

0630

LIQUID-LEVEL MONITORING 101088
OJT CHECKLIST ~~101087~~

INSTRUCTIONS

OJT TRAINER:

The OJT Trainer is that person selected to instruct the trainee. The OJT Trainer will be certified in the course being taught, and will have completed a course in OJT Instruction.

When the OJT Trainer determines the operator has shown competency in performing a specific activity and is ready for evaluation, the OJT Trainer will sign and date the activity(s) labeled OJT TRAINER and DATE on the OJT Checklist. Notification shall be given to the OJT Evaluator upon completion of all OJT training activities.

OJT EVALUATOR:

The OJT Evaluator will be certified in the course being evaluated and will have completed the OJT Instructor course. The OJT Evaluator and Trainer should not be the same person. The trainee's immediate supervisor shall not be the evaluator.

When evaluating the performance of a trainee, the Evaluator shall, if tank farm conditions allow, require the trainee to perform the activity being evaluated. The Evaluator shall only circle the appropriate Evaluation Code, when shown, such as "P" and "S" to indicate whether the trainee performed or simulated the specific activity. When evaluation is completed, the Evaluator shall sign and date the lines labeled, OJT EVALUATOR and DATE.

Once the entire OJT Checklist is completed, forward the document to the Training Specialist assigned to your facility. Your Training Specialist will process this document, along with required exams or other checklists, to qualify or certify the trainee.

OJT TRAINEE:

Once the OJT Checklist has been completed in its entirety, and all other required signatures are in place, sign and date the cover sheet in the space labeled EMPLOYEE.



DOCUMENT STUDY CHECKLIST

COURSE TITLE: LIQUID-LEVEL MONITORING

COURSE No. 0630

CHECKLIST No. 101088

NAME: _____ PAYROLL No. _____

REFERENCE DOCUMENT TITLE	DOCUMENT No.	DATE
Tank Farm Safety Rules	As Posted	_____
Industrial Safety Manual	WHC-CM-4-3	_____
GEN-0 (Radiation Protection)	WHC-CM-4-15	_____
Criteria for Filling Out Data Log Sheets	WHC-CM-5-7, 2.4	_____
Criteria for Requesting or Removing Information Labels	WHC-CM-5-7, 2.5	_____
Radiation Work Permits (RWP)	WHC-CM-4-15	
Tank Farm Operations	F-1	_____
Clean Tank Farm Operations	F-8	_____
Radiological Work Inside Clean Tank Farms	F-9	_____
Waste Storage Tank and Leak Detection Criteria	SD-WM-TI-356/V 1&2 SD-WM-TI-357/Smry	_____ _____
Operating Procedures:		
Operation and Surveillance of 200 East Active Cribs	T0-040-001	_____
Operation and Surveillance of 200 West Active Cribs	T0-040-002	_____

~~Employee's Signature: _____ Date: _____~~
 (Employee's signature denotes completion of study of the referenced documents.)
 N/A

DOCUMENT STUDY CHECKLIST
0630 101088
LIQUID LEVEL MONITORING

REFERENCE DOCUMENT TITLE	DOCUMENT No.	DATE
Operation of Automatic Liquid-Level Intrusion Gages at East and West Area Tank Farms	TO-040-180	_____
Manual Measurement of Liquid-Level In Underground Waste Storage Tanks and Disposal Cribs	TO-040-200	_____
Monitoring of Water Levels in 200 East and 200 West Area Surface Ponds	TO-040-220	_____
Hexone Waste Storage Tanks 141-S and 142-S Liquid-Level/Weight Factor Measurement	TO-020-130	_____

~~Employee's Signature: _____ Date: _____~~
(Employee's signature denotes completion of study of the referenced documents.) **N/A**

0630

LIQUID-LEVEL MONITORING
OJT CHECKLIST

101297

OJT Coding: P = perform, S = simulate, D = describe

ACTIVITY	REFERENCE DOCUMENT	EVAL. (CIRCLE AS CODE APPROPRIATE)
----------	-----------------------	---------------------------------------

