

TANK FARM SURVEILLANCE AND OPERATIONS ON-THE-JOB TRAINING CHECKLIST
TITLE AND TRAINING VERIFICATION SHEET

TITLE: TANK FARM ROUTINES

COURSE NUMBER: 0662 CHECKLIST NUMBER: 092688/051687/051787

NAME: _____ PAYROLL: _____
(PRINT)

TRAINING VERIFICATION:

THE ABOVE NAMED EMPLOYEE HAS DEMONSTRATED COMPETENCY IN THE PERFORMANCE AND KNOWLEDGE REQUIREMENTS FOR THIS JOB UNDER NORMAL AND ABNORMAL CONDITIONS HAVING MET ALL TRAINING REQUIREMENTS, THE EMPLOYEE IS NOW ELIGIBLE FOR: (CHECK ONE)

CERTIFICATION: _____ RECERTIFICATION: _____ YTD EXPERIENCE: _____

QUALIFICATION: _____ REQUALIFICATION: _____ YTD EXPERIENCE: _____

EMPLOYEE: _____ / _____

EMPLOYEE'S
MANAGER: _____ / _____



TANK FARM ROUTINES

Course Number 0662

CERTIFICATION AND RECERTIFICATION REQUIREMENTS

REVISED MAY 1987

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A. INITIAL CERTIFICATION REQUIREMENTS:

1. Section I - Surveillance

Completion and submission of the Document Study Checklist.

Completion of On-The-Job Training, using the Demonstration Checklist as a training guide.

Submission of the signed and completed Demonstration Checklist before examination.

Completion of Study Questions.

Completion of Certification Examination, with a minimum score of 70%.*

2. Section II - Ventilation Systems

Completion and submission of the Document Study Checklist.

Completion of On-The-Job Training, using the Demonstration Checklist as a training guide.

Submission of the signed and completed Demonstration Checklist before examination.

Completion of Study Questions.

Completion of Certification Examination, with a minimum score of 70%.*

3. Section III - Transfer and Routing Systems

Completion and submission of the Document Study Checklist.

Completion of On-The-Job Training, using the Demonstration Checklist as a training guide.

Submission of the signed and completed Demonstration Checklist before examination.

TANK FARM ROUTINES

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CERTIFICATION AND RECERTIFICATION REQUIREMENTS

REVISED MAY 1987

Page 2

Completion of Certification Study Questions.

Completion of Certification Examination, with a minimum passing score of 70%.*

*NOTE: THE CERTIFICATION EXAMINATION FOR EACH SECTION WILL NOT BE GIVEN UNTIL THE DOCUMENT STUDY AND DEMONSTRATION CHECKLIST COMPLETED, SIGNED AND RETURNED TO THE TRAINING SPECIALIST.

B. RECERTIFICATION REQUIREMENTS:

1. Section I - Surveillance

Completion of Document Study Checklist.

Completion of Demonstration Checklist.

2. Section II - Ventilation Systems

Completion of Document Study Checklist.

Completion of Demonstration Checklist.

3. Section III - Transfer and Routing Systems

Completion of Document Study Checklist.

Completion of Demonstration Checklist.

4. In addition to the above, the recertifying employe should also complete the Recertification Study Questions.

NOTE: THE RECERTIFICATION EXAMINATION WILL NOT BE GIVEN UNTIL ALL 3 DOCUMENT STUDY AND DEMONSTRATION CHECKLISTS ARE COMPLETED, SIGNED AND RETURNED TO THE TRAINING SPECIALIST.

5. Completion of Recertification Examination, with a minimum passing score of 70%.

STUDY PACKAGES ARE LOCATED IN THE EAST AND WEST AREA TANK FARM TRAINING OFFICE.

TANK FARM ROUTINES
Course No. 0662

OJT/DEMONSTRATION CHECKLIST No. 092688

SECTION I - SURVEILLANCE

NAME: _____ PAYROLL NO.: _____
(Print Name)

CHECK ONE: Certification _____ Recertification _____

INSTRUCTOR CODE: P = PERFORM, S = SIMULATE, D = DISCUSS/DESCRIBE

ACTIVITY	INST CODE	REFERENCE DOCUMENT	INSTRUCTOR'S INIT/DATE	TRNG CODE
A. LIQUID LEVEL MONITORING				
1. Automatic Liquid Level Gauge Operation				
a. air purge flow				
b. switch positions/normal operation				
c. liquid level readings	P	TO-040-180	-----	1,6
2. Intrusion Mode Gauge Operation				
a. air purge flow				
b. switch positions/normal intrusion mode				
c. liquid level readings				
d. response to intrusion alarms	P	TO-040-180	-----	2,6
3. Manual Liquid Level Gauges				
a. manual FICs				
b. manual tapes				
c. DC meter operation				
d. zip cords	P	TO-040-200	-----	6
4. Routine Liquid Level Monitoring				
a. monitoring frequencies				
b. automatic FICs				
c. manual FICs				
d. manual tapes				
e. CASS outages				
f. equipment failures		TO-040-180		
g. data sheet preparation	P	TO-040-200	-----	6

