and the related TSRs is received. Implementation including the completion of all required training and the issuance of updated or revised procedures will be achieved prior to initiation of sluicing operations.

5.19.4 Cost Estimates

The costs of the required procedure changes for this AC have been included with those of procedure revisions for other LCOs and ACs.

5.19.5 Waivers and Compensatory Measures

No waivers are requested, nor are any compensatory measures required to implement the controls specified in this AC.

5.20 AC 5.22 REQUIREMENTS FOR TRANSFER SYSTEM COVER REMOVAL CONTROLS

5.20.1 Equipment Modifications

Implementation of this AC in support of Project W-320 will not require modification of any equipment.

5.20.2 Procedural and Administrative Modifications

Two procedures related to controls transfer system cover removal associated with Project W-320 have been identified. Both of these procedures must be modified to accommodate the controls specified in the AC to support implementation. HNF-IP-1266, *Tank Farm Operations Administrative Controls*, will incorporate all ACs in Chapters numbered to correspond with the AC number.

5.20.3 Implementation Schedule

Implementation of the controls specified in this AC will be initiated upon receipt of RL approval of the W-320 addendum to the TWRS BIO and the related TSRs is received. Implementation including the completion of all required training and the issuance of updated or revised procedures will be achieved prior to initiation of sluicing operations.

5.20.4 Cost Estimates

The costs of the required procedure changes for this AC have been included with those of procedure revisions for other LCOs and ACs.

5.20.5 Waivers and Compensatory Measures

No waivers are requested, nor are any compensatory measures required to implement the controls specified in this AC.

5.21 AC 5.24 VENTILATION CONTROLS

5.21.1 Equipment Modifications

Implementation of this AC in support of Project W-320 will require modification of the AY-102 annulus ventilation system to increase its vacuum capacity, to block the annulus distribution legs and to divert the flow to the bottom of the tank.

5.21.2 Procedural and Administrative Modifications

A total of two procedures related to the requirements of this AC for Project W-320 have been identified. Both of these procedures must be modified to accommodate the controls specified in the AC to support Implementation. HNF-IP-1266, *Tank Farm Operations Administrative Controls*, will incorporate all ACs in Chapters numbered to correspond with the AC number.

5.21.3 Implementation Schedule

Implementation of the controls specified in this AC will be initiated upon receipt of RL approval of the W-320 addendum to the TWRS BIO and the related TSRs is received. Implementation including the completion of all required training and the issuance of updated or revised procedures will be achieved prior to initiation of sluicing operations.

5.21.4 Cost Estimates

The costs associated with implementing the AY-102 cooling capacity are included in the Project Change Request identified in section 5.1 above. The costs of the required procedure changes for this AC have been included with those of procedure revisions for other LCOs and ACs.

5.21.5 Waivers and Compensatory Measures

No waivers are requested, nor are any compensatory measures required to implement the controls specified in this AC.

5.22 AC 5.25 TANK 241-C-106 WASTE TEMPERATURE CONTROLS

5.22.1 Equipment Modifications

Implementation of this LCO does not require equipment modifications for performance of W-320 activities.

5.22.2 Procedural and Administrative Modifications

Two procedures relating to the tank C-106 waste temperature control have been identified. These procedures require modification to accommodate the controls specified in the LCO to support implementation. HNF-IP-1266, *Tank Farm Operations Administrative Controls*, will incorporate all ACs in Chapters numbered to correspond with the AC number.

5.22.3 Implementation Schedule

Implementation of the controls specified in this AC will be initiated upon receipt of RL approval of the W-320 addendum to the TWRS BIO and the related TSRs is received. Implementation including the completion of all required training and the issuance of updated or revised procedures will be achieved prior to initiation of sluicing operations.

5.22.4 Cost Estimates

The costs of the required procedure changes for this LCO have been included with those of procedure revisions for other LCOs and ACs.

5.22.5 Waivers and Compensatory Measures

No waivers are requested, nor are any compensatory measures required to implement the controls specified in this LCO.

