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7. Abstract
This Supporting Document contains the training plan for dangerous waste management at Tank Farms TSD Units.

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Tank Farms Dangerous Waste Training Plan

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List of Acronyms

1		
2		
3		
4	BED	Building Emergency Director
5	CASS	Computer Automated Surveillance System Operators
6	CFR	Code of Federal Regulations
7	DST	Double-Shell Tank
8	ECO	Environmental Compliance Officer
9	Ecology	State of Washington Department of Ecology
10	EPA	Environmental Protection Agency
11	EWO	Environmental Waste Operations
12	JPM	Job Performance Measure
13	LERF	Liquid Effluent Retention Facility
14	OJT	On-the-Job Training
15	SST	Single-Shell Tank
16	TMACS	Tank Monitoring and Control System of CASS
17	TRI	Training Records Information System
18	TSD	Treatment, Storage or Disposal Facility
19	TWRS	Tank Waste Remediation Systems
20	WAC	Washington Administrative Code
21	WHC	Westinghouse Hanford Company
22		

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1 1.0 PURPOSE
2

3 This document outlines the dangerous waste training program developed and
4 being implemented for all Treatment, Storage, and Disposal (TSD) Units
5 operated by Westinghouse Hanford Company (WHC) Waste Tank Operations at the
6 Hanford 200 East and 200 West Area Tank Farms. Operating TSD Units located at
7 the Tank Farms are: Double-Shell Tank (DST) System (including 204-AR Waste
8 Transfer Building), 242-A Evaporator, Liquid Effluent Retention Facility
9 (LERF), 600 Area Purgewater Storage and Treatment Facility. TSD Units
10 undergoing closure are: Single-Shell Tank (SST) System, 207-A South Retention
11 Basin, 216-A-29 Ditch, 216-A-36-B Crib, 216-A-37-1 Crib, 216-B-3 Pond System,
12 216-B-63 Trench, 216-U-12 Crib, 216-S-10 Ditch.
13

14 The program is designed in compliance with the requirements of Washington
15 Administrative Code (WAC) 173-303-330 and Title 40 Code of Federal Regulations
16 (CFR) 265.16 for the development of a written dangerous waste training
17 program. Training requirements were determined by an assessment of employee
18 duties and responsibilities.
19

20 The Tank Farms training program is designed to prepare employees to
21 operate and maintain the Tank Farms in a safe, effective, efficient, and
22 environmentally sound manner. In addition to preparing employees to operate
23 and maintain the Tank Farms under normal conditions, the training program
24 ensures that employees are prepared to respond in a prompt and effective
25 manner should off-normal or emergency conditions occur. Emergency response
26 training is consistent with emergency responses outlined in the Building
27 Emergency Plans WHC-IP-0263-TF, WHC-IP-0263-242A, WHC-IP-0263-LERF, and WHC-
28 IP-0263-209E.
29

30 2.0 RESPONSIBILITIES
31

32 WHC Tank Farms management is responsible for all training at Tank Farms.
33 The Tank Farms management, in cooperation with Tank Waste Remediation System
34 (TWRS) Training, Environmental Training, and support organizations, develops
35 and administers the comprehensive training program for employees assigned to,
36 or working at, the Tank Farms.
37

38 General responsibilities for training are discussed in the following
39 sections.
40

41 2.1 Tank Farms Management. The Tank Farms management has the following
42 responsibilities related to training:
43

- 44 ● Determine training requirements and training compliance for all
45 persons entering the Tank Farms TSD Units/Buildings
- 46 ● Request and/or conduct training
- 47 ● Ensure that the training meets operational needs
- 48 ● Submit training completion records to the training records information
49 system
- 50 ● Track retraining requirements for Tank Farm employees
- 51
- 52
- 53
- 54

- 1 ● Ensure assigned employees complete required training
2
3 ● Provide training requirements to sub-contractors.
4
5 2.2 Tank Waste Remediation System (TWRS) Training. TWRS Training has
6 the following responsibilities:
7
8 ● Conduct job analysis
9
10 ● Design training programs
11
12 ● Develop training programs
13
14 ● Develop training courses
15
16 ● Develop examinations
17
18 ● Administer examinations
19
20 ● Develop and provide certification training
21
22 ● Develop and implement environmental training courses to comply with
23 U.S. Department of Energy directives and Federal and State dangerous
24 waste regulations
25
26 ● Conduct hazardous material and dangerous waste handling and management
27 courses
28
29 ● Develop job-specific training courses for the Tank Farms employees
30
31 ● Develop and maintain on-the-job training requirements
32
33 ● Develop on-the-job training
34
35 ● Provide instruction for selected courses.
36
37 2.3 Environmental Training. Environmental Training has the following
38 responsibilities:
39
40 ● Develop and implement environmental training courses to comply with
41 U.S. Department of Energy directives and Federal and State dangerous
42 waste regulations
43
44 ● Conduct respiratory protection classes
45
46 ● Conduct hazardous material and dangerous waste handling and management
47 courses
48
49 ● Develop examinations
50
51 ● Administer examinations.
52
53 2.4 Support Organizations. Support organizations management has the
54 following responsibilities related to training:

- 1 • Consult with training organizations and the Tank Farms management in
2 the development and reevaluation of training programs
- 3
- 4 • Determine training requirements and training compliance for employees
- 5
- 6 • Maintain current knowledge of training requirements for employees
- 7
- 8 • Request and/or conduct training for employees
- 9
- 10 • Provide training for selected courses for employees
- 11
- 12 • Submit training completion records to training records information
13 system as applicable
- 14
- 15 • Ensure assigned employees complete required training
- 16
- 17 • Track retraining requirements as required.
- 18

19 3.0 IMPLEMENTATION OF TRAINING PROGRAM

20
21 The Tank Farms Dangerous Waste training program is being implemented.
22 Incumbent personnel will complete those portions of the training curriculum
23 which they have not previously completed within six months. Training of new
24 employees is completed within the first 6 months of assignment. Training for
25 personnel assigned to new positions is completed within six months of
26 reassignment. Nuclear operators who have not completed certification are
27 permitted to work at the Tank Farms only under the supervision of a certified
28 operator. All other training requirements for all personnel must be met
29 before working in the Tank Farms. The Tank Farms operations management is
30 responsible for ensuring that all personnel are trained and that required
31 certifications are maintained.

32 33 3.1 Identification of Training

34
35 The required training is specified by the employee's specific job duties
36 as determined by a management assessment or job analysis. The required
37 training identified in Tables 3, 4, and 5 is based on worker categories and
38 job titles described in Sections 4.0 and 5.0.

39 40 3.2 Conduct of Training

41
42 Training is provided through classroom instruction, On-the-Job
43 Training (OJT), and Computer-based training. Training is instructed and/or
44 developed by personnel knowledgeable in dangerous waste management procedures.

45
46 Following initial training, employees are required to review training
47 annually. Employees requiring certification are required to recertify
48 annually or biennially, as applicable.

49 50 3.3 Evaluation of Training

51
52 The Tank Farms management reevaluates the Tank Farms training program
53 courses at least every two years to ensure that dangerous waste training
54 requirements continue to be met. Revisions to the Tank Farms training program

1 are based on facility or system modifications, procedure changes, DOE Orders,
2 Federal and State regulatory requirements, industry operating experience and
3 personnel performance evaluations.

4 5 3.4 Documentation of Training

6
7 Training record files for the Tank Farms dangerous waste management
8 employees are stored in a computer database, the Training Records Information
9 (TRI) system. The TRI System is managed by the Training Records organization.
10 Data from completed original training records are entered into a tracking
11 database, which is accessible on a local area network to allow field access of
12 employee training record summaries by computer terminal. A tickler file is
13 available from the database to inform Tank Farms Operations management when an
14 employee's training is within 90 days of expiration. A computerized copy of
15 completed training, qualifications, or certifications for the Tank Farms
16 management employees is available at the Tank Farms. Training record
17 summaries for support organization employees are stored in the TRI System
18 also. Training records for former employees are kept on the TRI System for
19 three years from the date the employee last worked at the Tank Farms.
20 Original signed and dated training records are maintained by the Training
21 Records Department in Richland, Washington. They are transferred quarterly to
22 the Records Holding Facility in Richland, Washington. After approximately one
23 year, the original training records are archived at the Federal Records Center
24 in Seattle, Washington.

