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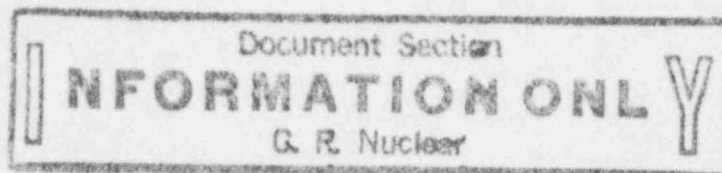
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Rev. 5

Effective Date 2/16/95



OPERATING PROCEDURE

OP-407D

FLORIDA POWER CORPORATION

CRYSTAL RIVER UNIT 3

OPERATION OF THE MISCELLANEOUS WASTE STORAGE TANK

THIS PROCEDURE ADDRESSES SAFETY RELATED COMPONENTS

APPROVED BY: Interpretation Contact

LO Fields
(SIGNATURE ON FILE)

DATE: 2/15/95

INTERPRETATION CONTACT: Supervisor, Nuclear Operations
Administrative Shift

"IMMEDIATE ISSUE" NOTIFICATION

Procedure Number: OP407D

Current Revision: 5

Effective Date: 3/1/96

PRR #: 11281

Proc #: OP0407D

PRR #: 11281

REV #:05

DESCRIPTION OF NEW PROCEDURE OR CHANGE (Detailed)

See Enclosure 2, Attachment 1

REASON AND REFERENCES FOR PROCEDURE CHANGE

See Enclosure 2, Attachment 1

Check as Appropriate:

Reference #:

- | | | |
|---|---|---|
| <input type="checkbox"/> Modification | <input type="checkbox"/> FCN | <input type="checkbox"/> Other Design
Related Item |
| <input type="checkbox"/> Problem Report | <input type="checkbox"/> Precursor Card | <input type="checkbox"/> NRC Violation |
| <input type="checkbox"/> ITS Amendment | <input type="checkbox"/> ITS Bases Change | <input type="checkbox"/> FSAR Change |

PROCEDURE DESCRIPTION, REASONS, AND REFERENCES

ENCLOSURE 2
(ATTACHMENT 1)

Proc #: OP0407D

PRR #: 11281

REV #: 05

1. Description of new procedure or change:

Coversheet - remove statement pertaining to safety related equipment.
- Change the title of the Interpretation Contact.

Reason and references for procedure change:

The statement for safety related equipment is no longer required . NOCS commitment 40027 which pertained to the statement has been deleted.

The title of the Interpretation Contact has changed due to department reorganization.

2. Description of new procedure or change:

Added four new sections to the table of contents.

Reason and references for procedure change:

The new sections were written to move the water from the MWST to the CWSTs and the CBASTs for storage of highly contaminated water. This will provide storage for the water to allow for decay before releasing.

3. Description of new procedure or change:

Four new sections were added to this procedure. Each section is written to transfer water to a specific tank.

Reason and references for procedure change:

The flow path provided by this procedure will reduce the time required for transferring water from the MWST to the CWSTs and the CBASTs. The original flow path used transferred water from the MWST to the Evaporator. Then the water was transferred from the Evaporator to the desired tank. This flow path will be directly from the MWST to the desired tank. This flow path will use a hose connecting two flanges in the yellow room to create the desired flow path.

ORIGINATOR COMMENTS

PRR # 11281

Procedure: OP0407D

Rev#: 05

Originator: Frank Dola

=====

Comments:

ORIGINATOR'S CHECKLIST

ENCLOSURE 1

Procedure #: OP0407D Current Rev #: 05 PRR #: 11281

Title: OPERATION OF THE MISCELLANEOUS WASTE STORAGE TANK

	YES	N/A
1. Obtain the current revision of the procedure from Document Control or electronically. For temporary procedure changes, the working copy may be used.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Obtain PRR#, new procedure#, or temporary procedure change (TPC)# from Document Control or electronically. For work instructions, use a work request number or use another identifying number.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Write a new procedure, work instruction, or mark the pages applicable to any changes by using red ink or electronic red line/strikeout methods. For procedures, use the appropriate procedure format in AI-402B, Procedure Writing (Except for EOP/AP/VP).	<input checked="" type="checkbox"/>	<input type="checkbox"/>
*4. Attach changed pages to the cover page of the procedure. Other pages may be attached so the continuity of the changes will be understood by persons performing further reviews. For new procedures or work instructions, all pages are included.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Complete Enclosure 2, Procedure Description, Reasons, and References.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
*6. Obtain the Procedure Review Package (PRP) from Nuclear Licensing or electronically. For work instructions or new procedures, contact Nuclear Licensing for any related commitments associated with the work instructions or new procedures.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
a. Complete the Procedure Cross Reference sheet.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Ensure the NOCS commitments remain satisfied.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1. Change the implementing references of the commitments as necessary.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7. Complete Enclosure 3, Screening for Applicability of 10 CFR 50.59.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
*8. IF a 10 CFR 50.59 Evaluation is required, as determined by the completion of Enclosure 3, Screening for Applicability of 10 CFR 50.59, THEN complete Enclosure 4, 10 CFR 50.59 Evaluation.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
*9. Complete Enclosure 6, 10 CFR 50.54 Evaluation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
*10. IF this can affect plant safety, the core, reactivity control, the Reactor Protection System, the engineered safeguards systems, or the plant design basis, THEN complete and comply with Enclosure 7, Infrequently Performed Test or Evolution Checklist.	<input type="checkbox"/>	<input checked="" type="checkbox"/>

* These steps should not be performed and the YES or N/A blanks should not be checked for a temporary procedure change. These steps are required to be performed and checked YES or N/A at a later time if the temporary change is to become permanent.

ORIGINATOR'S CHECKLIST

ENCLOSURE 1

Procedure #: OP0407D

Current
Rev #: 05

PRR #: 11281

Title: OPERATION OF THE MISCELLANEOUS WASTE STORAGE TANK
or Evolution Checklist.

	YES	N/A
*11. IF any plant equipment tag numbers are being added to or deleted from this procedure, THEN complete and mail Enclosure 8, CMIS Database Update Request Form, to the Manager Nuclear Configuration Management.	* <input checked="" type="checkbox"/>	* <input type="checkbox"/>
*12. Complete Enclosure 9, Notification of New/Revised Procedure (NORP) by determining which Nuclear Operations departments need to be notified of the new procedure/permanent procedure change.	* <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
*13. IF this is a SP, new procedure, or an infrequently performed test or evolution, THEN complete and attach Enclosure 23, Procedure Review Checklist of AI-402B, Procedure Writing (Except for EOP/AP/VP).	* <input type="checkbox"/>	* <input checked="" type="checkbox"/>
14. Ensure that correction techniques such as "white out," correction tape, paste overs, or similar techniques have not been used.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
*15. Internal references to data sheets, enclosures, other sections of the procedure, etc., have been verified to be correct.	* <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
*16. Ensure that Non-Quality documents are identified as "Optional Records Non-Quality" within the procedure as per AI-1100, Retention of Plant Operating Records.	* <input type="checkbox"/>	* <input checked="" type="checkbox"/>
*17 Forward the original or copies of this document and supporting enclosures to Qualified Reviewers, as determined from below, using Enclosure 10, Qualified Review/Technical Review.	* <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
a. A Qualified Review, independent of the originator, is required by the department that the procedure's Interpretation Contact is a member of.	* <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
b. IF interfacing departments' actions or procedures will be impacted, THEN the interfacing departments must perform a Qualified Review.	* <input checked="" type="checkbox"/>	* <input type="checkbox"/>
c. IF any item on Enclosure 11, Guidelines for Identification of Design Changes, is applicable, THEN Nuclear Engineering Design must perform a Qualified Review.	* <input checked="" type="checkbox"/>	* <input type="checkbox"/>
d. Nuclear Quality Control must be a Qualified Review for FPs, MPs, PMs, PTs, SPs, WP-101, and WP-102 that contain changes to or additions of inspection points to ensure inspection points are appropriate.	* <input type="checkbox"/>	* <input checked="" type="checkbox"/>

* These steps should not be performed and the YES or N/A blanks should not be checked for a temporary procedure change. These steps are required to be performed and checked YES or N/A at a later time if the temporary change is to become permanent.

