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## ENGINEERING CHANGE NOTICE

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Proj.  
ECN

2. ECN Category (mark one)		3. Originator's Name, Organization, MSIN, and Telephone No. R. E. Pohto	4. USQ Required? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Date March 2000
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1. ECN (use no. from pg. 1)

628825

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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"/>
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FSAR/SAR	<input type="checkbox"/>	IEFD Drawing	<input type="checkbox"/>	Process Control Manual/Plan	<input type="checkbox"/>
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RPP Retrieval Support Operations		2/15/00		
RPP Shift Operations		4/1/00		
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RPP Maintenance		2-17-00		
Waste Management Hanford Operations Facilities		2/22/00		
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## River Protection Project Dangerous Waste Training Plan

RE Pohto

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Abstract: This supporting document contains the training plan for dangerous waste management at River Protection Project TSD Units

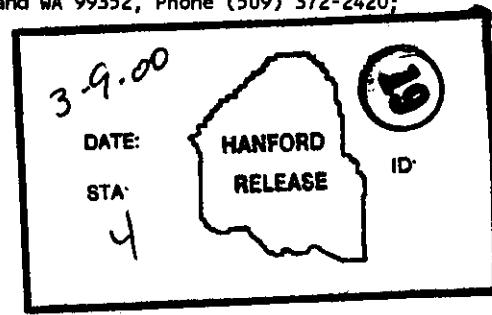
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# River Protection Project Dangerous Waste Training Plan

R. E. Pohto  
CH2M HILL

Date Published  
March 2000

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

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Contractor for the U.S. Department of Energy  
Office of River Protection under Contract DE-AC06-99RL14047

**RIVER PROTECTION PROJECT  
DANGEROUS WASTE TRAINING PLAN**

March 2000

**RPP Environmental**

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**Acronyms**

ACES	Access Control Entry System
BED	Building Emergency Director
CFR	Code of Federal Regulations
CHG	CH2M HILL Hanford Group, Inc.
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
<del>FDNW</del>	<del>Fluor Daniel Northwest</del>
FFS	Fluor Federal Services
IPT	In-Plant-Training
JPM	Job Performance Measure
<del>LMHC</del>	<del>Lockheed Martin Hanford Corporation</del>
LOW	Liquid Observation Wells
OE	Operations Engineer
OJT	On-The-Job Training
PIC	Person-In-Charge
RCRA	Resource Conservation & Recovery Act
PPP	River Protection Project
SST	Single-Shell Tank
TMACS	Tank Monitoring and Control System
TSD	Treatment, Storage or Disposal Facility
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 River Protection Project (RPP) in the Hanford 200 East, 200 West and 600 Areas and the <90 Day Accumulation Area at 209E. Operating TSD Units managed by RPP are: the Double-Shell Tank (DST) System, 204-AR Waste Unloading Facility, Grout, and the Single-Shell Tank (SST) System.

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 RPP 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-0263-209E ~~HNF-IP-0263-ETF~~.

## 2.0 RESPONSIBILITIES

The manager of each RPP waste management unit has overall responsibility for all training at the RPP units under their control. However, no one individual is designated as training director for the dangerous waste training program. The position is shared among RPP 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 RPP Responsibilities. Each RPP 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 RPP Units
- Request and/or conduct training
- Submit training completion records to RPP Training Records.
- Identify training requirements to contractors working in or around RPP 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
- Maintain the RPP Training Records

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

- Consult with training organizations and RPP in the development and reevaluation of current training programs
- Assist RPP 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 Federal Services (FFS) and Waste Management Federal Services of Hanford, Inc. (WMH) Responsibilities.** FFS and WMH, whose personnel are classified as Hanford Facility Personnel, have the following responsibilities:

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

**3.0 IMPLEMENTATION OF TRAINING PROGRAM**

The RPP 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 RPP only under the supervision of a trained employee. RPP 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, as stated in the applicable program description for that job.

### **3.3 Evaluation of Training**

RPP management reevaluates RPP training program courses at least every two years to ensure that dangerous waste training requirements continue to be met. Revisions to the RPP 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 RPP dangerous waste management employees are stored at RPP 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 RPP waste management. Training record copies, summaries for support organization employees and former employees (date of last worked at RPP), 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 RPP 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	RPP 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 RPP unit personnel. Immediately evacuate incident area and reports incident to appropriate personnel.	RPP unit specific duties might include repair, replacement, calibration, modification, or any other similar activity on RPP unit systems. Work performed is either supervised by qualified RPP personnel or is adequately addressed through organized pre-job briefing before commencing work. Evacuate the RPP 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.	RPP 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 RPP 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 RPP 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 RPP 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 RPP 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 RPP 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 RPP 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 RPP 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 or equivalent electronic system(s).