25 26 4.0 DANGEROUS WASTE WORKER CATEGORIES

27
28 Employee duties at Tank Farms have been categorized within five worker
29 categories. In the event personnel duties and responsibilities overlap
30 between categories, the employee will complete the training requirements for
31 each category. The determining factor for placing a specific worker within
32 any of the worker categories is the corresponding job duties of the worker.
33 The five worker categories are:

- 34
35 1. All Employees
36 2. General Worker
37 3. Advanced General Worker
38 4. General Manager
39 5. General Shipper
40

41 The duties corresponding to these categories are divided between
42 "generator" and "TSD Unit-specific" job duties, each requiring varying degrees
43 of dangerous waste management training. The level of training is determined
44 by the duties associated with each worker category. The description of job
45 duties for each category can be matched to individual Job Titles or Job
46 Positions commonly employed at the Hanford Facility. A general description of
47 the duties associated with each worker category is contained in Table 1. A
48 general description of dangerous waste training is contained in Table 2.
49 Table 3 shows which programs are applicable for each worker category.
50

TABLE 1. WORKER CATEGORIES

WORKER CATEGORIES	GENERATOR JOB DUTIES	TSD UNIT-SPECIFIC JOB DUTIES
ALL EMPLOYEES	Does not generate dangerous waste or manage any dangerous waste activities. Contingency plan duties are to evacuate incident area and report incident to appropriate personnel.	May enter or be assigned to the facility but does not actively engage in the operation of the facility. Contingency plan duties are to evacuate TSD unit during emergencies and notify appropriate personnel.
GENERAL WORKER	Generates dangerous waste and places into pre-approved containers. Work performed is either supervised by facility personnel with in-depth knowledge of facility systems and components, or is adequately addressed through organized pre-job briefing. Contingency plan duties are to immediately evacuate incident area and report incident to appropriate personnel. These activities may take place in a permitted unit, but duties would not exceed those stated above.	TSD Unit-Specific duties may include repair, replacement, calibration, modification, or any other similar activity on TSD unit systems. Work performed is either supervised by facility personnel with in-depth knowledge of facility systems and components or is adequately addressed through organized pre-job briefing. Contingency plan duties are to evacuate TSD unit during emergencies and notify appropriate personnel.
ADVANCED GENERAL WORKER	Duties include the generation and management of dangerous waste. Selects, packages, seals and prepares for shipment containers of dangerous waste including proper marking and labeling of containers. Performs inspections of waste accumulation areas. Samples containers of dangerous waste and prepares samples for delivery to laboratory facilities. Contingency plan duties may include responding to small spills in accordance with procedures within plans.	TSD Unit-Specific duties include the control, operation, manipulation, sampling, transfer or recording of dangerous waste within tank or waste process systems. Other duties include annunciator response and other off-normal operational responses to maintain unit within operational parameters. Escort or direct General Workers in activities within permitted areas of the facility. Contingency plan duties may include implementation of emergency procedures and small spill responses.
GENERAL MANAGER	Manages, coordinates and directs general or advanced general workers in management of dangerous waste. Responsible for the accountability and directing of employees during dangerous waste emergency events. Must be trained to the same level as managed employees.	Manages, coordinates and directs general or advanced general workers in the operation and control of TSD unit dangerous waste systems. Other duties may include command responsibilities during emergency events requiring contingency plan enactment. Must be trained to an equivalent level as managed employees.
GENERAL SHIPPER	Duties include the preparation and shipment of dangerous waste containers in compliance with applicable requirements. Directs general and advanced workers in dangerous waste management and/or transportation activities. Authorized individual for signing waste manifests, hazardous materials shipment records, and other associated shipment paperwork.	Duties are the same as for generator activities.

TABLE 2. DOE-RL GENERATOR/TSD UNIT-SPECIFIC TRAINING PROGRAM DESCRIPTION

PROGRAMS	DESCRIPTIONS
Waste Management Orientation	Training at this level involves a basic introduction to dangerous waste management. Correct response to emergencies involving releases of materials to the environment is addressed. Training also includes a discussion of the "Hanford Facility" and permits for TSDs along with additional training requirements should employee dangerous waste management duties change.
Unit/Building Orientation	This level of training is only applicable to those individuals who will be escorted and will require access to a TSD unit/Building. Specific training for the Contingency Plans and/or Building Emergency Plans may be included in this orientation. These individuals would always be required to evacuate the facility during emergencies and thus be trained on the appropriate routes of egress.
Waste Management Awareness	The training at this level is commensurate with the duties of generating dangerous 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 Awareness	This level 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.
*Waste Management Advanced	The training at this level is for facility personnel required to properly select, package, and prepare for shipment containers of dangerous wastes. The training also addresses requirements pertaining to tank systems, as appropriate. Personnel who monitor and inspect tank systems receive additional job-specific training for operations, maintenance, and response to non-routine conditions. This is the most comprehensive container waste management training provided to personnel and covers the necessary information regarding documentation, reporting, record keeping, and other information pertaining to administrative functions of dangerous waste management.
Unit/Building Advanced	This level of training provides specific information required to operate, control and manage facility processes and dangerous waste management operations.
Waste Management Administration	Training at this level is for general shippers and those who must resolve problems and issues related to dangerous waste management. This training covers aspects of waste minimization, waste management, and record keeping for the Hanford Facility.
Unit Job/Facility Specifics	The training at this level is designed to provide additional Generator/TSD Unit-specific information for facility personnel to ensure the safe and efficient operation and maintenance of TSD unit processes and operations. Additionally, the training provides more detailed information for the response to emergencies and off-normal events which could occur within the unit.

1 5.0 JOB POSITIONS AND DESCRIPTIONS
2

3 Each employee is assigned a job title (from the salaried nonexempt or
4 bargaining unit classifications) or position (from the exempt
5 classifications). The job or position descriptions include requisite skills,
6 work experience, education, and other qualifications, and a brief list of
7 duties and/or responsibilities for each job title or position. The work
8 experience, education, and other qualifications required for each position are
9 maintained by Human Resources. As a minimum, all employees require a high
10 school diploma or equivalent. Personnel filling exempt, management or
11 engineering positions normally require a college degree with 2 or more years
12 of industry experience.
13

14 In the following sections, brief job titles and position descriptions of
15 employees associated with dangerous waste management at Tank Farms are listed
16 within the appropriate worker category.
17

18 5.1 All Employees
19

20 Employees included in this category have no duties or responsibilities
21 directly associated with dangerous waste. The types of personnel in this
22 category typically include:
23

- 24 ● Secretaries and Clerks
- 25 ● Visitors
- 26 ● Oversight Personnel.
- 27

28 5.2 General Worker
29

30 Facility or support personnel with limited dangerous waste management
31 duties, which include generation of waste or facility maintenance or
32 modification, are classified as General Workers. Job duties and
33 responsibilities for General Workers are inherent to their profession and not
34 to any particular facility. See Table 1 for a general description of job
35 duties for General Workers. Support organizations management and technical
36 support personnel assist Tank Farms management in the safe, effective,
37 efficient, and environmentally acceptable operation and maintenance of the
38 Tank Farms. Personnel who function as General Workers may include, but are
39 not limited to, the following:
40

- 41 ● Maintenance personnel
- 42 ● Health Physics technicians
- 43 ● Power operators
- 44 ● Contractor crafts
- 45 ● Truck drivers
- 46 ● Laboratory personnel

47 5.3 Advanced General Worker
48

49 Nuclear operators are classified as Advanced General Workers based on job
50 duties. They either generate and manage dangerous waste at a <90 day storage
51 facility or they operate the Tank Farms facility or systems. The list of
52 employees currently filling these positions is maintained by WHC-IP-0974. An
53 example is provided in Appendix B-1.

1 **5.3.1 Environmental Waste Operators (EWO). Responsibilities and**
2 **duties include:**

- 3
4 ● Perform 90-day accumulation area work activities in accordance with
5 current operating procedures
6
7 ● Escort supporting crafts and visitors entering the 90-day accumulation
8 area as required
9
10 ● Receive, segregate, sort, inventory, store, and stage dangerous waste
11
12 ● Package and label dangerous waste for shipment
13
14 ● Operate processes, systems, and equipment at the 90-day accumulation
15 area
16
17 ● Perform sampling as required by procedure
18
19 ● Conduct routine inspections
20
21 ● Provide surveillance of the 90-day accumulation area for off-normal
22 conditions
23
24 ● Assist truck drivers in loading and unloading trucks at the 90-day
25 accumulation area
26
27 ● Ensure that trucks transporting dangerous waste are placarded properly
28
29 ● Respond to alarms at the 90-day accumulation area
30
31 ● Respond to off-normal and/or emergency conditions according to
32 established procedures
33
34 ● Respond to dangerous waste leaks or spills
35
36 ● Ensure that vehicles transporting dangerous wastes are up to date on
37 maintenance schedules
38
39 ● Ensure that the waste has been properly secured in the transportation
40 vehicle.

41
42 **5.3.2 Routines Operators. Responsibilities and duties include:**

- 43
44 ● Perform Tank Farms work activities in accordance with current
45 operating procedures
46
47 ● Operate processes, systems, and equipment at the Tank Farms
48
49 ● Perform sampling as required by procedure
50
51 ● Conduct routine inspections
52
53 ● Provide surveillance of the Tank Farms for off-normal conditions
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- Respond to alarms at the Tank Farms
- Respond to off-normal and/or emergency conditions according to established procedures
- Respond to dangerous waste leaks or spills
- Conduct routine inspections
- Sample Waste Streams per approved procedures
- Escort supporting crafts and visitors entering the Tank Farms areas as required.

5.3.3 Field Crew Operators. Responsibilities and duties include:

- Perform Tank Farms 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 off-normal 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.

5.3.4 Computer Automated Surveillance System (CASS) Operators. Responsibilities and duties include:

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

5.3.5 Core Sampling Operators. Responsibilities and duties include:

- Perform Tank Farms work activities in accordance with current operating procedures

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- Respond to alarms at the Tank Farms
- Respond to off-normal and/or emergency conditions according to established procedures
- Respond to dangerous waste leaks or spills
- Operate 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
- Perform liquid and vapor sampling of SSTs and DSTs as required by procedure.

5.3.6 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 off-normal conditions
- Respond to alarms at the Aging Waste Facilities
- Respond to off-normal 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).