ORIGINATOR'S CHECKLIST

ENCLOSURE 1

Procedure #: OP0407D

Current
Rev #: 05

PRR #: 11281

Title: OPERATION OF THE MISCELLANEOUS WASTE STORAGE TANK

*17. Qualified Review (continued)

YES N/A

e. IF this:

* ☐ * ☒

1. Involves a change to an established scheduled performance of a procedure as listed in SP-443, Master Surveillance Plan,
OR

2. Is related to a change to the Improved Technical Specification (ITS) or the ITS bases,
THEN the Senior Nuclear Scheduling Coordinator responsible for surveillance scheduling must be a Technical Reviewer.

NOTE: EQ equipment is designated in CMIS as QQ.

* ☐ * ☒

- f. IF this involves repair, replacement, or alteration of EQ equipment,
THEN a Qualified Review is required by Nuclear Configuration Management, EQ Group.

1. IF this procedure involves repair, replacement, or alteration of EQ equipment,
THEN the cover page of the procedure must be designated "Environmentally Qualified Related."

* ☐ * ☒

*18. Ensure Qualified Reviews are completed and any comments have been addressed.

* ☒ ☒

19. IF this is a temporary procedure change,
THEN complete Enclosure 12, Authorization of a Temporary Procedure Change.

☐ ☒

*20. Forward this enclosure and the preceding package of documentation, as applicable, to the Interpretation Contact for approval of Enclosure 13, Interpretation Contact's Checklist.

* ☒ ☒

I have completed this checklist, as applicable, and all appropriate YES or N/A blanks are completed.

Frank Dala
Originator

3-1-96
Date

* These steps should not be performed and the YES or N/A blanks should not be checked for a temporary procedure change. These steps are required to be performed and checked YES or N/A at a later time if the temporary change is to become permanent.

Screening for Applicability of 10 CFR 50.59

ENCLOSURE 3

Procedure #: OP0407D

PRR #: 11281

REV#: 05

YES NO

1. Is this a change to the facility as described in the FSAR? (Use NOD-11, Preparation of Safety, Regulatory, and Environmental Compliance Reviews-Attachment A, as guidance to adequately answer this question).

☐ ☒

BECAUSE: (Explain your answer and list FSAR sections reviewed)

The changes made to OP-407D will not change any evaluations made in the FSAR. Four new sections have been added to this procedure to allow for the temporary storage of contaminated liquid to decay prior to release to the discharge canal. These sections move water from the Miscellaneous Waste Storage Tank (MWST, WDT-4) to the Concentrated Waste Storage Tanks (CWST, WDT-7A/B) and the Concentrated Boric Acid Storage Tanks (CBAST WDT-8A/B). These evolutions have been performed in the past by pumping the MWST to the Evaporator Feedtanks and then pumping the Evaporator Feedtanks to the CBASTs and CWSTs. The instructions provided by this procedure will not require the use of the abandon Evaporators. The lineup will require the use of a temporary hose in the yellow room similar to the one presently used for processing the MWST through the NUS Demins. The hose will connect the downstream side of the MWST to a header which can be aligned to direct flow to the CBASTs or the CWSTs as needed. The flanges used for this connection already exist on the piping. There will be no need to modify any plant equipment for the use of the new sections being added to this procedure. The hose to connect the systems will be installed by Maintenance. The use of the hose will not affect any evaluations made in the FSAR. The hose will connect two nonsafety related systems which are not required for the safe shutdown of this plant. FSAR sections reviewed: 4.2, 9.2, 9.4, 9.5, 11.2, 11.4, 11.5, 11.6 and 11.14

2. Does this affect or change the Improved Technical Specifications or their bases? (If yes, contact the Manager, Nuclear Licensing before proceeding)

☐ ☒

BECAUSE: (Explain your answer and list Improved Technical Specifications reviewed)

The changes made to OP-407D will not affect or require the change to any Technical Specifications. Nor will these changes affect the ODCM. The changes made to this procedure do not release any radioactive liquid to the environment. The changes allow for storage of liquid to allow the liquid to decay prior to being released. Technical Specifications reviewed: 5.0 and the ODCM.

3. Is this a change to the ODCM?

☐ ☒

4. A yes answer to any question above requires completion of Enclosure 4, 10 CFR 50.59 Evaluation and PRC/DNPO reviews prior to implementation. Are these required?

☐ ☒

5. Can this potentially reduce the level of safety of the plant? (If yes, provide contingency actions AND PRC/DNPO reviews are required prior to implementation)

☐ ☒

BECAUSE: (Support Yes or No answers here)

The changes made to this procedure do not affect any systems required for accident mitigation. The changes provide a flow path from the MWST to the CBASTs and the CWSTs. If a failure were to occur in any

Screening for Applicability of 10 CFR 50.59

ENCLOSURE 3

Procedure #: OP0407D

PRR #: 11281

REV#: 05

associated equipment used for this evolution, the safety of the plant would not be jeopardized.

6. Review Enclosure 5, Examples of Events Which Impact Plant Operations. Can this possibly lead to an event that would impact plant operation? (If yes, provide contingency actions AND PRC/DNPO reviews are required prior to implementation)

☐☒

BECAUSE: (Support Yes or No answers here)

The use of this procedure will not impact plant operations. The normal use of this procedure will not affect any safety related equipment. If a component in the system were to fail it would not jeopardize the operation of the plant. The use of the temporary hose is in a location where other hoses are currently used for transferring liquid. If a leak were to occur the liquid could easily be contained and there are floor drains in the room which go to the Auxiliary Building Sump.

10 CFR 50.54 EVALUATION

ENCLOSURE 6

Procedure #: OP0407D PRR #: 11281 REV #: 05

A. Does this change what is described in any of the following plans/programs?

	YES	NO
Quality Program Description (FSAR Section 1.7)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Licensed Operator Requalification Program (FSAR 12.2.3.4)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Physical Security Plan	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Safeguards Contingency Plan	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Radiological Emergency Response Plan	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Fire Protection Plan	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Offsite Dose Calculation Manual	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Primary Coolant Sources Outside Containment Program	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Post Accident Sampling Program	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Containment Tendon Surveillance Program	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Inservice Inspection Program	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Steam Generator Tube Surveillance Program	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Inservice Testing Program	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Secondary Water Chemistry Program	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Ventilation Filter Testing Program	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Explosive Gas and Storage Tank Radioactivity Monitoring Program	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Diesel Fuel Oil Testing Program	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Safety Function Determination Program	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Improved Technical Specifications Bases Control Program	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Core Operating Limits Report	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Reactor Coolant System Pressure Temperature Limits Report	<input type="checkbox"/>	<input checked="" type="checkbox"/>

IF any of the above are yes,
THEN:

	YES	N/A
o Contact the appropriate person (Attachment E of NOD-11, Preparation of Safety, Regulatory, and Environmental Compliance Reviews) to perform an evaluation and attach. Evaluation Complete and attached:	<input type="checkbox"/>	<input checked="" type="checkbox"/>
o NRC approval received if needed and attached.	<input type="checkbox"/>	<input checked="" type="checkbox"/>

10 CFR 50.54 EVALUATION

ENCLOSURE 6

Procedure #: OP0407D

PRR #: 11281

REV #: 05

B. Environmental Protection Plan Review:

Could this change affect:

YES NO

1. The environment in a non-radiological way?

☐ ☒

2. An increase in licensed power level?

☐ ☒

3. An increase in non-radiological effluents (Volume or chemicals - liquid or gas)?

☐ ☒

4. A change in Circulating or Raw Water flows?

☐ ☒

5. Dredging, filling, or new construction on previously undisturbed areas?

☐ ☒

If yes to any of the above,
THEN contact the Manager, Nuclear Licensing to perform an evaluation
and attach. Evaluation Complete and attached:

YES N/A

☐ ☒C. Review for Change to Radioactive Waste System
(10 CFR 50.34a and Appendix I)

YES NO

Is this a change to a radioactive waste system (liquid, gaseous, or solid)
that could result in an increase of radioactive material released to the
environment?

☐ ☒

NOTE: The following is for reporting evaluation only and is not
part of the approval process for the change.