TANK FARM ROUTINES: SECTION I - SURVEILLANCE

COURSE NO. 0662 - OJT/DEMONSTRATION CHECKLIST NO. 092688

INSTRUCTOR CODE: P = PERFORM, S = SIMULATE, D = DISCUSS/DESCRIBE

ACTIVITY	INST CODE	REFERENCE DOCUMENT	INSTRUCTOR'S INIT/DATE	TRNG CODE
5. East & West Area Surface Pond Monitoring a. liquid level measurement b. flow control -Gable Mountain Pond -B Pond -U-Ditch -East area diversion valves	P	TO-040-220		6
6. Hexone Tank Measurements and Calculation	P	TO-020-130		6
B. <u>SLUDGE LEVEL MONITORING</u>				
1. Equipment identification a. type I b. type II 2. Required readings 3. Calculations	P	TO-040-560		6
C. <u>TEMPERATURE MONITORING/RETRIEVAL</u>				
1. Tank Temperature Retrieval equipment a. CASS Retrieval b. stationary digital readout instruments (potentiometers) c. portable digital readout instruments 2. TK-105-A Lateral Temperatures a. identify equipment b. read multipoint recorder	P	TO-020-120 RHO-MA-231, 6.3.3.3		6

TANK FARM ROUTINES: SECTION I - SURVEILLANCE

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ACTIVITY	INST CODE	REFERENCE DOCUMENT	INSTRUCTOR'S INIT/DATE	TRNG CODE
c. record output on data sheet as required 3. TK-104-A & TK-105-A Sludge Temperatures	P	T0-040-660		6
a. identify equipment b. potentiometer use c. read and record thermo-couple output on data sheet as required	P	T0-040-660		6
4. AN & AW Tank Farm Temperatures				
a. panelboard layout b. selector switch operation c. read required selector switch positions d. record on data sheet as required e. response to out of limit conditions	P	T0-040-660		6,7
5. AP Tank Farm Temperatures				
a. aux. panelboard layout b. operate AP TDS c. record on data sheet as required	P	T0-270-040 T0-040-660		6,7
6. SY Tank Farm Temperatures				
a. panelboard layout b. selector switch operation c. potentiometer use d. read required selector switch positions e. record on data sheet as required f. response to out of limit conditions	P	T0-040-680		6,7

TANK FARM ROUTINES: SECTION I - SURVEILLANCE

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INSTRUCTOR CODE: P = PERFORM, S = SIMULATE, D = DISCUSS/DESCRIBE

ACTIVITY	INST CODE	REFERENCE DOCUMENT	INSTRUCTOR'S INIT/DATE	TRNG CODE
7. AY & AZ Tank Farm Temperatures a. operate DASC system b. obtain temp. readings c. record on data sheet as required d. response to out of limit conditions	P	TO-200-463	-----	6,7
8. A & AX Tank Farm Temperatures a. potentiometer use b. obtain temp. readings c. record on data sheet as required	P	TO-020-120	-----	6
D. <u>LEAK DETECTION MONITORING</u>				
1. Leak Detection Wells a. Locate and identify the equipment used in AN, AP, AW, AX, AY, AZ & SY farms -weight factor recorders -weight factor indicators -specific gravity indicators liquid level indicators -count rate meter indicators b. CRM range settings c. read and record data as required d. response to abnormal conditions	P	TO-040-590	-----	2,6
2. AY & AZ Annulus Leak Detection Systems a. conductivity probe oper. b. panelboard/selector				

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ACTIVITY	INST CODE	REFERENCE DOCUMENT	INSTRUCTOR'S INIT/DATE	TRNG CODE
switch operation c. record data as required d. alarm response	P	FDM-T-200 00003, TO-040-590		2,6
3. AN, AP, AW & SY Annulus Leak Detection Systems a. flake type adjustable conductivity probe oper. b. annulus exhaust radiation recorder operation c. record data as required d. alarm response	P	TO-040-590		2,6
4. East Area Pit Leak Detection Alarm System a. main components of system b. equipment locations c. interlocking devices/ master switch operation d. surveillance loop reader/ Gamewell Console oper. e. alarm response	P/S	TO-020-190		2,6
5. West Area Pit Leak Detection Alarm System a. main components of system b. equipment locations c. interlocking devices/ master switch operation d. surveillance loop reader/ Gamewell Console operation e. alarm response	P/S	TO-020-210		2,6
E. <u>AREA SURFACE RADIATION MONITORING</u> 1. East Area Surface Radiation Alarm System a. main components of system b. equipment locations				