5.3.7 204-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 off-normal conditions
- Respond to alarms at the 204-AR Building
- Respond to off-normal and/or emergency conditions according to established procedures

- 1 ● Respond to dangerous waste leaks or spills
- 2
- 3 ● Transfer waste from tankers to DSTs
- 4
- 5 ● Transfer waste from rail cars to DSTs
- 6
- 7 ● Treat waste transferred to DSTs to maintain operating specifications.
- 8

9 5.3.8 Drywell Operators. Responsibilities and duties include:

- 10 ● Perform Drywell van Farms work activities in accordance with current
- 11 operating procedures
- 12
- 13 ● Operate the Drywell Van and support systems used to monitor Drywells
- 14 and Laterals.
- 15
- 16

17 5.3.9 Saltwell Operators. Responsibilities and duties include:

- 18 ● Install jet pumps and associated equipment into SSTs
- 19
- 20 ● Operate the jet pumps to transfer waste from SSTs to DSTs
- 21
- 22 ● Perform Saltwell work activities in accordance with current operating
- 23 procedures
- 24
- 25 ● Perform sampling as required by procedure
- 26
- 27 ● Conduct routine inspections of Saltwell systems
- 28
- 29
- 30 ● Respond to Saltwell alarms
- 31
- 32 ● Respond to off-normal and/or emergency conditions according to
- 33 established procedures
- 34
- 35 ● Respond to dangerous waste leaks or spills.
- 36

37 5.3.10 242-A Evaporator Operators. Responsibilities and duties

38 include:

- 39 ● Operate the 242-A Evaporator
- 40
- 41 ● Perform 242-A Evaporator work activities in accordance with current
- 42 operating procedures
- 43
- 44 ● Operate processes, systems, and equipment at the 242-A Evaporator
- 45
- 46 ● Perform sampling as required by procedure
- 47
- 48 ● Conduct routine inspections
- 49
- 50 ● Provide surveillance of the 242-A Evaporator for off-normal conditions
- 51
- 52 ● Respond to alarms at the 242-A Evaporator and Tank Farms
- 53
- 54

- 1 ● Respond to off-normal and/or emergency conditions in accordance with
2 established procedures.
3

4 **5.4 General Manager**
5

6 Personnel identified as General Managers manage, coordinate and direct
7 general or advanced general workers in the management of dangerous waste or in
8 the operation and control of the TSD unit. Other duties may include command
9 responsibilities during emergency events requiring contingency plan enactment.
10 The list of employees currently filling these positions is maintained by WHC-
11 IP-0974. Examples are provided in Appendix B-2 and B-3.
12

13 **5.4.1 Waste Tank Operations Manager.** Responsibilities of the Waste
14 Tank Operations manager include the following:
15

- 16 ● Operate and maintain the Tank Farms in compliance with U.S. Department
17 of Energy directives, applicable policies and procedures, and Federal
18 and State regulations
19
20 ● Comply with all dangerous waste policies, procedures, and regulations
21
22 ● Ensure that Tank Farms operating procedures are developed, reviewed,
23 approved, and revised as applicable
24
25 ● Respond to off-normal and/or emergency conditions in accordance with
26 established procedures.
27

28 **5.4.2 Tank Farms Environmental Compliance Officer.** Responsibilities
29 of the Tank Farms Environmental Compliance Officer include the
30 following:
31

- 32 ● Overview Tank Farms environmental issues
33
34 ● Assess dangerous waste handling problem areas and implement timely
35 actions
36
37 ● Advise Waste Tanks Operations Manager of environmental compliance
38 requirements and known deficiencies in meeting those requirements
39
40 ● Ensure adherence to the EPA and Ecology reporting requirements
41
42 ● Serve as the single point of contact for environmental and dangerous
43 waste related matters
44
45 ● Manage Tank Farms environmental and dangerous waste program corrective
46 actions status to achieve compliance with dangerous waste requirements
47
48 ● Coordinate the review and submittal of environmental data for the
49 following:
50 - Annual dangerous waste report
51 - Waste minimization report
52 - Waste volume projections (solid and liquid)
53 - *Superfund Amendments and Reauthorization Act (SARA) of 1986*
54 312 Inventory

- 1 - SARA 313 releases
- 2 - EPA surveys
- 3
- 4 ● Prepare and provide input for reporting the following:
- 5 - Spill information
- 6 - Interim status compliance
- 7 - Ecology and EPA reporting requirements
- 8
- 9 ● Ensure the development and review of new or revised permit
- 10 applications including the following:
- 11 - Part A notifications
- 12 - Part B permit applications
- 13 - Closure plan applications
- 14 - Clean air permit applications
- 15 - National Pollution Discharge Elimination System permit applications
- 16 and well registrations
- 17
- 18 ● Conduct periodic surveillances of compliance assessment with permits
- 19
- 20 ● Ensure the maintenance of active permits
- 21
- 22 ● Resolve regulatory interpretations required to operate Tank Farms
- 23 through interfacing with the applicable environmental organizations,
- 24 DOE-RL, Ecology, EPA, and Washington Department of Health
- 25
- 26 ● Prepare, issue, review, and approve dangerous waste handling
- 27 procedures as applicable
- 28
- 29 ● Determine and issue dangerous waste handling, packaging, and shipping
- 30 requirements as applicable
- 31
- 32 ● Assess dangerous waste handling problem areas and implement corrective
- 33 action
- 34
- 35 ● Approve dangerous waste container control as applicable
- 36
- 37 ● Ensure that a tracking system for dangerous waste is maintained.
- 38

39 **5.4.3 Tank Farms Operations Managers.** Responsibilities of the Tank
40 Farms Operations management include the following:

- 41
- 42 ● Supervise, coordinate, and direct the activities of Tank Farms shift
- 43 operations and operations support managers
- 44
- 45 ● Maintain control over Tank Farms operations in accordance with
- 46 established operating procedures and policies, U.S. Department of
- 47 Energy Orders, and Federal and State regulations
- 48
- 49 ● Direct, control, and coordinate the receipt, storage, transfer, and
- 50 reprocessing of dangerous waste
- 51
- 52 ● Ensure compliance with Tank Farms operating limits and specifications
- 53

- 1 ● Ensure that job safety and planning meetings are conducted, as
2 applicable, with personnel involved with the Tank Farms operations
- 3
- 4 ● Ensure that regulatory records are maintained
- 5
- 6 ● Develop, revise, and review Tank Farms operating procedures as
7 applicable
- 8
- 9 ● Respond to and provide remedial guidance and decisions for operational
10 anomalies, off-normal conditions, and equipment malfunctions
- 11
- 12 ● Respond to off-normal and/or emergency conditions in accordance with
13 established procedures
- 14
- 15 ● Coordinate the recovery from unplanned releases to the environment and
16 other emergency conditions.
- 17

18 **5.4.4 Tank Farms Shift Operations Managers.** Responsibilities of the
19 Tank Farms Shift Operations Managers include the following:

- 20 ● Supervise, coordinate, and direct the activities in the Tank Farms
- 21
- 22 ● Ensure that Tank Farms operations are conducted in accordance with
23 established operating procedures and policies, U.S. Department of
24 Energy Orders, and Federal and State regulations
- 25
- 26 ● Supervise and coordinate the receipt, storage, transfer, and
27 reprocessing of dangerous waste
- 28
- 29 ● Ensure compliance with Tank Farms operating limits and specifications
- 30
- 31 ● Conduct pre-job safety and planning meetings with personnel involved
32 with Tank Farms operations as applicable
- 33
- 34 ● Maintain operating records
- 35
- 36 ● Revise and review Tank Farms operating procedures as applicable
- 37
- 38 ● Recognize off-normal conditions and take appropriate action
- 39
- 40 ● Respond to off-normal and/or emergency conditions according to
41 established procedures
- 42
- 43 ● Notify Tank Farms management of any unplanned releases to the
44 environment
- 45
- 46 ● Serve as the building emergency director (BED), the staging area
47 manager or designated alternate BED, as applicable
- 48
- 49 ● Perform the duties of the building emergency director, as applicable,
50 for the Tank Farms during emergencies.
- 51
- 52
- 53

1 5.4.5 Tank Farms Engineering Managers and Engineers.

2 Responsibilities of the Tank Farms engineering managers and
3 engineers (Cognizant, Systems, Test, and Maintenance) include
4 the following:
5

- 6 ● Ensure that the staff is knowledgeable of procedures, equipment,
7 buildings, and processes so that the staff can identify problem areas
8 and provide remedial action in a timely fashion
9
- 10 ● Oversee and direct the activities of the cognizant/process engineering
11 staff
12
- 13 ● Ensure that the Tank Farms emergency and monitoring equipment, process
14 equipment, procedures, designs, etc., comply with U.S. Department of
15 Energy Orders, Federal and State regulations, national standards, and
16 applicable engineering procedures and management standards
17
- 18 ● Issue and maintain or provide oversight and review of Tank Farms
19 operating documentation, operating procedures, flowsheets, sample
20 schedules, specifications, process test plans and procedures,
21 operational safety requirements, and other documents necessary to
22 operate the Tank Farms
23
- 24 ● Perform routine and comprehensive evaluations of the Tank Farms
25 processes to ensure compliance with process control requirements,
26 procedure compliance, and equipment performance; assess problem areas
27 and implement timely corrective actions
28
- 29 ● Perform daily, routine, and comprehensive evaluations of Tank Farms
30 process parameters to ensure compliance with procedures
31
- 32 ● Maintain Tank Farms instrument and equipment flow diagrams
33
- 34 ● Prepare design criteria, and perform and approve design analysis
35
- 36 ● Prepare and approve equipment and material specifications for new
37 design
38
- 39 ● Prepare and approve engineering design documents and drawings in
40 compliance with applicable policies, procedures, and instructions and
41 in accordance with recognized national standards and codes
42
- 43 ● Provide input to environmental permit applications
44
- 45 ● Develop procedures for inspecting and replacing emergency and
46 monitoring equipment
47
- 48 ● Ensure compliance with requirements, applicable policies, programs,
49 regulations, and U.S. Department of Energy Orders to ensure employee
50 safety, environmental compliance, and public safety
51
- 52 ● Review and revise maintenance procedures and work plans, and ensure
53 that procedures are current and accurate
54

