

**PRIVATE FUEL STORAGE FACILITY
SAFETY ANALYSIS REPORT**

SAR CHAPTER 5

**REVISION 6
DOCKETED
USNRC**

**TABLE 5.1-1
(Sheet 1 of 2)**

2003 JAN 13 AM 10:28

**ANTICIPATED TIME AND PERSONNEL REQUIREMENTS
FOR HI-STORM CANISTER TRANSFER OPERATIONS**

OFFICE OF THE SECRETARY
RULEMAKING AND
ADJUDICATIONS STAFF

OPERATION	NO. OF PERSONNEL ¹	TASK DURATION (HOURS)
1. Receive and inspect shipment. Measure dose rates.	3	0.5
2. Move shipment into Canister Transfer Building.	4	0.5
3. Remove personnel barrier, measure cask dose rates, and perform contamination survey.	3	1.6
4. Remove impact limiters and tiedowns.	3	1.5
5. Attach lifting yoke to crane and HI-STAR shipping cask. Upright HI-STAR cask and move to transfer cell. Connect support struts.	3	1.0
6. Sample enclosed cask gas and vent.	2	0.5
7. Remove HI-STAR closure plate bolts.	3	1.0
8. Remove HI-STAR closure plate (lid).	3	0.2
9. Prep HI-STAR to mate with HI-TRAC transfer cask.	3	0.2
10. Install canister lift cleats and attach slings.	3	1.0
11. Attach lifting yoke to crane and HI-TRAC.	3	0.5
12. Mount HI-TRAC on top of HI-STAR. Connect support struts to HI-TRAC. ²	3	0.5
13. Open HI-TRAC transfer cask doors.	3	0.2
14. Attach slings to canister downloader hoist and raise canister.	3	0.5
15. Close HI-TRAC doors and install pins.	3	0.2
16. Lower canister onto HI-TRAC doors.	3	0.2
17. Prep HI-STORM storage cask to mate with HI-TRAC transfer cask. Disconnect support struts. ²	3	0.2
18. Move HI-TRAC from HI-STAR to HI-STORM. Attach support struts to HI-TRAC. ²	3	0.7
19. Raise canister and open HI-TRAC doors.	3	0.5
20. Lower canister into HI-STORM storage cask.	3	0.5

CLEAR REGULATORY COMMISSION

Case No. _____ Official Exh. No. 22

In the matter of PFS

Staff IDENTIFIED

Applicant RECEIVED

Intervenor _____ REJECTED _____

Other _____ WITHDRAWN _____

DATE 5/16/02 Witness _____

Clerk [Signature]

TABLE 5.1-1
(Sheet 2 of 2)

ANTICIPATED TIME AND PERSONNEL REQUIREMENTS
FOR HI-STORM CANISTER TRANSFER OPERATIONS

OPERATION	NO. OF PERSONNEL ¹	TASK DURATION (HOURS)
21. Disconnect lifting slings.	3	0.2
22. Close transfer cask doors.	3	0.2
23. Disconnect support struts. ² Remove HI-TRAC from HI-STORM	3	0.5
24. Remove canister lift cleats.	3	0.5
25. Install HI-STORM lid and lid bolts.	3	1.0
26. Perform dose survey and install HI-STORM lifting eyes.	3	0.5
27. Drive cask transporter in transfer cell.	2	0.3
28. Connect HI-STORM to cask transporter.	3	0.5
29. Raise HI-STORM storage cask.	3	0.2
30. Transport HI-STORM cask to storage pad.	3	2.0
31. Position and lower HI-STORM cask on pad.	3	0.5
32. Disconnect HI-STORM cask from transporter and remove cask lifting eyes.	3	1.0
33. Connect cask temperature instrumentation.	3	0.5
34. Perform cask operability tests.	2	48
Total Hours	-	19.9 ³

Notes

1. Number of personnel typically includes 2 to 3 operators and 1 HP technician.
2. While the HI-TRAC transfer cask is connected to the crane, it is not necessary to attach the seismic support struts to the transfer cask, since connection of the crane to the transfer cask provides assurance that the transfer cask cannot topple in the event of an earthquake. However, prior to disconnecting the crane from the transfer cask, the support struts must be connected to the transfer cask.
3. Total does not reflect 48 hour duration in Step 34, which is time required for cask temperature to reach equilibrium. Personnel time required to monitor temperatures during the equilibrium phase is minimal.