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

		WORKERS REQUIRED												
		SAMPLING					WASTE TRUCK							
		ROUTINES	FIELD CREW	SALT WELL	204-AR	DRY WELL	ROUTINES	FIELD	GROUND CREW	PUSH	ROTARY	CASK TRUCK	SURV/INSPECT	CONTAINER DOCUMENT SYSTEM
TSD UNITS/ <90 DAY AREAS														
TANK WASTE OPERATIONS	X	X	X	X	X	X	X	X	X	X	X	X		
209E <90 DAY ACCUMULATION AREA												X	X	X

**5.3.1 TMACS Operators.** Responsibilities and duties include:

- Operate the TMACS Central Facility
- Review reports generated by the Tank Monitoring and Control System (TMACS)
- Inform supervisors of abnormal conditions in SSTs and DSTs reported by the 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-AY 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 RPP 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, RPP 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) RPP Environmental Compliance Officer
- (2) RPP Operations Shift Managers and Operations Engineers
- (3) RPP Operations Support Managers
- (4) RPP Qualified Person-In-Charge (PIC)
- (5) Solid Waste Project - Waste Operations Manager
- (6) Solid Waste Project - Waste Operations Person-In-Charge (PIC)
- (7) RPP Hazardous Material Specialist

The list of employees currently filling these positions is maintained by HNF-IP-0974 or equivalent electronic system(s).

##### 5.4.1 RPP Environmental Compliance Officer. Responsibilities of the Environmental Compliance Officer include the following:

- Provide support to RPP 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, RPP-PRO-455, RPP-PRO-459 ~~HNF-CM-7-5~~, Tank Farm S/RIDS and other compliance orders
- Ensure that RPP 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 RPP unit's environmental compliance status with all applicable environmental requirements
- Advise the RPP unit management of new environmental requirements and policies, the associated impacts, and recommended implementation mechanisms to ensure compliance.

**5.4.2 RPP Shift Operations Managers and Operations Engineers.**  
Responsibilities of the RPP Operations Shift Operations, Operations Engineers include the following:

- Supervise, coordinate, and direct the activities in the Tank Farms
- Ensure that RPP 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 RPP 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 RPP operating procedures as applicable
- Recognize abnormal conditions and take appropriate action
- Respond to abnormal and/or emergency conditions according to established procedures
- Notify RPP 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 RPP Operations Support Managers.** Line Management within the RPP Operations Organization provides support as applicable to ensure the safe, effective, efficient, and environmentally acceptable operation of RPP 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 RPP 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 RPP 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 Solid Waste 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 Solid Waste 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 RPP 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 CHG ~~LHHC~~ 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.

**5.4.8 Waste Management Project Generator Services.** Responsibilities and duties include:

- Provide technical guidance/direction to Tank Farm Operation and Solid Waste, Waste Operation in management and disposal of waste generated at Tank Farm facilities.
- Generates and maintain profile sheets for Tank Farms waste streams.
- Perform waste designation and characterization of waste container to ensure they meet the treatment, storage/disposal facilities and generates the required documentation.
- Generates and maintain chemical and radiological characterization plans.
- Coordinate and schedule shipments of containers from the storage pads to the TSD.
- Resolve any issues or discrepancies.
- Coordinates sampling and analysis of waste.
- Procure waste containers and packaging materials.
- Manage recyclable material generated at Tank Farms facilities
- Generates an annual waste forecast.
- Manage and maintain quality record generated during management of waste container generated at Tank Farm facilities.

**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 or equivalent electronic system(s). Note: Not required to have facility specific training if escorted when at facility location.

## 5.6 Waste Designator

Personnel who perform and/or complete waste designations at RPP waste management units are categorized as a Waste Designator. The list of employees currently filling this position is maintained by HNF-IP-0974 or equivalent electronic system(s).

## 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 RPP 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 RPP 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 RPP-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 RPP 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 RPP nuclear operators and shift operations managers are certified for assigned jobs through a performance-based training process.

