

ENGINEERING CHANGE NOTICE

Page 1 of 2

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Functional Design Criteria	<input type="checkbox"/>	Stress/Design Report	<input type="checkbox"/>	Health Physics Procedure	<input type="checkbox"/>
Operating Specification	<input type="checkbox"/>	Interface Control Drawing	<input type="checkbox"/>	Spares Multiple Unit Listing	<input type="checkbox"/>
Criticality Specification	<input type="checkbox"/>	Calibration Procedure	<input type="checkbox"/>	Test Procedures/Specification	<input type="checkbox"/>
Conceptual Design Report	<input type="checkbox"/>	Installation Procedure	<input type="checkbox"/>	Component Index	<input type="checkbox"/>
Equipment Spec.	<input type="checkbox"/>	Maintenance Procedure	<input type="checkbox"/>	ASME Coded Item	<input type="checkbox"/>
Const. Spec.	<input type="checkbox"/>	Engineering Procedure	<input type="checkbox"/>	Human Factor Consideration	<input type="checkbox"/>
Procurement Spec.	<input type="checkbox"/>	Operating Instruction	<input type="checkbox"/>	Computer Software	<input type="checkbox"/>
Vendor Information	<input type="checkbox"/>	Operating Procedure	<input type="checkbox"/>	Electric Circuit Schedule	<input type="checkbox"/>
OM Manual	<input type="checkbox"/>	Operational Safety Requirement	<input type="checkbox"/>	ICRS Procedure	<input type="checkbox"/>
FSAR/SAR	<input type="checkbox"/>	IEFD Drawing	<input type="checkbox"/>	Process Control Manual/Plan	<input type="checkbox"/>
Safety Equipment List	<input type="checkbox"/>	Cell Arrangement Drawing	<input type="checkbox"/>	Process Flow Chart	<input type="checkbox"/>
Radiation Work Permit	<input type="checkbox"/>	Essential Material Specification	<input type="checkbox"/>	Purchase Requisition	<input type="checkbox"/>
Environmental Impact Statement	<input type="checkbox"/>	Fac. Proc. Samp. Schedule	<input type="checkbox"/>	Tickler File	<input type="checkbox"/>
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Environ. <i>BWZ</i>	<u>3/24/99</u>		
TWRS Operations	<u>3/24/99</u>		
Characterization Project Operations <i>A. John Hunt</i>	<u>3/24/99</u>		
Waste Management <i>SM</i>	<u>3/27/99</u>		
Operating Facilities <i>W.H. Plummer</i>	<u>3/28/99</u>		
Training	<u>3/23/99</u>		
Tank Farm Maintenance <i>W.H. Plummer</i>			

Tank Waste Remediation System Dangerous Waste Training Plan

RE Pohto

Lockheed Martin Hanford Corporation, Richland, WA 99352
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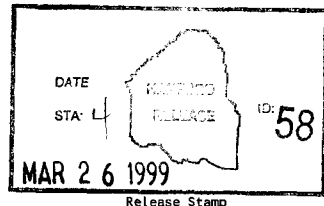
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Abstract: This supporting document contains the training plan for dangerous waste management at Tank Waste Remediation Systems TSD Units

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Tank Waste Remediation System Dangerous Waste Training Plan

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Date Published
March 1999

Prepared for the U.S. Department of Energy

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Hanford Management and Integration Contractor for the
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TANK WASTE REMEDIATION SYSTEM
DANGEROUS WASTE TRAINING PLAN

March 1999

TWRS Environmental

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Acronyms

ACES	Access Control Entry System
BED	Building Emergency Director
CASS	Computer Automated Surveillance System
CFR	Code of Federal Regulations
CPO	Characterization Project Operations
DOT	Department of Transportation
DST	Double-Shell Tank
ECO	Environmental Compliance Officer
Ecology	Washington State Department of Ecology
EPA	Environmental Protection Agency
FDNW	Fluor Daniel Northwest
GSO	Generator Services Operations
IPT	In-Plant-Training
JPM	Job Performance Measure
LMHC	Lockheed Martin Hanford Corporation
LOW	Liquid Observation Wells
OE	Operations Engineer
OJT	On-The-Job Training
PIC	Person-In-Charge
RCRA	Resource Conservation & Recovery Act
SST	Single-Shell Tank
TMACS	Tank Monitoring and Control System
TSD	Treatment, Storage or Disposal Facility
TWRS	Tank Waste Remediation System
WAC	Washington Administrative Code
WMH	Waste Management Federal Services of Hanford, Inc.

1.0 PURPOSE

This document outlines the dangerous waste training program developed and implemented for all Treatment, Storage, and Disposal (TSD) Units operated by Lockheed Martin Hanford Corporation (LMHC) Tank Waste Remediation System (TWRS) in the Hanford 200 East, 200 West and 600 Areas and the <90 Day Accumulation Area at 209E. Operating TSD Units operated by TWRS are: the Double-Shell Tank (DST) System (including 204-AR Waste Transfer Building), the 600 Area Purgewater Storage and the Effluent Treatment Facility (Operated by Waste Management Federal Services of Hanford, Inc.). TSD Units undergoing closure are: the Single-Shell Tank (SST) System, 207-A South Retention Basin, and the 216-B-63 Trench.

The program is designed in compliance with the requirements of Washington Administrative Code (WAC) 173-303-330 and Title 40 Code of Federal Regulations (CFR) 265.16 for the development of a written dangerous waste training program and the Hanford Facility Permit. Training requirements were determined by an assessment of employee duties and responsibilities.

The TWRS training program is designed to prepare employees to operate and maintain the Tank Farms in a safe, effective, efficient, and environmentally sound manner. In addition to preparing employees to operate and maintain the Tank Farms under normal conditions, the training program ensures that employees are prepared to respond in a prompt and effective manner should abnormal or emergency conditions occur. Emergency response training is consistent with emergency responses outlined in the following Building Emergency Plans: HNF-IP-0263-TF and HNF-IP-0263-ETF.

2.0 RESPONSIBILITIES

The manager of each TWRS waste management unit has overall responsibility for all training at the TWRS units under their control. However, no one individual is designated as training director for the dangerous waste training program. The position is shared among TWRS training, and support organizations. Each Tank Farm can access training resources and experts from many different areas on hazardous material, dangerous waste management, and safety rather than rely on the knowledge of one person. This shared responsibility ensures that the identification of appropriate training requirements and that the training program meets all applicable dangerous waste requirements.

2.1 TWRS Responsibilities. Each TWRS Unit Project manager has the following responsibilities related to training:

- Determine training requirements and training compliance for all Hanford Facility personnel, subcontractors and visitors who obtain access or work within TWRS Units
- Request and/or conduct training
- Submit training completion records to TWRS Training Records.
- Identify training requirements to contractors working in or around TWRS Units.

2.2 Training Organization Responsibilities. The Managers of Training Organizations have the following responsibilities:

- Ensure instructors have satisfactory instructional skills and are technically knowledgeable through: current qualification/certification, or specialized training, or license/certificate, or degreed in the technical area, or other appropriate training or experience (see also DOE/RL-91-28 Chapter 8.0)
- Conduct informal job analysis and identify training commensurate with personnel duties and responsibilities
- Design and develop training programs
- Develop and instruct training courses
- Develop and maintain On-The-Job training requirements
- Operate and maintain the centralized Computerized Training Record System (CTRS) files
- Maintain the TWRS Training Records
- Process training completion records received into the CTRS System.

2.3 Environmental Organization Responsibilities. The Environmental Organization has the following responsibilities:

- Consult with training organizations and TWRS in the development and reevaluation of current training programs
- Assist TWRS Project Managers in determining training requirements and RCRA compliance for personnel
- Maintain current knowledge of RCRA training requirements pertaining to Hanford Facility Personnel.

2.4 Fluor Daniel Northwest (FDNW) and Waste Management Federal Services of Hanford, Inc. (WMH) Responsibilities. FDNW and WMH, whose personnel are classified as Hanford Facility Personnel, have the following responsibilities:

- Ensure that FDNW and WMH employees are trained to meet TWRS training requirements
- Maintain FDNW and WMH employees training records and provide them if requested by TWRS.

3.0 IMPLEMENTATION OF TRAINING PROGRAM

The TWRS Dangerous Waste training program is implemented. Incumbent personnel will complete new requirements within six months of the requirements being identified. Training of new employees is completed within the first six months of assignment. Training for personnel assigned to new positions is completed within six months of reassignment. Personnel who have not completed training are permitted to work at TWRS only under the supervision of a trained

employee. TWRS operations management is responsible for ensuring that all personnel are trained and that required qualifications are maintained.

3.1 Identification of Training

The required training is specified by the employee's specific job duties as determined by a management assessment or job analysis. The required training identified in Tables 4, 5, and 6 is based on worker categories and job titles described in Sections 4.0 and 5.0.

3.2 Conduct of Training

Training is provided through classroom instruction, On-the-Job Training (OJT), In-Plant Training (IPT), Computer-based training, and self-study. Training is instructed and/or developed by personnel knowledgeable in dangerous waste management procedures.

Following initial training, employees are required to have annual refresher training. Employees requiring qualification are required to recertify annually or biennially, as stated in the program description for that job.

3.3 Evaluation of Training

TWRS management reevaluates TWRS training program courses at least every two years to ensure that dangerous waste training requirements continue to be met. Revisions to the TWRS training program are based on facility or system modifications, procedure changes, DOE Orders, Federal and State regulatory requirements, industry operating experience and personnel performance evaluations.

3.4 Documentation of Training

Copies of the training record files for TWRS dangerous waste management employees are stored at TWRS Training and the originals are sent to the Hanford Training Center Records Department. A computerized copy is available at each of the Tank Farms for verification of training, qualification, or certification for TWRS waste management. Training record copies, summaries for support organization employees and former employees (date of last worked at TWRS), are kept and stored at the Hanford Training Center for three months. After three months, the training records are signed and dated and then transferred to the Records Holding Area. Once received at the Records Holding Area, the records are scanned and then held there for approximately one year. After approximately one year, the original training records are archived and sent to the Permanent Records Storage at the Federal Depository in Renton, Washington. The retention period there is 75 years.

4.0 DANGEROUS WASTE WORKER CATEGORIES

Employee duties at TWRS are categorized within six worker categories. In the event personnel duties and responsibilities overlap between categories, the employee will complete the training requirements for each category. These categories are:

1. All Employees
2. General Worker
3. Advanced General Worker
4. General Manager
5. General Shipper
6. Waste Designator

The duties corresponding to these categories are divided between "generator" and "TSD Unit-specific" job duties, each requiring varying degrees of dangerous waste management training. The description of job duties for each category can be matched to individual Job Titles or Job Positions commonly employed at the Hanford Facility. A description of the duties associated with each worker category is contained in Table 1. A description of dangerous waste training is contained in Table 2. Table 4 shows which programs are applicable for each worker category.

Table 1. Worker Categories

WORKER CATEGORIES	GENERATOR JOB DUTIES	TWRS UNIT SPECIFIC JOB DUTIES
ALL EMPLOYEES	Is not categorized as a General Worker, Advanced General Worker, General Manager, General Shipper, or Waste Designator. Will not manage waste in accumulation containers on the Hanford Facility. Responsible to report spills and releases that they discover. Must respond to specific incidents which may occur.	Duties are the same as for generator job duties for all employees.
GENERAL WORKER	Generates dangerous waste and places waste into appropriate containers. Waste management activities are overseen by person-in-charge or other TWRS unit personnel. Immediately evacuate incident area and reports incident to appropriate personnel.	TWRS unit specific duties might include repair, replacement, calibration, modification, or any other similar activity on TWRS unit systems. Work performed is either supervised by qualified TWRS personnel or is adequately addressed through organized pre-job briefing before commencing work. Evacuate the TWRS unit during emergencies and notifies appropriate personnel.
ADVANCED GENERAL WORKER	Duties exceed those of General Workers for container management. Inspects, marks, inventories, and samples containers of dangerous waste. Responds to spills and releases according to approved procedures. Performs daily inspections or surveillances on tank systems.	TWRS unit specific duties include the control, operation, manipulation, sampling, transfer or recording of dangerous waste within containers, tanks or waste process systems. Includes abnormal operational responses to maintain TWRS units within operational parameters. Implements emergency procedures and responds to spills according to approved procedures.
GENERAL MANAGER	Someone who can act as the Environmental Compliance Officer, Hazardous Material Specialist, or directs Advanced General Workers in dangerous waste management activities. Responsible for the accountability and directing of employees during dangerous waste emergency events.	Duties are the same for generator job duties for Advanced General Worker.
GENERAL SHIPPER	Signs paperwork relating to the movement of dangerous waste containers on roadways in compliance with applicable requirements. Directs General and Advanced General workers in transportation activities.	Duties are the same for generator job duties for General Shipper.
WASTE DESIGNATOR	Performs or completes waste designations	Duties are the same for generator job duties for Waste Designator.

Table 2. DOE-RL Program Area Descriptions

Program	Descriptions
Waste Management Orientation	Training in this program sub-area involves emergency responses, identifying contacts for personnel to obtain dangerous waste management information, and waste minimization concepts. Training also includes familiarization of the Hanford Facility Contingency Plan (DOE/RL-93-75).
Unit/Bldg Orientation	This program sub-area provides unit/building specific information on the hazards in the immediate and surrounding work environments. This training will ensure personnel are informed about potential emergency at a unit/building to which access is desired.
Waste Management Awareness	The sub-area in this program addresses the generation of waste, segregating the waste, and placing the waste into pre-approved containers. The training provides a discussion on what the initial accumulation container is titled and the management requirements that pertain, proper responses to incidents pertaining to the initial accumulation containers, proper responses to dealing with waste of unknown origins, and proper responses to questions posed by a regulatory agency inspector concerning these elements. General safe practices for handling and storing dangerous waste/materials are addressed.
Unit/Bldg Awareness	This program sub-area encompasses the job-specific or building-specific requirements that supplement the information provided in waste management awareness general sub-area. The training provides personnel at each unique unit/building with proper waste handling and emergency procedures relevant to their responsibilities during normal operations and emergencies.
Waste Management Advanced	The training within this sub-area is for unit/building personnel who must ensure that the waste management unit is operating in accordance with approved procedures and applicable regulations. General advanced training is provided only for container management. Training for other RCRA units such as tank systems, surface impoundments, landfills, etc., must be covered through the unit/building specific portion of the advanced program.
Unit/Bldg Advanced	This sub-area provides specific information required to operate, control, and manage processes and dangerous waste management operations. For container management, the unit/building specific program supplements the information provided in the general training within this program area. Considerations for this program involve container management as well as all advanced program area training for other RCRA units such as tank systems, surface impoundments, landfills, etc. This program can be met or partially met by the unit/job specific program area if operator and supervisor/manager qualification programs must be administered.
Waste Management Administration	This program area covers administrative aspects such as document preparation for plans and procedures relating to environmental reporting, waste minimization, and waste management. It also covers sampling and analysis considerations to aid in the development of sampling and analysis plans, waste analysis plans and waste designations.
Unit/Job Specific	Training within this program area constitutes one of the tools used in developing a compliant unit/building specific training program and is based on compliance with DOE Order 5480.20A. It is designed to provide additional information to ensure the safe and efficient operation and maintenance of unit processes, and does not apply to all unit/buildings on the Hanford Facility. Additionally, the training provides more detailed information for the response to emergencies and abnormal events that could occur. Not all training within this program will be RCRA related. Some operator or supervisor/manager qualification programs are not based on dangerous waste management.