YES N/A

IF the above is yes,
THEN submit a copy of the change to the Manager, Nuclear Licensing to
evaluate reporting requirements. Submitted:

☐ ☒

NOTIFICATION OF NEW/REVISED PROCEDURE

ENCLOSURE 9

This procedure has been approved and issued for use. It is your responsibility to advise personnel in your organization affected by this new/revise procedure of its contents. Attached is a copy of the Procedure Description, Reasons, and References (Enclosure 2).

Procedure #: OP0407D

PRR #: 11281

REV #: 05

CHECK

- TO: ☐ Manager, Nuclear Radiation Protection
- ☐ Manager, Nuclear Chemistry
- ☒ Manager, Nuclear Plant Operations
- ☐ Manager, Nuclear Configuration Management
- ☐ Manager, Nuclear Plant Technical Support
- ☐ Manager, Nuclear Security
- ☐ Supervisor, Nuclear Document Control
- ☐ Supervisor, Nuclear Records Management
- ☐ Manager, Nuclear Plant Maintenance
- ☐ Manager, Nuclear Quality Assessments
- ☐ Manager, Nuclear Engineering Design
- ☐ Manager, Site Nuclear Services
- ☐ Manager, Radiological Emergency Planning
- ☐ Manager, Nuclear Licensing
- ☒ Procedure Interpretation Contact *G. Webb*
IF this affects most personnel of Nuclear Operations besides your department (for example: AI-413, Fitness for Duty Callout Procedure), THEN notify applicable personnel by describing the new procedure or describing the major changes made to the procedure.
o This can be done using electronic mail (everyone) or other means.

NOTE: For others below, state their name and address

Other:

Other:

Other:

Other:

Qualified Review/Technical Review

Procedure #: OP0407D		PRR #: 11281	REV: 05
QUALIFIED REVIEWERS	Reviewed By	Date	Comments Attached No Comments
<input type="checkbox"/> Nuclear Operations Department			<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> Nuclear Security Department			<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> Nuclear Quality Control			<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> Nuclear Radiation Protection			<input type="checkbox"/> <input type="checkbox"/>
<input checked="" type="checkbox"/> Nuclear Chemistry	<i>J. Payne</i>	2/27/96	<input type="checkbox"/> <input checked="" type="checkbox"/>
<input type="checkbox"/> Nuclear Maintenance Dept.			<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> Nuclear Configuration Management (EQ Group)			<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> Nuclear Engineering Design			<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> Nuclear Plant Technical Support			<input type="checkbox"/> <input type="checkbox"/>
Other:			<input type="checkbox"/> <input type="checkbox"/>
Other:			<input type="checkbox"/> <input type="checkbox"/>
TECHNICAL REVIEW			
Other: <i>Chemistry</i>	<i>Peter F. Ezell</i>	2/27/96	<input type="checkbox"/> <input checked="" type="checkbox"/>
Other:			<input type="checkbox"/> <input type="checkbox"/>

Return to: Frank Dola
(Originator)

Qualified Review/Technical Review

Procedure #: OP0407D		PRR #: 11281	REV: 05
QUALIFIED REVIEWERS	Reviewed By	Date	Comments Attached No Comments
<input type="checkbox"/> Nuclear Operations Department			<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> Nuclear Security Department			<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> Nuclear Quality Control			<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> Nuclear Radiation Protection			<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> Nuclear Chemistry			<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> Nuclear Maintenance Dept.			<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> Nuclear Configuration Management (EQ Group)			<input type="checkbox"/> <input type="checkbox"/>
<input checked="" type="checkbox"/> Nuclear Engineering Design	<i>KRCglll</i>	<i>2/29/96</i>	<input checked="" type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> Nuclear Plant Technical Support	<i>Patricia M. Egan</i>	<i>2/29/96</i>	<input checked="" type="checkbox"/> <input type="checkbox"/>
Other:			<input type="checkbox"/> <input type="checkbox"/>
Other:			<input type="checkbox"/> <input type="checkbox"/>
TECHNICAL REVIEW			
Other:			<input type="checkbox"/> <input type="checkbox"/>
Other:			<input type="checkbox"/> <input type="checkbox"/>

Return to: Frank Dola
(Originator)

* See attached Text
15 Questions / Comments

CONSENT RESOLVED
WITH K. CAMPBELL. FB

PER TELECON ON 3-1-96

Comments resolved Egan
2/29/96

Qualified Review/Technical Review

Procedure #: OP0407D		PRR #: 11281	REV: 05	
QUALIFIED REVIEWERS	Reviewed By	Date	Comments Attached	No Comments
<input checked="" type="checkbox"/> Nuclear Operations Department	<i>Michael A. Winsky</i>	<i>2/27/96</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Nuclear Security Department			<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Nuclear Quality Control			<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Nuclear Radiation Protection			<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Nuclear Chemistry			<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Nuclear Maintenance Dept.			<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Nuclear Configuration Management (EQ Group)			<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Nuclear Engineering Design			<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Nuclear Plant Technical Support			<input type="checkbox"/>	<input type="checkbox"/>
Other:			<input type="checkbox"/>	<input type="checkbox"/>
Other:			<input type="checkbox"/>	<input type="checkbox"/>
TECHNICAL REVIEW				
Other:			<input type="checkbox"/>	<input type="checkbox"/>
Other:			<input type="checkbox"/>	<input type="checkbox"/>

Return to: Frank Dola
(Originator)

COMMENT Resolved m/ 2-27-96

INTERPRETATION CONTACT'S CHECKLIST

ENCLOSURE 13

Procedure #: OP0407D Rev #: 05 PRR #: 11281

- | | YES | N/A |
|---|-------------------------------------|-------------------------------------|
| 1. Originator's Checklist, Enclosure 1, is adequately completed. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. IF this is a new SP, a procedure that has received a major technical rewrite, or a procedure identified as an infrequent test or evolution, THEN ensure a simulation, walk through (no manipulation of plant equipment), table talk, or comparison validation has been performed before the procedure is approved by the Interpretation Contact. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. IF this is a new SP, or is an SP that has received a major technical rewrite, THEN notify the Senior Nuclear Scheduling Coordinator responsible for surveillance scheduling that the procedure must be walk through validated with an end-user on the next scheduled performance after the procedure is issued. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4. IF this is an OP that involves component positioning changes (valves, breakers, dampers, etc.), THEN ensure adequate administrative controls are in place to control the component positions. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. IF the Procedure Cross Reference sheet had any questions answered yes, THEN forward the Procedure Cross Reference sheet to Records Management. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6. IF any commitments of the NOCS have any changes to the implementation section, THEN forward the applicable commitments to Nuclear Licensing. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 7. IF inspection planning is required per CP-113C, Inspection Planning, THEN ensure inspection planning methods are incorporated within this procedure or work instruction. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

INTERPRETATION CONTACT'S CHECKLIST

ENCLOSURE 13

Procedure #: OP0407D Rev #: 05 PRR #: 11281

NOTE: The Interpretation Contacts can send any item to the PRC to review prior to implementation, especially if the Interpretation Contact has a plant operation or safety concern.

1. Check ONE of the following:

- ☒ All questions of Enclosure 3, Screening for Applicability of 10 CFR 50.59 are answered "No." PRC or DNPO review is not required, procedure can be issued. I am forwarding all applicable completed enclosures to Document Control.
- ☐ Any question of Enclosure 3, Screening for Applicability of 10 CFR 50.59, was answered "Yes" or the Interpretation contact desires a PRC and DNPO review. PRC or DNPO review is required prior to implementation. I am forwarding all applicable completed enclosures to the PRC.

2. Complete ALL of the following ONLY for temporary procedure changes to become permanent:

- ☐ Obtain PRR# from Document Control or electronically. PRR#
- ☐ The activities as designated on Enclosure 1, Originator's Checklist, including those on Enclosure 1 with an asterisk, have been completed and are attached.
- ☐ I am forwarding the applicable completed enclosures to Document Control for issuance of this temporary procedure change as a permanent procedure revision.

This and other applicable enclosures have been properly completed and are being forwarded as stated above.

Samuel Hebe
Interpretation Contact

3/1/96
Date

PRC and DNPO Review*

--	--	--

PRC Chairman

Date

PRC Mtg No.