The RPP support organizations employees are also required to complete identified RPP training applicable to their involvement with dangerous waste management. The RPP 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 RPP 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 RPP 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 Shift Operations 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 CHG LMHG 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 RPP.

The RPP 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.

RPP 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
- RPP 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 RPP 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 (Waste Handling, Segregation & Packaging course 350560 is equivalent) (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 Solid Waste 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 Shift Operations 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 RPP 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 RPP must complete the appropriate level of training determined by RPP 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 RPP Project Manager must verify the acceptability of off-site training as commensurate with subcontractor personnel's anticipated RPP job assignment and the training requirements listed in Table 4.

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

**Table 4. RPP Facility Dangerous Waste Training Matrix**

TRAINING CATEGORY	COURSE TITLE	FREQ	WORKER CATEGORY				
			ALL EMPLOYEES	GENERAL WORKER	ADVANCED GENERAL WORKER	GENERAL MANAGER	
WASTE MANAGEMENT ORIENTATION	HANFORD GENERAL EMPLOYEE TRAINING 000001 or VISITOR/VENDOR ORIENTATION 000090 <sup>a</sup>	(A)	X	X	X	X	X
RPP WASTE MANAGEMENT ORIENTATION	TANK FARMS FACILITY ORIENTATION 350710 <sup>b</sup>	(A)	X <sup>c</sup>	X	X	X	X
WASTE MANAGEMENT AWARENESS	WASTE MANAGEMENT AWARENESS 02006G	One Time		X <sup>d</sup>	X	X	X
RPP WASTE MANAGEMENT AWARENESS	FEHIC <sup>e</sup> 03E060	(A)		X <sup>f</sup>	X	X	X
WASTE MANAGEMENT ADVANCED	WASTE HANDLING SEGREGATION AND PACKAGING - 350560	(A)		X	X	X <sup>g</sup>	X
WASTE MANAGEMENT ADMINISTRATION	CONTAINER WASTE MANAGEMENT - INITIAL 035100 <sup>h</sup>	(A)			X <sup>h</sup>	X <sup>10</sup>	
	CONTAINER WASTE MANAGEMENT - REFRESHER 035110						
	WASTE MANAGEMENT ADMINISTRATIVE - INITIAL 035120 <sup>i</sup>	(A)				X <sup>10</sup>	
	WASTE MANAGEMENT ADMINISTRATIVE - REFRESHER 035130						X
	FACILITY WASTE SAMPLING AND ANALYSIS - 035620	One Time				X	
	WASTE DESIGNATION 035010	One Time				X <sup>10</sup>	X
	WASTE DESIGNATION QUALIFICATION 035012	(A)					X
	HAZARDOUS WASTE SHIPPER QUALIFICATION 020159	(C)					X
JOB SPECIFIC TRAINING	QUALIFICATIONS OR OTHER TRAINING	(A) or (B)			X <sup>11</sup>	X <sup>11</sup>	

(A) ANNUALLY  
(B) REPEATED EVERY 2 YEARS  
(C) REPEATED EVERY 3 YEARS

<sup>a</sup> FOR TEMPORARY ACCESS AS AN ESCORTED OBSERVER  
<sup>b</sup> PREVIOUSLY SATISFIED BY TANK FARM ORIENTATION,  
DODDSES, DODDSES, DODDSES, DODDSES, DODDSES,  
<sup>c</sup> REQUIRED ONLY FOR HAZARDOUS WASTE OPERATORS

<sup>d</sup> CAN BE WAIVED IF ESCORTED BY A QUALIFIED RPP EMPLOYEE  
<sup>e</sup> SUBCONTRACTORS MAY PROVIDE EQUIVALENT TRAINING

<sup>f</sup> FEHIC - BUILDING EMERGENCY PLAN REVIEW FOR TANK FARMS  
USING FACILITY EMERGENCY AND HAZARD INFORMATION CHECKLIST

<sup>g</sup> MAY BE SATISFIED BY PRE-JOB SAFETY BRIEF  
<sup>h</sup> PREVIOUSLY SATISFIED BY HAZARDOUS WASTE GENERATING ACTIVITIES  
<sup>i</sup> REQUIRED ONLY FOR SOLID WASTE OPERATORS

<sup>j</sup> AS DETERMINED BY TSD UNIT MANAGEMENT

NOTE: NOT REQUIRED to have facility specific training if escorted when at Facility location.