NOTE: Double line indicates split in program areas

5.0 JOB POSITIONS AND DESCRIPTIONS

Each employee is assigned a job title (from salaried nonexempt or bargaining unit classifications) or position (from exempt classifications). Job or position descriptions include requisite skills, work experience, education, and other qualifications, and a list of duties and/or responsibilities for each job title or position. The work experience, education, and other qualifications required for each position are maintained by Human Resources. As a minimum, all employees require a high school diploma or equivalent. Personnel filling exempt, management or engineering positions normally require a college degree with 2 or more years of industry experience.

In the following sections, brief job titles and position descriptions of employees associated with dangerous waste management at TWRS are listed within the appropriate worker category.

5.1 All Employees

Hanford Facility personnel included in this category are not categorized into one of the other five worker categories. Visitors and subcontractors included within this category are those personnel not categorized as General Workers and that require access to portions of the TWRS Facilities not accessible to the public. Personnel in this category will not perform duties or responsibilities associated with the management of waste in accumulation containers or with the critical system of the TWRS unit. All personnel have the responsibility to report spills and releases that they discover in addition to evacuation or take cover actions in response to specific incidents.

Most Hanford Facility personnel categorized as "All Employees" are administrative personnel such as secretaries, clerks and support organizations who tour or provide oversight. Most visitors will be categorized as All Employees since visitors generally tour, provide oversight, or are brought on the Hanford Facility for interviews. Subcontractors who gain access to the TWRS Facilities to complete work in controlled areas, which does not involve the management of dangerous or mixed waste, will be categorized as All Employees.

5.2 General Worker

Hanford Facility personnel or subcontractors with waste management duties and responsibilities limited to the initial generation of waste and placing that waste into a pre-approved containers are classified as General Workers. These personnel could generate dangerous or mixed waste while working on a non-RCRA system (e.g., building maintenance) or on a TSD unit conducting maintenance or modification on critical or non-critical systems. The term "critical system" is defined in the Hanford Facility RCRA Permit. The work may be unsupervised or completed under the supervision of a Person-in-Charge (PIC) or unit/building personnel.

Hanford Facility personnel categorized as General Workers may be assigned duties and responsibilities for: (1) placing waste they generate into pre-approved containers and filling out log sheets where applicable, (2) completing radiological surveys of dangerous or mixed waste, (3) the loading of packaged containers onto trucks or movement of containers where a spill or release may occur, and (4) responding to regulatory agency compliance inspectors questions about satellite accumulation area management practices.

Personnel who function as General Workers may include, but are not limited to, the following:

- Maintenance personnel
- Health physics technicians
- Subcontractor supervisors of general workers
- Transporters
- Contractor crafts
- Ecology personnel acquiring samples of dangerous or mixed waste

5.3 Advanced General Worker

Hanford Facility personnel are categorized as Advanced General Workers if their duties and responsibilities concerning dangerous or mixed waste exceed that of General Workers. Nuclear Chemical Operators are typically Advanced General Workers. Examples of these duties and responsibilities for container management can include: inspecting containers, applying advanced container markings and preparing container log sheets, completing waste inventories, sampling of waste, and responding to spills and releases according to approved procedures.

For TWRS RCRA TSD units, Hanford Facility personnel assigned duties and responsibilities associated with ensuring the compliant operation of that TSD unit will be categorized as Advanced General Workers. Their duties and responsibilities may include, but are not limited to: operators who conduct daily inspections on tank systems to ensure they are operating properly and operators who conduct daily inspections on tank system ancillary equipment that is not provided with secondary containment and receiving shipments of waste. In these cases, the operator must perform an evaluation whether the TSD unit is functioning properly and operating in compliance with WAC 173-303. These personnel typically have the responsibility to act and/or notify TWRS operations management when an incident occurs that requires immediate response, such as a leaking or deteriorating container, spill or release, or process upset. Table 3 lists which TSD facilities utilize the Advanced General Workers. The list of employees currently filling these positions is maintained by HNF-IP-0974. An example is provided in Appendix B-1.

Table 3. Qualifications For Advanced General Workers (Nuclear Chemical Operators) Associated With THRS TSD's

		WORKERS REQUIRED																
		PRICES	ACTING WASTE	MITIGATION PUMP	204-JB	WELL	ROUTINES	FIELD	FIELD	GROUND	PUSH	ROTTAGE	SAMPLING		WASTE TRUCK	SAMPLER	SOLID / INSPECT	CONTAINER SYSTEM
													WELL	TRUCK				
TSD UNITS/ <90 DAY AREAS																		
DOUBLE-SHELL TANKS	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
SINGLE-SHELL TANKS	X				X	X	X	X	X	X	X	X	X	X				
600 AREA PURGE WATER STORAGE AND TREATMENT FACILITY					X										X			
216-B-63 TRENCH					X											X	X	X
209E <90 DAY ACCUMULATION AREA															X			

X - This worker may be required at this facility

5.3.1 TMACS Operators. Responsibilities and duties include:

- Operate the ~~CASS~~/TMACS Central Facility
- Review reports generated by ~~CASS~~ and the Tank Monitoring and Control System ~~of CASS~~ (TMACS)
- Inform supervisors of abnormal conditions in SSTs and DSTs reported by ~~CASS~~ or TMACS.

5.3.2 Aging Waste Operators. Responsibilities and duties include:

- Perform Aging Waste Facilities work activities in accordance with current operating procedures
- Perform sampling as required by procedure
- Operate process equipment associated with the Aging Waste Facilities
- Provide surveillance of the Aging Waste Facilities for abnormal conditions
- Respond to alarms at the Aging Waste Facilities
- Respond to abnormal and/or emergency conditions according to established procedures
- Respond to dangerous waste leaks or spills
- Perform routine inspections of the Aging Waste Facilities (241-AV and 241-AZ Tank Farms).

5.3.3 Mitigation Pump Operators. Responsibilities and duties include:

- Perform mitigation pump work activities in accordance with current operating procedures
- Operate mitigation pump processes, systems, and equipment at the Tank Farms
- Conduct routine inspections
- Provide surveillance of the Tank Farms for abnormal conditions
- Respond to alarms at the Tank Farms
- Respond to abnormal and/or emergency conditions according to established procedures.

5.3.4 204-AR Building Operators. Responsibilities and duties include:

- Perform 204-AR Building work activities in accordance with current operating procedures
- Operate processes, systems, and equipment at the 204-AR Building
- Perform sampling as required by procedure
- Conduct routine inspections
- Provide surveillance of the 204-AR Building for abnormal conditions
- Respond to alarms at the 204-AR Building
- Respond to abnormal and/or emergency conditions according to established procedures
- Respond to dangerous waste leaks or spills
- Transfer waste from tankers to DSTs
- Transfer waste from rail cars to DSTs
- Treat waste transferred to DSTs to maintain operating specifications.

5.3.5 Drywell Operators. Responsibilities and duties include:

- Perform Drywell Van work activities in the Tank Farms in accordance with current operating procedures
- Perform In-Tank Photography and Video Taping in accordance with current operating procedures
- Operate the Drywell Van and support systems used to monitor Drywells, Liquid Observation Wells (LOW) and Laterals.

5.3.6 Routines Operators. Responsibilities and duties include:

- Perform Tank Farm work activities in accordance with current operating procedures
- Operate processes, systems, and equipment at the Tank Farms
- Perform sampling as required by procedure
- Conduct routine inspections
- Provide surveillance of the Tank Farms for abnormal conditions
- Respond to alarms at the Tank Farms
- Respond to abnormal and/or emergency conditions according to established procedures

- Respond to dangerous waste leaks or spills
- Escort supporting crafts and visitors entering the Tank Farm areas as required.

5.3.7 Field Crew Operators. Responsibilities and duties include:

- Perform Tank Farm work activities in accordance with current operating procedures
- Perform sampling as required by procedure
- Conduct routine inspections
- Respond to alarms at the Tank Farms
- Respond to abnormal and/or emergency conditions according to established procedures
- Respond to dangerous waste leaks or spills
- Perform waste transfer routing changes
- Perform pipeline pressure tests
- Perform equipment installation and removal
- Perform tank lancing operations.

5.3.8 Saltwell Operators. Responsibilities and duties include:

- Operate the jet pumps to transfer waste from SSTs to DSTs
- Perform Saltwell work activities in accordance with current operating procedures, including data collection
- Perform sampling as required by procedure
- Conduct routine inspections of Saltwell systems
- Respond to and trouble shoot Saltwell alarms
- Respond to abnormal and/or emergency conditions according to established procedures
- Respond to dangerous waste leaks or spills.

5.3.9 TWRS Waste Retrieval. Responsibilities and duties include:

- Start-up, operate, and shutdown of the Sluicing System
- Operate the Data Acquisition System
- Operate the WRSS Raw Water System
- Know the BIO/TSR/LCO/AC's associated with Sluicing

- Wear an SCBA
- Start-up, operate, and shutdown the WRSS 296-C-006 HVAC System
- Respond to alarms and abnormal conditions

5.3.10 Field Sampling Operators. Responsibilities and duties include:

- Perform liquid and vapor sampling of SSTs and DSTs as required by procedure.
- Support laboratory personnel in the performance of sampling as required by procedure.
- Perform auger sampling of SSTs and DSTs as required by procedure.
- Perform Tank Farm work activities in accordance with current operating procedures
- Respond to abnormal and/or emergency conditions according to established procedures
- Respond to dangerous waste leaks or spills.

5.3.11 Core Sampling Operators.

5.3.11.1 Ground Crew Operator Responsibilities and duties include:

- Perform Tank Farm work activities in accordance with current operating procedures
- Respond to abnormal and/or emergency conditions according to established procedures
- Respond to dangerous waste leaks or spills
- Perform ground activities in support of the core sampling trucks and systems, either Rotary Mode or Push Mode, as required by procedure, to take samples of the waste tank core layers.

5.3.11.2 Push Mode Operator: Responsibilities and duties include:

- Perform Tank Farm work activities in accordance with current operating procedures
- Respond to abnormal and/or emergency conditions according to established procedures
- Respond to dangerous waste leaks or spills
- Operate the core sampling trucks and systems in Push Mode, as required by procedure, to take samples of the waste tank core layers.

5.3.11.3 Rotary Mode Operator: Responsibilities and duties include:

- Perform Tank Farm work activities in accordance with current operating procedures
- Respond to abnormal and/or emergency conditions according to established procedures
- Respond to dangerous waste leaks or spills
- Operate the core sampling trucks and systems in Rotary Mode, as required by procedure, to take samples of the waste tank core layers.

5.3.12 Cask/Sample Truck Operators: Responsibilities and duties include:

- Perform Cask/Sample truck work activities in accordance with current operating procedures
- Pick-up and transport samples to the laboratories
- Respond to accidents involving Cask/Sample truck.

5.3.12A Characterization Project Routines Operator: Responsibilities and duties include:

- Perform Tank Farm work activities in accordance with current operating procedures
- Respond to abnormal and/or emergency conditions according to established procedures
- Respond to dangerous waste leaks or spills
- Perform In-Tank Photography and Video Taping in accordance with current operating procedures
- Perform preparatory work for sampling activities in accordance with current operating procedures.

5.3.13 Solid Waste Project – Waste Operations Truck Operators. Responsibilities and duties include:

- Ensure that vehicles transporting dangerous wastes are up to date on maintenance schedules
- Prepare containers to receive mixed and dangerous waste
- Deliver and collect waste containers from Satellite Accumulation Areas and waste generators
- Setup Satellite Accumulation Areas
- Unload trucks at the <90-day accumulation area

- Ensure that trucks transporting dangerous waste are placarded properly
- Ensure that the waste has been properly secured in the transportation vehicles.

5.3.14 Solid Waste Project – Waste Operations Sampling/ Repacking Operators. Responsibilities and duties include:

- Package and label dangerous waste for shipment from the <90 day accumulation area
- Perform sampling as required by procedure at the <90 day accumulation area
- Support laboratory personnel in the performance of sampling as required by procedure at the <90 day accumulation area
- Prepare containers to receive mixed and dangerous waste
- Escort supporting crafts and visitors entering the <90-day accumulation area as required
- Receive, segregate, sort, inventory, store, and stage dangerous waste
- Operate processes, systems, and equipment at the <90-day accumulation area
- Respond to alarms at the <90-day accumulation area
- Respond to abnormal and/or emergency conditions according to established procedures
- Respond to dangerous waste leaks or spills.

5.3.15 Solid Waste Project – Waste Operations Container Document System Operators. Responsibilities and duties include:

- Maintain tracking records for dangerous and mixed waste containers
- Complete shipping documentation for dangerous and mixed waste containers
- Develop container tracking folders.

5.3.16 Solid Waste Project – Waste Operations Surveillance/Inspection Operators. Responsibilities and duties include:

- Perform <90-day accumulation area work activities in accordance with current operating procedures
- Escort supporting crafts and visitors entering the <90-day accumulation area as required
- Receive, segregate, sort, inventory, store, and stage dangerous waste

- Operate processes, systems, and equipment at the <90-day accumulation area
- Conduct routine inspections
- Package and label dangerous waste for shipment
- Provide surveillance of the <90-day accumulation area for abnormal conditions
- Assist truck drivers in loading and unloading trucks at the <90-day accumulation area
- Ensure that trucks transporting dangerous waste are placarded properly
- Respond to alarms at the <90-day accumulation area
- Respond to abnormal and/or emergency conditions according to established procedures
- Respond to dangerous waste leaks or spills.

5.4 General Manager

Various types of managers are included in this position. In addition, TWRS personnel may be categorized as General Managers if they direct General Worker or Advanced General Worker activities. Managers and those who direct General Workers and Advanced General Workers have many similar duties and responsibilities relating to dangerous or mixed waste management and are required to take the same courses.