DNPO

Date

* If required

Rev. 5

Effective Date 02/16/95

OPERATING PROCEDURE

OP-407D

FLORIDA POWER CORPORATION

CRYSTAL RIVER UNIT 3

OPERATION OF THE MISCELLANEOUS WASTE STORAGE TANK

~~THIS PROCEDURE ADDRESSES SAFETY RELATED COMPONENTS~~

APPROVED BY: Interpretation Contact

(SIGNATURE ON FILE)

DATE: _____

INTERPRETATION CONTACT: ~~Supervisor, Nuclear Operations~~
~~Administrative Shift~~ Manager, Nuclear Operations Support

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1.0 PURPOSE

- 1.1 The purpose of this procedure is to control the disposition of liquid contained in the MWST.

2.0 REFERENCES

2.1 IMPLEMENTING REFERENCES

None

2.2 DEVELOPMENTAL REFERENCES

2.2.1 FD-302-681, Liquid Waste Disposal Spent Resin Transfer System

3.0 PERSONNEL INDOCTRINATION

DESCRIPTION	VALUE
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3.1 SETPOINTS

None

3.2 LIMITS AND PRECAUTIONS

LIMIT	BASIS
3.2.1 For Work located in Radiation Controlled Areas, due consideration must be given to the ALARA program	Personnel Protection

4.0 INSTRUCTIONS

ACTIONS

DETAILS

4.1 MWST PRE-FILTER OPERATION

- 4.1.1 IF desired to align MWST Influent thru a Prefilter, THEN perform the associated valve lineup, Otherwise NA this step

- o IF WDFL-3A, THEN perform following valve alignment:
 - Close WDV-1004, WDFL-3B Vent Valve
 - Close WDV-1002, WDFL-3B Drain Valve
 - Close WDV-1005, WDFL-3A Drain Valve
 - Close WDV-1007, WDFL-3A Vent Valve
 - Close WDV-996, Filter Bypass
 - Close WDV-999, WDFL-3B Inlet
 - Close WDV-1000, WDFL-3B Outlet
 - Open WDV-997, WDFL-3A Inlet
 - Open WDV-998, WDFL-3A Outlet
- o IF WDFL-3B, THEN perform following valve alignment:
 - Close WDV-1004, WDFL-3B Vent Valve
 - Close WDV-1002, WDFL-3B Drain Valve
 - Close WDV-1005, WDFL-3A Drain Valve
 - Close WDV-1007, WDFL-3A Vent Valve
 - Close WDV-996, Filter Bypass
 - Close WDV-997, WDFL-3A Inlet
 - Close WDV-998, WDFL-3A Outlet
 - Open WDV-999, WDFL-3B Inlet
 - Open WDV-1000, WDFL-3B Outlet

Initial/Date

4.1 MWST PRE-FILTER OPERATION (Cont'd)

ACTIONS	DETAILS
4.1.2 IF desired to bypass MWST pre-filters, THEN perform the associated valve lineup, Otherwise NA this step	o — Open WDV-996, Filter Bypass — Close WDV-997, WDFL-3A Inlet — Close WDV-998, WDFL-3A Outlet — Close WDV-999, WDFL-3B Inlet — Close WDV-1000, WDFL-3B Outlet

Initial/Date

4.2 SYSTEM OPERATION

ACTIONS	DETAILS
4.2.1 IF desired to transfer MWST to Neutralizer Tank via WDP-6A, <u>THEN</u> perform required Valve Alignment Otherwise N/A this step	1. Close the following: — WDV-164, Cation Demin 3A Inlet Isolation — WDV-166, Cation Demin 3B Inlet Isolation — WDV-172, MW Evap Inlet Isolation — WDV-154, RC Evap Inlet Isolation — WDV-680, Nuclear Waste Demins Isolation 2. Open the following: — WDV-155, WDP-6A Suction Valve — WDV-159, WDP-6A Discharge Valve — WDV-129, Neutralizer Tank Inlet Isolation — WDV-157, WDP-6A Recirc Isolation 3. GO TO Step 4.2.9

Initial/Date

4.2 SYSTEM OPERATION (Cont'd)

ACTIONS	DETAILS
4.2.2 IF desired to transfer MWST to Neutralizer Tank via WDP-6B, <u>THEN</u> perform required Valve Alignment Otherwise N/A this step	<ol style="list-style-type: none"> 1. Close the following: <ul style="list-style-type: none"> — WDV-164, Cation Demin 3A Inlet Isolation — WDV-166, Cation Demin 3B Inlet Isolation — WDV-172, MW Evap Inlet Isolation — WDV-154, RC Evap Inlet Isolation — WDV-680, Nuclear Waste Demins Isolation 2. Open the following: <ul style="list-style-type: none"> — WDV-156, WDP-6B Suction Valve — WDV-160, WDP-6B Discharge Valve — WDV-129, Neutralizer Tank Inlet Isolation — WDV-158, WDP-6B Recirc Isolation 3. GO TO Step 4.2.9
	Initial/Date
4.2.3 IF desired to transfer MWST directly to MW Evap via WDP-6A, <u>THEN</u> perform required Valve Alignment Otherwise N/A this step	<ol style="list-style-type: none"> 1. Close the following: <ul style="list-style-type: none"> — WDV-164, Cation Demin 3A Inlet Isolation — WDV-166, Cation Demin 3B Inlet Isolation — WDV-154, RC Evap Inlet Isolation — WDV-680, Nuclear Waste Demins Isolation — WDV-129, Neutralizer Tank Inlet Isolation 2. Open the following: <ul style="list-style-type: none"> — WDV-155, WDP-6A Suction Valve — WDV-159, WDP-6A Discharge Valve — WDV-172, MW Evap Inlet Isolation — WDV-157, WDP-6A Recirc Isolation 3. GO TO Step 4.2.9
	Initial/Date

4.2 SYSTEM OPERATION (Cont'd)

ACTIONS	DETAILS
4.2.4 <u>IF</u> desired to transfer MWST to MW Evap via WDP-6B, <u>THEN</u> perform required Valve Alignment Otherwise N/A this step	<ol style="list-style-type: none">1. Close the following:<ul style="list-style-type: none">— WDV-164, Cation Demin 3A Inlet Isolation— WDV-166, Cation Demin 3B Inlet Isolation— WDV-154, RC Evap Inlet Isolation— WDV-680, Nuclear Waste Demins Isolation— WDV-129, Neutralizer Tank Inlet Isolation2. Open the following:<ul style="list-style-type: none">— WDV-156, WDP-6B Suction Valve— WDV-160, WDP-6B Discharge Valve— WDV-172, MW Evap Inlet Isolation— WDV-158, WDP-6B Recirc Isolation3. GO TO Step 4.2.9

Initial/Date

4.2 SYSTEM OPERATION (Cont'd)

ACTIONS	DETAILS
4.2.5 IF desired to transfer MWST to MW Evap thru Cation "A" Demin via WDP-6A, THEN perform required Valve Alignment Otherwise N/A this step	1. Close the following: <ul style="list-style-type: none"> — WDV-680, Nuclear Waste Demins Isolation — WDV-129, Neutralizer Tank Inlet Isolation — WDV-166, Cation Demin 3B Inlet Isolation — WDV-172, MW Evap Inlet Isolation — WDV-154, RC Evap Inlet Isolation — WDV-44, Cation Demin 3A Inlet Isolation from CBT's — WDV-116, Cation Demin 3A Inlet Isolation from MU System — WDV-107, Cation Demin 3A Drain Valve — WDV-366, Cation Demin 3A Drain Valve — WDV-170, Cation Demin 3A Outlet to MWST — WDV-49, Cation Demin 3A Outlet to RCBT's — WDV-50, Cation Demin 3A Outlet to MU System — WDV-55, Cation Demins Outlet to RC Evap — WDV-58, MW Evap Inlet from RCBT's — WDV-173, MW Evap Inlet from Neutralizer Tank

4.2 SYSTEM OPERATION (Cont'd)

ACTIONS	DETAILS
4.2.5 (Continued)	<p>2. Open the following:</p> <ul style="list-style-type: none">— WDV-155, WDP-6A Suction Valve— WDV-159, WDP-6A Discharge Valve— WDV-164, Cation Demin 3A Inlet Isolation— WDV-57, Cation Demins Outlet to MW Evap— WDV-368, Cation Demin 3A Outlet Isolation— WDV-48, Cation Demin 3A Outlet— WDV-54, Cation Demins Outlet X-tie— WDV-157, WDP-6A Recirc Isolation <p>3. GO TO Step 4.2.9</p>