- 1 ● Provide technical direction for hazardous material and dangerous waste
- 2 spill responses
- 3
- 4 ● Respond to off-normal and/or emergency conditions according to
- 5 established procedures.
- 6
- 7

8 **5.4.6 Tank Farms Operations Support Managers.** Line Management within
9 the Tank Farms Operations Organization provides support as applicable to
10 ensure the safe, effective, efficient, and environmentally acceptable
11 operation of Tank Farms facilities and systems. This operation is in
12 accordance with applicable dangerous waste management procedures,
13 U.S. Department of Energy directives, applicable management policies, and
14 Federal and State regulations. Responsibilities of the Tank Farms support
15 organizations management and technical support personnel include, but are not
16 limited to, the following functions:

- 17 ● Maintenance
- 18 ● Environmental Compliance
- 19 ● Waste Tank Production Control
- 20 ● Conduct of Operations
- 21 ● Compliance Sampling and Support Operations
- 22 ● Recovery Support
- 23 ● Waste Shipping Support
- 24 ● Compliance Assessment
- 25 ● Isolation/Stabilization
- 26 ● Evaporator Support
- 27 ● Core Sampling
- 28 ● Waste Retrieval
- 29 ● Vapor, Liquid and Core Sampling.
- 30

31 **5.4.7 Environmental Waste Operations Manager.** Responsibilities and
32 duties include:

- 33
- 34 ● Supervise, coordinate, and direct the activities of Environmental
- 35 Waste Operations Team Leaders
- 36
- 37 ● Maintain control over 90-day accumulation area operations in
- 38 accordance with established operating procedures and policies, U.S.
- 39 Department of Energy orders, and State, and Federal regulations
- 40
- 41 ● Direct, control, and coordinate the receipt, storage, transfer, and
- 42 processing of dangerous waste
- 43
- 44 ● Ensure 90-day accumulation area operations are conducted according to
- 45 established procedures
- 46
- 47 ● Ensure compliance with 90-day accumulation area operating limits and
- 48 specifications
- 49
- 50 ● Ensure that job safety and planning meetings are conducted, as
- 51 applicable, with personnel involved with the 90-day accumulation area
- 52 operations
- 53
- 54 ● Ensure that regulatory records are maintained

- 1 ● Develop, revise, and review 90-day accumulation area operating
2 procedures as applicable
- 3
- 4 ● Respond to and provide remedial guidance and decisions for operational
5 anomalies, off-normal conditions, and equipment malfunctions
- 6
- 7 ● Respond to off-normal and/or emergency conditions according to
8 established procedures
- 9
- 10 ● Coordinate the recovery from unplanned releases to the environment and
11 other emergency conditions.
- 12

13 **5.4.8 Environmental Waste Operations Team Leader.** Responsibilities
14 and/or duties include:

- 15
- 16 ● Supervise, coordinate, and direct the activities of the Environmental
17 Waste Operators
- 18
- 19 ● Ensure that 90-day accumulation area operations are in accordance with
20 established operating procedures and policies, U.S. Department of
21 Energy orders, State, and Federal regulations
- 22
- 23 ● Supervise and coordinate the receipt, storage, transfer, and
24 reprocessing of dangerous waste
- 25
- 26 ● Conduct 90-day accumulation area operations according to established
27 procedures
- 28
- 29 ● Ensure compliance with 90-day accumulation area operating limits and
30 specifications
- 31
- 32 ● Conduct pre-job safety and planning meetings (Job Specific Training)
33 with personnel involved with 90-day accumulation area operations as
34 applicable
- 35
- 36 ● Maintain regulatory records
- 37
- 38 ● Revise and review 90-day accumulation area operating procedures as
39 applicable
- 40
- 41 ● Recognize off-normal conditions and taking appropriate action
- 42
- 43 ● Respond to off-normal or emergency conditions according to established
44 procedures
- 45
- 46 ● Notify 90-day accumulation area facility management of any unplanned
47 releases
- 48
- 49 ● Ensure that vehicles transporting dangerous wastes are up to date on
50 maintenance schedules
- 51
- 52 ● Ensure that the waste has been properly secured in the transportation
53 vehicle.
- 54

1 5.5 General Shipper
2

3 General Shippers prepare and sign uniform hazardous waste manifests for the
4 shipment of dangerous waste. All waste shipment made within Tank Farms are
5 on-site shipments. On-site shipments are not governed by WAC 173-303 or DOT
6 regulations. This description is being included for completeness. This
7 category is staffed by Exempt Operations personnel. The list of employees
8 currently filling this position is maintained by WHC-IP-0974. An example is
9 provided in Appendix B-4.

10
11 6.0 TRAINING CONTENT, FREQUENCY, AND TECHNIQUES
12

13 This section provides an overview of dangerous waste management and job-
14 specific training provided to employees in job titles and positions discussed
15 in the previous sections. In addition to Tank Farms normal operating
16 conditions, employees are trained on emergency equipment, systems, and
17 procedures to include the following, where applicable:
18

- 19 • Procedures for using, inspecting, repairing and replacing Tank Farms
20 emergency and monitoring equipment
- 21
- 22 • Automatic or manual dangerous waste feed cut-off systems
- 23
- 24 • Communications and alarm systems
- 25
- 26 • Response to fires and explosions
- 27
- 28 • Response to dangerous waste contamination incidents and spills
- 29
- 30 • Shutdown of operation.
- 31

32 The training program uses existing courses with content ranging from
33 general to specific dangerous waste training material. Initial and continuing
34 training program requirements are listed in Table 3 for each worker category.
35 Appendix A-1 contains a brief description of the training courses for this
36 program, including course title, course description, target audience,
37 instructional delivery, evaluation method, length of course, and frequency of
38 retraining.
39

40 The Tank Farms-specific and job-specific qualifications and/or
41 certifications are maintained according to contractual and regulatory
42 requirements. Courses are provided through classroom instruction, on-the-job
43 training, self-study, and computer-based training and address the Tank Farms
44 management procedures, U.S. Department of Energy directives, applicable
45 management policies, and Federal and State regulatory requirements. The
46 training includes instruction on the implementation of the Tank Farms
47 contingency plan (Building Emergency Plan) and use of emergency and monitoring
48 equipment. The Tank Farms nuclear operators and shift operations managers are
49 certified for assigned jobs through a performance-based training process.
50

51 The Tank Farms support organizations employees are also required to
52 complete identified Tank Farms training applicable to their involvement with
53 dangerous waste management. The Tank Farms support organizations management

1 is responsible for identifying individual employee training requirements in
2 accordance with this plan and for ensuring that training requirements are met.
3

4 The Tank Farms initial and continuing training program job-specific
5 course requirements relating to dangerous waste management are listed in
6 Tables 4 and 5. Appendix A-2 contains a brief description of the training
7 courses for this program, including course title, course description, target
8 audience, instructional delivery, evaluation method, length of course, and
9 frequency of retraining.

10 6.1 Relevance of Training to Job Positions

11 The dangerous waste training program for Tank Farms employees was
12 developed after reviewing U.S. Department of Energy directives, Federal and
13 State regulations, and the completion of a job analysis for
14 management-selected job positions. Tasks performed by employees were
15 identified and evaluated to determine training requirements. In addition,
16 training needs are evaluated continually in relation to current
17 U.S. Department of Energy directives and Federal and State regulations.
18

19 Certification for Shift Operations Managers, Nuclear Operators and
20 Nuclear Process Operators are required by DOE Order 5480.20. Certification
21 for General Shippers is required by WHC policy. To become certified, an
22 employee must successfully complete classroom training, self-study, and on-
23 the-job training, as applicable. Classroom instruction and/or self-study is
24 designed to provide certification candidates with the fundamental knowledge
25 required to work safely at the Tank Farms.
26

27 The Tank Farms Dangerous Waste training program outlined here ensures
28 that all personnel entering the Tank Farms are trained properly to perform the
29 job duties pertinent to the handling, treatment, storage, and/or disposal of
30 dangerous waste.
31

32 Tank Farms employees and support organization employees also receive
33 additional training in accordance with other regulations such as 29 CFR
34 1910.120, "Hazardous Waste Operations and Emergency Response" and 29 CFR
35 1910.1200, "Hazard Communication Program," and the U.S. Department of Energy
36 directives and management policies. These courses are not discussed in this
37 training plan.
38

39 6.2 Training to Emergency Response

40 Federal and State regulations require that employees be able to respond
41 effectively to emergencies and that employees be familiar with emergency
42 procedures, emergency equipment, and emergency systems. Specific topics
43 required by Federal and State dangerous waste regulations listed in Section
44 6.0 are addressed throughout the Dangerous Waste training program and are
45 included in the following training:
46

- 47 ● New Employee Safety Orientation
- 48 ● Hanford General Employee Training
- 49 ● Tank Farms Facility Orientation
- 50 ● Generator Hazards Safety Training
- 51 ● Facility Emergency and Hazard Information Checklist

- 1 ● Tank Farms Nuclear Operator and Manager certification training
- 2 ● Building Emergency Director training.