The following managers are included within this position:

- (1) TWRS Environmental Compliance Officer
- (2) TWRS Operations Shift Managers and Operations Engineers
- (3) TWRS Operations Support Managers
- (4) TWRS Qualified Person-In-Charge (PIC)
- (5) Generator Services Operations Manager
- (6) Generator Services Operations Person-In-Charge (PIC)
- (7) TWRS Hazardous Material Specialist

The list of employees currently filling these positions is maintained by HNF-IP-0974. Examples are provided in Appendix B-2 and B-3.

5.4.1 TWRS Environmental Compliance Officer. Responsibilities of the Environmental Compliance Officer include the following:

- Provide support to TWRS unit management to ensure compliance with the applicable environmental compliance requirements as identified in this manual, environmental permits, the Hanford Federal Facility Agreement and Consent Order, HNF-CM-7-5, Tank Farm S/RIDS and other compliance orders
- Ensure that TWRS unit management is aware of the unit's environmental compliance status and the unit's environmental compliance activities

- Understand and be able to explain the TWRS unit's environmental compliance status with all applicable environmental requirements
- Advise the TWRS unit management of new environmental requirements and policies, the associated impacts, and recommended implementation mechanisms to ensure compliance.

5.4.2 TWRS Operations Shift Managers and Operations Engineers.

Responsibilities of the TWRS Operations Shift Managers
Operations Engineers include the following:

- Supervise, coordinate, and direct the activities in the Tank Farms
- Ensure that TWRS operations are conducted in accordance with established operating procedures and policies, U.S. Department of Energy Orders, and Federal and State regulations
- Supervise and coordinate the receipt, storage, transfer, and reprocessing of dangerous waste
- Ensure compliance with TWRS operating limits and specifications
- Conduct pre-job safety and planning meetings with personnel involved with Tank Farms operations as applicable
- Maintain operating records
- Revise and review TWRS operating procedures as applicable
- Recognize abnormal conditions and take appropriate action
- Respond to abnormal and/or emergency conditions according to established procedures
- Notify TWRS management of any unplanned releases to the environment
- Serve as the building emergency director (BED), the staging area manager or designated alternate BED, as assigned
- Perform the duties of the building emergency director, as assigned, for the Tank Farms during emergencies.

5.4.3 TWRS Operations Support Managers. Line Management within the TWRS Operations Organization provides support as applicable to ensure the safe, effective, efficient, and environmentally acceptable operation of TWRS facilities and systems. This operation is in accordance with applicable dangerous waste management procedures, U.S. Department of Energy Directives, applicable management policies, and Federal and State regulations. Responsibilities of the TWRS support organizations management and technical support personnel include, but are not limited to, the following functions:

- Maintenance
- Production Control
- Recovery Support
- Isolation/Stabilization
- Waste Retrieval

- Vapor, Liquid and Core Sampling.

5.4.4 TWRS Qualified Person-In-Charge (PIC). Responsibilities and duties include:

- Coordinate and direct the activities of Advanced General Workers in the completion of field activities
- Review procedures to assure that they are adequate to perform and control the tasks
- Ensure work is performed in compliance with environmental regulations and permits through adherence to procedures and control manuals.

5.4.5 Solid Waste Project - Waste Operations Manager. Responsibilities and duties include:

- Supervise, coordinate, and direct the activities of Generator Services Operations Team Leaders
- Maintain control over <90-day accumulation area operations in accordance with established operating procedures and policies, U.S. Department of Energy Orders, and State, and Federal regulations
- Direct, control, and coordinate the receipt, storage, transfer, and processing of dangerous waste
- Ensure <90-day accumulation area operations are conducted according to established procedures
- Ensure compliance with <90-day accumulation area operating limits and specifications
- Ensure that job safety and planning meetings are conducted, as applicable, with personnel involved with the <90-day accumulation area operations
- Ensure that regulatory records are maintained
- Develop, revise, and review <90-day accumulation area operating procedures as applicable
- Respond to and provide remedial guidance and decisions for operational anomalies, abnormal conditions, and equipment malfunctions
- Respond to abnormal and/or emergency conditions according to established procedures
- Coordinate the recovery from unplanned releases to the environment and other emergency conditions.

5.4.6 Solid Waste Project - Waste Operations Person-In-Charge (PIC). Responsibilities and duties include:

- Supervise, coordinate, and direct the activities of the Generator Services Operators

- Ensure that <90-day accumulation area operations are in accordance with operating procedures and policies, U.S. Department of Energy Orders, State, and Federal regulations
- Supervise and coordinate the receipt, storage, transfer, and reprocessing of dangerous waste
- Conduct <90-day accumulation area operations according to established procedures
- Ensure compliance with <90-day accumulation area operating limits and specifications
- Conduct pre-job safety and planning meetings (Job Specific Training) with personnel involved with <90-day accumulation area operations as applicable
- Maintain regulatory records
- Revise and review <90-day accumulation area operating procedures as applicable
- Recognize abnormal conditions and take appropriate actions
- Respond to abnormal or emergency conditions according to established procedures
- Notify <90-day accumulation area management of any unplanned releases
- Ensure that vehicles transporting dangerous wastes are current on maintenance schedules
- Ensure that waste has been properly secured in transportation vehicles.

5.4.7 TWRS Hazardous Material Specialist. Responsibilities and duties include:

- Create and maintain satellite accumulation areas for maintenance of waste generated in non-radiologically controlled areas in compliance with applicable requirements
- Interface with other organizations as needed to ensure proper disposal of wastes
- Prepare and maintain documents required by Federal and State regulations and LMHC policies
- Ensure non-regulated alternatives are used whenever possible by reviewing purchase requisitions for chemical products
- Provide review and waste disposition instructions on the waste planning checklist as required
- Recognize abnormal conditions and take appropriate action

- Respond to abnormal or emergency conditions according to established procedures
- Ensure that the waste has been properly secured in the transportation vehicles.

5.5 General Shipper

Personnel who sign waste movement documentation for both onsite and off-site shipments of dangerous or mixed waste on roadways are categorized as General Shippers in the RCRA training program. There is no distinction within this category based upon where a dangerous or mixed waste movement will initiate, terminate, or which road the movement will travel along. The list of employees currently filling this position is maintained by HNF-IP-0974. An example is provided in Appendix B-4.

5.6 Waste Designator

Personnel who perform and/or complete waste designations at TWRS waste management units are categorized as a Waste Designator. The list of employees currently filling this position is maintained by HNF-IP-0974. An example is provided in Appendix B-4.

6.0 TRAINING CONTENT, FREQUENCY, AND TECHNIQUES

This section provides an overview of dangerous waste management and job-specific training provided to employees in job titles and positions discussed in the previous sections. In addition to TWRS normal operating conditions, employees are trained on emergency equipment, systems, and procedures to include the following, where applicable:

- Procedures for using, inspecting, repairing and replacing TWRS emergency and monitoring equipment
- Automatic or manual dangerous waste feed cut-off systems
- Communications and alarm systems
- Response to fires and explosions
- Response to dangerous waste contamination incidents and spills
- Shutdown of operations.

The training program uses existing courses with content ranging from general to specific dangerous waste training material. Initial and continuing training program requirements are listed in Table 4 for each worker category. Appendix A-1 contains a brief description of the training courses for this program, including course title, course description, target audience, instructional delivery, evaluation method, length of course, and frequency of retraining.

The TWRS-specific and job-specific qualifications and/or certifications are maintained according to contractual and regulatory requirements. Courses are provided through classroom instruction, on-the-job training, in-plant-training, self-study, and computer-based training and addresses the TWRS

management procedures, U.S. Department of Energy directives, applicable management policies, and Federal and State regulatory requirements. The training includes instruction on the implementation of the Tank Farms contingency plan (Building Emergency Plan) and use of emergency and monitoring equipment. The TWRS nuclear operators and operations shift managers are certified for assigned jobs through a performance-based training process.

The TWRS support organizations employees are also required to complete identified TWRS training applicable to their involvement with dangerous waste management. The TWRS support organizations management is responsible for identifying individual employee training requirements in accordance with this plan and for ensuring that training requirements are met.

The TWRS initial and continuing training program job-specific course requirements relating to dangerous waste management are listed in Tables 5 and 6. Appendix A-2 contains a brief description of the training courses for this program, including course title, course description, target audience, instructional delivery, evaluation method, length of course, and frequency of retraining.

6.1 Relevance of Training to Job Positions

The dangerous waste training program for TWRS employees was developed after reviewing U.S. Department of Energy directives, Federal and State regulations, and the completion of a job analysis for management-selected job positions. Tasks performed by employees were identified and evaluated to determine training requirements. In addition, training needs are evaluated continually in relation to current U.S. Department of Energy directives and Federal and State regulations.

Qualification for Operations Shift Managers, Nuclear Operators and Nuclear Chemical Operators are required by U.S. Department of Energy Order 5480.20A. Qualification for General Shippers is required by LMHC policy. To become certified, an employee must successfully complete classroom training, self-study, and on-the-job training, as applicable. Classroom instruction and/or self-study is designed to provide qualification candidates with the fundamental knowledge required to work safely at TWRS.

The TWRS Dangerous Waste training program outlined here ensures that all personnel entering the Tank Farms are trained properly to perform the job duties pertinent to the handling, treatment, storage, and/or disposal of dangerous waste.

TWRS employees and support organization employees also receive additional training in accordance with other regulations such as 29 CFR 1910.120, "Hazardous Waste Operations and Emergency Response" and 29 CFR 1910.1200, "Hazard Communication Program," and the U.S. Department of Energy directives and management policies including "Environmental Regulations at Hanford". These courses are not discussed in this training plan.

6.2 Training to Emergency Response

Federal and State regulations require that employees be able to respond effectively to emergencies and that employees be familiar with emergency procedures, emergency equipment, and emergency systems. Specific topics required by Federal and State dangerous waste regulations listed in Section

6.0 are addressed throughout the Dangerous Waste training program and are included in the following training:

- New Employee Safety Orientation
- Hanford General Employee Training
- Tank Farms Facility Orientation
- Generator Hazards Safety Training
- Facility Emergency and Hazard Information Checklist
- TWRS Nuclear Operator and Manager qualification training
- Building Emergency Director training.

6.3 Waste Management Orientation

All employees are required to complete Waste Management Orientation (see Table 4) training, which includes Site emergency response training. The training at this level involves a basic introduction to dangerous waste management. It addresses correct response to emergencies involving releases of materials to the environment. It includes a discussion of the "Hanford Facility" and permits for TSDs along with additional training requirements should employee dangerous waste management duties change.

Tank Farms orientation is provided for personnel who require access to a TWRS TSD Unit/Building. Training is conducted for the Tank Farms Emergency Signals and appropriate responses.

6.4 Waste Management Awareness

In addition to Waste Management Orientation, Waste Management Awareness (see Table 4) training is required for general workers, advanced general workers, general managers, and general shippers. The training at this level is commensurate with the duties of generating waste and placing into pre-approved containers. The training addresses the identification, packaging, marking and labeling and proper handling of dangerous wastes including the regulatory requirements for accumulation and storage. Additionally, the training covers contingency plan requirements and worker response to small spills, materials release reporting, and notifications. General safe practices for handling, storing and transporting dangerous waste materials are addressed.

Unit/Building-specific training is also provided. This portion of the training encompasses the job-specific or building-specific requirements that supplement the information provided in waste management awareness. The training provides employees with proper waste handling and emergency procedures relevant to their responsibilities during normal facility operations and emergencies.

6.5 Waste Management Advanced

In addition to Waste Management Orientation and Waste Management Awareness, general managers, general shippers, and Environmental Waste Operators must complete Waste Management Advanced (see Table 4) training. General managers complete training on environmental regulations and/or environmental compliance. The training includes information on potential legal liabilities, applicable Federal and State regulations, various reporting requirements, inspections/audits and record keeping. General shippers and Generator Services Operators complete containerized waste management training.

The training is for facility personnel who properly select, package and prepare for shipment containers of dangerous wastes. This is a comprehensive container waste management training program and provides the necessary information regarding documentation, reporting, record keeping, and other information pertaining to administrative functions of dangerous waste management.

6.6 Waste Management Administration

Waste Management Administration is for general shippers, waste designators and those who must resolve problems and issues related to dangerous waste management. This training covers administration aspects of waste minimization, waste management, and record keeping for the Hanford Facility.

6.7 Qualification Training

In addition to Waste Management Orientation and Waste Management Awareness, nuclear operators and Operations Shift Managers complete specific courses in preparation for work assignments. Qualifications for job-specific work assignments have been developed in accordance with U.S. Department of Energy Order 5480.20A. The training at this level is designed to provide in-depth facility knowledge to ensure the safe and efficient operation of TWRS processes and operations. Additionally, qualification training provides detailed information for the response to emergencies and abnormal events which could occur within the unit. Once certified, employees are required to recertify biennially through continuing training classes, self study and completion of an examination.

6.8 Subcontractor Training and Visitor Training.

Subcontractor personnel and visitors at TWRS must complete the appropriate level of training determined by TWRS management according to their job duties.

Personnel who have completed training off-site are required to provide a certificate or other suitable evidence of training course(s) that meet the requirements of WAC 173-303 and this plan. The TWRS Project Manager must verify the acceptability of off-site training as commensurate with subcontractor personnel's anticipated TWRS job assignment and the training requirements listed in Table 4.

TWRS Management is responsible for ensuring that subcontractor personnel and visitor medical surveillance requirements are met before granting access to the Tank Farms. TWRS management is responsible for ensuring that all the requirements for access to the Tank Farms are met.