1. AUTOMATIC LIQUID-LEVEL GAGES

A. Describe/perform/simulate the appropriate action, per referenced procedure(s):

1) Radiation safety for FIC reading	- F-1, F-8, F-9	P S D
--	-----------------	-------

DATE	OJT TRAINER	DATE	OJT EVALUATOR
------	-------------	------	---------------

2) Obtain an FIC liquid- level reading	TO-040-180	P S D
---	------------	-------

DATE	OJT TRAINER	DATE	OJT EVALUATOR
------	-------------	------	---------------

3) Raise and lower the tape and plummet in both operating modes (intrusion/liquid level).	TO-040-180	P S D
--	------------	-------

DATE	OJT TRAINER	DATE	OJT EVALUATOR
------	-------------	------	---------------

2. MANUAL TAPE LIQUID-LEVEL MEASUREMENTS

A. Describe/perform/simulate the appropriate action, per referenced procedure:

1) Radiation safety as required for manual readings	TO-040-200	P S D
---	------------	-------

DATE	OJT TRAINER	DATE	OJT EVALUATOR
------	-------------	------	---------------

0630

LIQUID-LEVEL MONITORING
OJT CHECKLIST

101287

OJT Coding: P = perform, S = simulate, D = describe

ACTIVITY	REFERENCE DOCUMENT	EVAL. (CIRCLE AS CODE APPROPRIATE)
2) Obtain a manual tape liquid-level reading	TO-040-200	P S D

DATE	OJT TRAINER	DATE	OJT EVALUATOR
------	-------------	------	---------------

3. SURFACE POND MONITORING

A. Describe/perform/simulate the appropriate action, per referenced document:

1) Radiation safety for pond monitoring	TO-040-220	P S D
---	------------	-------

DATE	OJT TRAINER	DATE	OJT EVALUATOR
------	-------------	------	---------------

2) Obtain a surface level pond reading	TO-040-220	P S D
--	------------	-------

DATE	OJT TRAINER	DATE	OJT EVALUATOR
------	-------------	------	---------------

4. ACTIVE DISPOSAL CRIB MONITORING:

A. Describe/perform/simulate the appropriate action, per referenced document:

1) Radiation safety for crib monitoring	TO-040-001, TO-040-002	P S D
---	---------------------------	-------

DATE	OJT TRAINER	DATE	OJT EVALUATOR
------	-------------	------	---------------

0630

LIQUID-LEVEL MONITORING
OJT CHECKLIST

101287

OJT Coding: P = perform, S = simulate, D = describe

ACTIVITY	REFERENCE DOCUMENT	EVAL. (CIRCLE AS CODE APPROPRIATE)
2) Obtain a liquid-level reading for east and west area	TO-040-001, TO-040-002	P S D

DATE	OJT TRAINER	DATE	OJT EVALUATOR
------	-------------	------	---------------

5. HEXONE WASTE STORAGE TANKS LIQUID-LEVEL/WEIGHT FACTOR MEASUREMENT

A. Describe/perform/simulate the appropriate action, per referenced document:

1) Radiation/chemical safety requirements	TO-020-130	P S D
---	------------	-------

DATE	OJT TRAINER	DATE	OJT EVALUATOR
------	-------------	------	---------------

2) Measure hexone level in storage tanks	TO-020-130	P S D
--	------------	-------

DATE	OJT TRAINER	DATE	OJT EVALUATOR
------	-------------	------	---------------

LIQUID-LEVEL MONITORING

(0630)

092287

STUDY QUESTIONS

Reference Documents

1. Waste Storage Tanks and Leak Detection Criteria
2. Tank Farm Processes and Services Training Manual
3. Radiation Work Permits (RWP): F-1, F-8, F-9

Operating Procedures:

4. TD-040-001: Operation and Surveillance of 200 East Active Cribs
5. TD-040-002: Operation and Surveillance of 200 West Active Cribs
6. TD-040-180: Operation of Automatic Liquid-Level Intrusion Gages at East and West Area Tank Farms
7. TD-040-200: Manual Measurement of Liquid Level In Underground Waste Storage Tanks and Disposal Cribs
8. TD-040-220: Monitoring of Water Levels in 200 East and 200 West Area Surface Ponds
9. TD-020-130: Hexone Waste Storage Tanks 141-S and 142-S Liquid Level/Weight Factor Measurement

Radiation Safety

1. Identify self-survey and self-monitoring requirements. (F-1)
2. Identify protective apparel requirements for contaminated and potentially contaminated work areas in tank farms. (F-1)
3. Identify approval authority for protective apparel changes during tank farm work. (F-1)
4. Identify protective apparel requirements for clean tank farm work. (F-8)
5. Identify requirements to void out an RWP while in use. (F-8/9)
6. Describe proper protective apparel when responding to high radiation alarms, CAM alarms, or high effluent alarms. (F-9)
7. Describe the warning postings or indicators required while a tank farm has radiological work in progress. (F-9)

LIQUID-LEVEL MONITORING
(0630) 092207
STUDY QUESTIONS

Surveillance Facility and EP/APC

8. Identify and be able to use the leak detection criteria for tank farms. (1)
9. Describe the use of baseline readings in waste storage tank liquid-level monitoring. (1)
10. Define "NO CRITERION" for liquid level decrease in a tank farm. (1)
11. Describe the steps taken if a limit is found to have been exceeded. (1)
12. Identify the information received from liquid-level monitoring. (2/6-126)
13. Identify and describe the six types of liquid-level monitoring systems. (2/6-127)
14. Describe the problems associated with liquid-level monitoring of saltcake and sludge. (2/6-135 thru 137)
15. Describe the techniques used for sludge level readings. (2/6-135 thru 137)
16. Identify the potential contamination problems with manual tape liquid-level and sludge-level monitoring. (2/6-137)
17. Recognize and identify the operating system for an automatic FIC liquid-level monitor station. (2/6-129)
18. Identify the panel switches and their operation for an Intrusion FIC system. (2/6-130)
19. Identify the baseline liquid-levels set by Process Engineering for active cribs in the 200 West Area. (5/2)
20. Be able to identify the reports necessary if the PFP crib liquid level exceeds its operating specification. (5/5)
21. Identify the stations to which CASS reports may be sent to. (6/1)
22. Describe the safety system used to prevent the automatic FIC plummet from rising into the reel housing. (6/3)
23. Identify the position and purpose of the intrusion FIC panel switches. (6/6)

LIQUID-LEVEL MONITORING

(8630)

892287

STUDY QUESTIONS

24. Describe the means by which the intrusion FIC plummet is stopped while being lowered to the liquid surface. (6/6)
25. Identify the intrusion alarms and causes. (6/7, 8, 9)
26. Describe the reasons for taking field readings, other than for tanks that are manual read only. (6/11, 12)
27. Identify for secondary liquid-level gages the frequency requirements for readings. (7/2, 3)
28. Describe the requirements for a conductivity test and when it shall be done. (7/3)
29. Identify who is notified whenever operating limits have been exceeded for 200E/200W Area surface ponds. (8/1)
30. Describe the flow control valve system for pond overflow. (8/4)
31. Identify the maximum overflow level for the Z seepage Basin to prevent contamination. (8/7)
32. Describe the Hexone tank liquid-level measurement procedure. (9)
33. Identify how liquid levels are determined for cribs. (4/2)
34. Describe areas that are to be inspected while performing liquid level monitoring activities in the Tank Farm. (4/2)
35. Identify the precautions to be taken while using the sonic tape reel for Crib 216-A-36-B (PUREX Ammonia Scrubber Discharge receiver). (4/3)