3 4 6.3 Waste Management Orientation

5
6 All employees are required to complete Waste Management Orientation (see
7 Table 3) training, which includes Site emergency response training. The
8 training at this level involves a basic introduction to dangerous waste
9 management. It addresses correct response to emergencies involving releases
10 of materials to the environment. It includes a discussion of the "Hanford
11 Facility" and permits for TSDs along with additional training requirements
12 should employee dangerous waste management duties change.

13
14 Tank Farms orientation is provided for personnel who require access to a
15 Tank Farms TSD Unit/Building. Training is conducted for the Tank Farms
16 Emergency Signals and appropriate responses.

17 18 6.4 Waste Management Awareness

19
20 In addition to Waste Management Orientation, Waste Management Awareness
21 (see Table 3) training is required for general workers, advanced general
22 workers, general managers, and general shippers. The training at this level
23 is commensurate with the duties of generating waste and placing into pre-
24 approved containers. The training addresses the identification, packaging,
25 marking and labeling and proper handling of dangerous wastes including the
26 regulatory requirements for accumulation and storage. Additionally, the
27 training covers contingency plan requirements and worker response to small
28 spills, materials release reporting, and notifications. General safe
29 practices for handling, storing and transporting dangerous waste materials are
30 addressed.

31
32 Unit/Building-specific training is also provided. This portion of the
33 training encompasses the job-specific or building-specific requirements that
34 supplement the information provided in waste management awareness. The
35 training provides employees with proper waste handling and emergency
36 procedures relevant to their responsibilities during normal facility
37 operations and emergencies.

38 39 6.5 Waste Management Advanced

40
41 In addition to Waste Management Orientation and Waste Management
42 Awareness, general managers, general shippers, and Environmental Waste
43 Operators must complete Waste Management Advanced (see Table 3) training.
44 General managers complete training on environmental regulations and/or
45 environmental compliance. The training includes information on potential
46 legal liabilities, applicable Federal and State regulations, various reporting
47 requirements, inspections/audits and record keeping. General shippers and
48 Environmental Waste Operators complete containerized waste management
49 training. The training is for facility personnel who properly select, package
50 and prepare for shipment containers of dangerous wastes. This is a
51 comprehensive container waste management training program and provides the
52 necessary information regarding documentation, reporting, record keeping, and
53 other information pertaining to administrative functions of dangerous waste
54 management.

1 6.6 Waste Management Administration
2

3 Waste Management Administration is for general shippers and those who
4 must resolve problems and issues related to dangerous waste management. This
5 training covers administration aspects of waste minimization, waste
6 management, and record keeping for the Hanford Facility.
7

8 6.7 Certification Training
9

10 In addition to Waste Management Orientation and Waste Management
11 Awareness, nuclear operators and Shift Operations Managers complete specific
12 courses in preparation for work assignments. Certifications for job-specific
13 work assignments have been developed in accordance with DOE Order 5480.20.
14 The training at this level is designed to provide in-depth facility knowledge
15 to ensure the safe and efficient operation of Tank Farms processes and
16 operations. Additionally, certification training provides detailed
17 information for the response to emergencies and off-normal events which could
18 occur within the unit. Once certified, employees are required to recertify
19 biennially.
20

21 6.8 Subcontractor Training and Visitor Training.
22

23 Subcontractor personnel and visitors at Tank Farms must complete the
24 appropriate level of training determined by Tank Farms management according to
25 their job duties.
26

27 Personnel who have completed training off-site are required to provide a
28 certificate or other suitable evidence of training course(s) that meet the
29 requirements of WAC 173-303 and this plan. The Tank Farms management must
30 verify the acceptability of off-site training as commensurate with
31 subcontractor personnel's anticipated Tank Farms job assignment and the
32 training requirements listed in Table 3.
33

34 The Tank Farms Management is responsible for ensuring that subcontractor
35 personnel and visitor medical surveillance requirements are met before
36 granting access to the Tank Farms. The Tank Farms management is responsible
37 for ensuring that all the requirements for access to the Tank Farms are met.
38

TABLE 3. TANK FARMS FACILITY DANGEROUS WASTE TRAINING MATRIX

TRAINING CATEGORY	COURSE TITLE	FREQ	WORKER CATEGORY				
			ALL EMPLOYEES	GENERAL WORKER	ADVANCED GENERAL WORKER	GENERAL MANAGER	GENERAL SHIPPER
WASTE MANAGEMENT ORIENTATION	NEW EMPLOYEE SAFETY ORIENTATION 02006A or HANFORD GENERAL EMPLOYEE TRAINING 000001 ¹	(A)	X	X	X	X	X
TANK FARMS WASTE MANAGEMENT ORIENTATION	TANK FARMS FACILITY ORIENTATION 350710	(A)	X ²	X	X	X	X
	TANK FARMS FACILITY RE-ORIENTATION 350760						
WASTE MANAGEMENT AWARENESS	GENERATOR HAZARDS SAFETY TRAINING 02006G	(B)		X ³	X	X	X
TANK FARMS WASTE MANAGEMENT AWARENESS	FEHIC ⁴ 03E060	(A)		X ⁵	X	X	X
	WASTE HANDLING SEGREGATION AND PACKAGING - TANK FARMS 350560	(A)		X	X	X ⁶	X
WASTE MANAGEMENT ADVANCED	ENVIRONMENTAL COMPLIANCE AT HANFORD 035050	(A)				X ⁷	
	ENVIRONMENTAL REGULATIONS AND COMPLIANCE AT HANFORD - REFRESHER *						
	CORE WASTE MANAGEMENT TRAINING - INITIAL 035100 ⁸	(A)			X ⁹	X ¹⁰	X
	CORE WASTE MANAGEMENT TRAINING - REFRESHER 035110						
	WASTE DESIGNATION SUPPORT 035010	(A)				X ¹⁰	X
WASTE MANAGEMENT ADMINISTRATION	WASTE MANAGEMENT ADMINISTRATION - INITIAL 035120 ⁸	(A)					X
	WASTE MANAGEMENT ADMINISTRATION - REFRESHER 035130						
JOB SPECIFIC TRAINING	CERTIFICATIONS OR OTHER TRAINING	(A) or (B)			X ¹¹	X ¹¹	

(A) ANNUALLY
(B) REPEATED EVERY 2 YEARS
* CONTINUING TRAINING FOR 035050 AND 035040 TO BE DEVELOPED

¹ MAY BE SATISFIED BY VENDOR SECURITY BRIEF FOR SUBCONTRACTORS AND VISITORS
² REQUIRED ONLY FOR PERSONNEL ENTERING ACTIVE PORTIONS OF THE TSD
³ SUBCONTRACTORS MAY PROVIDE EQUIVALENT TRAINING (e.g. KEH:OSH-060034)
⁴ FEHIC - BUILDING EMERGENCY PLAN REVIEW FOR TANK FARMS USING FACILITY EMERGENCY AND HAZARD INFORMATION CHECKLIST

⁵ MAY BE SATISFIED BY PRE-JOB SAFETY BRIEF
⁶ REQUIRED ONLY FOR PERSONNEL MANAGING WASTE GENERATING ACTIVITIES
⁷ LEVEL 1, 2, AND 3 MANAGERS TAKE ENVIRONMENTAL REGULATIONS AT HANFORD 035040
⁸ PREVIOUSLY SATISFIED BY HAZARDOUS WASTE SHIPMENT CERTIFICATION 02006S
⁹ REQUIRED ONLY FOR ENVIRONMENTAL WASTE OPERATORS (EWO)
¹⁰ REQUIRED ONLY FOR EWO MANAGER AND TEAM LEADERS
¹¹ AS DETERMINED BY TSD UNIT MANAGEMENT

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TABLE 4. TANK FARMS TSD UNITS DANGEROUS WASTE JOB-SPECIFIC TRAINING REQUIREMENTS FOR ADVANCED GENERAL WORKERS (NUCLEAR PROCESS OPERATORS)

TSD UNITS	EWO	ROUTINES	FIELD CREW	CASS	CORE SAMPLING		AGING WASTE	204-AR	DRY WELL	SALT WELL	242-A EVAP
	350065 (B)	350030 ¹ (B)	350060 ² (B)	350200 ³ (B)	PUSH 350070 ⁴ (B)	ROTARY 350075 (B)	350040 ⁵ (B)	350100 ⁶ (B)	350090 ⁷ (B)	350080 ⁸ (B)	350400 (B)
DOUBLE SHELL TANKS	X/C	X/C	X/C	X/C	X/C	X/C	X/C	X/C			
SINGLE SHELL TANKS	X/C	X/C	X/C	X/C	X/C	X/C			X/C	X/C	
242-A EVAPORATOR	X/C	X/C	X/C								X/C
LERF	X/C	X/C	X/C								
600 AREA PURGE WATER STORAGE AND TREATMENT FACILITY	X/C	X/C	X/C								
207-A SOUTH RETENTION BASIN	X/C	X/C									
216-B-3 POND SYSTEM	X/C	X/C									
216-A-29 DITCH	X/C	X/C									
216-A-36-B CRIB	X/C	X/C									
216-A-37-1 CRIB	X/C	X/C									
216-B-63 TRENCH	X/C	X/C									
216-U-12 CRIB	X/C	X/C									
216-S-10 DITCH	X/C	X/C									

