

DUPLICATE

MM 354 11-4-02

 * UNIT 1 *
 Resp Group: OPS
 Equipment: O-RF-240
 Equip Nm: T-24A SOUTH CONDENSATE STORAGE TANK INSPECTION
 Physical Location: OPS
 Serial Number:
 Callup Description:
 SOUTH CONDENSATE STORAGE TANK INSPECTION - SEE TEXT.

PBNP *****
 Callup * UNIT 1 *
 HEADER PAGE *****
 System: CS
 Freq: ZM2
 Callup Type: PM

WO No: 0213474
 Callup: OT
 Need Date: 04/01/04
 HP Zone:

Outage ID: UIR 354 11-4-02 Activity:

Job Type: PREVENTIVE MAINTENANCE ACTIVITY
Work Function: INSPECTION

=====
 QA: N SEIS: 3 Operability Pre-Test: N Procedures:
 SR: N LCO: N
 EQ: N PMT: Operability Post-Test: N Procedures:
 SSA: N CIV: N MRULE: N
 A/P: P CACC:
 RRN:
 QA Codes: Sect XI Class: Tech Spec Ref:
 Tools Needed:

=====
 Plant Conditions: REFUELING ANY 354 11-4-02 Ignition Control Permit: N
 Other Conditions: Transient Combustible Permit: N
 Fire Barrier Penetration Permit: N Scaffolding: Heat Trace: RWP: N
 IS SCREENING FOR 10 CFR 50.59 OR 72.48 REQUIRED ACCORDANCE WITH NP 10.3.1?
 YES X NO. IF YES ATTACH APPLICABLE PORTIONS OF FORM PBF-1515.
 Equipment Isolation Required: N Y O CS T-24A REV0-1 FME: Y
 ISO Tag Series #1: ISO Tag #2: ISO Tag #3:

Operability Pre-Test Complete. Equipment Isolation as requested.
 Permission granted to perform work.
 Ops DSS Notification Req: N Y Ops DSS Signature: [Signature] Date: 11/7/02
 Special Notification: 11-4-02

Previous Callup Comments:

Number of Steps: 001
 Acct #: -
 MFG Code: Tech Manual Cntl #:

=====
 * WORK ORDER CLOSEOUT *
 Next Task Instructions:

=====
 Group Head Signature: _____ Date: __/__/__
 =====

A/309

DUPLICATE

MM 6 JV 11-4-02 *****
* UNIT 1 *

PBNP *****

WC No: 0213474001

Resp Group: QP5 ***** STEP DETAIL ***** Callup: OT
Equipment: O-RF-240 System: CS HP Zone:
Equipment Name: T-24A SOUTH CONDENSATE STORAGE TANK INSPECTION
Physical Location: OPS Callup Type: PM
Sequence No: 001

Short Desc: SOUTH CONDENSATE STORAGE TANK Sched Start Date:

PLANNED:

WORK PROCEDURES:

Crew: 5
Shift: 6
Class: 521 522 410 6 JV 11-4-02

NP 8.4.10
RF-240

Work Plan Description:
SOUTH CONDENSATE STORAGE TANK INSPECTION - SEE TEXT.

WORK PERFORMED:

MTE: _____ QAR: _____

ACTUAL USED: CREW: _____
SHIFT: _____
WORKER CLASS: _____
NUMBER OF WORKERS: _____
TOTAL HOURS: _____
TTL EXPOSURE/STEP (MREM): _____

PARTS USED LIST ATTACHED: Y / N

WO TAGS REMOVED: Y / N / NA WORK COMPLETE DATE: ___/___/___
EMPLOYEE NUMBER: i i i i i i i i EMPLOYEE NAME: _____

* WORK COMPLETED *

Cause Failure Code: PM / SVC / NRM / _____
As Found-Out of Spec: Y / N / NA Machine History Review Required: Y / N

Failed Component: _____
Corrective Action: NA/RP/RE/_____ Downtime: _____ hrs
LINE SUPERVISOR: i i i i i i i i NAME: _____ DATE: ___/___/___

* EQUIPMENT RETURN TO SERVICE *

Operability Post Testing: _____

Operability Procs Performed
NON OPS SUPV: i i i i i i i i NAME: _____ DATE: ___/___/___
DSS: i i i i i i i i NAME: _____ DATE: ___/___/___

DUPLICATE ^{BTV 11-4-02} ***** PBNP ***** WO No: 0213474
 WO Priority: 4 ^{mm} * UNIT 1 * MWO * UNIT 1 *
 Resp Group: OPS ***** TEXT DETAIL ***** Step Print: 11/04/02
 Equipment: O-RF-240 System: CS HP Zone:
 Equipment Name: T-24A SOUTH CONDENSATE STORAGE TANK INSPECTION
 Physical Location: OPS Discovery Date:

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T-24A CST TANK INSPECTION
 NOTE: CALLUP TO BE PERFORMED EVERY 5 YEARS BEGINNING IN 1989; *or as necessary.*
BTV 11-4-02

1. ISOLATE AND DANGER TAG T-24A.
2. DRAIN REMAINING VOLUME OF TANK CONTENTS TO THE U1 TURBINE BUILDING SUMP.
3. ESTABLISH AN FME BOUNDARY AROUND THE TANK MANWAY AREA.
4. REMOVE THE TANK LOWER MANWAY.
5. CHECK FOR SAFE TANK ATMOSPHERE PER NP 1.9.4 "CONFINED SPACE PROCEDURE". *SIAT - Released to Non-Permit status. BTV 11-4-02*

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6. INSTALL BLOWER FORCED VENTILATION, IF NECESSARY, *for comfort. BTV 11-4-02*
7. ~~FOR EACH PERSON ENTERING TANK, ENSURE THAT A "FALL PROTECTION HARNESS" IS USED WITH A RETRIEVAL LINE ATTACHED.~~ *Not required since the tank is released as Non-Permit status. BTV 11-4-02*
8. UTILIZE GENERAL FME PRACTICES PER NP 8.4.10 "FOREIGN MATERIALS EXCLUSION PROCEDURE".
- 8a. *Inspect tank with ENG prior to any debris removal. BTV 11-4-02*
9. REMOVE AND IDENTIFY ANY DEBRIS FOUND IN TANK.
10. WIPE UP BOTTOM OF TANK IF NECESSARY PER SYSTEM ENGINEER DIRECTION.
11. INSPECT TANK LINER FOR RUST/PITTING/POSSIBLE NEED FOR TANK REPAIRS.
12. INITIATE WORK ORDERS FOR ANY TANK REPAIRS THAT MAY BE NEEDED.

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13. PERFORM VISUAL CLOSEOUT INSPECTION OF THE CST AFTER ALL WORK IN THE TANK IS COMPLETE.
14. INSTALL TANK MANWAY. SKILL OF THE CRAFT TIGHTENING IS SUFFICIENT FOR THE RUBBER GASKET. 50 FT/LBS IS THE MAXIMUM TORQUE VALUE.
15. DOCUMENT INSPECTION RESULTS IN THE WORK PERFORMED SECTION OF THE TASK SHEET.
16. REMOVE AND STORE FME BOUNDARY EQUIPMENT, VENTILATION BLOWER AND TOOLS.
17. REMOVE DANGER TAGS AND RESTORE TANK TO SERVICE AFTER ALL TANK WORK IS COMPLETE.

WO 0213474

T-24A CONDENSATE STORAGE TANK INSPECTION PLAN

Materials needed Camera, Numerous sample bags or bottles with ID tags. Pen to mark samples, tape measure. filter sock note pad to document dimensions and other findings.

Take pictures of tank, any debris or corrosion prior to disturbing or collecting samples. Note initial findings in tank.

Inspect bottom of tank for loose debris. Note location of debris (map). Evaluate if debris is stuck in slime layer or loose. Collect and save if possible all loose debris so amount can be quantified. Distinguish and Separate neutrally buoyant from non-buoyant material

Inspect bottom of tank for ongoing corrosion/pitting and note locations. Evaluate whether corrosion is loose (Flaking) and can easily be removed. Obtain samples of any corrosion products which can be easily removed.

Note any film on the bottom of the tank and obtain sample.

Inspect the sides of the tank for corrosion. Determine if corrosion easily flakes off. Obtain samples of corrosion only if it can be easily removed (no scraping or grinding), using care to determine and save size of flakes. Note location of the corrosion above or below the suction pipe.

Look for any paint/liner that is chipping. Determine if paint is loose and could be removed. Collect samples of any easily removable loose paint. Remove to keep samples in the size that would flake off. Note location of the loose paint, above or below suction pipe.

Inspect down into the pump suction pipe if possible. Note any corrosion or debris in the suction pipe. Collect samples from suction pipe.

Inspect all pipe nozzles, check for coating condition and corrosion. Obtain samples of any loose material.

Take pictures of pump suction line area where it enters the tank. Measure the deflector/anti-Vortex Baffle and any pertinent information to be used to determine the likelihood of drawing debris from the bottom of the tank.

Insure a fresh sock is installed on the drainpipe.

Notify Maintenance to clean/flush the bottom of the tank to the drain.

Evaluate the results of the inspection.