Table 4. THRS Facility Dangerous Waste Training Matrix

TRAINING CATEGORY	COURSE TITLE	FREQ	WORKER CATEGORY					
			ALL EMPLOYEES	GENERAL WORKER	ADVANCED GENERAL WORKER	GENERAL MANAGER	GENERAL SHIPPER	WASTE DESIGNATOR
WASTE MANAGEMENT ORIENTATION	HANFORD GENERAL EMPLOYEE TRAINING 000001 or VISITOR/VENDOR ORIENTATION 000090 ¹	(A)	X	X	X	X	X	X
	TANK FARMS FACILITY ORIENTATION 35071 0 ²	(A)	X ³	X	X	X	X	
	TANK FARMS FACILITY RE-ORIENTATION 350760							
WASTE MANAGEMENT AWARENESS	WASTE MANAGEMENT AWARENESS 02006G	One Time		X ⁴	X	X	X	
TWRS WASTE MANAGEMENT AWARENESS	FEHIC ⁵ 03E060	(A)		X ⁶	X	X	X	
	WASTE HANDLING SEGREGATION AND PACKAGING - 350560	(A)		X	X	X ⁷	X	
WASTE MANAGEMENT ADVANCED	CONTAINER WASTE MANAGEMENT - INITIAL 035100 ⁸	(A)				X ⁹		
	CONTAINER WASTE MANAGEMENT - REFRESHER 035110							
WASTE MANAGEMENT ADMINISTRATION	WASTE MANAGEMENT ADMINISTRATIVE - INITIAL 035120 ⁷	(A)				X ¹⁰		X
	WASTE MANAGEMENT ADMINISTRATIVE - REFRESHER 035130							
	FACILITY WASTE SAMPLING AND ANALYSIS - 035020	One Time					X	
	WASTE DESIGNATION 035010	One Time				X ¹⁰	X	X
HAZARDOUS WASTE SHIPPER QUALIFICATION 020159	WASTE DESIGNATION QUALIFICATION 035012	(A)						X
	HAZARDOUS WASTE SHIPPER QUALIFICATION 020159	(C)					X	
JOB SPECIFIC TRAINING	QUALIFICATIONS OR OTHER TRAINING	(A) or (B)			X ¹¹	X ¹¹		

- (A) ANNUALLY
(B) REPEATED EVERY 5 YEARS
(C) REPEATED EVERY 2 YEARS
(D) TEMPORARY ACCESS AS AN ESCORTED OPERATOR
(E) PERMANENT ACCESS AS AN ESCORTED OPERATOR
(F) PERMANENT ACCESS AS AN ESCORTED OPERATOR
(G) PERMANENT ACCESS AS AN ESCORTED OPERATOR
(H) PERMANENT ACCESS AS AN ESCORTED OPERATOR
(I) PERMANENT ACCESS AS AN ESCORTED OPERATOR
(J) PERMANENT ACCESS AS AN ESCORTED OPERATOR
(K) PERMANENT ACCESS AS AN ESCORTED OPERATOR
(L) PERMANENT ACCESS AS AN ESCORTED OPERATOR
(M) PERMANENT ACCESS AS AN ESCORTED OPERATOR
(N) PERMANENT ACCESS AS AN ESCORTED OPERATOR
(O) PERMANENT ACCESS AS AN ESCORTED OPERATOR
(P) PERMANENT ACCESS AS AN ESCORTED OPERATOR
(Q) PERMANENT ACCESS AS AN ESCORTED OPERATOR
(R) PERMANENT ACCESS AS AN ESCORTED OPERATOR
(S) PERMANENT ACCESS AS AN ESCORTED OPERATOR
(T) PERMANENT ACCESS AS AN ESCORTED OPERATOR
(U) PERMANENT ACCESS AS AN ESCORTED OPERATOR
(V) PERMANENT ACCESS AS AN ESCORTED OPERATOR
(W) PERMANENT ACCESS AS AN ESCORTED OPERATOR
(X) PERMANENT ACCESS AS AN ESCORTED OPERATOR
(Y) PERMANENT ACCESS AS AN ESCORTED OPERATOR
(Z) PERMANENT ACCESS AS AN ESCORTED OPERATOR

- ¹ FEHIC - BUILDING EMERGENCY PLAN REVIEW FOR TANK FARMS
² MAY BE SUSPENDED BY PRE-JOB SITE INSPECTION
³ PREVIOUSLY SUSPENDED BY PRE-JOB SITE INSPECTION
⁴ PREVIOUSLY SUSPENDED BY PRE-JOB SITE INSPECTION
⁵ REQUIRED ONLY FOR GENERATING SERVICES OPERATIONS
⁶ REQUIRED ONLY FOR GENERATING SERVICES OPERATIONS
⁷ REQUIRED ONLY FOR GENERATING SERVICES OPERATIONS
⁸ REQUIRED ONLY FOR GENERATING SERVICES OPERATIONS
⁹ REQUIRED ONLY FOR GENERATING SERVICES OPERATIONS
¹⁰ REQUIRED ONLY FOR GENERATING SERVICES OPERATIONS
¹¹ AS DETERMINED BY THE UNIT MANAGER

Table 5. THRS Dangerous Waste Job-Specific Training Requirements For Advanced General Workers
(Nuclear Chemical Operators)

		TRAINING COURSES												SOLID WASTE PROJECT - WASTE HANDLING OPERATIONS			
		THRS	MITIGATION	WASTE TRUCK	204-AR	WELL	ROUTINES	FIELD	WELL	WASTE TRUCK	FIELD	WELL	WASTE TRUCK	CONTAINER	WASTE TRUCK	WELL	WASTE TRUCK
NUCLEAR OPERATORS	NUCLEAR CHEMICAL OPERATORS	350030 (B)	350180 (B)	350140 (B)	350100 (B)	350090 (B)	350030 (B)	350060 (B)	350080 (B)	350040 (B)	350070 (B)	350070 (B)	350070 (B)	350070 (B)	350070 (B)	350070 (B)	350070 (B)
		350032 (B)	350182 (B)	350142 (B)	350102 (B)	350092 (B)	350032 (B)	350062 (B)	350082 (B)	350042 (B)	350072 (B)	350072 (B)	350072 (B)	350072 (B)	350072 (B)	350072 (B)	350072 (B)
CASS TMACS	MITIGATION PUMP																
			X/C				X/C										
AGING WASTE	204-AR																
					X/C		X/C										
DRYWELL	ROUTINES																
						X/C	X/C										
FIELD CREW	SALTWELL							X/C									
							X/C		X/C								
WASTE RETRIEVAL	CPO ROUTINES																
									X/C								
FIELD SAMPLING	GROUND CREW																
											X/C						
PUSH MODE SAMPLING	ROTARY MODE SAMPLING																
												X/C					
CASK TRUCK	WASTE TRUCK																
													X/C	X/C	X/C		
SAMPLE/REPACK	SURVEILLANCE/INSPECT																
															X/C		
CONTAINER DOCUMENT																	
																X/C	X/C

SEE HNF-IP-0976 FOR A LIST OF EMPLOYEES. SEE APPENDIX B-1 FOR AN EXAMPLE LIST

(A) REPEATED ANNUALLY
 (B) REPEATED EVERY TWO YEARS
 (C) COURSE 350031 DOES NOT REQUIRE CONTINUING TRAINING

X INITIAL TRAINING
 C CONTINUING TRAINING

PREVIOUSLY SATISFIED BY HAZARDOUS WASTE SHIPMENT
 SHIPMENT CERTIFICATION 020065

Table 6. THRS Dangerous Waste Job-Specific Training Requirements For Managers And Engineers

TRAINING COURSES							PERSON-IN-CHARGE (PIC)	FOR LIST OF EMPLOYEES SEE HNF- IP-0974, FOR AN EXAMPLE LIST SEE APPENDIX
SOLID WASTE PROJECT - WASTE OPERATIONS GENERATOR SERVICES OPERATIONS TEAM LEADER/MANAGER								
GENERAL MANAGERS	035100 ¹ or 035110 (A) CONT. W.M.	035120 ¹ or 035130 (A) W.M. ADMIN.	035010 WASTE DESIGN	350066 GSO	350145 ² or 350147 (B) ² OE	020288 or 037510 (A) BED		
ENVIRONMENTAL COMPLIANCE OFFICER								B-2
OPERATIONS SHIFT MANAGER/OPERATIONS ENGINEER					X/C	X/C ³		B-2
OPERATIONS SUPPORT MANAGER							X/C	B-2
PERSON IN CHARGE								B-2
GENERATOR SERVICES OPERATIONS MANAGER	X/C	X/C	X					B-2
GENERATOR SERVICES OPERATIONS PERSON IN CHARGE	X/C	X/C	X	X				B-2
HAZARDOUS MATERIAL SPECIALIST	X/C	X/C	X					B-2

(A) REPEATED ANNUALLY
(B) REPEATED EVERY TWO YEARS
X INITIAL TRAINING
C CONTINUING TRAINING

¹ PREVIOUSLY SATISFIED BY HAZARDOUS WASTE
SHIPMENT CERTIFICATION 02006S

² PREVIOUSLY SATISFIED BY TANK FARM SUPERVISOR/
MANAGER CERTIFICATION 350110

³ MAY BE SATISFIED BY 350137

⁵ ONLY FOR EMPLOYEES ASSIGNED AS BUILDING EMERGENCY DIRECTORS

Table 7. Courses for Tables 4, 5 and 6

CURRENT COURSES DESCRIBED IN APPENDIX A

000001	Hanford General Employee Training (HGET)
000090	Visitor/Vendor Orientation
02006G	Waste Management Awareness
020159	Hazardous Waste Shipper Qualification - Advanced Course 2
020288	Building Emergency Director Training
035010	Waste Designation
035012	Waste Designation Qualification
035020	Facility Waste Sampling and Analysis
035100	Container Waste Management - Initial
035110	Container Waste Management - Refresher
035120	Waste Management Administrative - Initial
035130	Waste Management Administrative - Refresher
037510	Building Emergency Director/Building Warden - Requalification
03E060	Building Emergency Plan Review using the Facility Emergency and Hazard Information Checklist for Tank Farms
350010	Solid Waste Project - Waste Operations Generator Services Truck Operations - Initial Qualification
350020	Cask/Sample Transport Truck Operations - Initial Qualification
350030	Tank Farms Routine Operations - Initial Qualification
350031	Tank Farms Routines Classroom
350035	Characterization Project Routine Operations - Initial Qualification
350037	CPO Routines Revised Qualification (With In-Tank Video)
350040	Tank Farms Aging Waste Operations - Initial Qualification
350060	Tank Farms Field Crew - Initial Qualification
350066	Solid Waste Project - Waste Operations Generator Services Operations Classroom
350070	Push Mode Sampling Operations - Initial Qualification
350075	Rotary Mode Sampling Operations - Initial Qualification
350077	Ground Crew - Initial Qualification
350080	Tank Farms Saltwell Systems Operations - Initial Qualification
350090	Tank Farms Drywell/Low Van Operations - Initial Qualification
350100	204-AR Operations - Initial Qualification
350145	TWRS Operations Engineer Qualification
350165	Solid Waste Project - Waste Operations Generator Services Sampling and Repacking Operations - Initial Qualification
350166	Solid Waste Project - Waste Operations Generator Services Surveillance and Inspection - Initial Qualification
350167	Solid Waste Project - Waste Operations Generator Services Container Document System Dispatch - Initial Qualification
350180	Tank Farms Mitigation Pump Operations - Initial Qualification
350200	TMACS Operations - Initial Qualification
350510	Tank Farms Person-In-Charge (PIC) Qualification - Initial & Refresher
350560	Waste Handling Segregation and Packaging - Initial or Refresher
350680	TWRS Waste Retrieval Qualification - Initial
350710	Tank Farms Facility Orientation
350760	Tank Farms Facility Re-Orientation
351479	Field Sampling - Initial Qualification
350012	Solid Waste Project - Waste Operations Generator Services Truck Operations - Requalification
350022	Cask/Sample Transport Truck Operations - Requalification

350032	Tank Farms Routine - Requalification
350036	Characterization Project Routine Operations - Requalification
350039	CPO Routines Revised - Requalification (With In-Tank Video)
350042	Tank Farms Aging Waste Operations - Requalification
350062	Tank Farms Field Crew - Requalification
350073	Rotary Mode Sampling Operations - Requalification
350079	Ground Crew - Requalification
350082	Tank Farms Saltwell Systems Operations - Requalification
350083	Push Mode Sampling Operations - Requalification
350092	Tank Farms Drywell/Low Van Operations - Requalification
350102	204-AR Operations - Requalification
350147	TWRS Operations Engineer Requalification
350162	Solid Waste Project - Waste Operations Generator Services Sampling and Repacking Operations - Requalification
350163	Solid Waste Project - Waste Operations Generator Services Surveillance and Inspection - Requalification
350164	Solid Waste Project - Waste Operations Generator Services Container Document System Operations - Requalification
350182	Tank Farms Mitigation Pump Operations - Requalification
350202	CASS/TMACS Operations - Requalification
350682	TWRS Waste Retrieval - Requalification
351482	Field Sampling - Requalification

COURSES SUPERSEDED BY CURRENT COURSES

000063	Facility Orientation - East Tank Farm
000065	Facility Orientation - West Tank Farm
000077	Facility Orientation - Tank Farms
020065	Hazardous Waste Shipment Certification
350110	Tank Farm Supervisor/Manager Certification
350561	Waste Handling Segregation and Packaging - Refresher (Replaced by 350560 [Initial or Refresher])
350700	Tank Farm East Facility Orientation
350750	Tank Farm West Facility Orientation

Appendix A Training Course Descriptions

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Appendix A-1	Dangerous Waste Operations Training Courses	A - 1
Appendix A-2	Job-Specific Training Courses	A - 9

Appendix A-1 Dangerous Waste Operations Training Courses

Title	000001 Hanford General Employee Training (HGET)
Description	Course covers U.S. Department of Energy Orders and applicable policies pertaining to employer and employee rights and responsibilities, general radiation training, hazardous communications and dangerous waste, fire prevention, personal protective equipment, safety requirements, emergency preparedness, accident reporting, and avenues for addressing safety concerns. The RCRA training program identifies this course as a program element as annual refresher to the Hanford Facility RCRA Permit condition concerning training.
Mandating Document(s)	Hanford Facility RCRA Permit, General Conditions II.C
Target audience	All Hanford Facility personnel working on the Hanford Facility more than one year.
Delivery	Computer-based training with interactive video
Evaluation	Computer generated questions
Length	Average = 2 to 4 Hours
Frequency	Annually by 000001

Title	000090 Visitor/Vendor Orientation (Video or Brochure)
Description	Course is designed to acquaint and familiarize visitors and subcontractors with safety, security, and emergency preparedness requirements and their responsibilities to notify Hanford Facility personnel when situations arise. In addition, this orientation identifies the need to obey signs and labels that may be encountered regarding radiological areas, hazardous materials, and dangerous waste.
Mandating Document(s)	Hanford Facility RCRA Permit, General Conditions II.C
Target audience	Visitors on site >7 days, including regulatory agency personnel. LMHC subcontractors working on the Hanford Facility <45 days.
Delivery	Video Tape or Brochure
Evaluation	Not Applicable
Length	30 Minutes
Frequency	Annually by 000090