SEE WHC-IP-0974 FOR LIST OF EMPLOYEES. SEE APPENDIX B-1 FOR AN EXAMPLE LIST

(B) REPEATED EVERY 2 YEARS
X INITIAL TRAINING
C CONTINUING TRAINING

¹ PREVIOUSLY SATISFIED BY TANK FARM ROUTINE 060662
² PREVIOUSLY SATISFIED BY TANK FARM FIELD CREW OPERATIONS 060663

³ PREVIOUSLY SATISFIED BY TANK FARM COMPUTER AUTOMATED SURVEILLANCE SYSTEM - 9674 AND CASS/TMACS REV 1 (TANK MONITORING AND CONTROL SYSTEM OF CASS) 350600
⁴ PREVIOUSLY SATISFIED BY TANK FARMS CORE SAMPLING OPERATIONS 060667
⁵ PREVIOUSLY SATISFIED BY TANK FARM AGING WASTE TANK OPERATIONS 060686
⁶ PREVIOUSLY SATISFIED BY TANK FARMS OPERATOR CERTIFICATION - 204-AR BUILDING 060654
⁷ PREVIOUSLY SATISFIED BY DRY WELL AND LATERAL MONITORING 060632
⁸ PREVIOUSLY SATISFIED BY TANK FARM SALTWELL SYSTEM OPERATIONS 060678

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TABLE 5. TANK FARMS DANGEROUS WASTE JOB-SPECIFIC TRAINING REQUIREMENTS FOR MANAGERS AND ENGINEERS

	TRAINING COURSES											FOR LIST OF EMPLOYEES SEE WHC-TP-0974. FOR AN EXAMPLE LIST SEE APPENDIX	
	WASTE MANAGEMENT ADVANCED			EMO TEAM MANAGER/LEADER					SHIFT MANAGER				
	035050	035040	***** ¹ (A)	035100 ²	035110 ³ (A)	035120 ⁴	035130 ⁴ (A)	035010 (A)	350066 (B)	350110 ⁴ (B)	020288		037510 ⁴ (A)
MANAGERS													
WASTE TANK OPERATIONS MANAGER		X ⁷	C								X	C	B-2
ENVIRONMENTAL COMPLIANCE OFFICER	X	X ⁸	C										B-2
OPERATIONS MANAGER		X ⁷	C								X	C	B-2
SHIFT OPERATIONS MANAGER	X		C							X/C	X	C	B-2
EMO MANAGER	X		C	X	C	X	C	C					B-2
EMO TEAM LEADER	X		C	X	C	X	C	C	X/C				B-2
COGNIZANT, TEST AND SYSTEMS ENGINEERS	X		C										B-3

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

¹ CONTINUING TRAINING FOR 035050 AND 035040 TO BE DEVELOPED
² PREVIOUSLY SATISFIED BY HAZARDOUS WASTE SHIPMENT CERTIFICATION 02006S
³ CONTINUING TRAINING FOR 035100
⁴ CONTINUING TRAINING FOR 035120

⁵ PREVIOUSLY SATISFIED BY TANK FARM PROCESS OPERATIONS MANAGER CERTIFICATION 060682
⁶ CONTINUING TRAINING FOR 020288
⁷ MAY BE SATISFIED BY 035050 ENVIRONMENTAL COMPLIANCE AT HANFORD
⁸ ECO REQUIRED TO TAKE WESTINGHOUSE ELECTRIC CORPORATION ENVIRONMENTAL CONTROL OFFICER TRAINING

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List of Courses for Tables 3, 4 and 5

- 1
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3 **CURRENT COURSES DESCRIBED IN APPENDIX A**
4
5 000001 Hanford General Employee Training
6 02006A New Employee Safety Orientation
7 000090 Visitor/Vendor Orientation
8 02006G Generator Hazards Safety Training
9 02028B Building Emergency Director Training
10 035010 Waste Designation Support
11 035040 Environmental Regulations at Hanford
12 035050 Environmental Compliance at Hanford
13 035100 Core Waste Management Training - Initial
14 035110 Core Waste Management Training - Refresher
15 035120 Waste Management Administrative - Initial
16 035130 Waste Management Administrative - Refresher
17 037510 Building Emergency Director/Warden Requal
18 03E060 Building Emergency Plan Review using the Facility Emergency and Hazard
19 Information Checklist for Tank Farms
20 350030 Tank Farms Routine Operations
21 350040 Aging Waste Operations
22 350060 Field Crew
23 350065 Environmental Waste Operations
24 350066 Environmental Waste Operations Classroom
25 350070 Tank Farms Core Sampling Operations
26 350075 Core Sampling Rotary Mode (Addendum to Existing 350070)
27 350080 Saltwell Systems Operation
28 350090 Drywell Van Operations
29 350100 204-AR Operations
30 350110 Tank Farm Supervisor/Manager Certification
31 350200 CASS/TMACS Operations
32 350400 242-A Evaporator Operations
33 350560 Waste Handling Segregation and Packaging - Tank Farms
34 350710 Tank Farms Facility Orientation
35 350760 Tank Farms Facility Re-Orientation
36
37 **COURSES SUPERSEDED BY CURRENT COURSES**
38
39 02006S Hazardous Waste Shipment Certification
40 060632 Dry Well and Lateral Monitoring
41 060654 Tank Farms Operator Certification - 204-AR Building
42 060662 Tank Farm Routine
43 060663 Tank Farm Field Crew Operations
44 060667 Tank Farms Core Sampling Operations
45 060674 Tank Farm Computer Automated Surveillance System
46 060678 Tank Farm Saltwell System Operations
47 060682 Tank Farm Process Operations Manager Certification
48 060686 Tank Farm Aging Waste Tank Operations
49 350600 Cass/TMACS Rev 1 (Tank Monitoring and Control System of CASS)
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APPENDIX A TRAINING COURSE DESCRIPTIONS

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APPENDIX A-1 DANGEROUS WASTE OPERATIONS TRAINING COURSES

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Title	02006A New Employee Safety Training
Description	Course covers U.S. Department of Energy Orders and applicable policies pertaining to employer and employee rights and responsibilities, general radiation training, hazardous waste, fire prevention, personal protective equipment, safety requirements, accident reporting, and avenues for addressing safety concerns.
Target audience	All new employees
Delivery	Classroom
Evaluation	Not applicable
Length	3 hours
Frequency	Initial (Retrained annually by 000001 HGET)

Title	000001 Hanford General Employee Training
Description	Course covers U.S. Department of Energy Orders and applicable policies pertaining to employer and employee rights and responsibilities, general radiation training, hazardous communications and hazardous waste, fire prevention, personal protective equipment, safety requirements (including TSD unit orientations), accident reporting, and avenues for addressing safety concerns.
Target audience	All employees
Delivery	Computer-based training with interactive video
Evaluation	Computer generated questions
Length	Average = 2 to 6 hours
Frequency	Annual

APPENDIX A-1 (CONTINUED) DANGEROUS WASTE OPERATIONS TRAINING COURSES

1	Title	000090 Visitor/Vendor Orientation
2	Description	Course is designed to acquaint and familiarize cleared visitors and uncleared vendors with safety, security, and emergency preparedness requirements and their responsibilities.
3	Target audience	Visitors/Vendors/Subcontractors
4	Delivery	Video Tape
5	Evaluation	Not Applicable
6	Length	1/2 Hour
7	Frequency	Annual

10	Title	350710 Tank Farm Orientation
11	Description	Course consists of classroom presentation. Topics are presented according to U.S. Department of Energy, federal, and state requirements that include entry and exit requirements; location of organizational charts and administrative and operating procedures; the person in charge of communications; potential hazards (radiological and nonradiological); restricted areas; potential emergencies, alarms, communications, responses and staging areas; locations and use of personal protective and emergency equipment; identification of TSD units; overview of the process; and training requirements.
12	Target audience	Personnel entering Tank Farm TSD Units
13	Delivery	Classroom
14	Evaluation	Not applicable
15	Length	1 hour
16	Frequency	Initial (Retrained annually by 350760 Computer-based Training)

APPENDIX A-1 (CONTINUED) DANGEROUS WASTE OPERATIONS TRAINING COURSES

1	Title	350760 Tank Farm Re-Orientation
2	Description	Course consists of a review of entry and exit requirements; location of organizational charts and administrative and operating procedures; the person in charge of communications; potential hazards (radiological and nonradiological); restricted areas; potential emergencies, alarms, communications, responses and staging areas; locations and use of personal protective and emergency equipment; identification of TSD units; overview of the process; and training requirements.
3	Target audience	Personnel entering Tank Farm TSD Units
4	Delivery	Computer-based Training
5	Evaluation	Not applicable
6	Length	1/2 hour
7	Frequency	Annual

11	Title	02006G Generator Hazards Safety Training
12	Description	Course introduces workers to federal laws governing chemical safety in the work place. The course provides the hazardous material/waste worker with the basic fundamentals for safe use and disposal of hazardous material. Course defines hazard communication and hazardous material, reviews labeling requirements, and introduces material safety data sheets and key terms used in chemical safety. The course also introduces methods for waste minimization.
13	Target audience	General worker, advanced general worker, and general shipper
14	Delivery	Classroom
15	Evaluation	Written examination - 80% passing grade
16	Length	4 hours
17	Frequency	Annual

APPENDIX A-1 (CONTINUED) DANGEROUS WASTE OPERATIONS TRAINING COURSES

1	Title	03E060 Facility Emergency and Hazard Information Checklist Training
2	Description	Course consists of a review of specific hazards associated with the TSD unit and employee's job. The training is completed by the supervisor, manager or a designated individual using a checklist. The job-specific information is reviewed concerning hazards in the employee's work area and Emergency Response requirements, including where applicable, waste feed cut-off, communication and alarm systems, and response to fires. The checklist act as a guide to ensure consistent coverage of necessary topics.
3	Target audience	General worker, general supervisor/manager, and general shipper
4	Delivery	One-on-one or as a group with supervisor, manager or designated individual
5	Evaluation	Training checklist documentation
6	Length	Average = 4 to 6 hours
7	Frequency	Annual