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

TRACs	MITIGATION PUMP	AGING WASTE	204-AR	DRY WELL	ROUTINES	FIELD CREW	SALT WELL	CONT. INSP.	WASTE RETR.	SAMPLING				TRAINING COURSES				SOLID WASTE PROJECT - WASTE OPERATIONS			
										CPO ROUTINES	FIELD ROUTINES	GROUND CREW	PUSH	ROTARY	CASK TRUCK	CONTAINER WASTE	WASTE TRUCK	CASK TRUCK	CONTAINER REPACK	SURVEILLANCE/INSPECT	CONTAINER DOCUMENT
NUCLEAR OPERATORS	350200 or 350202 (B)	350100 or 350102 (B)	350040 or 350042 (B)	350030 or 350032 (B)	350041 or 350042 (B)	350043 or 350042 (B)	350041 or 350042 (B)	350040 or 350042 (B)	350040 or 350042 (B)	350077 or 350079 (B)	351479 or 351482 (B)	350077 or 350079 (B)	350070 or 350073 (B)	350010 or 350012 (B)	350165 or 350162 (B)	350166 or 350163 (B)	350170 or 350164 (B)	350170 or 350164 (B)			
NUCLEAR CHEMICAL OPERATORS										350031 (C)	350031 (C)	350031 (C)	350031 (C)	350020 or 350022 (B)	350010 or 350012 (B)	350010 or 350012 (B)	350010 or 350012 (B)	350010 or 350012 (B)			
TMACS	X/C					X/C															
MITIGATION PUMP	X/C					X/C															
AGING WASTE		X/C				X/C															
204-AR			X/C			X/C															
DRYWELL				X/C		X/C															
ROUTINES					X/C																
FIELD CREW					X/C																
SALTWELL					X/C																
WASTE RETRIEVAL										X/C											
CPO ROUTINES											X/C										
FIELD SAMPLING											X/C										
GROUND CREW												X/C									
PUSH MODE SAMPLING												X/C									
ROTARY MODE SAMPLING													X/C								
CASK TRUCK													X/C								
WASTE TRUCK														X/C							
SAMPLE/REPACK														X/C							
SURVEILLANCE/INSPECT														X/C							
CONTAINER DOCUMENT															X/C						
CONTAINER INSPECTION																X/C					

SEE HNF-IP-0974 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

<sup>1</sup> PREVIOUSLY SATISFIED BY HAZARDOUS WASTE SHIPMENT  
SHIPMENT CERTIFICATION 020065

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

TRAINING COURSES					
SOLID WASTE PROJECT - WASTE OPERATIONS TEAM LEADER/MANAGER		OPERATIONS ENGINEER		PERSON-IN-CHARGE (PIC)	
035100 <sup>1</sup> or 035110 (A) CONT. W.M.	035120 <sup>1</sup> or 035130 (A) W.M. ADMIN.	035010 WASTE DESIGN.	350086 Solid Waste Classroom	350145 <sup>2</sup> or 350147 (B) <sup>3</sup> OE	020288 or 037510 (A) BED
GENERAL MANAGERS					
ENVIRONMENTAL COMPLIANCE OFFICER					
SHIFT MANAGER/OPERATIONS ENGINEER				X/C	X/C <sup>4</sup>
OPERATIONS SUPPORT MANAGER					X/C
PERSON IN CHARGE					
SOLID WASTE OPERATIONS MANAGER	X/C	X/C	X		
SOLID WASTE OPERATIONS PERSON-IN-CHARGE	X/C	X/C	X	X	
HAZARDOUS MATERIAL SPECIALIST	X/C	X/C	X		

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

<sup>1</sup> PREVIOUSLY SATISFIED BY HAZARDOUS WASTE  
SHIPMENT CERTIFICATION 02006S  
<sup>2</sup> PREVIOUSLY SATISFIED BY TANK FARM SUPERVISOR/  
MANAGER CERTIFICATION 350110