Initial/Date

4.2 SYSTEM OPERATION (Cont'd)

ACTIONS	DETAIL
<p>4.2.6 <u>IF</u> desired to transfer MWST to MW Evap thru Cation "A" Demin via WDP-6B, <u>THEN</u> perform required Valve Alignment Otherwise N/A this step</p>	<p>1. Close the following:</p> <ul style="list-style-type: none"> — WDV-680, Nuclear Waste Demins Isolation — WDV-129, Neutralizer Tank Inlet Isolation — WDV-166, Cation Demin 3B Inlet Isolation — WDV-172, MW Evap Inlet Isolation — WDV-154, RC Evap Inlet Isolation — WDV-44, Cation Demin 3A Inlet Isolation from RCBT's — WDV-116, Cation Demin 3A Inlet Isolation from MU System — WDV-107, Cation Demin 3A Drain Valve — WDV-366, Cation Demin 3A Drain Valve — WDV-170, Cation Demin 3A Outlet to MWST — WDV-49, Cation Demin 3A Outlet to RCBT's — WDV-50, Cation Demin 3A Outlet to MU System — WDV-55, Cation Demins Outlet to RC Evap — WDV-58, MW Evap Inlet from RCBT's — WDV-173, MW Evap Inlet from Neutralizer Tank

4.2 SYSTEM OPERATION (Cont'd)

ACTIONS	DETAILS
4.2.6 (Continued)	2. Open the following: — WDV-156, WDP-6B Suction Valve — WDV-160, WDP-6B Discharge Valve — WDV-164, Cation Demin 3A Inlet Isolation — WDV-57, Cation Demins Outlet to MW Evap — WDV-368, Cation Demin 3A Outlet Isolation — WDV-48, Cation Demin 3A Outlet — WDV-54, Cation Demins Outlet X-tie — WDV-158, WDP-6B Recirc Isolation 3. GO TO Step 4.2.9

Initial/Date

4.2 SYSTEM OPERATION (Cont'd)

ACTIONS	DETAILS
4.2.7 IF desired to transfer MWST to MW Evap thru Cation "B" Demin via WDP-6A, THEN perform required Valve Alignment Otherwise N/A this step	1. Close the following: <ul style="list-style-type: none">— WDV-680, Nuclear Waste Demins Isolation— WDV-129, Neutralizer Tank Inlet Isolation— WDV-172, MW Evap Inlet Isolation— WDV-154, RC Evap Inlet Isolation— WDV-173, MW Evap Inlet from Neutralizer Tank— WDV-164, Cation Demin 3A Inlet Isolation— WDV-45, Cation Demin 3B Inlet Isolation from RCBT's— WDV-117, Cation Demin 3B Inlet Isolation from MU System— WDV-108, Cation Demin 3B Drain Valve— WDV-367, Cation Demin 3B Drain Valve— WDV-171, Cation Demin 3B Outlet to MWST— WDV-51, Cation Demin 3B Outlet to MU System— WDV-52, Cation Demin 3B Outlet to RCBT's— WDV-54, Cation Demins Outlet X-tie— WDV-58, MW Evap Inlet from RCBT's

4.2 SYSTEM OPERATION (Cont'd)

ACTIONS	DETAILS
4.2.7 (Continued)	2. Open the following: — WDV-155, WDP-6A Suction Valve — WDV-159, WDP-6A Discharge Valve — WDV-166, Cation Demin 3B Inlet Isolation — WDV-57, Cation Demins Outlet to MW Evap — WDV-369, Cation Demin 3B Outlet Isolation — WDV-53, Cation Demin 3B Outlet — WDV-157, WDP-6A Recirc Isolation 3. GO TO Step 4.2.9

Initial/Date

4.2 SYSTEM OPERATION (Cont'd)

ACTIONS	DETAILS
4.2.8 <u>IF</u> desired to transfer MWST to MW Evap thru Cation "B" Demin via WDP-6B, <u>THEN</u> perform required Valve Alignment Otherwise N/A this step	1. Close the following: — WDV-680, Nuclear Waste Demins Isolation — WDV-129, Neutralizer Tank Inlet Isolation — WDV-172, MW Evap Inlet Isolation — WDV-154, RC Evap Inlet Isolation — WDV-173, MW Evap Inlet from Neutralizer Tank — WDV-164, Cation Demin 3A Inlet Isolation — WDV-45, Cation Demin 3B Inlet Isolation from RCBT's — WDV-117, Cation Demin 3B Inlet Isolation from MU System — WDV-108, Cation Demin 3B Drain Valve — WDV-367, Cation Demin 3B Drain Valve — WDV-171, Cation Demin 3B Outlet to MWST — WDV-51, Cation Demin 3B Outlet to MU System — WDV-52, Cation Demin 3B Outlet to RCBT's — WDV-54, Cation Demins Outlet X-tie — WDV-58, MW Evap Inlet from RCBT's

4.2 SYSTEM OPERATION (Cont'd)

ACTIONS	DETAILS
4.2.8 (Continued)	2. Open the following: — WDV-156, WDP-6B Suction Valve — WDV-160, WDP-6B Discharge Valve — WDV-166, Cation Demin 3B Inlet Isolation — WDV-57, Cation Demins Outlet to MW Evap — WDV-369, Cation Demin 3B Outlet Isolation — WDV-53, Cation Demin 3B Outlet — WDV-158, WDP-6B Recirc Isolation
	_____ Initial/Date

4.2.9 Start transfer of MWST	1. Start Aligned WDP — WDP-6A OR — WDP-6B 2. — Throttle WDV-157 (158), WDP-6A (6B) recirc. isolation valves, as required, to obtain a discharge pressure of approximately 55 psig
	_____ Initial/Date

4.2.10 <u>WHEN</u> transfer of MWST is completed, <u>THEN</u> stop MWST Transfer Pump, <u>AND</u> restore system to Standby Condition	1. — Stop WDP-6A/6B 2. Close the following as required: — WDV-155 — WDV-156 — WDV-159 — WDV-160 — WDV-129 — WDV-164 — WDV-166 — WDV-172 — WDV-57 — WDV-48 — WDV-368 — WDV-369 — WDV-53 — WDV-54
	_____ Initial/Date

4.3 MWST RECIRC FOR SAMPLING

ACTIONS	DETAILS
4.3.1 IF recirculating MWST with WDP-6A, THEN perform the following valve lineup Otherwise N/A this step	1. <input type="checkbox"/> Close/ensure closed WDV-156, WDP-6B Suction 2. <input type="checkbox"/> Close WDV-159, WDP-6A Discharge Isolation 3. <input type="checkbox"/> Close WDV-160, WDP-6B Discharge Isolation 4. <input type="checkbox"/> Open WDV-155, WDP-6A Suction 5. <input type="checkbox"/> Open/ensure open WDV-157, WDP-6A Recirc.
	_____ Initial/Date

4.3.2 IF recirculating MWST with WDP-6B, THEN perform the following valve lineup Otherwise N/A this step	1. <input type="checkbox"/> Close/ensure closed WDV-155, WDP-6A Suction 2. <input type="checkbox"/> Close WDV-159, WDP-6A Discharge Isolation 3. <input type="checkbox"/> Close WDV-160, WDP-6B Discharge Isolation 4. <input type="checkbox"/> Open WDV-156, WDP-6B Suction 5. <input type="checkbox"/> Open/ensure open WDV-158, WDP-6B Recirc.
	_____ Initial/Date

4.3.3 Determine MWST tank level and record	o Record MWST level _____
	_____ Initial/Date

4.3.4 Start required Misc. Rad Waste Transfer Pump	o <input type="checkbox"/> Start WDP-6A <u>OR</u> o <input type="checkbox"/> Start WDP-6B o <input type="checkbox"/> Record start time _____
	_____ Initial/Date

4.3 MWST RECIRC FOR SAMPLING (Cont'd)

ACTIONS	DETAILS
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NOTE: Chemistry will draw periodic samples from the MWST. A sample request form and sample due time are not needed.