**APPENDIX A
CONTROL IMPLEMENTATION MATRIX**

Control Implementation Matrix

Section Number	Affected Procedures
<p>LCO 3.1.1</p> <p>SR 3.1.1.1</p>	<p><u>COVER BLOCKS</u></p> <p>T0-320-005 <i>WRSS Initial and Long-term Shutdown System Readiness</i></p> <p>T0-320-006 <i>WRSS Sluicing Operations</i></p> <p>T0-270-256 <i>Transfer from AY-102 to AP-106 (Presluicing excess supernatant transfer)</i></p> <p>T0-320-006 <i>WRSS Sluicing Operations</i></p>
<p>LCO 3.1.2</p> <p>SR 3.1.2.1</p> <p>SR 3.1.2.2</p>	<p><u>SERVICE WATER PRESSURE DETECTION SYSTEM</u></p> <p>T0-270-256 <i>Transfer from AY-102 to AP-106 (Presluicing excess supernatant transfer)</i></p> <p>T0-270-256 <i>Transfer from AY-102 to AP-106 (Presluicing excess supernatant transfer)</i></p> <p>6-TF-508 <i>Diaphragm Operated Pressure Switches</i></p>
<p>LCO 3.1.3</p> <p>SR 3.1.3.1</p>	<p><u>TRANSFER LEAK DETECTION SYSTEM</u></p> <p>T0-270-256 <i>Transfer from AY-102 to AP-106 (Presluicing excess supernatant transfer)</i></p> <p>T0-320-006 <i>WRSS Sluicing Operations</i></p> <p>6-TF-042 <i>Testing of Liquid Detection Elements and Leak Detection Elements (Presluicing excess supernatant transfer line leak detection system)</i></p> <p>TF-FT-049-006 <i>Perform Leak Detection Functional Test for Supernatant and Slurry Transfer Lines</i></p>

Control Implementation Matrix

Section Number	Affected Procedures
<p>LCO 3.1.4</p> <p>SR 3.1.4.1</p> <p>SR 3.1.4.2</p>	<p><u>CAM INTERLOCK SYSTEM</u></p> <p>TO-320-009 <i>WRSS 241-C-106 HVAC Startup/Shutdown for C Farm</i></p> <p>TO-320-006 <i>WRSS Sluicing Operations</i></p> <p>TO-060-050 <i>Portable Exhauster for TK C-105 and TK C-106</i></p> <p>Note: The procedure for AY-102 primary ventilation is dependent upon which system is in use at startup time for W-320. It could be 702-A (TO-060-100) or the W-030 system (TO-060-350).</p> <p>6-TF-504 <i>Eberline Radiation Monitor Functional Check</i></p> <p>6-TF-507 <i>Eberline Beta Air Monitor, Models AM3, AM5, AM3A, AM3A-1 and 700300</i></p>
<p>LCO 3.2.1</p> <p>SR 3.2.1.1</p>	<p><u>DST PRIMARY VENTILATION SYSTEM</u></p> <p>TO-320-005 <i>WRSS Initial and Long-term Shutdown Readiness</i></p> <p>TO-320-006 <i>WRSS Sluicing Operations</i></p> <p>TO-060-100 <i>Operate 702-A Ventilation</i></p> <p>OR</p> <p>TO-060-350 <i>Start, Stop and Operate AY/AZ Tank Ventilation System</i></p> <p>TF-OR-EF-AYAZ-D <i>AY and AZ Tank Farm Daily Rounds</i></p>
<p>LCO 3.2.2</p> <p>SR 3.2.2.1</p>	<p><u>SST VENTILATION SYSTEM</u></p> <p>TO-320-009 <i>241-C-106 WRSS HVAC Startup/Shutdown</i></p> <p>TO-060-050 <i>Portable Exhauster Operation for TK-105-C and TK-106-C</i></p> <p>TF-OR-EF-C-D <i>C, CR Tank Farms and 244-A DCRT Lift Stations Daily Rounds</i></p>