<sup>3</sup> MAY BE SATISFIED BY 350137  
<sup>5</sup> 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 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 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	RPP Operations Engineer Qualification
350165	Solid Waste Project - Waste Operations Sampling and Repacking Operations - Initial Qualification
350166	Solid Waste Project - Waste Operations Surveillance and Inspection - Initial Qualification
350167	Solid Waste Project - Waste Operations Container Document System Dispatch - Initial Qualification
350180	Tank Farms Mitigation Pump Operations - Initial Qualification
350200	TMACS Operations - Initial Qualification
350240	Container Inspection - Classroom
350241	Container Inspection - Initial Qualification
350510	Tank Farms Person-In-Charge (PIC) Qualification - Initial & Refresher
350560	Waste Handling Segregation and Packaging - Initial
350561	Waste Handling Segregation and Packaging - Refresher
350680	RPP 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 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	RPP Operations Engineer Requalification
350162	Solid Waste Project - Waste Operations Sampling and Repacking Operations - Requalification
350163	Solid Waste Project - Waste Operations Surveillance and Inspection - Requalification
350164	Solid Waste Project - Waste Operations Container Document System Operations - Requalification
350182	Tank Farms Mitigation Pump Operations - Requalification
350202	TMACS Operations - Requalification
350242	Container Inspection - Requalification
350688	RPP 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
02006S	Hazardous Waste Shipment Certification
350110	Tank Farm Supervisor/Manager Certification
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
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**Appendix A-1 Dangerous Waste Operations Training Courses**

<b>Title</b>	000001 Hanford General Employee Training (HGET)
<b>Description</b>	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.
<b>Mandating Document(s)</b>	Hanford Facility RCRA Permit, General Conditions II.C
<b>Target audience</b>	All Hanford Facility personnel working on the Hanford Facility more than one year.
<b>Delivery</b>	Computer-based training with interactive video
<b>Evaluation</b>	Computer generated questions
<b>Length</b>	Average = 2 to 4 Hours
<b>Frequency</b>	Annually by 000001

<b>Title</b>	000090 Visitor/Vendor Orientation (Video or Brochure)
<b>Description</b>	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.
<b>Mandating Document(s)</b>	Hanford Facility RCRA Permit, General Conditions II.C
<b>Target audience</b>	Visitors on site >7 days, including regulatory agency personnel. CHG LMHG subcontractors working on the Hanford Facility <45 days.
<b>Delivery</b>	Video Tape or Brochure
<b>Evaluation</b>	Not Applicable
<b>Length</b>	30 Minutes
<b>Frequency</b>	Annually by 000090

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

<b>Title</b>	02006G Waste Management Awareness
<b>Description</b>	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.
<b>Mandating Document(s)</b>	DOE-RL letter to Ecology responding to Consent Order NO. DE 94NM-063 Hanford Facility RCRA Permit, General Conditions II.C.4
<b>Target audience</b>	General worker, advanced general worker, general manager, and general shipper
<b>Delivery</b>	Classroom
<b>Evaluation</b>	Written examination - 80% passing grade
<b>Length</b>	4 Hours
<b>Frequency</b>	One Time

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

<b>Title</b>	020159 Hazardous Waste Shipper Qualification - Advanced Course 2
<b>Description</b>	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.
<b>Mandating Document(s)</b>	WAC 173-303-330(1), -180, -190, and -370. Hanford Facility RCRA Permit, General Condition II.Q.
<b>Target Audience</b>	General Shippers of dangerous or mixed waste on roadways anywhere on the Hanford Facility.
<b>Delivery</b>	Classroom
<b>Evaluation</b>	Written examination - 80% passing grade
<b>Length</b>	24 Hours
<b>Frequency</b>	Every 3 years by 020159

<b>Title</b>	035010 Waste Designation
<b>Description</b>	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.
<b>Mandating Document(s)</b>	WAC 173-303-070, and -080 through -100
<b>Target Audience</b>	General Shippers, General Manager (Solid Waste Project - Waste Operators Only), Waste Designator
<b>Delivery</b>	Classroom
<b>Evaluation</b>	Written Exam - 80% passing grade
<b>Length</b>	16 Hours
<b>Frequency</b>	One Time

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

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

<b>Title</b>	035020 Facility Waste Sampling and Analysis
<b>Description</b>	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.
<b>Mandating Document(s)</b>	WAC-173-303-330(1), -070, -110, and -300
<b>Target audience</b>	General Shippers
<b>Delivery</b>	Classroom presentation, exercises, demonstration and discussion
<b>Evaluation</b>	Written Examination - 80% passing grade
<b>Length</b>	16 Hours
<b>Frequency</b>	One Time