Appendix A-1 (Continued) Dangerous Waste Operations Training Courses

Title	02006G Waste Management Awareness
Description	Course introduces workers to federal laws governing chemical safety in the work place. The course provides the hazardous material/waste worker with the basic fundamentals for safe use of hazardous material. Course defines hazard communication and hazardous materials and accumulation of waste in containers. The concepts covered in this course instruct personnel on specific waste generation procedures and requirements which includes: (1) Pertinent waste management issues (e.g. waste categories, initial accumulation container management requirements, and waste segregation practices), (2) proper responses to incidents pertaining to the waste in the initial accumulation containers, (3) Proper responses to dealing with waste of unknown origins, and (4) proper responses to questions posed in the field concerning the above elements.
Mandating Document(s)	DOE-RL letter to Ecology responding to Consent Order NO. DE 94NM-063 Hanford Facility RCRA Permit, General Conditions II.C.4
Target audience	General worker, advanced general worker, general manager, and general shipper
Delivery	Classroom
Evaluation	Written examination - 80% passing grade
Length	4 Hours
Frequency	One Time

Appendix A-1 (Continued) Dangerous Waste Operations Training Courses

Title	020159 Hazardous Waste Shipper Qualification - Advanced Course 2
Description	Course introduces General Shippers to identify shippers' responsibilities and liabilities with regard to compliance to manifesting requirements and DOT regulations, including placarding, identifying proper shipping names, and loading requirements.
Mandating Document(s)	WAC 173-303-330(1), -180, -190, and -370. Hanford Facility RCRA Permit, General Condition II.Q.
Target Audience	General Shippers of dangerous or mixed waste on roadways anywhere on the Hanford Facility.
Delivery	Classroom
Evaluation	Written examination - 80% passing grade
Length	24 Hours
Frequency	Every 3 years by 020159

Title	035010 Waste Designation
Description	Course teaches dangerous waste designation according to Washington Administrative Code (WAC) 173-303. Class content includes section-by-section lecture on the regulations, with examples following each section. Students complete examples using a Waste Designation flow chart. Examples addressed include: Federal Listed Waste, Discarded Chemical Products, Dangerous Waste Source, Washington State Criteria: Toxicity, Persistence, Carcinogenic, and Federal Characteristics: Ignitability, Corrosivity, Reactivity, and Toxicity.
Mandating Document(s)	WAC 173-303-070, and -080 through -100
Target Audience	General Shippers, General Manager (Generator Services Operators Only), Waste Designator
Delivery	Classroom
Evaluation	Written Exam - 80% passing grade
Length	16 Hours
Frequency	One Time

Appendix A-1 (Continued) Dangerous Waste Operations Training Courses

Title	035012 Waste Designation Qualification
Description	Course provides qualification to become a waste designator.
Mandating Document(s)	WAC 173-303-070, and -080 through -100
Target Audience	Waste Designators
Delivery	Classroom
Evaluation	Written Exam - 80% passing grade
Length	4 Hours
Frequency	Annually by 035012

Title	035020 Facility Waste Sampling and Analysis
Description	Course presents waste sampling methodologies according to EPA Protocols SW-846, Test Methods for Evaluating Solid Waste Physical/Chemical Methods. This course also covers documentation requirements in a sampling plan, waste analysis plan, field and laboratory quality control/assurance, data quality objectives process and use of actual sampling equipment as specified by WAC 173-303-110. Topics on listed waste management pertaining to sample management and available on-site sampling services are covered.
Mandating Document(s)	WAC-173-303-330(1), -070, -110, and -300
Target audience	General Shippers
Delivery	Classroom presentation, exercises, demonstration and discussion
Evaluation	Written Examination - 80% passing grade
Length	16 Hours
Frequency	One Time

Appendix A-1 (Continued) Dangerous Waste Operations Training Courses

Title	035100 Container Waste Management - Initial
Description	<p>Course covers general training requirements pertaining to waste management in container at 90-day accumulation areas and TSD units. The course incorporates WAC 173-303-200(1), -630, DOE Orders, and LMHC policy for container management. Includes practical exercises for hands-on experience with the packaging of dangerous or mixed waste, and preparation of packages for final destination.</p> <p>This course does not cover waste management aspects pertaining to other RCRA waste management units such as tank systems, surface impoundments, containment buildings, landfills, etc.</p>
Mandating Document(s)	WAC 173-303-330(1), -630, -200(1) and Waste Minimization
Target Audience	Advanced General Workers/General Managers Services / Shippers
Delivery	Classroom
Evaluation	Written Examination - 80% passing grade
Length	16 Hours
Frequency	Annually by 035110

Title	035110 Container Waste Management - Refresher
Description	Refreshes Course 035100
Mandating Document(s)	WAC 173-303-330(1), -630, -200(1) and Waste Minimization
Target Audience	Advanced General Workers/General Managers/Shippers
Delivery	Classroom
Evaluation	Written Examination - 80% passing grade
Length	4 Hours
Frequency	Annually by 035110

Appendix A-1 (Continued) Dangerous Waste Operations Training Courses

Title	035120 Waste Management Administrative - Initial
Description	Course is designed for personnel preparing to become shippers of dangerous and/or mixed waste. This course covers regulatory and company policies, forms, reports, forecasts, and plans. Topics also covered include: waste characterization, waste storage disposal request, low level waste storage/disposal record, transuranic waste storage/disposal record, and radioactive mixed waste attachment sheet. In addition, students will learn how these forms are used to complete shipping papers.
Mandating Document(s)	WAC 173-303-330(1), -630, -200, -210, -220, -380, and -390.
Target Audience	Generator Managers (Generator Services Operators Only)/Waste Designator
Delivery	Classroom
Evaluation	Written Examination - 80% passing grade
Length	8 Hours
Frequency	Annually by 035130

Title	035130 Waste Management Administrative - Refresher
Description	Refreshes course 035120
Mandating Document(s)	WAC 173-303-330(1), -630, -200, -210, -220, -380, and -390.
Target Audience	General Managers (Generator Services Operators Only)/Waste Designator
Delivery	Classroom
Evaluation	Written Examination - 80% passing grade
Length	4 Hours
Frequency	Annually by 035130

Appendix A-1 (Continued) Dangerous Waste Operations Training Courses

Title	03E060 Facility Emergency and Hazard Information Checklist Training (Building Emergency Plan Review for HNF-IP-0263-TANKFARMS)
Description	Course consists of a review of specific hazards associated with the TSD unit and employee's job. The training is completed by the supervisor, manager or a designated individual using a checklist. The job-specific information is reviewed concerning hazards in the employee's work area and Emergency Response requirements, including where applicable, waste feed cut-off, communication and alarm systems, and response to fires. The checklist act as a guide to ensure consistent coverage of necessary topics.
Mandating Document(s)	WAC 173-303-330(1)(d), -340, -350, and -630.
Target audience	General Worker, General Supervisor/Manager, and General Shipper
Delivery	One-on-one or as a group with supervisor, manager or designated individual
Evaluation	Training checklist documentation
Length	Average = 1 Hour
Frequency	Annually by 03E060

Title	350560 Waste Handling Segregation and Packaging - Initial or Refresher
Description	This course covers the proper handling, segregating and packaging of waste within Tank Farms. The following material is presented: Applicable Regulations, Waste Minimization, Waste Segregation, Waste Packaging Rules for handling Radioactive Mixed Waste, including the use of Satellite Accumulation Areas, and Required Inspections of Accumulation Areas and Containers.
Mandating Document(s)	WAC 173-303-330(1)(d), -200, -300, and waste minimization.
Target Audience	General Workers/Advanced General Workers/General Managers/General Shippers
Delivery	Classroom
Evaluation	Written Examination - 70% passing grade
Length	4 Hours
Frequency	Annually by 350560

Appendix A-1 (Continued) Dangerous Waste Operations Training Courses

Title	350710 Tank Farms Facility Orientation
Description	Course consists of classroom presentation. Topics are presented according to U.S. Department of Energy, Federal, and State requirements that include entry and exit requirements; location of organizational charts and administrative and operating procedures; the person in charge of communications; potential hazards (radiological and nonradiological); restricted areas; potential emergencies, alarms, communications, responses and staging areas; locations and use of personal protective and emergency equipment; identification of TSD units; overview of the process; and training requirements.
Mandating Document(s)	WAC-173-303-330(1), -340, -350, and -360
Target audience	All Personnel entering TWRS TSD Units
Delivery	Classroom
Evaluation	Written examination - 70% passing grade
Length	3 Hours
Frequency	Annually by 350760 (Computer-Based Training)

Title	350760 Tank Farms Facility Re-Orientation
Description	Course consists of a review of entry and exit requirements; location of organizational charts and administrative and operating procedures; the person in charge of communications; potential hazards (radiological and nonradiological); restricted areas; potential emergencies, alarms, communications, responses and staging areas; locations and use of personal protective and emergency equipment; identification of TSD units; overview of the process; and training requirements.
Mandating Document(s)	WAC-173-303-330(1), -340, -350, and -360
Target audience	All Personnel entering TWRS TSD Units
Delivery	Computer-based Training
Evaluation	Not applicable
Length	1/2 Hour
Frequency	Annually with 000001

Appendix A-2 Job-Specific Training Courses

Title	02028B Building Emergency Director Training
Description	Course provides an overview of the responsibilities of the building emergency director, identifies the building emergency organizations, actions required during an event, implementing the contingency plan, and discusses drill and exercise requirements.
Mandating Document(s)	WAC-173-303-330(1), -340, -350, and -360
Target audience	Operations Shift Managers/Operations Engineers (Designated Building Emergency Directors)/Operations Managers
Delivery	At the BED office
Evaluation	Performance Evaluation
Length	3.5 Hours
Frequency	Annually by 037510

Title	037510 Building Emergency Director/Building Warden Requalification
Description	Refresher for Building Emergency Director Training
Mandating Document(s)	WAC-173-303-330(1), -340, -350, and -360
Target audience	Operations Shift Managers/Operations Engineers (Designated Building Emergency Directors)/Operations Managers
Delivery	Classroom
Evaluation	Not Applicable
Length	1.5 Hours
Frequency	Annually by 037510

Appendix A-2 (Continued) Job-Specific Training Courses

Title	350010 Solid Waste Project - Waste Operations Generator Services Truck Operations - Initial Qualification
Description	Operator qualification course that covers the requirements to move dangerous waste from the field and satellite accumulation areas to the <90 day storage pad, communication and alarm systems and response to dangerous waste contamination. The qualification course includes completion of Tank Farms Waste Truck Operation Classroom and on-the-job training checklist.
Mandating Document(s)	WAC-173-303-330, -400 or -600
Target audience	Nuclear Chemical Operators
Delivery	Classroom, On-The-Job Training
Evaluation	Written Examination - 70% passing grade, Performance Demonstration
Length	Approximately 20 Hours
Frequency	Every 2 years by 350012

Title	350020 Cask/Sample Transport Truck Operations - Initial Qualification
Description	Operator qualification course that covers the requirements to transport samples from the field to the laboratories. The qualification course includes completion of Cask/Sample Transport Truck Operations Classroom and on-the-job training checklist.
Mandating Document(s)	WAC-173-303-330, -400 or -600
Target audience	Nuclear Chemical Operators
Delivery	Classroom, On-the-Job Training
Evaluation	Written Examination - 70% passing grade, Performance Demonstration
Length	Approximately 40 Hours
Frequency	Every 2 years by 350022

Appendix A-2 (Continued) Job-Specific Training Courses

Title	350030 Tank Farms Routine Operations - Initial Qualification
Description	Operator qualification course that defines the function, components, principles of operation, and purpose of Tank Farms Routine operations. Covers Alarm response and normal operating procedures including: procedures for using, inspecting and replacing TWRS emergency and monitoring equipment, automatic and manual dangerous waste feed cut-off systems, response to fire and explosions, response to spills and shutdown of operations.
Mandating Document(s)	WAC-173-303-330, -400 or -600
Target audience	Nuclear Chemical Operators
Delivery	Classroom, On-The-Job Training
Evaluation	Written Examination - 70% passing grade, Performance Demonstration
Length	Approximately 160 hrs
Frequency	Every 2 Years by 350032

Title	350031 Tank Farms Routines Classroom
Description	This classroom training teaches Operators how to perform duties associated with routine surveillance, waste transfers and ventilation in Tank Farms. Conduct of Operations, equipment, alarm response, radiation control, and safety requirements are also covered.
Mandating Document(s)	WAC-173-303-330, -400 or -600
Target audience	Nuclear Chemical Operators
Delivery	Classroom
Evaluation	Written Examination - 70% passing grade
Length	Approximately 160 hrs
Frequency	Initial Training

Appendix A-2 (Continued) Job-Specific Training Courses

Title	350035 Characterization Project Routine Operations - Initial Qualification
Description	Operator qualification course that defines the function, components, principles of operation and purpose of CPO Routines. Covers procedures for using, inspecting and replacing tools and equipment and response to spills.
Mandating Document(s)	WAC-173-303-330, -400 or -600
Target audience	Nuclear Chemical Operators
Delivery	Classroom, On-The-Job Training
Evaluation	Written Examination - 70% passing grade, Performance Demonstration
Length	Approximately 40 Hours
Frequency	Every 2 Years by 350036

Title	350037 CPO Routines Revised Qualification (With In-Tank Video)
Description	Operator qualification course that defines the function, components, principles of operation and purpose of CPO Routines. Covers procedures for using, inspecting and replacing tools and equipment including In-Tank Video equipment and response to spills.
Mandating Document(s)	WAC-173-303-330, -400 or -600
Target audience	Nuclear Chemical Operators
Delivery	Classroom, On-The-Job Training
Evaluation	Written Examination - 70% passing grade, Performance Demonstration
Length	Approximately 1 Hour
Frequency	Every 2 Years by 350039

Appendix A-2 (Continued) Job-Specific Training Courses

Title	350040 Tank Farms Aging Waste Operations - Initial Qualification
Description	Operator qualification course that defines the function, components, principles of operation, and purpose of Aging Waste operations. Covers Alarm Response Procedures and normal operating procedures including: procedures for using, inspecting and replacing TWRS emergency and monitoring equipment, automatic and manual dangerous waste feed cut-off systems, response to fire and explosions, response to spills and shutdown of operations.
Mandating Document(s)	WAC-173-303-330, -400 or -600
Target audience	Nuclear Chemical Operators
Delivery	Classroom, On-The-Job Training
Evaluation	Written Examination - 70% passing grade, Performance Demonstration
Length	Approximately 40 hrs
Frequency	Every 2 Years by 350042

Title	350060 Tank Farms Field Crew - Initial Qualification
Description	Operator qualification course that defines the function, components, principles of operation and purpose of Field Crew. Covers procedures for using, inspecting and replacing tools and equipment and response to spills.
Mandating Document(s)	WAC-173-303-330, -400 or -600
Target audience	Nuclear Chemical Operators
Delivery	Classroom, On-The-Job Training
Evaluation	Written Examination - 70% passing grade, Performance Demonstration
Length	Approximately 60 Hours
Frequency	Every 2 Years by 350062