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10	Title	350560 Waste Handling Segregation and Packaging - Tank Farms
11	Description	This course covers the proper handling, segregating and packaging of waste within the 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.
12	Target Audience	General Workers/Advanced General Workers/General Managers/General Shippers
13	Delivery	Classroom
14	Evaluation	Written Examination - 70% passing grade
15	Length	8 Hours
16	Frequency	Annual

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APPENDIX A-1 (CONTINUED) DANGEROUS WASTE OPERATIONS TRAINING COURSES

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Title	035050 Environmental Compliance at Hanford
Description	Provides an overview of environmental regulations and focuses on the use of Westinghouse Hanford Company's Environmental Compliance Manual (WHC-CM-7-5) to address compliance issues. Information is presented through Hanford examples.
Target Audience	General Managers/Engineers/Environmental Compliance Officers
Delivery	Classroom
Evaluation	Workbook
Length	8 Hours
Frequency	Initial (Retrained annually, course to be developed)

Title	035040 Environmental Regulations at Hanford
Description	Provides an overview of environmental regulations as they apply to Hanford, to help participants make informed decisions relating to environmental compliance issues. It includes information on potential legal liabilities, applicable federal and state regulations, various reporting requirements, inspections/audits and record keeping. Information is presented using Hanford examples.
Target Audience	Level I, II, and III Managers
Delivery	Classroom
Evaluation	Written Examination - 80% passing grade
Length	8 Hours
Frequency	Initial (Retrained annually, course to be developed)

APPENDIX A-1 (CONTINUED) DANGEROUS WASTE OPERATIONS TRAINING COURSES

1	Title	035100 Core Waste Management - Initial
2	Description	Course covers basic requirements of waste management, incorporating 40 CFR, Washington Administrative Code (WAC) 173-303, U. S. Department of Energy Orders, and Company policy. Includes three practical exercises for hands-on experience with satellite area and 90 day area requirements, labpacks for dangerous waste and mixed waste, and preparation of packages for final destination.
3	Target Audience	Shippers/Advanced General Workers (EWOs only)/General Managers (EWO Operations only)
4	Delivery	Classroom
5	Evaluation	Written Examination - 80% passing grade
6	Length	16 Hours
7	Frequency	Initial (Retrained annually by 035110 Core Waste Management Training - Refresher)

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10	Title	035110 Core Waste Management - Refresher
11	Description	Refreshes Course 035100
12	Target Audience	Shippers/Advanced General Workers (EWOs only)/General Managers (EWO Operations only)
13	Delivery	Classroom
14	Evaluation	Written Examination - 80% passing grade
15	Length	4 Hours
16	Frequency	Annual

17
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APPENDIX A-1 (CONTINUED) DANGEROUS WASTE OPERATIONS TRAINING COURSES

1	Title	035010 Waste Designation Support
2	Description	Course teaches dangerous waste designation according to Washington Administrative Code (WAC) 173-303. Class content includes section-by-section lecture on the regulations, with examples following each section. Students complete examples using a Waste Designation flow chart. Examples addressed include: Federal Listed Waste, Discarded Chemical Products, Dangerous Waste Source, Washington State Criteria: Toxicity, Persistence, Carcinogenic, and Federal Characteristics: Ignitability, Corrosivity, Reactivity, and Toxicity.
3	Target Audience	General Shippers
4	Delivery	Classroom
5	Evaluation	Written Exam - 80% passing grade
6	Length	12 Hours
7	Frequency	Annual

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9		
10	Title	035120 Waste Management Administration - Initial
11	Description	Course is designed for employees preparing to become authorized 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, WIPP Certification Checklist, and Radioactive Mixed Waste Attachment Sheet. In addition, students will learn how these forms are used to complete shipping papers.
12	Target Audience	General Shippers
13	Delivery	Classroom
14	Evaluation	Written Examination - 80% passing grade
15	Length	8 Hours
16	Frequency	Initial (Retrained annually by 035130 Waste Management Administration - Refresher)

APPENDIX A-1 (CONTINUED) DANGEROUS WASTE OPERATIONS TRAINING COURSES

1	Title	035130 Waste Management Administration - Refresher
2	Description	Refreshes course 035120
3	Target Audience	General Shippers
4	Delivery	Classroom
5	Evaluation	Written Examination - 80% passing grade
6	Length	4 Hours
7	Frequency	Annual
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APPENDIX A-2 JOB-SPECIFIC TRAINING COURSES

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3	Title	350065 Environmental Waste Operations
4	Description	Operator certification course that covers the requirements to operate Tank Farms <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 Environmental Waste Operations Classroom and on-the-job training checklist.
5	Target audience	Nuclear Operators
6	Delivery	Classroom, OJT
7	Evaluation	Written Examination - 70% passing grade, JPM
8	Length	Approximately 40 hrs
9	Frequency	Every 2 years

10		
11		
12	Title	350066 Environmental Waste Operations Classroom
13	Description	Course covers the requirements to operate Tank Farms <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. Classroom portion of NPO Certification
14	Target audience	Nuclear Operators, Environmental Waste Operations Team Leader
15	Delivery	Classroom
16	Evaluation	Written Examination - 70% passing grade for nuclear operators, 80% for EWO Team Leaders
17	Length	Approximately 40 hrs
18	Frequency	Every 2 years
19		
20		

APPENDIX A-2 (CONTINUED) JOB-SPECIFIC TRAINING COURSES

1	Title	350030 Tank Farm Routine
2	Description	Operator qualification course that defines the function, components, principles of operation, and purpose of Tank Farms Routine operations. Covers Alarm response and normal operating procedures including: procedures for using, inspecting and replacing Tank Farms 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.
3	Target audience	Nuclear Operators
4	Delivery	Classroom, OJT
5	Evaluation	Written Examination - 70% passing grade, JPM
6	Length	Approximately 120 hrs
7	Frequency	Every 2 Years

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10	Title	350060 Field Crew
11	Description	Operator certification course that defines the function, components, principles of operation and purpose of Field Crew. Covers procedures for using, inspecting and replacing Tank Farms emergency and monitoring equipment and response to spills.
12	Target audience	Nuclear Operators
13	Delivery	Classroom, OJT
14	Evaluation	Written Examination - 70% passing grade, JPM
15	Length	Approximately 16 hrs
16	Frequency	Every 2 Years

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APPENDIX A-2 (CONTINUED) JOB-SPECIFIC TRAINING COURSES

1	Title	350200 CASS/TMACS Operations
2	Description	Operator qualification course that defines the function, components, principles of operation, and purpose of the Computer Automated Surveillance System Central Facility. Covers Alarm Response Procedures and normal operating procedures.
3	Target audience	Nuclear Operators
4	Delivery	Classroom, OJT
5	Evaluation	Written Examination - 70% passing grade, JPM
6	Length	Approximately 40 hrs
7	Frequency	Every 2 Years

10	Title	350070 Tank Farms Core Sampling Operations
11	Description	Operator certification course that defines the function, components, principles of operation and purpose of Push Mode Core Sampling.
12	Target audience	Nuclear Operators
13	Delivery	Classroom, OJT
14	Evaluation	Written Examination - 70% passing grade, JPM
15	Length	Approximately 40 hrs
16	Frequency	Every 2 Years

19	Title	350075 Core Sampling Rotary Mode (Addendum to Existing (350070))
20	Description	Operator certification course that defines the function, components, principles of operation and purpose of Rotary Mode Core Sampling.
21	Target audience	Nuclear Operators
22	Delivery	Classroom, OJT
23	Evaluation	Written Examination - 70% passing grade, JPM
24	Length	Approximately 24 hrs
25	Frequency	Every 2 Years

APPENDIX A-2 (CONTINUED) JOB-SPECIFIC TRAINING COURSES

1	Title	350040 Aging Waste Operations
2	Description	Operator qualification course that defines the function, components, principles of operation, and purpose of Aging Waste operations. Covers Alarm Response Procedures and normal operating procedures including: procedures for using, inspecting and replacing Tank Farms 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.
3	Target audience	Nuclear Operators
4	Delivery	Classroom, OJT
5	Evaluation	Written Examination - 70% passing grade. JPM
6	Length	Approximately 40 hrs
7	Frequency	Every 2 Years

10	Title	350100 204-AR Operations
11	Description	Operator qualification course that defines the function, components, principles of operation; and purpose of 204-AR Building operations. Covers Alarm Response Procedures and normal operating procedures including: automatic and manual dangerous waste feed cut-off systems, response to fire and explosions, response to spills and shutdown of operations.
12	Target audience	Nuclear Operators
13	Delivery	Classroom, OJT
14	Evaluation	Written Examination - 70% passing grade. JPM
15	Length	Approximately 40 hrs
16	Frequency	Every 2 Years

APPENDIX A-2 (CONTINUED) JOB-SPECIFIC TRAINING COURSES

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Title	350090 Drywell Van Operations
Description	Operator qualification course that defines the function, components, principles of operation, and purpose of Drywell Van operations. Covers alarm response and normal operating procedures.
Target audience	Nuclear Operators
Delivery	Classroom, OJT
Evaluation	Written Examination - 70% passing grade, JPM
Length	Approximately 16 hrs
Frequency	Every 2 Years