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

<b>Title</b>	035100 Container Waste Management - Initial
<b>Description</b>	<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 CHG LMMG 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>
<b>Mandating Document(s)</b>	WAC 173-303-330(1), -630, -200(1) and Waste Minimization
<b>Target Audience</b>	Advanced General Workers/General Managers Services / Shippers
<b>Delivery</b>	Classroom
<b>Evaluation</b>	Written Examination - 80% passing grade
<b>Length</b>	16 Hours
<b>Frequency</b>	Annually by 035110

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

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

<b>Title</b>	035120 Waste Management Administrative - Initial
<b>Description</b>	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.
<b>Mandating Document(s)</b>	WAC 173-303-330(1), -630, -200, -210, -220, -380, and -390.
<b>Target Audience</b>	General Managers (Solid Waste Project - Waste Operations Managers Only)/Waste Designator
<b>Delivery</b>	Classroom
<b>Evaluation</b>	Written Examination - 80% passing grade
<b>Length</b>	8 Hours
<b>Frequency</b>	Annually by 035130

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

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

<b>Title</b>	03E060 Facility Emergency and Hazard Information Checklist Training (Building Emergency Plan Review for HNF-IP-0263-TANKFARMS)
<b>Description</b>	Course consists of a review of specific chemical hazards associated with each RCRA waste management unit and job assignment, as covered by a Building Emergency Plan or a supplemental Contingency Plan. The training is completed by CBT or by the supervisor, manager, or a designated individual using checklist A-6000-784. The unit/building-specific information is reviewed for hazards in the work area and emergency response requirements, including where applicable, waste feed cut-off, communication and alarm systems, and response to fires.
<b>Mandating Document(s)</b>	WAC 173-303-330(1)(d), -340, -350, and -630.
<b>Target audience</b>	General Worker, General Supervisor/Manager, and General Shipper
<b>Delivery</b>	One-on-one or as a group with supervisor, manager or designated individual
<b>Evaluation</b>	Training checklist documentation
<b>Length</b>	Average = 1 Hour
<b>Frequency</b>	Annually by 03E060

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

<b>Title</b>	350560 Waste Handling Segregation and Packaging - Initial (Refresher 350561)
<b>Description</b>	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.
<b>Mandating Document(s)</b>	WAC 173-303-330(1)(d), -200, -300, and waste minimization.
<b>Target Audience</b>	General Workers/Advanced General Workers/General Managers/General Shippers
<b>Delivery</b>	Classroom
<b>Evaluation</b>	Written Examination - 70% passing grade
<b>Length</b>	4 Hours
<b>Frequency</b>	Annually by 350561

<b>Title</b>	350710 Tank Farms Facility Orientation
<b>Description</b>	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.
<b>Mandating Document(s)</b>	WAC-173-303-330(1), -340, -350, and -360
<b>Target audience</b>	All Personnel entering RPP TSD Units
<b>Delivery</b>	Classroom
<b>Evaluation</b>	Written examination - 70% passing grade
<b>Length</b>	3 Hours
<b>Frequency</b>	Annually by 350760 (Computer-Based Training)

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

<b>Title</b>	350760 Tank Farms Facility Re-Orientation
<b>Description</b>	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.
<b>Mandating Document(s)</b>	WAC-173-303-330(1), -340, -350, and -360
<b>Target audience</b>	All Personnel entering RPP TSD Units
<b>Delivery</b>	Computer-based Training
<b>Evaluation</b>	Not applicable
<b>Length</b>	1/2 Hour
<b>Frequency</b>	Annually with 000001

## Appendix A-2 Job-Specific Training Courses

<b>Title</b>	02028B Building Emergency Director Training
<b>Description</b>	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.
<b>Mandating Document(s)</b>	WAC-173-303-330(1), -340, -350, and -360
<b>Target audience</b>	Shift Operations Managers/Operations Engineers (Designated Building Emergency Directors)/Operations Managers
<b>Delivery</b>	At the BED office
<b>Evaluation</b>	Performance Evaluation
<b>Length</b>	3.5 Hours
<b>Frequency</b>	Annually by 037510

<b>Title</b>	037500 Building Emergency Director/Building Warden Requalification
<b>Description</b>	Refresher for Building Emergency Director Training
<b>Mandating Document(s)</b>	WAC-173-303-330(1), -340, -350, and -360
<b>Target audience</b>	Operations Shift Managers/Operations Engineers (Designated Building Emergency Directors)/Operations Managers
<b>Delivery</b>	Classroom
<b>Evaluation</b>	Not Applicable
<b>Length</b>	1.5 Hours
<b>Frequency</b>	Annually by 037510