- 4.3.5 Notify Chemistry that MWST is on recirc for sampling o Chemistry Technician notified:

Initial/Date

- 4.3.6 WHEN Chemistry notifies Operations that sample is complete,
THEN restore the lineup
1. Stop WDP-6A
 Close WDV-155
- OR

2. Stop WDP-6B
 Close WDV-156

Initial/Date

4.4 TRANSFERRING MWST TO WDT-7A (A-CWST)

ACTIONS	DETAILS
4.4.1 Perform the following valve lineup	<p>1. Close/ensure closed:</p> <ul style="list-style-type: none"> — WDV-1134, Isolation to Waste Processing Demineralizers — WDV-657, Waste Drum Fill — WDV-655, Waste Drum Fill — WDV-656, Bypass around WD-143-FE — WDV-653, Drum Waste Fill ShutOff — WDV-327, WDP Back Flush — WDV-220, WDP-12B Discharge — WDV-252, RC Evaporator Outlet — WDV-208, WDT-7B Inlet — WDV-76, WDT-8A/B Backflush — WDV-149, WDT-8A Fill — WDV-151, WDT-8B Fill — WDV-164, WDDM-2A Inlet — WDV-166, WDDM-2B Inlet — WDV-217, WDT-7A Recycle — WDV-218, WDT-7B Recycle — WDV-212, WDT-7A Outlet — WDV-215, WDT-7B Outlet — WDV-210, WDT-7A Demin Water Inlet — WDV-129, WDT-9 Isolation — WDV-153, Misc Waste Evap Isolation — WDV-829, Inlet to WDT-7A From the Desuperheater <p style="text-align: right;">Initial/Date</p>

4.4.2 Ensure hose is installed that connects the blind flange at WDV-678 to the blind flange at WDV-661. (located in yellow room)	<p>1. — Close/ensure closed WDV-678, suction to WDP-27</p> <p>2. — Close/ensure closed WDV-661, isolation to alternate liquid waste fill line</p> <p>3. — Ensure one end of hose is installed at WDV-678</p> <p>4. — Ensure the other end of hose is installed at WDV-661</p> <p style="text-align: right;">Initial/Date</p>
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4.4 TRANSFERRING MWST TO WDT-7A (A-CWST) (Cont'd)

ACTIONS	DETAILS
4.4.3 Place MWST on recirc via WDP-6A or WDP-6B.	<ul style="list-style-type: none"> o <u>IF</u> recirculating via WDP-6A, <u>THEN</u> GO TO step 4.4.4. o <u>IF</u> recirculating via WDP-6B, <u>THEN</u> GO TO step 4.4.5
	_____ Initial/Date

4.4.4 <u>IF</u> recirculating MWST with WDP-6A, <u>THEN</u> perform the following:	<ol style="list-style-type: none"> 1. ____ Close/ensure closed WDV-156, WDP-6B Suction 2. ____ Close WDV-159, WDP-6A Discharge Isolation 3. ____ Close WDV-160, WDP-6B Discharge Isolation 4. ____ Open WDV-155, WDP-6A Suction 5. ____ Open/ensure open WDV-157, WDP-6A Recirc. 6. ____ Start WDP-6A 7. ____ GO TO step 4.4.6
	_____ Initial/Date

4.4.5 <u>IF</u> recirculating MWST with WDP-6B, <u>THEN</u> perform the following:	<ol style="list-style-type: none"> 1. ____ Close/ensure closed WDV-155, WDP-6A Suction 2. ____ Close WDV-159, WDP-6A Discharge Isolation 3. ____ Close WDV-160, WDP-6B Discharge Isolation 4. ____ Open WDV-156, WDP-6B Suction 5. ____ Open/ensure open WDV-158, WDP-6B Recirc. 6. ____ Start WDP-6B
	_____ Initial/Date

4.4 TRANSFERRING MWST TO WDT-7A (A-CWST) (Cont'd)

ACTIONS	DETAILS
4.4.6 Perform the following valve lineup to transfer from MWST to WDT-7A	o Open/ensure open: <ul style="list-style-type: none"> — WDV-219, WDP-12A Discharge — WDV-661, isolation to alternate liquid waste fill line — WDV-660, isolation to alternate liquid waste fill line — WDV-658, Liquid Waste to Truck Load Zone — WDV-219, Waste Drum Fill — WDV-878, Concentrated Waste Return to Evaporator — WDV-206, WDT-7A Inlet — WDV-680, Waste Transfer to Waste Drumming — WDV-678, Drumming Station Isolation <div style="text-align: right;">_____ Initial/Date</div>
4.4.7 Determine MWST tank level and record	Record MWST level _____ <div style="text-align: right;">_____ Initial/Date</div>
4.4.8 Determine A-CWST (WDT-7A) tank level and record	Record WDT-7A tank level _____ <div style="text-align: right;">_____ Initial/Date</div>

4.4 TRANSFERRING MWST TO WDT-7A (A-CWST) (Cont'd)

ACTIONS	DETAILS
4.4.9 Open appropriate Waste Transfer pump discharge valve.	<p>o — <u>IF</u> recirculating via WDP-6A, <u>THEN</u> open WDV-159, WDP-6A Discharge Isolation</p> <p><u>OR</u></p> <p>o — <u>IF</u> recirculating via WDP-6B, <u>THEN</u> open WDV-160, WDP-6B Discharge Isolation</p> <p style="text-align: right;">_____ Initial/Date</p>
4.4.10 When transfer from MWST to WDT-7A is complete, stop the transfer pump	<p>o — Stop WDP-6A — Close WDV-155</p> <p><u>OR</u></p> <p>o — Stop WDP-6B — Close WDV-156</p> <p style="text-align: right;">_____ Initial/Date</p>
4.4.11 Determine MWST tank level and record	<p>Record MWST Tank level _____</p> <p style="text-align: right;">_____ Initial/Date</p>
4.4.12 Determine A-CWST (WDT-7A) tank level and record	<p>Record WDT-7A tank level _____</p> <p style="text-align: right;">_____ Initial/Date</p>

4.4

TRANSFERRING MWST TO WDT-7A (A-CWST) (Cont'd)

ACTIONS

DETAILS

4.4.13 Restore the lineup

- o Close the follolwing:
 - WDV-678, Drumming Station Isolation
 - WDV-661, Isolation to Alternate Liquid Waste Fill Line to truck load zone
 - WDV-660, Isolation to Alternate Liquid Waste Fill Line to Truck Load Zone
 - WDV-658, Liquid Waste to Truck Load Zone
 - WDV-878, Concentrated Waste Return to Evaporators
 - WDV-219, WDP-12A Discharge

Initial/Date

4.5 TRANSFERRING MWST TO WDT-7B (B-CWST)

ACTIONS	DETAILS
4.5.1 Perform the following valve lineup	1. Close/ensure closed: — WDV-1134, Isolation to Waste Processing Demineralizers — WDV-657, Waste Drum Fill — WDV-655, Waste Drum Fill — WDV-656, Bypass around WD-143-FE — WDV-653, Drum Waste Fill ShutOff — WDV-327, WDP Back Flush — WDV-220, WDP-12B Discharge — WDV-252, RC Evaporator Outlet — WDV-206, WDT-7A Inlet — WDV-76, WDT-8A/B Backflush — WDV-149, WDT-8A Fill — WDV-151, WDT-8B Fill — WDV-164, WDDM-2A Inlet — WDV-166, WDDM-2B Inlet — WDV-217, WDT-7A Recycle — WDV-218, WDT-7B Recycle — WDT-211, WDT-7B DW Isolation — WDV-212, WDT-7A Outlet — WDV-215, WDT-7B Outlet — WDV-129, WDT-9 Isolation — WDV-153, Misc Waste Evap Isolation — WDV-830, Inlet to WDT-7B From the Desuperheater
	Initial/Date

4.5.2 Ensure hose is installed to connect from the blind flange at WDV-678 to the blind flange at WDV-661. (located in yellow room)	1. — Close/ensure closed WDV-678, suction to WDP-27 2. — Close/ensure closed WDV-661, isolation to alternate liquid waste fill line 3. — Ensure one end of hose is installed at WDV-678 4. — Ensure the other end of hose is installed at WDV-661
---	--