Appendix A-2 (Continued) Job-Specific Training Courses

Title	350066 Solid Waste Project - Waste Operations Generator Services Operations Classroom
Description	Course covers the requirements to operate TWRS <90 day storage pad, the movement of dangerous waste from satellite accumulation areas to the <90 day storage pad, defines the function, components, principles of operation, and purpose of the waste truck and requirements to support the shipment of Dangerous Waste. Communication and alarm systems and response to dangerous waste contamination.
Mandating Document(s)	WAC-173-303-330, -400 or -600
Target audience	Generator Services, Advanced General Workers
Delivery	Classroom
Evaluation	Written Examination - 70% passing grade for nuclear operators, 80% for Generator Services Operations Team Leaders
Length	Approximately 8 Hours
Frequency	One Time

Title	350070 Push Mode Sampling Operations - Initial Qualification
Description	Operator qualification course that defines the function, components, principles of operation and purpose of Push Mode Core Sampling Platform Operations.
Mandating Document(s)	WAC-173-303-330, -400 or -600
Target audience	Nuclear Chemical Operators
Delivery	Classroom, On-The-Job Training
Evaluation	Written Examination - 70% passing grade, Performance Demonstration
Length	Approximately 40 Hours
Frequency	Every 2 Years by 350083

Appendix A-2 (Continued) Job-Specific Training Courses

Title	350075 Rotary Mode Sampling Operations - Initial Qualification
Description	Operator qualification course that defines the function, components, principles of operation and purpose of Rotary Mode Sampling Platform Operations.
Mandating Document(s)	WAC-173-303-330, -400 or -600
Target audience	Nuclear Chemical Operators
Delivery	Classroom, On-The-Job Training
Evaluation	Written Examination - 70% passing grade, Performance Demonstration
Length	Approximately 40 Hours
Frequency	Every 2 Years by 350073

Title	350077 Ground Crew - Initial Qualification
Description	Operator qualification course that defines the function, components, principles of operation and purpose of Push and Rotary Mode Sampling Ground Crew Operations.
Mandating Document(s)	WAC-173-303-330, -400 or -600
Target audience	Nuclear Chemical Operators
Delivery	Classroom, On-The-Job Training
Evaluation	Written Examination - 70% passing grade, Performance Demonstration
Length	Approximately 40 Hours
Frequency	Every 2 Years by 350079

Appendix A-2 (Continued) Job-Specific Training Courses

Title	350080 Tank Farms Saltwell Systems Operations - Initial Qualification
Description	Operator qualification course that defines the function, components, principles of operation, and purpose of Saltwell Systems operations. Covers Alarm Response Procedures and normal operating procedures including: procedures for automatic and manual dangerous waste feed cut-off systems, response to spills and shutdown of operations.
Mandating Document(s)	WAC-173-303-330, -400 or -600
Target audience	Nuclear Chemical Operators
Delivery	Classroom, On-The-Job Training
Evaluation	Written Examination - 70% passing grade, Performance Demonstration
Length	Approximately 24 Hours
Frequency	Every 2 Years by 350082

Title	350090 Tank Farms Drywell/Low Van Operations - Initial Qualification
Description	Operator qualification course that defines the function, components, principles of operation, and purpose of Drywell/Low Van operations and In-Tank Photography and Video Taping. Covers alarm response and normal operating procedures.
Mandating Document(s)	WAC-173-303-330, -400 or -600
Target audience	Nuclear Chemical Operators
Delivery	Classroom, On-The-Job Training
Evaluation	Written Examination - 70% passing grade, Performance Demonstration
Length	Approximately 24 Hours
Frequency	Every 2 Years by 350092

Appendix A-2 (Continued) Job-Specific Training Courses

Title	350100 204-AR Operations - Initial Qualification
Description	Operator qualification course that defines the function, components, principles of operation, and purpose of 204-AR Building operations. Covers Alarm Response Procedures and normal operating procedures including: Automatic and manual dangerous waste feed cut-off systems, response to fire and explosions, response to spills and shutdown of operations.
Mandating Document(s)	WAC-173-303-330, -400 or -600
Target audience	Nuclear Chemical Operators
Delivery	Classroom, On-The-Job Training
Evaluation	Written Examination - 70% passing grade, Performance Demonstration
Length	Approximately 40 Hours
Frequency	Every 2 Years by 350102

Title	350145 TWRS Operations Engineer Qualification
Description	<p>Course includes the following topics to prepare the Manager in Tank Farms operations:</p> <ul style="list-style-type: none"> • Administrative information • Technical information • Hazardous material/dangerous waste requirements • Handling dangerous waste • Safety analysis reports • Operational safety requirements • Radiation work procedures • Occurrence reporting • Jobs conducted in the area of assigned responsibility • Conduct of operations • Processes and services • Equipment.
Mandating Document(s)	WAC-173-303-330, -400 or -600
Target audience	Operations Shift Managers/Operations Engineers
Delivery	Classroom, On-The-Job Training
Evaluation	Written Examination - 80% passing grade, Oral Board
Length	240 Hours
Frequency	Every 2 years by 350147

Appendix A-2 (Continued) Job-Specific Training Courses

Title	350165 Solid Waste Project - Waste Operations Generator Services Sampling and Repacking Operations - Initial Qualification
Description	Operator qualification course that covers the requirements to sample and repack waste packages at the <90 Day Storage Pad. Communication and alarm systems and response to dangerous waste contamination. The qualification course includes completion of Generator Services Sampling and Repacking Operations Classroom and on-the-job training checklist.
Mandating Document(s)	WAC-173-303-330, -400 or -600
Target audience	Nuclear Chemical Operators
Delivery	Classroom, On-The-Job Training
Evaluation	Written Examination - 70% passing grade, Performance Demonstration
Length	Approximately 40 Hours
Frequency	Every 2 years by 350162

Title	350166 Solid Waste Project - Waste Operations Generator Services Surveillance and Inspection - Initial Qualification
Description	Operator qualification course that covers the requirements to operate TWRS <90 Day Storage Pad, the movement of dangerous waste from satellite accumulation areas to the <90 day storage pad and requirements to support the shipment of Dangerous Waste. Communication and alarm systems and response to dangerous waste contamination. The certification course includes completion of the Generator Services Surveillance and Inspection Operation Classroom and on-the-job training checklist.
Mandating Document(s)	WAC-173-303-330, -400 or -600
Target audience	Nuclear Chemical Operators
Delivery	Classroom, On-The-Job Training
Evaluation	Written Examination - 70% passing grade, Performance Demonstration
Length	Approximately 40 Hours
Frequency	Every 2 years by 350163

Appendix A-2 (Continued) Job-Specific Training Courses

Title	350167 Solid Waste Project - Waste Operations Generator Services Container Document System/Dispatch - Initial Qualification
Description	Course covers the requirements to operate the Environmental Waste Operations Container Document System to keep track of the Dangerous and Mixed Waste accumulated by TWRS.
Mandating Document(s)	WAC-173-303-330, -400 or -600
Target audience	Nuclear Chemical Operators
Delivery	Classroom, On-The-Job Training
Evaluation	By examination, Performance Demonstration
Length	NA
Frequency	Every 2 years 350164

Title	350180 Tank Farms Mitigation Pump Operations - Initial Qualification
Description	Operator qualification course that defines the function, components, principles of operation, and purpose of Tank Farms Mitigation Pump operations. Covers Alarm response and normal operating procedures.
Mandating Document(s)	WAC-173-303-330, -400 or -600
Target audience	Nuclear Chemical Operators
Delivery	Classroom, On-The-Job Training, Performance Demonstration
Evaluation	Written Examination - 70% passing grade, Performance Demonstration
Length	Approximately 40 Hours
Frequency	Every 2 Years by 350182

Appendix A-2 (Continued) Job-Specific Training Courses

Title	350201 CASS/TMACS Operations - Initial Qualification
Description	Operator qualification course that defines the function, components, principles of operation, and purpose of the Computer Automated Surveillance System Central Facility the TMACS. Covers Alarm Response Procedures and normal operating procedures.
Mandating Document(s)	WAC-173-303-330, -400 or -600
Target audience	Nuclear Chemical Operators
Delivery	Classroom, On-The-Job Training
Evaluation	Written Examination - 70% passing grade, Performance Demonstration
Length	Approximately 24 Hours
Frequency	Every 2 Years by 350202

Title	350510 Tank Farms Person-In-Charge (PIC) Qualification - Initial & Refresher
Description	PIC Qualification Training consists of three phases: Procedural Reviews (required reading), On-The-Job Training, and Performance Evaluations. These phases provide the PIC candidate with facility specific experience, an understanding of administrative procedures associated with their area(s) of responsibilities, and a comprehensive evaluation of their performance. The course is designed to prepare/qualify individuals responsible for the quantity and quality of work performed and who coordinate the actions of operators, technicians and maintenance personnel.
Mandating Document(s)	HNF-IP-0842, DOE Order 5480.20A
Target audience	Person-In-Charge
Delivery	Classroom, On-The-Job Training, Required Reading
Evaluation	Written Examination - 80% passing grade, Performance Demonstration
Length	Approximately 40 Hours
Frequency	Every 2 Years by 350510

Appendix A-2 (Continued) Job-Specific Training Courses

Title	350680 TWRS Waste Retrieval Qualification - Initial
Description	Train Operators on all aspects of Sluicing operations, including operation of peripheral equipment.
Mandating Document(s)	WAC 173-303-330, -400 or -600
Target audience	Nuclear Chemical Operators
Delivery	Classroom, On-The-Job Training
Evaluation	Written Examination - 70% passing grade, Performance Demonstration
Length	Approximately 40 Hours
Frequency	Every 2 Years by 350682

Title	351479 Field Sampling - Initial Qualification
Description	Operator qualification course that defines the function, components, principles of operation and purpose of Vapor, Auger, and Grab Sampling.
Mandating Document(s)	WAC-173-303-330, -400 or -600
Target audience	Nuclear Chemical Operators
Delivery	Classroom, On-The-Job Training
Evaluation	Written Examination - 70% passing grade, Performance Demonstration
Length	Approximately 40 Hours
Frequency	Every 2 Years by 351482

Appendix A-2 (Continued) Job-Specific Training Courses

Title	350012 Solid Waste Project - Waste Operations Generator Services Truck Operations - Qualification
Description	Operator requalification that defines the function and components, principles of operation and purpose of the Generator Services Truck Operator.
Mandating Document(s)	WAC-173-303-330, -400 or -600
Target audience	Nuclear Chemical Operators Qualified Generator Services Truck Operation
Delivery	On-The-Job Training
Evaluation	Written Examination - 70% passing grade, Performance Demonstration or Evaluated Watch
Length	N/A
Frequency	Every 2 Years by 350012

Title	350022 Cask/Sample Transport Truck Operations - Qualification
Description	Operator requalification that defines the function and components, principles of operation and purpose of the Cask/Sample Transport Truck Operator.
Mandating Document(s)	WAC-173-303-330, -400 or -600
Target audience	Nuclear Chemical Operators Qualified Cask/Sample Transport Truck Operations Qualification
Delivery	Classroom, On-The-Job Training
Evaluation	Written Examination - 70% passing grade, Performance Demonstration, or Evaluated Watch
Length	Approximately 40 Hours
Frequency	Every 2 Years by 350022

Appendix A-2 (Continued) Job-Specific Training Courses

Title	350032 Tank Farms Routine - Requalification
Description	Operator requalification that defines the function and components, principles of operation and purpose of the Tank Farms Routine Operator.
Mandating Document(s)	WAC-173-303-330, -400 or -600
Target audience	Nuclear Chemical Operators Qualified Tank Farm Routine Operations
Delivery	Classroom, On-The-Job Training
Evaluation	Written Examination - 70% passing grade, Performance Demonstration, Evaluated Watch
Length	Approximately 40 Hours
Frequency	Every 2 Years by 350032

Title	350036 Characterization Project Routine Operations - Requalification
Description	Operator requalification course that defines the function, components, principles of operation and purpose of CPO Routines. Covers procedures for using, inspecting and replacing tools and equipment including In-Tank Video and response to spills.
Mandating Document(s)	WAC-173-303-330, -400 or -600
Target audience	Nuclear Chemical Operators
Delivery	Classroom, On-The-Job Training
Evaluation	Examination, Performance Demonstration
Length	Approximately 40 Hours
Frequency	Every 2 Years by 350036

Appendix A-2 (Continued) Job-Specific Training Courses

Title	350039 CPO Routines Revised - requalification (With In-Tank Video)
Description	Operator requalification course that defines the function, components, principles of operation and purpose of CPO Routines. Covers procedures for using, inspecting and replacing tools and equipment including In-Tank Video equipment and response to spills.
Mandating Document(s)	WAC-173-303-330, -400 or -600
Target audience	Nuclear Chemical Operators
Delivery	Classroom, On-The-Job Training
Evaluation	Written Examination - 70% passing grade, Performance Demonstration
Length	NA
Frequency	Every 2 Years by 350039

Title	350042 Tank Farms Aging Waste Operations - Requalification
Description	Operator requalification that defines the function and components, principles of operation and purpose of the Tank Farm Aging Waste Operator.
Mandating Document(s)	WAC-173-303-330, -400 or -600
Target audience	Nuclear Chemical Operators Qualified Tank Farms Aging Waste Operations
Delivery	Classroom, On-The-Job Training
Evaluation	Written Examination - 70% passing grade, Performance Demonstration or Evaluated Watch
Length	Approximately 40 Hours
Frequency	Every 2 Years by 350042

Appendix A-2 (Continued) Job-Specific Training Courses

Title	350062 Tank Farms Field Crew - Requalification
Description	Operator requalification that defines the function and components, principles of operation and purpose of the Field Crew Operator.
Mandating Document(s)	WAC-173-303-330, -400 or -600
Target audience	Nuclear Chemical Operators Qualified Field Crew
Delivery	Classroom, On-The-Job Training
Evaluation	Written Examination - 70% passing grade, Performance Demonstration or Evaluated Watch
Length	Approximately 20 Hours
Frequency	Every 2 Years by 350062

Title	350073 Rotary Mode Sampling Operations - Requalification
Description	Operator requalification that defines the function and components, principles of operation and purpose of the Rotary Sampling Operations.
Mandating Document(s)	WAC-173-303-330, -400 or -600
Target audience	Nuclear Chemical Operators Qualified Rotary Mode Sampling Operator
Delivery	Classroom, On-The-Job Training
Evaluation	Written Examination - 70% passing grade, Performance Demonstration or Evaluated Watch
Length	Approximately 40 Hours
Frequency	Every 2 Years by 350073