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

<b>Title</b>	350010 Solid Waste Project - Waste Operations Truck Operations - Initial Qualification (Requalification 350012)
<b>Description</b>	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.
<b>Mandating Document(s)</b>	WAC-173-303-330, -400 or -600
<b>Target audience</b>	Nuclear Chemical Operators
<b>Delivery</b>	Classroom, On-The-Job Training
<b>Evaluation</b>	Written Examination - 70% passing grade, Performance Demonstration
<b>Length</b>	Approximately 20 Hours
<b>Frequency</b>	Every 2 years by 350012

<b>Title</b>	350020 Cask/Sample Transport Truck Operations - Initial Qualification (Requalification 350022)
<b>Description</b>	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.
<b>Mandating Document(s)</b>	WAC-173-303-330, -400 or -600
<b>Target audience</b>	Nuclear Chemical Operators
<b>Delivery</b>	Classroom, On-the-Job Training
<b>Evaluation</b>	Written Examination - 70% passing grade, Performance Demonstration
<b>Length</b>	Approximately 40 Hours
<b>Frequency</b>	Every 2 years by 350022

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

<b>Title</b>	350030 Tank Farms Routine Operations - Initial Qualification (Requalification 350032)
<b>Description</b>	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 RPP 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.
<b>Mandating Document(s)</b>	WAC-173-303-330, -400 or -600
<b>Target audience</b>	Nuclear Chemical Operators
<b>Delivery</b>	Classroom, On-The-Job Training
<b>Evaluation</b>	Written Examination - 70% passing grade, Performance Demonstration
<b>Length</b>	Approximately 160 hrs
<b>Frequency</b>	Every 2 Years by 350032

<b>Title</b>	350031 Tank Farms Routines Classroom
<b>Description</b>	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.
<b>Mandating Document(s)</b>	WAC-173-303-330, -400 or -600
<b>Target audience</b>	Nuclear Chemical Operators
<b>Delivery</b>	Classroom
<b>Evaluation</b>	Written Examination - 70% passing grade
<b>Length</b>	Approximately 160 hrs
<b>Frequency</b>	Initial Training

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

<b>Title</b>	350035 Characterization Project Routine Operations - Initial Qualification (Requalification 350036)
<b>Description</b>	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.
<b>Mandating Document(s)</b>	WAC-173-303-330, -400 or -600
<b>Target audience</b>	Nuclear Chemical Operators
<b>Delivery</b>	Classroom, On-The-Job Training
<b>Evaluation</b>	Written Examination - 70% passing grade, Performance Demonstration
<b>Length</b>	Approximately 40 Hours
<b>Frequency</b>	Every 2 Years by 350036

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

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

<b>Title</b>	350040 Tank Farms Aging Waste Operations - Initial Qualification (Requalification 350042)
<b>Description</b>	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 RPP 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.
<b>Mandating Document(s)</b>	WAC-173-303-330, -400 or -600
<b>Target audience</b>	Nuclear Chemical Operators
<b>Delivery</b>	Classroom, On-The-Job Training
<b>Evaluation</b>	Written Examination - 70% passing grade, Performance Demonstration
<b>Length</b>	Approximately 40 hrs
<b>Frequency</b>	Every 2 Years by 350042

<b>Title</b>	350060 Tank Farms Field Crew - Initial Qualification (Requalification 350062)
<b>Description</b>	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.
<b>Mandating Document(s)</b>	WAC-173-303-330, -400 or -600
<b>Target audience</b>	Nuclear Chemical Operators
<b>Delivery</b>	Classroom, On-The-Job Training
<b>Evaluation</b>	Written Examination - 70% passing grade, Performance Demonstration
<b>Length</b>	Approximately 60 Hours
<b>Frequency</b>	Every 2 Years by 350062

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

<b>Title</b>	350066 Solid Waste Project - Waste Operations Operations Classroom
<b>Description</b>	Course covers the requirements to operate RPP <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.
<b>Mandating Document(s)</b>	WAC-173-303-330, -400 or -600
<b>Target audience</b>	Solid Waste Project, Advanced General Workers
<b>Delivery</b>	Classroom
<b>Evaluation</b>	Written Examination - 70% passing grade for nuclear operators, 80% for Solid Waste Project - Waste Operations Team Leaders
<b>Length</b>	Approximately 8 Hours
<b>Frequency</b>	One Time

