

GPU Nuclear	TMI-2 Operating Procedure	Number 4215-OPS-3255.02
Title FHB/Fuel Transfer Cask Loading Station Decon Spray System		Revision No. <i>2-87-0158</i> 0-02
Applicability/Scope TMI-2 Plant Operations		Responsible Office 4210
This document is important to safety <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Effective Date 05/15/87

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	Signature	Concurring Organization Element	Date
Originator	<i>WJ Marshall</i>	Operations Engineer	<i>2/24/87</i>
Concurred by	<i>WJ Marshall</i>	Cognizant Engineer	<i>2/24/87</i>
	<i>JAB Rouse</i>	RTR	<i>2/25/87</i>
	<i>Wm J Hill</i>	Manager, Plant Operations	<i>2/25/87</i>
	<i>John Smith</i>	Rad Waste Operation, Manager	<i>2/27/87</i>
	<i>GA Remy</i>	SRG	<i>3/2/87</i>
Approved by	<i>WJ Marshall</i>	Site Operations Director	<i>5-15-87</i>

Title

FHB/Fuel Transfer Cask Loading Station Decon Spray System

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0-01

1.0 PURPOSE

To provide instructions for operating the FHB/FTC Loading Station Decon Spray System

2.0 SCOPE

TMI-2 Operations Personnel

3.0 REFERENCES

- 3.1 Bechtel Dwg., 15737-2-M74-DWC02, P & ID, Defueling Water Cleanup Fuel Transfer Canal/Spent Fuel Pool Cleanup System
- 3.2 Bechtel Dwg., 15737-2-P70-CLD01, Area Piping Drawing, Canister Loading Decon System, FHB
- 3.3 System Operating Description for Fuel Transfer Cask Loading/Decontamination Station, 2-M250-CLD-01
- 3.4 4210-OPS-3212.06, Standby Reactor Coolant Pressure Control System

4.0 LIMITS AND PRECAUTIONS

- 4.1 Do not exceed 125 psig on the CLD-P-1 surge suppressor.
- 4.2 Do not exceed 125 psig on CLD-P-1 discharge.
- 4.3 Operation of the Decon Spray System will result in water addition to SFP "A" and the FTC. Water additions of approximately 5/8" per 7 canisters decontaminated can be expected.
- 4.4. Valves leading to other portions of the DWC system not involved with CLD system, must be closed to maintain proper pressure in the CLD system.

5.0 PREREQUISITES

- ___ 5.1 Verify with the Control Room that SPC-T-4 Chemistry is within spec. for addition to SFP "A".
- ___ 5.2 Verify that SPC-T-4 level is within the normal operating band (above 55%).
- ___ 5.3 Verify that SFP "A" level is between 327'1" elevation and 327'11" elevation.
- ___ 5.4 Verify that FTC level is between 327'1" elevation and 327'11" elevation.
- ___ 5.5 Determine that operation of the CLD system will not overflow the FTC. (See L & P 4.3).

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- ___ 5.6 Verify that Service Air System is in normal operation per the Control Room.
- ___ 5.7 Verify with the SF that there are no DWCS operations in progress which would interfere with the operation of CLD.
- ___ 5.8 Complete Section 7.1, Valve Line-Up.
- ___ 5.9 Notify Shift Foreman of intent and adjust SPC-T-4 temperature controller to 180°F.

NOTE: This must be performed to allow ample time for heat-up prior to operation of the system for canister decon.

6.0 PROCEDURE

- ___ 6.1 When Decon Spray Ring operation is desired, OPEN CLD-V006 and adjust CLD-V007 to obtain 40 to 60 psig on CLD-PI-4.
- ___ 6.2 Open CLD-V001 to activate spray and allow any ambient temperature water in piping to be flushed out.
- ___ 6.3 Activate spray as FTC hoist up motion begins.
- ___ 6.4 To stop spray close CLD-V001 or to stop spray remotely close CLD-V006.
- ___ 6.5 When spray is no longer required per 4215-OPS-3252.10, CLOSE CLD-V006, after pressure is bled off, CLOSE CLD-V001.
- ___ 6.6 Perform Section 8.1, Shutdown Valve Line-Up.
- ___ 6.7 Notify Shift Foreman of intent and adjust SPC-T-4 temperature controller to 80°F.

7.0 PRESTART CHECKLIST

- 7.1 Startup Valve Line-Up - Attachment E1

8.0 SHUTDOWN CHECKLIST

- 8.1 Shutdown Valve Line-Up - Attachment E2

9.0 DATA SHEETS/ATTACHMENTS

- 9.1 Attachment E1
- 9.2 Attachment E2

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7.1 VALVE LINE-UP SHEET

VALVE NO.	DESCRIPTION	POSITION	INITIALS
SPC-V1	SPC-T-4 Main Outlet	Open	_____
DWC-V321	CLD-P-1 Suction	Open	_____
DWC-V322	CLD-P-1 Discharge	Closed*	_____
CLD-V008	CLD-PI-4 Gage Isolation	Open	_____
CLD-V009	Pulsation Damper Isolation	Open	_____
CLD-V006	Motive Air to CLD-P-1	Closed	_____
CLD-V011	CLD-P-1 Discharge to Spray Ring	Open	_____
DWC-V101	CLD-P-1 Bypass	Closed	_____
DWC-V051	Flush Isolation to DWCS RV/IX	Closed	_____
DWC-V246	Vent	Closed	_____
DWC-V106	Flush Isolation to RV Filter Manifold	Closed	_____
DWC-V059	Flush Isolation to DWC-P-2A/2B	Closed	_____
DWC-V313	Flush Isolation to Sample Box 1	Closed	_____
DWC-V314	Flush Isolation to Sample Box 2	Closed	_____
DWC-V323	Spray Header Isolation	Closed	_____
CLD-V004	CLD-FI-1 Low Side Isolation	Open	_____
CLD-V005	CLD-FI-1 High Side Isolation	Open	_____
CLD-V003	CLD-PI-2 Gage Isolation	Open	_____
CLD-V012	CLD-P-1 Downstream Isolation	Open	_____
CLD-V001	Spray Ring Inlet	Closed	_____
CLD-V002	Flush Connection	Closed	_____
CLD-V010	Header Drain	Closed	_____
CLD-V013	Flush Header Vent	Closed	_____

*Unless open for DWCS flushing

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8.1 SHUTDOWN VALVE LINE-UP SHEET

<u>VALVE NO.</u>	<u>DESCRIPTION</u>	<u>POSITION</u>	<u>INITIALS</u>
DWC-V321	CLD-P-1 Suction	Closed	_____
DWC-V322	CLD-P-1 Discharge	Closed	_____
CLD-V006	Motive Air to CLD-P-1	Closed	_____
CLD-V001	Spray Ring Inlet	Closed	_____
CLD-V011	CLD-P-1 Discharge to Spray Ring	Closed	_____
CLD-V012	CLD-P-1 Downstream Isolation	Closed	_____

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