Control Implementation Matrix

Section Number	Affected Procedures
<p>LCO 3.2.3</p> <p>SR 3.2.3.1</p>	<p><u>HEPA FILTER ISOLATION VALVE</u></p> <p>TF-OR-EF-C-W <i>C Farm Weekly Rounds</i></p> <p>TO-060-015 <i>Monitor Breather Filters</i></p> <p>TF-OR-EF-C-D <i>C, CR Tank Farms and 244-A DCRT Lift Stations Daily Rounds</i></p> <p>NOTE: These procedures are not specific to Project W-320 and will be changed during BIO implementation.</p>
<p>LCO 3.2.4</p> <p>SR 3.2.4.1</p>	<p><u>DCRT FLOW REQUIREMENTS</u></p> <p>Not Applicable</p> <p>Not Applicable</p>
<p>LCO 3.2.5</p> <p>SR 3.2.5.1</p>	<p><u>244 AR Ventilation System</u></p> <p>Not Applicable</p> <p>Not Applicable</p>
<p>LCO 3.3.1</p> <p>SR 3.3.1.1</p>	<p><u>C-106 TEMPERATURE LIMITATIONS</u></p> <p>Note: The temperature limitations to be placed on C-106 waste will be provided in a procedure TBD.</p> <p>TO-040-650 <i>Obtain Single Shell Tank Temperatures</i></p>
<p>LCO 3.3.2</p> <p>SR 3.3.2.1</p>	<p><u>AY-102 TEMPERATURE LIMITATIONS</u></p> <p>Note: The temperature limitations to be placed on AY-102 waste will be provided in a procedure TBD.</p> <p>TF-OR-EF-AYAZ-D <i>AY and AZ Tank Farm Daily Rounds</i></p> <p>TO-040-035 <i>Operate TMACS</i></p> <p>OR</p> <p>TO-040-660 <i>Obtain/Record Double Shell Tank Temperature</i></p>

Control Implementation Matrix

Section Number	Affected Procedures
LCO 3.3.3 SR 3.3.3.1	<u>TANK 241-AY-102 ANNULUS VENTILATION SYSTEM</u> T0-060-120 <i>Operate AY Annulus Ventilation System</i> TF-OR-EF-AYAZ-D <i>AY and AZ Tank Farm Daily Rounds</i>
AC 5.1	<u>PURPOSE</u> Applicable to all Tank Farms
AC 5.2	<u>CONTRACTOR RESPONSIBILITY</u> Applicable to all Tank Farms
AC 5.3	<u>COMPLIANCE</u> Applicable to all Tank Farms
AC 5.4	<u>TSR VIOLATIONS</u> Applicable to all Tank Farms
AC 5.5	<u>OCCURRENCE REPORTING</u> Applicable to all Tank Farms
AC 5.6	<u>ORGANIZATION</u> Applicable to all Tank Farms
AC 5.7	<u>NUCLEAR CRITICALITY SAFETY</u> Applicable to all Tank Farms
AC 5.8 a. b.	<u>SOURCE INVENTORY CONTROLS</u> HNF-IP-1266, <i>Tank Farm Operations Administrative Controls</i> , will incorporate all ACs in Chapters numbered to correspond with the AC number. Not Applicable

Control Implementation Matrix

Section Number	Affected Procedures
<p>AC 5.9</p> <p>a.</p> <p>b.</p> <p>c.</p>	<p><u>FLAMMABILITY CONTROLS</u></p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Note: Although not required to implement this control, procedure TO-040-040 <i>Operating the Standard B or Standard C Hydrogen Monitoring System</i> and procedure 6-TF-408 <i>Whittaker Model 114D038-10 Hydrogen Cell with Newport Infinity Electronics Calibration</i> will be modified as part of defense in depth.</p>
<p>AC 5.10</p> <p>a.</p> <p>b.</p> <p>c.</p> <p>d.</p> <p>e.</p> <p>f.</p> <p>g.</p> <p>h.</p>	<p><u>REQUIREMENTS FOR IGNITION CONTROLS</u></p> <p><u>IGNITION CONTROLS</u></p> <p>WHC-SD-WM-HASP-002 <i>Tank Farm Health and Safety Plan</i> and HNF-IP-1266, <i>Tank Farm Operations Administrative Controls</i>, which will incorporate all ACs in Chapters numbered to correspond with the AC number.</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>HNF-SD-WM-BIO-001, Rev 0, Appendix E</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p>