TANK FARM ROUTINES: SECTION I - SURVEILLANCE

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ACTIVITY	INST CODE	REFERENCE DOCUMENT	INSTRUCTOR'S INIT/DATE	TRNG CODE
c. radiation limits d. bypass switch operation e. surveillance loop reader/ Gamewell Console oper. f. Radiation Area Transmitter (RAT)/alarm response	P/S	TO-020-200		2,7
2. West Area Surface Radiation Alarm System a. main components of system b. equipment locations c. radiation limits d. bypass switch operation e. surveillance loop reader/ Gamewell Console oper. f. Radiation Area Transmitter (RAT)/alarm response	P/S	TO-020-220		2,7
F. <u>WEIGHT FACTOR/SPECIFIC GRAVITY MONITORING</u>				
1. 102-AW Specific Gravity Dip Tube System a. system function b. data collection c. adjustments to operating system d. status check for non- operating system e. dip tube start-up/shutdown f. dip tube water flush	P	TO-200-100		6
2. 244-TX Dip Tube System a. system function b. dip tube start-up and normal operation c. dip tube shutdown d. dip tube flushing	P	TO-450-050		6

TANK FARM ROUTINES: SECTION I - SURVEILLANCE

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ACTIVITY	INST CODE	REFERENCE DOCUMENT	INSTRUCTOR'S INIT/DATE	TRNG CODE
G. <u>SAMPLING</u>				
1. Surface Sampling				
<ul style="list-style-type: none"> a. identify equipment b. criteria c. hazards d. transport/storage e. radiological controls 	D	TO-080-010		6,9
2. Sub-Surface Sampling				
<ul style="list-style-type: none"> a. identify equipment b. criteria c. hazards d. transport/storage e. radiological controls 	D	TO-080-030		6,9
3. Soft Sludge Sampling				
<ul style="list-style-type: none"> a. identify equipment b. criteria c. hazards d. transport/storage e. radiological controls 	D	TO-080-190		6,9
4. Vapor Space Sampling				
<ul style="list-style-type: none"> a. identify equipment b. system function & oper. c. radiological controls 	D	TO-080-040		3,6
H. <u>RAW WATER SURVEILLANCE</u>				
1. Purpose				
2. Water meter readings/Data sheet usage				
3. Authorization/Accountability				
4. Identify equipment: Tank Farm Service Locations				

TANK FARM ROUTINES: SECTION I - SURVEILLANCE

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INSTRUCTOR CODE: P = PERFORM, S = SIMULATE, D = DISCUSS/DESCRIBE

ACTIVITY	INST CODE	REFERENCE DOCUMENT	INSTRUCTOR'S INIT/DATE	TRNG CODE
East & West Area a. water and/or steam supply valves b. flowmeters c. pressure indicators d. backflow preventers e. strainers	P	TO-040-540		1,6
I. <u>200 WEST SURVEILLANCE, SAFETY & HOUSEKEEPING INSPECTIONS</u>				
1. Daily operations a. 2727-WA and 2727-W b. coverage of construction forces				
2. Monthly operations a. fire extinguisher and hose inspection b. vehicle inspection c. 2727-SX, SX-281, & 2414-4 inspections d. essential material inventory e. emergency lantern inspection	D	TO-040-500		2
J. <u>200-EAST SURVEILLANCE, SAFETY & HOUSEKEEPING INSPECTIONS</u>				
1. Daily operations a. coverage of construction forces b. 272-AW building operator	D	TO-040-500		1
2. Monthly operations a. fire extinguisher & hose				