Initial/Date

4.5 TRANSFERRING MWST TO WDT-7B (B-CWST) (Cont'd)

ACTIONS	DETAILS
4.5.3 Place MWST on recirc via WDP-6A or WDP-6B.	<ul style="list-style-type: none"> o <u>IF</u> recirculating via WDP-6A, <u>THEN</u> GO TO step 4.5.4. o <u>IF</u> recirculating via WDP-6B, <u>THEN</u> GO TO step 4.5.5
	_____ Initial/Date
4.5.4 <u>IF</u> recirculating MWST with WDP-6A, <u>THEN</u> perform the following:	<ol style="list-style-type: none"> 1. ____ Close/ensure closed WDV-156, WDP-6E Suction 2. ____ Close WDV-159, WDP-6A Discharge Isolation 3. ____ Close WDV-160, WDP-6B Discharge Isolation 4. ____ Open WDV-155, WDP-6A Suction 5. ____ Open/ensure open WDV-157, WDP-6A Recirc. 6. ____ Start WDP-6A 7. ____ GO TO step 4.5.6
	_____ Initial/Date
4.5.5 <u>IF</u> recirculating MWST with WDP-6B, <u>THEN</u> perform the following:	<ol style="list-style-type: none"> 1. ____ Close/ensure closed WDV-155, WDP-6A Suction 2. ____ Close WDV-159, WDP-6A Discharge Isolation 3. ____ Close WDV-160, WDP-6B Discharge Isolation 4. ____ Open WDV-156, WDP-6B Suction 5. ____ Open/ensure open WDV-158, WDP-6B Recirc. 6. ____ Start WDP-6B
	_____ Initial/Date

4.5 TRANSFERRING MWST TO WDT-7B (B-CWST) (Cont'd)

ACTIONS	DETAILS
4.5.6 Perform the following valve lineup to transfer from MWST to WDT-7B	o Open/ensure open: <ul style="list-style-type: none"> — WDV-219, WDP-12A Discharge — WDV-661, isolation to alternate liquid waste fill line — WDV-660, isolation to alternate liquid waste fill line — WDV-658, Liquid Waste to Truck Load Zone — WDV-219, Waste Drum Fill — WDV-878, Concentrated Waste Return to Evaporator — WDV-208, WDT-7B Inlet — WDV-680, Waste Transfer to Waste Drumming — WDV-678, Drumming Station Isolation <div style="text-align: right;">Initial/Date</div>
4.5.7 Determine MWST tank level and record	Record MWST level _____ <div style="text-align: right;">Initial/Date</div>
4.5.8 Determine B-CWST (WDT-7B) tank level and record	Record WDT-7B tank level _____ <div style="text-align: right;">Initial/Date</div>

4.5 TRANSFERRING MWST TO WDT-7B (B-CWST) (Cont'd)

ACTIONS	DETAILS
4.5.9 Open appropriate Waste Transfer pump discharge valve.	<p>o — <u>IF</u> recirculating via WDP-6A, <u>THEN</u> open WDV-159, WDP-6A Discharge Isolation</p> <p><u>OR</u></p> <p>o — <u>IF</u> recirculating via WDP-6B, <u>THEN</u> open WDV-160, WDP-6B Discharge Isolation</p> <p style="text-align: right;">_____ Initial/Date</p>
4.5.10 When transfer from MWST to WDT-7B is complete, stop the transfer pump	<p>o — Stop WDP-6A — Close WDV-155</p> <p><u>OR</u></p> <p>o — Stop WDP-6B — Close WDV-156</p> <p style="text-align: right;">_____ Initial/Date</p>
4.5.11 Determine MWST tank level and record	<p>Record MWST Tank level _____</p> <p style="text-align: right;">_____ Initial/Date</p>
4.5.12 Determine B-CWST (WDT-7B) tank level and record	<p>Record WDT-7B tank level _____</p> <p style="text-align: right;">_____ Initial/Date</p>

4.5 TRANSFERRING MWST TO WDT-7B (B-CWST) (Cont'd)

ACTIONS	DETAILS
4.5.13 Restore the lineup	<ul style="list-style-type: none">o Close the following:<ul style="list-style-type: none">— WDV-678, Drumming Station Isolation— WDV-661, Isolation to Alternate Liquid Waste Fill Line to truck load zone— WDV-660, Isolation to Alternate Liquid Waste Fill Line to Truck Load Zone— WDV-658, Liquid Waste to Truck Load Zone— WDV-878, Concentrated Waste Return to Evaporators— WDV-219, WDP-12A Discharge
	<div style="text-align: right;"><u> </u> Initial/Date</div>

4.6 TRANSFERRING MWST TO WDT-8A (A-CBAST)

ACTIONS	DETAILS
4.6.1 Perform the following valve lineup	1. Close/ensure closed: <ul style="list-style-type: none"> — WDV-1134, Isolation To Waste Processing Demins — WDV-657, Waste Drum Fill — WDV-655, Waste Drum Fill — WDV-656, Bypass around WD-143-FE — WDV-653, Drum Waste Fill ShutOff — WDV-219, WDP-12A Discharge — WDV-220, WDP-12B Discharge — WDV-118, WDT-8A Sample — WDV-76, WDT-8A/B Backflush — WDV-136, WDT-8A Inlet Isolation — WDV-137, WDT-8B Inlet Isolation — WDV-138, DW to WDT-8A — WDV-151, Waste Drum Fill — WDV-143, WDT-8B Outlet Isolation — WDV-177, WDP-13A/B Discharge to RCBTs — WDV-142, WDT-8A Isolation — WDV-145, WDP-13A Suction — WDV-148, WDP-13A Discharge — WDV-144, CBASTs CrossTie — WDV-164, WDDM-2A Inlet — WDV-166, WDDM-2B Inlet — WDV-878, Conc. Waste Return To Evaporator — WDV-877, Conc.Boric Acid Return to Evaporators — WDV-827, Desuperheater inlet to WDT-8A — WDV-218, WDT-7B Recycle — WDV-327, WDP Back Flush — DWV-123, DO to CBAST Isolation
	<u> </u> Initial/Date

4.6 TRANSFERRING MWST TO WDT-8A (A-CBAST) (Cont'd)

ACTIONS	DETAILS
4.6.2 Ensure hose is installed to connect from the blind flange at WDV-678 to the blind flange at WDV-661. (located in yellow room)	<ol style="list-style-type: none"> 1. — Close/ensure closed WDV-678, suction to WDP-27 2. — Close/ensure closed WDV-661, isolation to alternate liquid waste fill line 3. — Ensure one end of hose is installed at WDV-678 4. — Ensure the other end of hose is installed at WDV-661
	_____ Initial/Date

4.6.3 Place MWST on recirc via WDP-6A or WDP-6B.	<ol style="list-style-type: none"> o <u>IF</u> recirculating via WDP-6A, <u>THEN</u> GO TO step 4.6.4. o <u>IF</u> recirculating via WDP-6B, <u>THEN</u> GO TO step 4.6.5
	_____ Initial/Date

4.6.4 <u>IF</u> recirculating MWST with WDP-6A, <u>THEN</u> perform the following valve lineup	<ol style="list-style-type: none"> 1. — Close/ensure closed WDV-156, WDP-6B Suction 2. — Close WDV-159, WDP-6A Discharge Isolation 3. — Close WDV-160, WDP-6B Discharge Isolation 4. — Open WDV-155, WDP-6A Suction 5. — Open/ensure open WDV-157, WDP-6A Recirc. 6. — Start WDP-6A 7. — GO TO step 4.6.6
	_____ Initial/Date

4.6 TRANSFERRING MWST TO WDT-8A (A-CBAST) (Cont'd)

ACTIONS	DETAILS
4.6.5 <u>IF</u> recirculating MWST with WDP-6B, <u>THEN</u> perform then following valve lineup	<ol style="list-style-type: none"> 1. — Close/ensure closed WDV-155, WDP-6A Suction 2. — Close WDV-159, WDP-6A Discharge Isolation 3. — Close WDV-160, WDP-6B Discharge Isolation 4. — Open WDV-156, WDP-6B Suction 5. — Open/ensure open WDV-158, WDP-6B Recirc. 6. — Start WDP-6B
	_____ Initial/Date

4.6.6 Perform the following valve lineup to transfer from MWST to WDT-8A	<ol style="list-style-type: none"> o Open/ensure open: <ul style="list-style-type: none"> — WDV-149, Waste Drum Fill — WDV-147, WDT-8A Recycle — WDV-140, WDT-8A Spray Header Isolation — WDV-661, isolation to alternate liquid waste fill line — WDV-660, isolation to alternate liquid waste fill line — WDV-658, Liquid Waste to Truck Load Zone — WDV-678, Drumming Station Isolation — WDV-680, Waste Transfer to Waste Drumming
	_____ Initial/Date