Control Implementation Matrix

Section Number	Affected Procedures
<p>AC 5.10</p> <p>a.</p> <p>b.</p> <p>c.</p>	<p><u>VEHICLE CONTROLS</u></p> <p>HNF-IP-1266, <i>Tank Farm Operations Administrative Controls</i>, will incorporate all ACs in Chapters numbered to correspond with the AC number.</p> <p>WHC-SD-WM-HASP-002 <i>Tank Farm Health and Safety Plan</i> and HNF-IP-1266, <i>Tank Farm Operations Administrative Controls</i>, which will incorporate all ACs in Chapters numbered to correspond with the AC number.</p> <p>Note: Requirement has not been implemented. However, the BIO Implementation effort will prepare a procedure to fulfill this requirement.</p>
<p>AC 5.10</p>	<p><u>IC SET 1 CONTROLS</u></p> <p>Note: Project W-320 equipment is designed to meet these requirements. Refer to design specifications.</p>
<p>AC 5.10</p>	<p><u>IC SET 2 CONTROLS</u></p> <p>Note: Project W-320 equipment is designed to meet these requirements. Refer to design specifications.</p>
<p>AC 5.11</p> <p>a.</p> <p>b.</p> <p>c.</p> <p>d.</p> <p>e.</p>	<p><u>FLAMMABLE GAS MONITORING CONTROLS</u></p> <p>WHC-SD-WM-HASP-002 <i>Hanford Tank Farm Health and Safety Plan</i></p> <p>TO-020-270 <i>Preparation for Work in Diversion Boxes or Pits and Jumper Changes</i></p> <p>WHC-SD-WM-HASP <i>Hanford Tank Farm Health and Safety Plan</i></p> <p>TO-020-270 <i>Preparation for Work in Diversion Boxes or Pits and Jumper Changes</i></p> <p>WHC-SD-WM-HASP-002 <i>Hanford Tank Farm Health and Safety Plan</i></p> <p>NOTE: These procedures will be modified as part of the BIO implementation and are not specific Project W-320.</p>

Control Implementation Matrix

Section Number	Affected Procedures
AC 5.12	<p><u>TRANSFER CONTROLS</u></p> <p>a. HNF-IP-1266, <i>Tank Farm Operations Administrative Controls</i>, will incorporate all ACs in Chapters numbered to correspond with the AC number.</p> <p>b. The PCP is the administrative procedure governing sluicing. TO-320-006 <i>WRSS Sluicing Operations</i> will implement this PCP requirement.</p> <p>c. TO-270-256 <i>Transfer from AY-102 to AP-106 (Presluicing excess supernatant transfer)</i></p> <p>d. TO-270-256 <i>Transfer from AY-102 to AP-106 (Presluicing excess supernatant transfer)</i> TO-320-006 <i>WRSS Sluicing Operations</i></p> <p>e. Not Applicable</p> <p>f. Not Applicable</p> <p>g. HNF-IP-1266, <i>Tank Farm Operations Administrative Controls</i>, will incorporate all ACs in Chapters numbered to correspond with the AC number.</p> <p>h. Requirement has not been implemented. However, the BIO Implementation Activities will prepare a procedure to fulfill this requirement.</p>