Appendix A-2 (Continued) Job-Specific Training Courses

Title	350079 Ground Crew - Requalification
Description	Operator requalification that defines the function and components, principles of operation and purpose of the Ground Crew Operator.
Mandating Document(s)	WAC-173-303-330, -400 or -600
Target audience	Nuclear Chemical Operators Qualified Ground Crew Qualification
Delivery	Classroom, On-The-Job Training
Evaluation	Written Examination - 70% passing grade, Performance Demonstration or Evaluated Watch
Length	Approximately 40 Hours
Frequency	Every 2 Years by 350079

Title	350082 Tank Farms Saltwell Systems Operations - Requalification
Description	Operator requalification that defines the function and components, principles of operation and purpose of the SaltWell System Operator.
Mandating Document(s)	WAC-173-303-330, -400 or -600
Target audience	Nuclear Chemical Operators Qualified SaltWell System Operations
Delivery	Classroom, On-The-Job Training
Evaluation	Written Examination - 70% passing grade, Performance Demonstration or Evaluated Watch
Length	Approximately 24 Hours
Frequency	Every 2 Years by 350082

Appendix A-2 (Continued) Job-Specific Training Courses

Title	350083 Push Mode Sampling Operations - Requalification
Description	Operator requalification that defines the function and components, principles of operation and purpose of the Push Mode Core Sampling Operator.
Mandating Document(s)	WAC-173-303-330, -400 or -600
Target audience	Nuclear Chemical Operators Qualified Push Mode Core Sampling Operator Qualification
Delivery	Classroom, On-The-Job Training
Evaluation	Written Examination - 70% passing grade, Performance Demonstration or Evaluated Watch
Length	Approximately 40 Hours
Frequency	Every 2 Years by 350083

Title	350092 Tank Farms Drywell/LOW Van Operations - Requalification
Description	Operator requalification that defines the function, components, and principles of operation and purpose of the Drywell/Low Van Operator.
Mandating Document(s)	WAC-173-303-330, -400 or -600
Target audience	Nuclear Chemical Operators Qualified Drywell/LOW Van Operations
Delivery	Classroom, On-The-Job Training
Evaluation	Written Examination - 70% passing grade, Performance Demonstration or Evaluated Watch
Length	Approximately 20 Hours
Frequency	Every 2 Years by 350092

Appendix A-2 (Continued) Job-Specific Training Courses

Title	350102 204-AR Operations - Qualification
Description	Operator Qualification defines the function and components, principles of operation and purpose of the 204-AR Operator.
Mandating Document(s)	WAC-173-303-330, -400 or -600
Target audience	Nuclear Chemical Operators Qualified 204-AR Operations
Delivery	Classroom, On-The-Job Training
Evaluation	Written Examination - 70% passing grade, Performance Demonstration or Evaluated Watch
Length	Approximately 20 Hours
Frequency	Every 2 Years by 350102

Title	350147 TWRS Operations Engineer Qualification
Description	Operations Engineer qualification that defines the function and components, principles of operation and purpose of the Operations Engineer.
Mandating Document(s)	WAC-173-303-330, -400 or -600
Target Audience	Operations Shift Managers/Operations Engineers
Delivery	Examination
Evaluation	By examination or Evaluated Watch
Length	N/A
Frequency	Every 2 years by 350147

Appendix A-2 (Continued) Job-Specific Training Courses

Title	350162 Solid Waste Project - Waste Operations Generator Services Sampling and Repackaging Operations - Requalification
Description	Operator requalification that defines the function and components, principles of operation and purpose of the Environmental Waste Operations Sampling/Repackaging Operator.
Mandating Document(s)	WAC-173-303-330, -400 or -600
Target audience	Nuclear Chemical Operators Qualified Environmental Waste Operations Sampling/Repackaging Operations
Delivery	On-The-Job Training
Evaluation	Written Examination - 70% passing grade, Performance Demonstration or Evaluated Watch
Length	N/A
Frequency	Every 2 Years by 350162

Title	350163 Solid Waste Project - Waste Operations Generator Services Surveillance and Inspection - Requalification
Description	Operator requalification that defines the function and components, principles of operation and purpose of the Environmental Waste Operations Surveillance/Inspection Operator.
Mandating Document(s)	WAC-173-303-330, -400 or -600
Target audience	Nuclear Chemical Operators Qualified Generator Services Surveillance/Inspection Operation
Delivery	On-The-Job Training
Evaluation	Performance Demonstration or Evaluated Watch
Length	Approximately 40 Hours
Frequency	Every 2 Years by 350163

Appendix A-2 (Continued) Job-Specific Training Courses

Title	350164 Solid Waste Project - Waste Operations Generator Services Container Document System Operations - Requalification
Description	Operator requalification that defines the requirements to operate the Generator Services Operations Container Document System to keep track of the Dangerous and Mixed Waste accumulated by TWRS.
Mandating Document(s)	WAC-173-303-330, -400 or -600
Target audience	Nuclear Chemical Operators
Delivery	Classroom, On-The-Job Training
Evaluation	By examination
Length	Approximately 40 Hours
Frequency	Every 2 years 350164

Title	350182 Tank Farms Mitigation Pump Operations - Requalification
Description	Operator requalification course that defines the function, components, principles of operation, and purpose of TWRS Mitigation Pump operations. Covers Alarm response and normal operating procedures
Mandating Document(s)	WAC-173-303-330, -400 or -600
Target audience	Nuclear Chemical Operators Qualified Tank Farms Mitigation Pump Operations
Delivery	Classroom, On-The-Job Training
Evaluation	Written Examination - 70% passing grade, Performance Demonstration
Length	Approximately 40 Hours
Frequency	Every 2 Years by 350182

Title	350202 GASS/TMACS Operations - Qualification
Description	Operator qualification that defines the function and components, principles of operation and purpose of the GASS/TMACS Operator.
Mandating Document(s)	WAC-173-303-330, -400 or -600
Target audience	Nuclear Chemical Operators Qualified GASS/TMACS Operations
Delivery	Classroom, On-The-Job Training
Evaluation	Written Examination - 70% passing grade, Performance Demonstration or Evaluated Watch
Length	Approximately 8 Hours
Frequency	Every 2 Years by 350202

Title	350682 TWRS Waste Retrieval Qualification - Qualification
Description	Train Operators on all aspects of Sluicing operations, including operation of peripheral equipment.
Mandating Document(s)	WAC 173-303-330, -400 or -600
Target audience	Nuclear Chemical Operators
Delivery	Classroom, On-The-Job Training
Evaluation	Written Examination - 70% passing grade, Performance Demonstration
Length	Approximately 40 Hours
Frequency	Every 2 Years by 350682

Title	351482 Field Sampling - Requalification
Description	Operator requalification that defines the function and components, principles of operation and purpose of the Field Sampling Operator.
Mandating Document(s)	WAC-173-303-330, -400 or -600
Target audience	Nuclear Chemical Operators Qualified Field Sampling Operation
Delivery	Classroom, On-The-Job Training
Evaluation	Written Examination - 70% passing grade, Performance Demonstration or Evaluated Watch
Length	Approximately 40 Hours
Frequency	Every 2 Years by 351482

**Appendix B Dangerous Waste Training Requirements Listed By
Employee Job Position and Name (Examples)**

Appendix B is maintained as required by HNF-IP-0974. These examples are provided to help explain the program. Copies of HNF-IP-0974 Can be found in the Shift Office at 272-AW and 272-WA.

Appendix B-1. TWRS Dangerous Waste Training Requirements For Advanced
General Workers (Nuclear Chemical Operators) (EXAMPLE) B - 1

Appendix B-2. TWRS Dangerous Waste Training Requirements For General
Managers (EXAMPLE) B - 4

Appendix B-3. TWRS Dangerous Waste Training Requirements For General
Shippers and Waste Designators (EXAMPLE) B - 7

Appendix B-1. TWRS Dangerous Waste Training Requirements For Advanced General Workers (Nuclear Chemical Operators) (EXAMPLE)

TRAINING COURSES																
MACHINE OPERATOR/ INSTRUCTOR	WASTE MANAGEMENT ORIENTATION AND AWARENESS				INTERACTION PUMP	AGING WHITE	204-40	WELL	ROUTINES	FIELD WELL	FIELD WELL	SAMPLE LINE				
	3502141 INLET	020006 MONITOR	020040 FAC	350040 LAP								350041 C1	350042 C2	350043 C3	350044 C4	350045 C5
000001					350140 350141 350142 350143 350144 350145 350146 350147 350148 350149 350150 350151 350152 350153 350154 350155 350156 350157 350158 350159 350160 350161 350162 350163 350164 350165 350166 350167 350168 350169 350170 350171 350172 350173 350174 350175 350176 350177 350178 350179 350180 350181 350182 350183 350184 350185 350186 350187 350188 350189 350190 350191 350192 350193 350194 350195 350196 350197 350198 350199 350200 350201 350202 350203 350204 350205 350206 350207 350208 350209 350210 350211 350212 350213 350214 350215 350216 350217 350218 350219 350220 350221 350222 350223 350224 350225 350226 350227 350228 350229 350230 350231 350232 350233 350234 350235 350236 350237 350238 350239 350240 350241 350242 350243 350244 350245 350246 350247 350248 350249 350250 350251 350252 350253 350254 350255 350256 350257 350258 350259 350260 350261 350262 350263 350264 350265 350266 350267 350268 350269 350270 350271 350272 350273 350274 350275 350276 350277 350278 350279 350280 350281 350282 350283 350284 350285 350286 350287 350288 350289 350290 350291 350292 350293 350294 350295 350296 350297 350298 350299 350300 350301 350302 350303 350304 350305 350306 350307 350308 350309 350310 350311 350312 350313 350314 350315 350316 350317 350318 350319 350320 350321 350322 350323 350324 350325 350326 350327 350328 350329 350330 350331 350332 350333 350334 350335 350336 350337 350338 350339 350340 350341 350342 350343 350344 350345 350346 350347 350348 350349 350350 350351 350352 350353 350354 350355 350356 350357 350358 350359 350360 350361 350362 350363 350364 350365 350366 350367 350368 350369 350370 350371 350372 350373 350374 350375 350376 350377 350378 350379 350380 350381 350382 350383 350384 350385 350386 350387 350388 350389 350390 350391 350392 350393 350394 350395 350396 350397 350398 350399 350400 350401 350402 350403 350404 350405 350406 350407 350408 350409 350410 350411 350412 350413 350414 350415 350416 350417 350418 350419 350420 350421 350422 350423 350424 350425 350426 350427 350428 350429 350430 350431 350432 350433 350434 350435 350436 350437 350438 350439 350440 350441 350442 350443 350444 350445 350446 350447 350448 350449 350450 350451 350452 350453 350454 350455 350456 350457 350458 350459 350460 350461 350462 350463 350464 350465 350466 350467 350468 350469 350470 350471 350472 350473 350474 350475 350476 350477 350478 350479 350480 350481 350482 350483 350484 350485 350486 350487 350488 350489 350490 350491 350492 350493 350494 350495 350496 350497 350498 350499 350500 350501 350502 350503 350504 350505 350506 350507 350508 350509 350510 350511 350512 350513 350514 350515 350516 350517 350518 350519 350520 350521 350522 350523 350524 350525 350526 350527 350528 350529 350530 350531 350532 350533 350534 350535 350536 350537 350538 350539 350540 350541 350542 350543 350544 350545 350546 350547 350548 350549 350550 350551 350552 350553 350554 350555 350556 350557 350558 350559 350560 350561 350562 350563 350564 350565 350566 350567 350568 350569 350570 350571 350572 350573 350574 350575 350576 350577 350578 350579 350580 350581 350582 350583 350584 350585 350586 350587 350588 350589 350590 350591 350592 350593 350594 350595 350596 350597 350598 350599 350600 350601 350602 350603 350604 350605 350606 350607 350608 350609 350610 350611 350612 350613 350614 350615 350616 350617 350618 350619 350620 350621 350622 350623 350624 350625 350626 350627 350628 350629 350630 350631 350632 350633 350634 350635 350636 350637 350638 350639 350640 350641 350642 350643 350644 350645 350646 350647 350648 350649 350650 350651 350652 350653 350654 350655 350656 350657 350658 350659 350660 350661 350662 350663 350664 350665 350666 350667 350668 350669 350670 350671 350672 350673 350674 350675 350676 350677 350678 350679 350680 350681 350682 350683 350684 350685 350686 350687 350688 350689 350690 350691 350692 350693 350694 350695 350696 350697 350698 350699 350700 350701 350702 350703 350704 350705 350706 350707 350708 350709 350710 350711 350712 350713 350714 350715 350716 350717 350718 350719 350720 350721 350722 350723 350724 350725 350726 350727 350728 350729 350730 350731 350732 350733 350734 350735 350736 350737 350738 350739 350740 350741 350742 350743 350744 350745 350746 350747 350748 350749 350750 350751 350752 350753 350754 350755 350756 350757 350758 350759 350760 350761 350762 350763 350764 350765 350766 350767 350768 350769 350770 350771 350772 350773 350774 350775 350776 350777 350778 350779 350780 350781 350782 350783 350784 350785 350786 350787 350788 350789 350790 350791 350792 350793 350794 350795 350796 350797 350798 350799 350800 350801 350802 350803 350804 350805 350806 350807 350808 350809 350810 350811 350812 350813 350814 350815 350816 350817 350818 350819 350820 350821 350822 350823 350824 350825 350826 350827 350828 350829 350830 350831 350832 350833 350834 350835 350836 350837 350838 350839 350840 350841 350842 350843 350844 350845 350846 350847 350848 350849 350850 350851 350852 350853 350854 350855 350856 350857 350858 350859 350860 350861 350862 350863 350864 350865 350866 350867 350868 350869 350870 350871 350872 350873 350874 350875 350876 350877 350878 350879 350880 350881 350882 350883 350884 350885 350886 350887 350888 350889 350890 350891 350892 350893 350894 350895 350896 350897 350898 350899 350900 350901 350902 350903 350904 350905 350906 350907 350908 350909 350910 350911 350912 350913 350914 350915 350916 350917 350918 350919 350920 350921 350922 350923 350924 350925 350926 350927 350928 350929 350930 350931 350932 350933 350934 350935 350936 350937 350938 350939 350940 350941 350942 350943 350944 350945 350946 350947 350948 350949 350950 350951 350952 350953 350954 350955 350956 350957 350958 350959 350960 350961 350962 350963 350964 350965 350966 350967 350968 350969 350970 350971 350972 350973 350974 350975 350976 350977 350978 350979 350980 350981 350982 350983 350984 350985 350986 350987 350988 350989 350990 350991 350992 350993 350994 350995 350996 350997 350998 350999 351000 351001 351002 351003 351004 351005 351006 351007 351008 351009 351010 351011 351012 351013 351014 351015 351016 351017 351018 351019 351020 351021 351022 351023 351024 351025 351026 351027 351028 351029 351030 351031 351032 351033 351034 351035 351036 351037 351038 351039 351040 351041 351042 351043 351044 351045 351046 351047 351048 351049 351050 351051 351052 351053 351054 351055 351056 351057 351058 351059 351060 351061 351062 351063 351064 351065 351066 351067 351068 351069 351070 351071 351072 351073 351074 351075 351076 351077 351078 351079 351080 351081 351082 351083 351084 351085 351086 351087 351088 351089 351090 351091 351092 351093 351094 351095 351096 351097 351098 351099 351100 351101 351102 351103 351104 351105 351106 351107 351108 351109 351110 351111 351112 351113 351114 351115 351116 351117 351118 351119 351120 351121 351122 351123 351124 351125 351126 351127 351128 351129 351130 351131 351132 351133 351134 351135 351136 351137 351138 351139 351140 351141 351142 351143 351144 351145 351146 351147 351148 351149 351150 351151 351152 351153 351154 351155 351156 351157 351158 351159 351160 351161 351162 351163 351164 351165 351166 351167 351168 351169 351170 351171 351172 351173 351174 351175 351176 351177 351178 351179 351180 351181 351182 351183 351184 351185 351186 351187 351188 351189 351190 351191 351192 351193 351194 351195 351196 351197 351198 351199 351200 351201 351202 351203 351204 351205 351206 351207 351208 351209 351210 351211 351212 351213 351214 351215 351216 351217 351218 351219 351220 351221 351222 351223 351224 351225 351226 351227 351228 351229 351230 351231 351232 351233 351234 351235 351236 351237 351238 351239 351240 351241 351242 351243 351244 351245 351246 351247 351248 351249 351250 351251 351252 351253 351254 351255 351256 351257 351258 351259 351260 351261 351262 351263 351264 351265 351266 351267 351268 351269 351270 351271 351272 351273 351274 351275 351276 351277 351278 351279 351280 351281 351282 351283 351284 351285 351286 351287 351288 351289 351290 351291 351292 351293 351294 351295 351296 351297 351298 351299 351300 351301 351302 351303 351304 351305 351306 351307 351308 351309 351310 351311 351312 351313 351314 351315 351316 351317 351318 351319 351320 351321 351322 351323 351324 351325 351326 351327 351328 351329 351330 351331 351332 351333 351334 351335 351336 351337 351338 351339 351340 351341 351342 351343 351344 351345 351346 351347 351348 351349 351350 351351 351352 351353 351354 351355 351356 351357 351358 351359 351360 351361 351362 351363 351364 351365 351366 351367 351368 351369 351370 351371 351372 351373 351374 351375 351376 351377 351378 351379 351380 351381 351382 351383 351384 351385 351386 351387 351388 351389 351390 351391 351392 351393 351394 351395 351396 351397 351398 351399 351400 351401 351402 351403 351404 351405 351406 351407 351408 351409 351410 351411 351412 351413 351414 351415 351416 351417 351418 351419 351420 351421 351422 351423 351424 351425 351426 351427 351428 351429 351430 351431 351432 351433 351434 351435 351436 351437 351438 351439 351440 351441 351442 351443 351444 351445 351446 351447 351448 351449 351450 351451 351452 351453 351454 351455 351456 351457 351458 351459 351460 351461 351462 351463 351464 351465 351466 351467 351468 351469 351470 351471 351472 351473 351474 351475 351476 351477 351478 351479 351480 351481 351482 351483 351484 351485 351486 351487 351488 351489 351490 351491 351492 351493 351494 351495 351496 351497 351498 351499 351500 351501 351502 351503 351504 351505 351506 351507 351508 351509 351510 351511 351512 351513 351514 351515 351516 351517 351518 351519 351520 351521 351522 351523 351524 351525 351526 351527 351528 351529 351530 351531 351532 351533 351534 351535 351536 351537 351538 351539 351540 351541 351542 351543 351544 351545 351546 351547 351548 351549 351550 351551 351552 351553 351554 351555 351556 351557 351558 351559 351560 351561 351562 351563 351564 351565 351566 351567 351568 351569 351570 351571 351572 351573 351574 351575 351576 351577 351578 351579 351580 351581 351582 351583 351584 351585 351586 351587 351588 351589 351590 351591 351592 351593 351594 351595 351596 351597 351598 351599 351600 351601 351602 351603 351604 351605 351606 351607 351608 351609 351610 351611 351612 351613 351614 351615 351616 351617 351618 351619 351620 351621 351622 351623 351624 351625 351626 351627 351628 351629 351630 351631 351632 351633 351634 351635 351636 351637 											