TANK FARM ROUTINES: SECTION I - SURVEILLANCE

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INSTRUCTOR CODE: P = PERFORM, S = SIMULATE, D = DISCUSS/DESCRIBE

ACTIVITY	INST CODE	REFERENCE DOCUMENT	INSTRUCTOR'S INIT/DATE	TRNG CODE
line inspection b. emergency lantern inspection c. vehicle inspection d. ladder inspection e. evacuation bus inspection	D	TO-040-480	-----	4
f. 801-C & 244-AR containment building inspection	D	TO-040-500	-----	1
K. <u>HANDLING OF USED PROTECTIVE CLOTHING AT RADIATION AREAS</u>				
1. General Controls				
a. sorting of used laundry b. storage c. packaging limits	D	TO-020-300	-----	1
2. Handling of respiratory equipment				
3. Handling of regulated jackets, caps and coats				
4. Laundry pickup	D	TO-020-300	-----	1
L. <u>ROUTINE SURVEILLANCE OF SHUTDOWN/STANDBY FACILITIES</u>				
1. 242-S Surveillance/Routines				
a. daily data recording -weight factor readings -data sheet preparation b. weekly inspection for liquid intrusion c. sample Tank C-100	P	TO-780-020	-----	1,2

TANK FARM ROUTINES: SECTION I - SURVEILLANCE

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ACTIVITY	INST CODE	REFERENCE DOCUMENT	INSTRUCTOR'S INIT/DATE	TRNG CODE
M. <u>MISCELLANEOUS OPERATIONS</u>				
1. Lock and Tag Control Procedure				
a. purpose				
b. DANGER tags				
-when used				
-controls/use of locks				
-log books				
-management role				
-equipment shutdown	P	TO-020-044		2, 4,6,
c. CAUTION tags				
-when used				
-controls (if any)				
d. professional signs & magnetic sign holders	P	TO-020-044		4,6

THIS COMPLETES SECTION I - SURVEILLANCE.

EMPLOYEE'S SIGNATURE: _____ DATE: _____

EVALUATOR'S SIGNATURE: _____ DATE: _____

MANAGER'S SIGNATURE: _____ DATE: _____

(EMPLOYEE'S AND EVALUATOR'S SIGNATURE SIGNIFIES THE EMPLOYEE HAS SATISFACTORILY DEMONSTRATED THE NECESSARY KNOWLEDGE AND SKILLS TO PERFORM THIS JOB/WORK ASSIGNMENT IN A SAFE, EFFICIENT AND EFFECTIVE MANNER DURING NORMAL AND EMERGENCY/ABNORMAL CONDITIONS ACCORDING TO ESTABLISHED PROCEDURES/PRACTICES.)

TANK FARM ROUTINES
Course No. 0662

OJT/DEMONSTRATION CHECKLIST No.051687

SECTION II - VENTILATION SYSTEMS

NAME: _____ PAYROLL NO.: _____
(Print Name)

(Check one) CERTIFICATION: _____ RECERTIFICATION: _____

INSTRUCTOR CODE: P = PERFORM, S = SIMULATE, D = DISCUSS/DESCRIBE

ACTIVITY	INST CODE	REFERENCE DOCUMENT	INSTRUCTOR'S INIT/DATE	TRNG CODE
A. <u>PORTABLE EXHAUSTERS</u>				
1. 7000 cfm Portable Exhauster Operation				
a. unit 296-P-17 at 105-A -identify system equipment -startup/shutdown exhauster -check filter DP gauges -obtain necessary system data as required -system interlocks	P	TO-060-035	_____	4,6
2. 1000 cfm Exhauster Operation				
a. identify system equipment b. normal operating limits c. data sheet preparation d. alarm response	P	TO-060-046 TO-060-330	_____	1,2,6
3. 1000 cfm Portable Hookup/operation at 241-AW Tank Farm				
a. hookup of exhauster to primary tank system b. startup c. normal operating conditions d. data sheet preparation e. alarm response	D	TO-060-330 TO-060-104, G.1-3	_____	1,2,6

TANK FARM ROUTINES

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INSTRUCTOR CODE: P = PERFORM, S = SIMULATE, D = DISCUSS/DESCRIBE

ACTIVITY	INST CODE	REFERENCE DOCUMENT	INSTRUCTOR'S INIT/DATE	TRNG CODE
4. Portable Exhauster Operation For TK-106C & TK-105C a. temperature switches b. differential pressure switches c. time delay system d. heaters and filters e. startup/shutdown f. routine operations g. data sheet preparation limits/frequencies	P	T0-060-050		1,6
B. <u>TANK VENTILATION SYSTEMS</u>				
1. 241-AW Primary Tank Ventilation a. K1-1 & K1-2 sys. operation -identify system/equipment -startup of K1 system -shutdown of K1-1 & K1-2 system b. Airlift Circulators -Tk-102-AW airlift circulator operation o 16 in. circulator operation o 24 in. circulator operation o startup/shutdown o data sheet preparation o alarm response	P	T0-060-104		4,6