Control Implementation Matrix

Section Number	Affected Procedures
<p>AC 5.12 continued</p> <p>a.</p> <p>b.</p> <p>c.</p> <p>d.</p> <p>e.</p> <p>f.</p> <p>g.</p> <p>h.</p>	<p><u>OPERATING REQUIREMENTS</u></p> <p>TO-270-256 <i>Transfer from AY-102 to AP-106 (Presluicing excess supernatant transfer)</i></p> <p>TO-270-256 <i>Transfer from AY-102 to AP-106 (Presluicing excess supernatant transfer)</i></p> <p>Procedure TBD</p> <p>Not Applicable</p> <p>An ECN to the BIO will be used to authorize the use of W-320 SAD limits for controlling the sluicing operations</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>TO-320-006 <i>WRSS Sluicing Operations</i></p> <p>TO-270-256 <i>Transfer from AY-102 to AP-106</i></p>
<p>AC 5.12 continued</p> <p>a.</p>	<p><u>WASTE COMPATIBILITY CONTROLS</u></p> <p>TO-270-256 <i>Transfer from AY-102 to AP-106 (Presluicing excess supernatant transfer)</i></p>
<p>AC 5.13</p>	<p><u>ENCASEMENT SEAL LOOP CONTROLS</u></p> <p>TO-270-256 <i>Transfer from AY-102 to AP-106 (Presluicing excess supernatant transfer)</i></p> <p>TO-320-006 <i>WRSS Sluicing Operations</i></p>

Control Implementation Matrix

Section Number	Affected Procedures
<p>AC 5.14</p> <p>a.</p> <p>b.</p> <p>c.</p> <p>d.</p>	<p><u>EMERGENCY PREPAREDNESS</u></p> <p>WHC-IP-0971 <i>TWRS Emergency Preparedness Program Plan</i></p> <p>WHC-IP-0263-TF <i>Tank Farms Building Emergency Plan</i></p> <p>WHC-IP-0839-TF <i>Tank Farms Emergency Response Guide</i></p> <p>WHC-IP-0839-TF <i>Tank Farms Emergency Response Guide J Seismic Events</i></p> <p>WHC-IP-0263-TF <i>Tank Farms Emergency Response Plan</i> and WHC-IP-1178 <i>Tank Farms Event Response Manual</i></p> <p>WHC-IP-0839-TF <i>Tank Farm Emergency Response Guide</i></p> <p>WHC-IP-0263-TF <i>Tank Farms Emergency Response Plan</i></p> <p>WHC-IP-1178 <i>Tank Farms Event Response Manual</i></p> <p>WHC-IP-0839-TF <i>Tank Farm Emergency Response Guide</i></p> <p>ARP-T-211-00001 <i>Respond to Panel 3 Alarms AT 271-A Control Building</i></p>
<p>AC 5.15</p> <p>a.</p> <p>b.</p> <p>c.</p> <p>d.</p>	<p><u>MOISTURE CONTROLS</u></p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p>
<p>AC 5.16</p> <p>a.</p> <p>b.</p> <p>c.</p>	<p><u>DOMES LOADING CONTROLS</u></p> <p>HNF-IP-1266, <i>Tank Farm Operations Administrative Controls</i>, will incorporate all ACs in Chapters numbered to correspond with the AC number.</p> <p>Applicable to all Tank Farms</p> <p>HNF-IP-1266, <i>Tank Farm Operations Administrative Controls</i>, will incorporate all ACs in Chapters numbered to correspond with the AC number.</p>

Control Implementation Matrix

Section Number	Affected Procedures
<p>AC 5.17</p> <p>a.</p>	<p><u>EXCAVATION CONTROLS</u></p> <p>HNF-IP-1266, <i>Tank Farm Operations Administrative Controls</i>, will incorporate all ACs in Chapters numbered to correspond with the AC number.</p> <p>WHC-CM-8-7 <i>Site Support Services</i></p> <p>WHC-CM-1-8 <i>Work Management Manual</i></p> <p>WHC-IP-1217 <i>Work Management Guidance</i></p> <p>WHC-CM-8-7 <i>Site Support Services</i></p> <p>HNF-IP-1266, <i>Tank Farm Operations Administrative Controls</i>, will incorporate all ACs in Chapters numbered to correspond with the AC number.</p> <p>TO-320-006 <i>WRSS Sluicing Operations</i></p> <p>TO-270-256 <i>Transfer from AY-102 to AP-106 (Presluicing excess supernatant transfer)</i></p>
<p>AC 5.18</p> <p>a.</p> <p>b.</p>	<p><u>HEPA FILTER CONTROLS</u></p> <p>Health Physics Technicians perform weekly surveys under Radiation Survey Task Plans for the DST exhausters. HNF-IP-1266, <i>Tank Farm Operations Administrative Controls</i>, will incorporate all ACs in Chapters numbered to correspond with the AC number.</p> <p>Not Applicable</p>
<p>AC 5.19</p> <p>a.</p> <p>b.</p> <p>c.</p>	<p><u>PROCESS INSTRUMENTATION AND MEASURING AND TEST EQUIPMENT</u></p> <p>A Safety Equipment List (SEL-033) is being compiled by Project W-320.</p> <p>An instrument /calibration setpoint list is being compiled by Project W-320.</p> <p>An instrument /calibration setpoint list is being compiled by Project W-320.</p>