FOR LIST OF OPERATORS CURRENTLY FILLING POSITIONS SEE CURRENT CERTIFIED OPERATORS LIST

(A) REPEATED ANNUALLY
(B) REPEATED EVERY TWO
(C) COURSE 350031 DOES
X INITIAL TRAINING
C CONTINUING TRAINING

PREVIOUSLY SATISFIED BY TANK FARM ORIENTATIONS:
000063, 000065, 000077, 350700, OR 350750
G TRAINING

2 PREVIOUSLY SATISFIED BY HAZARDOUS WASTE
SHIPMENT CERTIFICATION 02006S

Appendix B-1. (Continued) TWRS Dangerous Waste Training Requirements For Advanced General Workers (Nuclear Process Operators) (EXAMPLE)

TRAINING COURSES										
WASTE MANAGEMENT ORIENTATION AND AWARENESS					Solid Waste Project - Waste Operations Awareness-Regulation					
NUCLEAR OPERATORS/NUCLEAR CHEMICAL OPERATORS	000001 WLT	350710 ¹ 350700 WLT	020065 WLT	030600 FAC	350500 WLT	030100 ² WLT	WASTE TRUCK	SAMPLE/ REPLACE	SURV/ INSPECT	CONTAINER DOCUMENT SYSTEM
							350510 350512 350514 350516 350518 350520 350522 350524 350526 350528 350530 350532 350534 350536 350538 350540 350542 350544 350546 350548 350550 350552 350554 350556 350558 350560 350562 350564 350566 350568 350570 350572 350574 350576 350578 350580 350582 350584 350586 350588 350590 350592 350594 350596 350598 350600 350602 350604 350606 350608 350610 350612 350614 350616 350618 350620 350622 350624 350626 350628 350630 350632 350634 350636 350638 350640 350642 350644 350646 350648 350650 350652 350654 350656 350658 350660 350662 350664 350666 350668 350670 350672 350674 350676 350678 350680 350682 350684 350686 350688 350690 350692 350694 350696 350698 350700 350702 350704 350706 350708 350710 350712 350714 350716 350718 350720 350722 350724 350726 350728 350730 350732 350734 350736 350738 350740 350742 350744 350746 350748 350750 350752 350754 350756 350758 350760 350762 350764 350766 350768 350770 350772 350774 350776 350778 350780 350782 350784 350786 350788 350790 350792 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353082 353084 353086 353088 353090 353092 353094 353096 353098 353100 353102 353104 353106 353108 353110 353112 353114 353116 353118 353120 353122 353124 353126 353128 353130 353132 353134 353136 353138 353140 353142 353144 353146 353148 353150 353152 353154 353156 353158 353160 353162 353164 353166 353168 353170 353172 353174 353176 353178 353180 353182 353184 353186 353188 353190 353192 353194 353196 353198 353200 353202 353204 353206 353208 353210 353212 353214 353216 353218 353220 353222 353224 353226 353228 353230 353232 353234 353236 353238 353240 353242 353244 353246 353248 353250 353252 353254 353256 353258 353260 353262 353264 353266 353268 353270 353272 353274 353276 353278 353280 353282 353284 353286 353288 353290 353292 353294 353296 353298 353300 353302 353304 353306 353308 353310 353312 353314 353316 353318 353320 353322 353324 353326 353328 353330 353332 353334 353336 353338 353340 353342 353344 353346 353348 353350 353352 353354 353356 353358 353360 353362 353364 353366 353368 353370 353372 353374 353376 353378 353380 353382 353384 353386 353388 353390 353392 353394 353396 353398 353400 353402 353404 353406 353408 353410 353412 353414 353416 353418 353420 353422 353424 353426 353428 353430 353432 353434 353436 353438 353440 353442 353444 353446 353448 353450 353452 353454 353456 353458 353460 353462 353464 353466 353468 353470 353472 353474 353476 353478 353480 353482 353484 35			

Appendix B-1. (Continued) TWRS Dangerous Waste Training Requirements For Advanced General Workers (Nuclear Process Operators) (EXAMPLE)

-EXAMPLE- CERTIFIED OPERATOR LIST EAST AND WEST TANK FARMS TRANSFER GROUPS									
REV: XXX									
ROUTINES 350030	AGING WASTE 350040	FIELD CREW 350060	SALTWELLS 350080	DRYWELLS 350090	204-AR 350100	CASS/THACS 350201	MITIGATION PUMP 350180		
JONES HA	BROWN BL	ANDERSON JQ	SMITH TR	BROWN BL	WHITE ML	JONES HA	JONES HA		

-EXAMPLE- CERTIFIED OPERATOR LIST CSDO TRANSFER GROUP														-EXAMPLE- CERTIFIED OPERATOR LIST CSDO TRANSFER GROUP													
REV: XXX														June 30, 1997													
ROUTINES 350030	CPO ROUTINES 350035	SALTWELLS 350080	FIELD CREW 350060	GROUND CREW 350077	PUSH MODE 350070	WASTE TRUCK 350010	CASK TRUCK 350020	ROTARY MODE 350075	SAMP/REPAK 350165	SURV/INSPEC 350166	CONT DOC SYS 350167	FIELD SAMP 351479															
BLACK SM	COADY EM	YOUNG MR	ZIMMER WB	COADY EM	ZIMMER WB	COADY EM	ZIMMER WB	COADY EN	ZIMMER WB	ZIMMER WB	ZIMMER WB	ZIMMER WB	BLACK SN														

Appendix B-2. THRS Dangerous Waste Training Requirements For General Managers (EXAMPLE)

TRAINING COURSES													
WASTE MANAGEMENT ORIENTATION, AWARENESS AND ADVANCED				Solid Waste Project - Waste Operations GENERATOR-SERVICES-OPERATIONS TEAM LEADER/MANAGER							OPERATIONS ENGINEER		Person-In-Charge
000001 (A) HGET		350710 ¹ or 350760 (A) ORIENT	02006G WASTE MGMT	03E060 (A) FETIC	350560 (A) WRS&P	035100 ² or 035110 (A) CORE W.M.	035120 ³ or 035130 (A) W.M. ADMIN.	035010 WASTE DESIGN	350066 GSO	350145 ⁴ or 350147 ⁴ (B) OE	020288 or 037510 (A) BED	350510	
</													

(A) REPEATED ANNUALLY
 (B) REPEATED EVERY TWO YEARS
 X INITIAL TRAINING
 C CONTINUING TRAINING

¹ PREVIOUSLY SATISFIED BY TANK FARM ORIENTATIONS: 000063, 000065, 000077, 350700, OR 350750

² PREVIOUSLY BE SATISFIED BY 02006S

³ PREVIOUSLY SATISFIED BY TANK FARMS SUPERVISOR/ MANAGER CERTIFICATION 350110

⁴ MAY BE SATISFIED BY 350137

Appendix B-2. (Continued) TWRs Dangerous Waste Training Requirements For General Managers (EXAMPLE)

TRAINING COURSES													Person-In-Charge
WASTE MANAGEMENT ORIENTATION, AWARENESS AND ADVANCED				Solid Waste Project - Waste Operations GENERATOR-SERVICES-OPERATIONS TEAM LEADER/MANAGER									
MANAGERS BY JOB POSITIONS	000001 (A) HGET	350710 ¹ or 350760 (A) ORIENT	020066 WASTE MGMT	03E060 (A) FETIC	350560 (A) WHS&P	035100 ² or 035110 (A) CORE W.M.	035120 ² or 035130 (A) W.M. ADMIN	035010 WASTE DESIGN	350066 GSO	350145 ³ or 350147 ³ (B) OE	020288 or 037510 (A) BED	350510	
Solid Waste Project - Waste Operations GENERATOR-SERVICES OPERATIONS MANAGER	X/C	X/C	X	X/C	X/C	X/C	X/C	X					
ZIMMER WENDY B													
Solid Waste Project - Waste Operations GENERATOR-SERVICES OPERATIONS PERSON- IN-CHARGE (PIC)													
ANDERSON JOHN Q	X/C	X/C	X	X/C	X/C	X/C	X/C	X	X				
TWRS HAZARDOUS MATERIAL SPECIALIST													
BROWN BILL L	X/C	X/C	X	X/C	X/C	X/C	X/C	X	X				

1 (A) REPEATED ANNUALLY

(B) REPEATED EVERY TWO YEARS

X INITIAL TRAINING

C CONTINUING TRAINING

1 PREVIOUSLY SATISFIED BY TANK FARM ORIENTATIONS:

2 PREVIOUSLY SATISFIED BY 020065

3 PREVIOUSLY SATISFIED BY TANK FARMS SUPERVISOR/

MANAGER CERTIFICATION 350110

4 MAY BE SATISFIED BY 350137

Appendix B-3. TWRS Dangerous Waste Training Requirements For General Shippers and Waste Designators
(EXAMPLE)

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TRAINING COURSES									
WASTE MANAGEMENT ORIENTATION, AWARENESS, ADVANCED AND ADMINISTRATION									
000001 (A) HGET	350710 ¹ or 350760 (A) ORIENT	020066 WASTE MGMT	03E060 (A) FETIC	350560 (A) WHS&P	035120 ² or 035130 (A) W.M. ADMIN	035010 WASTE DESIGN	035012 (A) WASTE DESIGN QUAL	035020 WASTE SAMP ANALY	020159 (B) HAZ WASTE SHIP CERT
EXAMPLES									
SHIPPERS									
WHITE MARY L	X/C	X	X/C	X/C	X/C	X		X	X/C
YOUNG MIKE R	X/C	X	X/C	X/C	X/C	X		X	X/C
ZIMMER WENDY B	X/C	X	X/C	X/C	X/C	X		X	X/C
WASTE DESIGNATORS									
WHITE MARY L	X/C					X		X/C	
ZIMMER WENDY B	X/C					X		X/C	

(A) REPEATED ANNUALLY
(B) REPEATED ANNUALLY
X INITIAL TRAINING
C CONTINUING TRAINING

¹ PREVIOUSLY SATISFIED BY TANK FARM ORIENTATIONS:
000063, 000065, 000077, 350700, or 350750
² PREVIOUSLY SATISFIED BY 020065