TANK FARM ROUTINES

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ACTIVITY	INST CODE	REFERENCE DOCUMENT	INSTRUCTOR'S INIT/DATE	TRNG CODE
c. deentrainer flushing d. data sheet preparation				
e. response to HVAC alarms and equipment failures	D	FDM, pg.44 TO-060-104		2,6
2. 241-AW Annulus Ventilation				
a. K2-1 & K2-2 sys. operation -identify system equipment -startup of K2 systems -shutdown of K2 systems				
b. deentrainer flushing				
c. data sheet preparation				
d. response to HVAC alarms/ equipment failures	P	FDM, pg.47 TO-060-105		2,6
3. 241-AN Vessel Vent And Annulus Vent Systems				
a. K1 system operation -identify system equipment -startup of K1 systems -shutdown of K1 systems				
b. K2 system operation -startup of K2 systems -shutdown of K2 systems				
c. deentrainer flushing				
d. data sheet preparation				
e. response to HVAC alarms/ equipment failures	P	FDM, sect.5 TO-060-101		2,6

TANK FARM ROUTINES

COURSE NO. 0662 - OJT/DEMONSTRATION CHECKLIST NO. 051687

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ACTIVITY	INST CODE	REFERENCE DOCUMENT	INSTRUCTOR'S INIT/DATE	TRNG CODE
4. 241-AP Primary Ventilation				
a. K1 system operation -identify sys. equipment -startup K1-1/K1-2 system -shutdown K1-1/K1-2 system				
b. flush deentrainer	P	FDM, pg.61 T0-060-340	_____	1,6
c. data sheet preparation				
d. response to HVAC alarms/ equipment failures	D	T0-270-030 T0-270-031	_____	2
5. 241-AP Annulus Ventilation				
a. K2 system operation -identify system equipment -start up K2 system -shutdown K2 system				
b. data sheet preparation				
c. response to HVAC alarms/ equipment failures	P	FDM, pg.68 T0-270-030 T0-270-031	_____	1,2,6
6. 241-SY Vessel Vent System				
a. identify system equipment				
b. startup and operation				
c. data sheet preparation				
d. shutdown				
e. alarm response	P	T0-060-230	_____	1,2,6
7. 241-SY Annulus Vent System				
a. identify system equipment				
b. startup and operation				
c. data sheet preparation				
d. shutdown				
e. alarm response	P	T0-060-240	_____	1,2,6

TANK FARM ROUTINES

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ACTIVITY	INST CODE	REFERENCE DOCUMENT	INSTRUCTOR'S INIT/DATE	TRNG CODE
<p>8. 702-A Ventilation System</p> <p>a. identify major components</p> <p>b. monitor instrumentation</p> <ul style="list-style-type: none"> -deentrainers -surface condensers -heater inlet/outlet temps -fan/stack bypass line indicators -filter DPs -primary/annulus tank vacuums -cuno filter -seal loops -stack radiation recorder -circuit breaker #8 <p>c. record on data sheet as required</p> <p>d. monitor equipment</p> <ul style="list-style-type: none"> -flush deentrainers -alternate condensers -switch fans -flush deentrainer pads -add water to floor drains -condenser operation <p>e. identify normal/abnormal operation</p> <p>f. alarm response</p>	<p>P</p>	<p>T0-060-100</p>		<p>1,2,6</p>

TANK FARM ROUTINES

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ACTIVITY	INST CODE	REFERENCE DOCUMENT	INSTRUCTOR'S INIT/DATE	TRNG CODE
9. 241-AY Annulus Vent System a. identify system equipment b. system start/shutdown c. operating limits d. data sheet preparation e. alarm response	P	TO-060-120	_____	1,2,6
10. 241-AZ Annulus Vent System a. identify system equipment b. system start/shutdown c. operating limits d. data sheet preparation e. alarm response	P	TO-060-140	_____	1,2,6
11. 244-BX Exhauster Operation a. annulus sample pump startup b. exhaust stack sample pump startup c. exhauster startup d. normal operation e. emergency shutdown f. normal shutdown	P	TO-060-450	_____	1,2,6
12. 244-TX Exhauster Operation a. annulus sample pump startup b. exhaust stack sample pump startup c. exhauster startup d. normal operation e. emergency shutdown f. normal shutdown	P	TO-060-262	_____	1,2,6