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

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

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

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

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

<b>Title</b>	350080 Tank Farms Saltwell Systems Operations - Initial Qualification (Requalification 350082)
<b>Description</b>	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.
<b>Mandating Document(s)</b>	WAC-173-303-330, -400 or -600
<b>Target audience</b>	Nuclear Chemical Operators
<b>Delivery</b>	Classroom, On-The-Job Training
<b>Evaluation</b>	Written Examination - 70% passing grade, Performance Demonstration
<b>Length</b>	Approximately 24 Hours
<b>Frequency</b>	Every 2 Years by 350082

<b>Title</b>	350090 Tank Farms Drywell/Low Van Operations - Initial Qualification (Requalification 350092)
<b>Description</b>	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.
<b>Mandating Document(s)</b>	WAC-173-303-330, -400 or -600
<b>Target audience</b>	Nuclear Chemical Operators
<b>Delivery</b>	Classroom, On-The-Job Training
<b>Evaluation</b>	Written Examination - 70% passing grade, Performance Demonstration
<b>Length</b>	Approximately 24 Hours
<b>Frequency</b>	Every 2 Years by 350092

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

<b>Title</b>	350100 204-AR Operations - Initial Qualification (Requalification 350102)
<b>Description</b>	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.
<b>Mandating Document(s)</b>	WAC-173-303-330, -400 or -600
<b>Target audience</b>	Nuclear Chemical Operators
<b>Delivery</b>	Classroom, On-The-Job Training
<b>Evaluation</b>	Written Examination - 70% passing grade, Performance Demonstration
<b>Length</b>	Approximately 40 Hours
<b>Frequency</b>	Every 2 Years by 350102

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

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

<b>Title</b>	350165 Solid Waste Project - Waste Operations Sampling and Repacking Operations - Initial Qualification (Requalification 350162)
<b>Description</b>	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 Solid Waste Project - Waste Operations Sampling and Repacking Operations Classroom and on-the-job training checklist.
<b>Mandating Document(s)</b>	WAC-173-303-330, -400 or -600
<b>Target audience</b>	Nuclear Chemical Operators
<b>Delivery</b>	Classroom, On-The-Job Training
<b>Evaluation</b>	Written Examination - 70% passing grade, Performance Demonstration
<b>Length</b>	Approximately 40 Hours
<b>Frequency</b>	Every 2 years by 350162

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

Title	350166 Solid Waste Project - Waste Operations Surveillance and Inspection - Initial Qualification (Requalification 350163)
Description	Operator qualification course that covers the requirements to operate RPP <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 Solid Waste Project - Waste Operations 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

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

<b>Title</b>	350180 Tank Farms Mitigation Pump Operations - Initial Qualification (Requalification 350182)
<b>Description</b>	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.
<b>Mandating Document(s)</b>	WAC-173-303-330, -400 or -600
<b>Target audience</b>	Nuclear Chemical Operators
<b>Delivery</b>	Classroom, On-The-Job Training, Performance Demonstration
<b>Evaluation</b>	Written Examination - 70% passing grade, Performance Demonstration
<b>Length</b>	Approximately 40 Hours
<b>Frequency</b>	Every 2 Years by 350182

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

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

<b>Title</b>	350241 Container Inspection - Initial Qualification (Classroom - 350240, Requalification 350242)
<b>Description</b>	Operator qualification that teaches the procedures for safe inspection of containers of Mixed, Low-Level, Dangerous/Hazardous, Nonregulated and Recycle wastes. This qualification also teaches the methods of safe inspection of Radioactive Material Storage Areas.
<b>Mandating Document(s)</b>	WAC-173-303-630 (Waste Container Inspection) HNF-IP-0842, VII, 2.10 (Radioactive Material Storage Area Inspection)
<b>Target audience</b>	Nuclear Chemical Operators
<b>Delivery</b>	Classroom, On-The-Job Training
<b>Evaluation</b>	Written Examination - 70% passing grade, Followed by a Performance Demonstration
<b>Length</b>	Classroom 4 Hours
<b>Frequency</b>	Every 2 Years by 350242

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

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

Title	350680 RPP Waste Retrieval Qualification - Initial (Requalification 350688)
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 350688

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

Title	351479 Field Sampling - Initial Qualification (Requalification 351482)
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