4.6.7 Determine MWST tank level and record	Record MWST level _____
	_____ Initial/Date

4.6 TRANSFERRING MWST TO WDT-8A (A-CBAST) (Cont'd)

ACTIONS	DETAILS
4.6.8 Determine A-CBAST (WDT-8A) tank level and record	Record WDT-8A tank level _____ _____ Initial/Date
4.6.9 Open appropriate Waste Transfer pump discharge valve.	o — <u>IF</u> recirculating via WDP-6A, <u>THEN</u> open WDV-159, WDP-6A Discharge Isolation <u>OR</u> o — <u>IF</u> recirculating via WDP-6B, <u>THEN</u> open WDV-160, WDP-6B Discharge Isolation _____ Initial/Date
4.6.10 When transfer from MWST to WDT-8A is completed, stop the transfer pump	o — Stop WDP-6A — Close WDV-155 <u>OR</u> o — Stop WDP-6B — Close WDV-156 _____ Initial/Date
4.6.11 Determine MWST tank level and record	Record MWST Tank level _____ _____ Initial/Date

4.6

TRANSFERRING MWST TO WDT-8A (A-CBAST) (Cont'd)

ACTIONS	DETAILS
4.6.12 Determine A-CBAST (WDT-8A) tank level and record	Record WDT-8A tank level _____ _____/_____ Initial/Date
4.6.13 Restore the lineup	<ul style="list-style-type: none">o Close the following:<ul style="list-style-type: none">— WDV-678, Drumming Station Isolation— WDV-661, Isolation to Alternate Liquid Waste Fill Line to truck load zone— WDV-660, Isolation to Alternate Liquid Waste Fill Line to Truck Load Zone— WDV-658, Liquid Waste to Truck Load Zone— WDV-149, Waste Drum Fill— WDV-147, WDT-8A Recycle _____/_____ Initial/Date

4.7 TRANSFERRING MWST TO WDT-8B (B-CBAST)

ACTIONS	DETAILS
4.7.1 Perform the following valve lineup:	<p>1. Close/ensure closed:</p> <ul style="list-style-type: none"> — WDV-1134, Isolation To Waste Processing Demins — WDV-657, Waste Drum Fill — WDV-655, Waste Drum Fill — WDV-656, Bypass around WD-143-FE — WDV-653, Drum Waste Fill ShutOff — WDV-219, WDP-12A Discharge — WDV-220, WDP-12B Discharge — WDV-248, WDT-8B Sample — WDV-76, WDT-8A/B Backflush — WDV-149, Waste Drum Fill — WDV-136, WDT-8A Inlet Isolation — WDV-137, WDT-8B Inlet Isolation — WDV-139, DW to WDT-8B — WDV-152, WDP-13B Discharge — WDV-146, WDP-13B Suction — WDV-143, WDT-8B Outlet Isolation — WDV-177, WDP-13A/B Discharge to RCBTs — WDV-148, WDP-13A Discharge — WDV-144, CBASTs CrossTie — WDV-164, WDDM-2A Inlet — WDV-166, WDDM-2B Inlet — WDV-878, Conc. Waste Return To Evaporator — WDV-877, Conc. Boric Acid Return to Evaporators — WDV-828, Desuperheater inlet to WDT-8B — WDV-218, WDT-7B Recycle — WDV-327, WDP Back Flush — DWV-123, DO to CBAST Isolation
	Initial/Date

4.7 TRANSFERRING MWST TO WDT-8B (B-CBAST) (Cont'd)

ACTIONS	DETAILS
4.7.2 Ensure hose is installed to connect from the blind flange at WDV-678 to the blind flange at WDV-661. (located in yellow room)	<ol style="list-style-type: none"> 1. — Close/ensure closed WDV-678, suction to WDP-27 2. — Close/ensure closed WDV-661, isolation to alternate liquid waste fill line 3. — Ensure one end of hose is installed at WDV-678 4. — Ensure the other end of the hose is attached at WDV-661
	_____ Initial/Date

4.7.3 Place MWST on recirc via WDP-6A or WDP-6B.	<ol style="list-style-type: none"> o <u>IF</u> recirculating via WDP-6A, <u>THEN</u> GO TO step 4.7.4. o <u>IF</u> recirculating via WDP-6B, <u>THEN</u> GO TO step 4.7.5
	_____ Initial/Date

4.7.4 <u>IF</u> recirculating MWST with WDP-6A, <u>THEN</u> perform the following:	<ol style="list-style-type: none"> 1. — Close/ensure closed WDV-156, WDP-6B Suction 2. — Close WDV-159, WDP-6A Discharge Isolation 3. — Close WDV-160, WDP-6B Discharge Isolation 4. — Open WDV-155, WDP-6A Suction 5. — Open/ensure open WDV-157, WDP-6A Recirc. 6. — Start WDP-6A 7. — GO TO step 4.7.6
	_____ Initial/Date

4.7 TRANSFERRING MWST TO WDT-8B (B-CBAST) (Cont'd)

ACTIONS	DETAILS
4.7.5 IF recirculating MWST with WDP-6B, THEN perform then following:	<ol style="list-style-type: none"> 1. — Close/ensure closed WDV-155, WDP-6A Suction 2. — Close WDV-159, WDP-6A Discharge Isolation 3. — Close WDV-160, WDP-6B Discharge Isolation 4. — Open WDV-156, WDP-6B Suction 5. — Open/ensure open WDV-158, WDP-6B Recirc. 6. — Start WDP-6B
	Initial/Date

4.7.6 Perform the following valve lineup to transfer from MWST to WDT-8B	<ol style="list-style-type: none"> o Open/ensure open: <ul style="list-style-type: none"> — WDV-151, Waste Drum Fill — WDV-150, WDT-8B Recycle — WDV-141, WDT-8B Spray Header Isolation — WDV-661, isolation to alternate liquid waste fill line — WDV-660, isolation to alternate liquid waste fill line — WDV-658, Liquid Waste to Truck Load Zone — WDV-678, Drumming Station Isolation — WDV-680, Waste Transfer to Waste Drumming
	Initial/Date

4.7.7 Determine MWST tank level and record	MWST level _____
	Initial/Date

4.7 TRANSFERRING MWST TO WDT-8B (B-CBAST) (Cont'd)

ACTIONS	DETAILS
4.7.8 Determine B-CBAST (WDT-8B) tank level and record	Record WDT-8B tank level _____ _____ Initial/Date
4.7.9 Open appropriate Waste Transfer pump discharge valve.	o — <u>IF</u> recirculating via WDP-6A, <u>THEN</u> open WDV-159, WDP-6A Discharge Isolation <u>OR</u> o — <u>IF</u> recirculating via WDP-6B, <u>THEN</u> open WDV-160, WDP-6B Discharge Isolation _____ Initial/Date
4.7.10 When transfer from MWST to WDT-8B is completed, stop the transfer pump	o — Stop WDP-6A — Close WDV-155 <u>OR</u> o — Stop WDP-6B — Close WDV-156 _____ Initial/Date
4.7.11 Determine MWST tank level and record	Record MWST Tank level _____ _____ Initial/Date

4.7

TRANSFERRING MWST TO WDT-8B (B-CBAST) (Cont'd)

ACTIONS

DETAILS

4.7.12 Determine B-CBAST (WDT-8B)
tank level and record

Record WDT-8B tank level _____

Initial/Date

4.7.13 Restore the lineup

- o Close the following:
 - WDV-678, Drumming Station
 - Isolation
 - WDV-661, Isolation to
 - Alternate Liquid Waste Fill
 - Line to truck load zone
 - WDV-660, Isolation to
 - Alternate Liquid Waste Fill
 - Line to Truck Load Zone
 - WDV-658, Liquid Waste to
 - Truck Load Zone
 - WDV-151, Waste Drum Fill
 - WDV-150, WDT-8B Recycle

Initial/Date

5.0 FOLLOW-UP ACTIONS

ACTIONS	DETAILS
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None

6.0 RESTORATION INSTRUCTIONS

ACTIONS

DETAILS

None