TANK FARM ROUTINES

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INSTRUCTOR CODE: P = PERFORM, S = SIMULATE, D = DISCUSS/DESCRIBE

ACTIVITY	INST CODE	REFERENCE DOCUMENT	INSTRUCTOR'S INIT/DATE	TRNG CODE
13. 244-S Ventilation System a. identify system equipment b. monitor system and record on data sheet as required c. response to out-of-limit conditions	P	TO-060-212	_____	1,2,6
14. 241-SX Sludge Cooling Facility a. identify system equipment b. startup c. normal operation d. data sheet preparation e. shutdown f. dual exhaust fan operation g. automatic alarm system operation	P	TO-400-120	_____	1,2,6
15. 244-CR Ventilation Control And Surveillance a. identify system equipment b. describe system operation c. monitor req. instruments d. monitor req. equipment e. record data as required f. alarm response	P	TO-060-205	_____	1,2,6
16. Breather Filter Operation a. identify equipment b. system function	P	TO-060-015	_____	1,2,6

TANK FARM ROUTINES

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ACTIVITY	INST CODE	REFERENCE DOCUMENT	INSTRUCTOR'S INIT/DATE	TRNG CODE
<p>C. <u>BUILDING EXHAUST SYSTEMS</u></p>				
<p>1. Heating And Ventilation System 242-A</p> <p>a. K-1/K-2 system function(s) b. identify K-1/K-2 equipment c. emergency response -loss of K-1 & K-2 systems -high radiation alarms</p>	D	TO-620-020		1,2
<p>2. 242-T Process Cell Ventilation System</p> <p>a. system function b. identify equipment c. pre-startup/startup d. normal operation e. shutdown -manual -loss of vacuum or poweer f. switching filter banks g. switching exhaust fans h. response to a high radiation alarm</p>	P	TO-820-040		1,2,6

THIS COMPLETES SECTION II - VENTILATION SYSTEMS.

COMMENTS:

TANK FARM ROUTINES

COURSE NO. 0662 - OJT/DEMONSTRATION CHECKLIST NO. 051687

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ACTIVITY	INST CODE	REFERENCE DOCUMENT	INSTRUCTOR'S INIT/DATE	TRNG CODE
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TANK FARM ROUTINES

COURSE NO. 0662 - OJT/DEMONSTRATION CHECKLIST NO. 051687

SECTION II - VENTILATION

COMMENTS:

EMPLOYEE'S SIGNATURE: _____ DATE: _____

EVALUATOR'S SIGNATURE: _____ DATE: _____

MANAGER'S SIGNATURE: _____ DATE: _____

CERTIFICATION:

(EMPLOYEE'S AND EVALUATOR'S SIGNATURE SIGNIFIES THE EMPLOYEE HAS SATISFACTORILY DEMONSTRATED THE NECESSARY KNOWLEDGE AND SKILLS TO PERFORM THIS JOB/WORK ASSIGNMENT IN A SAFE, EFFICIENT AND EFFECTIVE MANNER DURING NORMAL AND EMERGENCY/ABNORMAL CONDITIONS ACCORDING TO ESTABLISHED PROCEDURES/PRACTICES.)

RECERTIFICATION:

(EMPLOYEE'S AND EVALUATOR'S SIGNATURE SIGNIFIES THE EMPLOYEE HAS SATISFACTORILY DEMONSTRATED CONTINUED PROFICIENCY IN THE SAFE, EFFICIENT PERFORMANCE OF THIS JOB/WORK ASSIGNMENT, AND CONTINUES TO DISPLAY THE NECESSARY KNOWLEDGE AND SKILLS TO OPERATE IN A SAFE, EFFICIENT AND EFFECTIVE MANNER DURING NORMAL AND EMERGENCY/ABNORMAL CONDITIONS ACCORDING TO ESTABLISHED PROCEDURES/PRACTICES.)

TANK FARM ROUTINES
Course No. 0662

OJT/DEMONSTRATION CHECKLIST No.051787

SECTION III - TRANSFER AND ROUTING SYSTEMS

NAME: _____ PAYROLL NO.: _____
(Print Name)

(Check one) CERTIFICATION: _____ RECERTIFICATION: _____

INSTRUCTOR CODE: P = PERFORM, S = SIMULATE, D = DISCUSS/DESCRIBE

ACTIVITY	INST CODE	REFERENCE DOCUMENT	INSTRUCTOR'S INIT/DATE	TRNG CODE
A. <u>TRANSFER EQUIPMENT</u>				
1. Diversion Boxes				
a. West Area - locate and identify the following: -151-U -154-TX -155-TX -154-UX -151-S	P	FDM-T-020-00002, 3.2		7
b. East Area - locate and identify the following: -151-ER -151-A -152-A -Vent Station (151-EW) -Hot Semi Works	P	FDM-T-020-00002, 3.2		7
2. Transfer Boxes				
a. Locate and identify: -152-AZ Sluice Transfer Box	P	FDM-T-020-00002, 3.4		7