Title	350080 Saltwell Systems Operations
Description	Operator qualification course that defines the function, components, principles of operation, and purpose of Saltwell Systems operations. Covers Alarm Response Procedures and normal operating procedures including: procedures for automatic and manual dangerous waste feed cut-off systems, response to fire and explosions, response to spills and shutdown of operations.
Target audience	Nuclear Operators
Delivery	Classroom, OJT
Evaluation	Written Examination - 70% passing grade, JPM
Length	Approximately 20 hrs
Frequency	Every 2 Years

APPENDIX A-2 (CONTINUED) JOB-SPECIFIC TRAINING COURSES

1	Title	350400 242-A Evaporator Operations
2	Description	Operator qualification course that defines the function, components, principles of operation, and purpose of 242-A Evaporator operations. Covers Alarm Response Procedures and normal operating procedures including: procedures for using, inspecting and replacing Tank Farms 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.
3	Target audience	Nuclear Operators
4	Delivery	Classroom, OJT
5	Evaluation	Written Examination - 70% passing grade, JPM
6	Length	Approximately 200 hrs
7	Frequency	Every 2 Years

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10	Title	035060 Westinghouse Electric Corporation Environmental Control Officer Training
11	Description	Orientation to Westinghouse Corporate policies and procedures regarding compliance with environmental regulations. Overview of regulations included.
12	Target audience	Environmental Compliance Officers
13	Delivery	Classroom
14	Evaluation	Not Applicable
15	Length	16 hours
16	Frequency	Initial Training only

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APPENDIX A-2 (CONTINUED) JOB-SPECIFIC TRAINING COURSES

1	Title	350110 Tank Farms Supervisor/Manager Certification
2	Description	Course includes the following topics to prepare the Manager in Tank Farms operations: <ul style="list-style-type: none"> ● Administrative information ● Technical information ● Hazardous material/dangerous waste requirements ● Handling dangerous waste ● Safety analysis reports ● Operational safety requirements ● Radiation work procedures ● Occurrence reporting ● Jobs conducted in the area of assigned responsibility ● Conduct of operations ● Processes and services ● Equipment.
3	Target audience	Operations supervisors and managers
4	Delivery	Classroom, OJT
5	Evaluation	Written Examination - 80% passing grade, Oral Board
6	Length	700 hours
7	Frequency	Every 2 years

8		
9		
10	Title	02028B Building Emergency Director Training
11	Description	Course provides an overview of the responsibilities of the building emergency director, identifies the building emergency organizations, reviews building emergency plan, and discusses drill and exercise requirements.
12	Target audience	Shift Operations Managers
13	Delivery	Classroom
14	Evaluation	Not Applicable
15	Length	2 hours
16	Target audience	Shift Operations Managers
17	Frequency	Initial (Retrained annually by 037510 Building Emergency Director/Warden Requal)

APPENDIX A-2 (CONTINUED) JOB-SPECIFIC TRAINING COURSES

1	Title	037510 Building Emergency Director/Warden Regualification
2	Description	Refresher for Building Emergency Director Training
3	Target audience	Shift Operations Managers
4	Delivery	Classroom
5	Evaluation	Not Applicable
6	Length	2 hours
7	Frequency	Annual
8		
9		

APPENDIX B DANGEROUS WASTE TRAINING REQUIREMENTS LISTED BY
EMPLOYEE JOB POSITION AND NAME

Appendix B is maintained as required by WHC-IP-0974. These examples are provided to help explain the program. Copies of WHC-IP-0974 Can be found in the Shift Office at 272AW, 272WA, and 242A Evaporator.

- APPENDIX B-1. TANK FARMS DANGEROUS WASTE TRAINING REQUIREMENTS FOR
ADVANCED GENERAL WORKERS (NUCLEAR PROCESS OPERATORS)
(EXAMPLE) APP B 1
- APPENDIX B-2. TANK FARMS DANGEROUS WASTE TRAINING REQUIREMENTS FOR
GENERAL MANAGERS (EXAMPLE) APP B 2
- APPENDIX B-3. TANK FARMS DANGEROUS WASTE TRAINING REQUIREMENTS FOR
COGNIZANT, TEST, AND SYSTEMS ENGINEERS (EXAMPLE) APP B 3
- APPENDIX B-4. TANK FARMS DANGEROUS WASTE TRAINING REQUIREMENTS FOR
GENERAL SHIPPERS (EXAMPLE) APP B 4

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APPENDIX B-2. TANK FARMS DANGEROUS WASTE TRAINING REQUIREMENTS FOR GENERAL MANAGERS (EXAMPLE)

MANAGERS BY JOB POSITIONS	TRAINING COURSES																	
	WASTE MANAGEMENT ORIENTATION, AWARENESS AND ADVANCED								EWO TEAM MANAGER/LEADER					SHIFT MANAGER*				
	000001 or 02006A (A)	350710	350760 ¹ (A)	020066 (B)	03E060 (A)	350560 (A)	035050	035040	***** ² (A)	035100 ³	035110 ⁴ (A)	035120 ⁵	035130 ⁶ (A)	035010 (A)	350066 ⁷ (B)	350110 ⁸ (B)	020288	037510 ⁹ (A)
EXAMPLES																		
WASTE TANK OPERATIONS MANAGER																		
ANDERSON JOHN Q	X/C	X	C	X/C	X/C			X ⁸	C							X	C	
ENVIRONMENTAL COMPLIANCE OFFICER																		
BROWN BILL L	X/C	X	C	X/C	X/C		X	X ⁸	C									
OPERATIONS MANAGER																		
JONES HELEN A	X/C	X	C	X/C	X/C			X ⁸	C							X	C	
SHIFT OPERATIONS MANAGER																		
SMITH THOMAS R	X/C	X	C	X/C	X/C	X/C	X		C						X/C	X	C	
OPERATIONS SUPPORT MANAGER																		
WHITE MARY L	X/C	X	C	X/C	X/C			X ⁸	C									
EWO MANAGER																		
YOUNG MIKE R	X/C	X	C	X/C	X/C	X/C	X		C	X	C	X	C	X/C				
EWO TEAM LEADERS																		
ZIMMER WENDY B	X/C	X	C	X/C	X/C	X/C	X		C	X	C	X	C	X/C	X/C			

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

* SHIFT OPERATIONS MANAGER CERTIFICATION DATES HAVE BEEN EXTENDED FROM MAY 1, 1993 UNTIL AUGUST 6, 1994 BY INTERNAL MEMO FROM MANAGER, TANK FARMS FACILITY OPERATIONS, DATED APRIL 28, 1993

¹ CONTINUING TRAINING FOR 350710
² CONTINUING TRAINING FOR 035050 AND 035040 TO BE DEVELOPED
³ PREVIOUSLY BE SATISFIED BY 020065
⁴ CONTINUING TRAINING FOR 035100

⁵ CONTINUING TRAINING FOR 035120
⁶ PREVIOUSLY SATISFIED BY TANK FARM PROCESS OPERATIONS MANAGER CERTIFICATION 060682
⁷ CONTINUING TRAINING FOR 020288
⁸ MAY BE SATISFIED BY 035050
⁹ REPLACED BY COURSE 035060 WESTINGHOUSE ELECTRIC COMPANY ENVIRONMENTAL CONTROL OFFICER

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APPENDIX B-3. TANK FARMS DANGEROUS WASTE TRAINING REQUIREMENTS FOR COGNIZANT, TEST, AND SYSTEMS ENGINEERS (EXAMPLE)

TRAINING COURSES								
WASTE MANAGEMENT ORIENTATION, AWARENESS AND ADVANCED								
COGNIZANT, TEST AND SYSTEMS ENGINEERS	000001 or 02006A (A)	350710	350760 ¹ (A)	02006G (B)	03E060 (A)	350560 (A)	035050	***** ² (A)
EXAMPLES								
ANDERSON JOHN Q	X/C	X	C	X/C	X/C	X/C	X	C
BROWN BILL L	X/C	X	C	X/C	X/C	X/C	X	C
JONES HELEN A	X/C	X	C	X/C	X/C	X/C	X	C

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

¹ CONTINUING TRAINING FOR 350710
² CONTINUING TRAINING FOR 035050 AND 035040 TO BE DEVELOPED

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APPENDIX B-4. TANK FARMS DANGEROUS WASTE TRAINING REQUIREMENTS FOR GENERAL SHIPPERS (EXAMPLE)

		TRAINING COURSES									
		WASTE MANAGEMENT ORIENTATION, AWARENESS, ADVANCED AND ADMINISTRATION									
SHIPPERS	000001 or 02006A (A)	350710	350760 ¹ (A)	02006G (B)	03E060 (A)	350560 (A)	035100 ²	035110 ³ (A)	035120 ²	035130 ⁴ (A)	035010 (A)
EXAMPLES											
WHITE MARY L	X/C	X	C	X/C	X/C	X/C	X	C	X	C	X/C
YOUNG MIKE R	X/C	X	C	X/C	X/C	X/C	X	C	X	C	X/C
ZIMMER WENDY B	X/C	X	C	X/C	X/C	X/C	X	C	X	C	X/C

(A) REPEATED ANNUALLY
(B) REPEATED EVERY 2 YEARS
X INITIAL TRAINING
C CONTINUING TRAINING

¹ CONTINUING TRAINING FOR 350710
² PREVIOUSLY SATISFIED BY 02006G
³ CONTINUING TRAINING FOR 035100
⁴ CONTINUING TRAINING FOR 035120

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