Control Implementation Matrix

Section Number	Affected Procedures
<p>AC 5.20</p> <p>a.</p> <p>b.</p> <p>c.</p>	<p><u>TRANSFER PUMP ADMINISTRATIVE LOCK CONTROLS</u></p> <p>This requirement has not been implemented. HNF-IP-1266, <i>Tank Farm Operations Administrative Controls</i>, will incorporate all ACs in Chapters numbered to correspond with the AC number.</p> <p>The PCP and/or SAD should be revised to include this requirement.</p> <p>Refer to LCO 3.1.1, 3.1.2 and 3.1.3 for their respective methods of implementation</p>
<p>AC 5.21</p> <p>a.</p> <p>b.</p>	<p><u>TANK SERVICE WATER INTRUSION MONITORING PROGRAM</u></p> <p>TF-OR-EF-C-D C, <i>CR Tank Farms and 244A DCRT Lift Station Rounds</i></p> <p>TF-OR-EF-AYAZ-D AY and AZ <i>Tank Farm Daily Rounds</i></p> <p>TO-040-540 <i>Raw Water Surveillance and Usage</i></p> <p>TO-040-540 <i>Raw Water Surveillance and Usage</i></p> <p>NOTE: These procedures will be modified as part of the BIO implementation and are not specific Project W-320.</p>
<p>AC 5.22</p> <p>a.</p> <p>b.</p> <p>c.</p>	<p><u>REQUIREMENTS FOR TRANSFER SYSTEM COVER REMOVAL CONTROLS</u></p> <p>HNF-IP-1266, <i>Tank Farm Operations Administrative Controls</i>, will incorporate all ACs in Chapters numbered to correspond with the AC number.</p> <p>TO-020-270 <i>Perform work in Diversion Boxes or Pits or Jumper Changes</i></p> <p>OSD-T-151-00013 <i>Operating Specifications for SSTs</i> and 00017 <i>Operating Specifications</i> and the AWF</p> <p>This requirement has not been implemented. However, TO-020-270 <i>Preparation for Work in Diversion Boxes or Pits or Jumper Changes</i> should be revised to include this requirement. In addition, all work packages should include this requirement.</p> <p>TO-320-007 <i>Respond to Panel 3 Alarms at 271-A Control Building</i></p>

Control Implementation Matrix

Section Number	Affected Procedures
AC 5.23	<p><u>CAUSTIC TRANSFER CONTROLS</u></p> <p>Applicable to all Tank Farms</p>
AC 5.24	<p><u>VENTILATION CONTROLS</u></p> <p>TO-060-100 <i>Operate 702-A Ventilation</i></p> <p>TO-060-331 <i>Operate 4000 cfm Exhauster</i></p>
AC 5.25	<p><u>TANK 241-C-106 WASTE TEMPERATURE CONTROLS</u></p> <p>Note: The temperature limitation to be placed on tank C-106 post sluicing will be provided in a procedure TBD.</p> <p>TF-OR-EF-C-D C, <i>CR Tank Farms and 244-A DCRT Lift Stations Daily Rounds</i></p> <p>TO-040-650 <i>Obtain Single Shell Tank Temperatures</i></p>