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ACTIVITY	INST CODE	REFERENCE DOCUMENT	INSTRUCTOR'S INIT/DATE	TRNG CODE
3. Diverter Stations				
a. Locate and Identify:				
-152-AX	P	TO-200-350 FDM-T-020-00002, 3.3	_____	7
4. Catch Tanks/Catch Stations/ Lift Stations				
a. West Area - locate and identify the following:				
-S-302 -S-302-A -TX-302-C -TX-302-B -U-301-B -UX-302-A -141-S -142-S -216-S-25 -216-U-14 -244-S -244-TX	P	FDM-T-020-00002, 3.5/6	_____	7
b. East Area - locate and identify the following:				
-A-302-A -A-302-B -311-ER -Vent Station -151-AZ -154-AZ -241-CX-T70 -244-BX -244-A (Lift station)	P	FDM-T-020-00002, 3.5/6	_____	7

TANK FARM ROUTINES

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ACTIVITY	INST CODE	REFERENCE DOCUMENT	INSTRUCTOR'S INIT/DATE	TRNG CODE
5. Receiver Vaults				
a. Locate and identify:				
-244-AR -244-CR	P	FDM-T-020-00002, 3.7		7
6. Valve Pits				
a. Locate and identify:				
-241-A-A and 241-A-B -241-AN-A and 241-AN-B -241-AW-A and 241-AW-B -241-AX-A and 241-AX-B -241-AP -241-SY-A and 241-SY-B	P	FDM-T-020-00002, 3.9		7
7. Flush Pits				
a. Locate and identify the flush pit in each transfer facility	P	FDM-T-020-00002, 2.3		7
8. Drain Pits				
a. Locate and identify the drain pit in each transfer facility	P	FDM-T-020-00002, 2.3		7
9. Pump Pits/Pump Control Stations				
a. Locate and identify the pump pits/pump control stations in each transfer facility	P	FDM-T-020-00002, 2.3		7

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10. Transfer Lines				
a. Heat Trace Operations in AN And AW Tank Farms -identify the lines that are heat trace equipped -identify heat trace equipment -setpoint indications -locate heat trace controllers -data collection -alarm response	P	FDM-T-020-00002, 2.3		2,6,7
b. Operate 241-AP SN/SL Heat Trace Control System -identify system equipment o microprocessor o temperature detectors o LED display o 16-button keyboard -change/display parameters o security access codes o set point codes o high/low alarms o circuit enable/disable -display temperature and alarms o system alarms o circuit alarms o loss of power LED				

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ACTIVITY	INST CODE	REFERENCE DOCUMENT	INSTRUCTOR'S INIT/DATE	TRNG CODE
<ul style="list-style-type: none"> o CPU fail LED o Data fail LED o battery LED 	P	T0-270-045		2
<ul style="list-style-type: none"> c. Leak Checking Waste Transfer Lines 	P	T0-140-010		2
B. <u>ROUTING CHANGES</u>				
1. Routing Boards				
<ul style="list-style-type: none"> a. location(s) b. function(s) c. identify individual lines d. locate and recognize associated equipment e. recognizing and defining key symbols on routing board f. compare routing board with routine transfer SOPs (in section 3)* * record data on page 10. 	P	T0-020-520		7
2. Route Verification System				
<ul style="list-style-type: none"> a. Operate 241-AP VPMDS <ul style="list-style-type: none"> -identify system equipment -system color codes -menu functions -start/restart operations -shutdown operations -completion of VPMDS orientation checklist -respond to VPMDS alarms 	D	T0-270-041		6,7
	P	#0633		6,7
	P	T0-270-041		2

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<p>C. <u>DATA COLLECTION, SYSTEM CHECKS AND SURVEILLANCE</u></p>				
<p>1. Material Balance/Material Balance Discrepancy Calculations</p> <p>a. Calculate material balances/material balance discrepancies</p> <p>b. Accurately record required data on data sheets*</p> <p>* record data on page 10.</p> <p>c. correctly apply formulas for MB/MBD calculation used on specific transfer data sheets (sect. 3)</p>	P	TO-025-001		7
<p>D. <u>TRANSFER PROCEDURES</u></p>				
<p>1. General Procedures</p> <p>a. Preliminary requirements</p> <ul style="list-style-type: none"> -verification of transfer route -verification of material contents -status shipping/receiving tanks -verify equipment operation -personnel notifications -correct valving techniques 	P	TO-025-001		6,7

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ACTIVITY	INST CODE	REFERENCE DOCUMENT	INSTRUCTOR'S INIT/DATE	TRNG CODE
b. Pre-Startup -tank/catch tank monitoring requirements -establish/verify transfer route -QC requirements -tank temperature requirements during transfer -data collection required	P	T0-025-001		7
c. Transfer -lock and tag requirements -pump lubrication -transfer surveillance requirements -material balance requirements -data collection requirements	P	T0-020-044		4
2. Specific Procedures a. Overground Waste Transfers -purpose -transfer limitations -RWP requirements -equipment identification -special requirements -MB/MBD calculations -identify conditions which require shutdown	P	T0-025-001		7
a. Overground Waste Transfers -purpose -transfer limitations -RWP requirements -equipment identification -special requirements -MB/MBD calculations -identify conditions which require shutdown	D	T0-025-030		7

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b. Simultaneous Transfers -correctly identify the type of simultaneous transfer -correctly calculate the MB/MBD per procedure	D	TO-025-030 TO-025-050		7
c. Cross-site Transfers -identify the three types -identify the special requirements of each -use dilution logic chart -allowable limits of related catch tanks -bypass timer/master shut-down system -associated alarms -data collection -alarm response	P	TO-025-001 TO-025-090		7
3. Routine Transfer SOPs				
a. PUREX transfers -F18 to TK-104-AW -E5 to TK-105-AW -G8/R8 to TK-104-AW -U3/U4 to TK-104-AW -F16 to Tanks 101-AZ, 102-AZ, 101-AY or 102-AY	D	see spec. SOPs		6
b. B-Plant Transfers -25-1 (CPLX) to TK-101-AY -25-1 (CPLX) to TK-102-AY	D	TO-250-450 TO-250-645		6

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c. 204-AR Transfers				
-204-AR to 102-AW	D	T0-230-093		
-204-AR to 104-AP	D	T0-270-016		6
d. T-Plant Transfers	D	T0-410-853		6
e. U-Plant Transfers	D	T0-410-855		6
f. Z-Plant Transfers	D	T0-470-962		6
g. 219-S Tank (Lab) to 244-S	D	T0-410-850		6
h. 242-S TK-C-100 to 103 SY	D	T0-750-020		6
i. Double-Contained Receiver Tank (DCRT) Transfers				
-244-S to TK-102-SY		T0-430-352		
-244-TX to TK-102-SY	D	T0-430-480		6
j. Catch Tank Transfers				
-A-417 to 102-AY		T0-200-150		
-AX-152 to 102-AZ		T0-200-350		
-AZ-151 to 101-AZ/102-AZ	D	T0-260-500		6
k. A-401 to TK-101-AN or A-417 Catch Tank	D	T0-200-460		6

TANK FARM ROUTINES

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Record below all requested data for SOPs used to complete sections B.1.f., C.1.a, C.1.b and C.1.c.

SECTION NUMBER	PAGE # NUMBER	PROCEDURE USED	PERFORMANCE LEVEL	DATE	EVALUATOR'S INITIALS
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THIS COMPLETES SECTION III - TRANSFER AND ROUTING SYSTEMS.

EMPLOYEE'S SIGNATURE: _____ DATE: _____

EVALUATOR'S SIGNATURE: _____ DATE: _____

MANAGER'S SIGNATURE: _____ DATE: _____

CERTIFICATION:

(EMPLOYEE'S AND EVALUATOR'S SIGNATURE SIGNIFIES THE EMPLOYEE HAS SATISFACTORILY DEMONSTRATED THE NECESSARY KNOWLEDGE AND SKILLS TO PERFORM THIS JOB/WORK ASSIGNMENT IN A SAFE, EFFICIENT AND EFFECTIVE MANNER DURING NORMAL AND EMERGENCY/ABNORMAL CONDITIONS ACCORDING TO ESTABLISHED PROCEDURES/PRACTICES.)

RECERTIFICATION:

(EMPLOYEE'S AND EVALUATOR'S SIGNATURE SIGNIFIES THE EMPLOYEE HAS SATISFACTORILY DEMONSTRATED CONTINUED PROFICIENCY IN THE SAFE, EFFICIENT PERFORMANCE OF THIS JOB/WORK ASSIGNMENT, AND CONTINUES TO DISPLAY THE KNOWLEDGE AND SKILLS NECESSARY TO OPERATE IN A SAFE, EFFICIENT AND EFFECTIVE MANNER DURING NORMAL AND EMERGENCY/ABNORMAL CONDITIONS ACCORDING TO ESTABLISHED PROCEDURES/PRACTICES.)