

System Verification Plan and Report

Project Second Target Station

Item Target Drive

WBS S.03.02.02

Lead Aaron Jacques

Date 8/5/2026

Date		8/5/2026																											
		6/2/2000	Reqmts Review			8/13/2026	7/1/2024	Final Design Review			8/13/2026	8/14/2026	Dwg release			8/14/2027	8/14/2026	Vendor			8/14/2027	8/14/2026	MUTS			8/14/2027	8/14/2026	In Core Vessel	
		SRR				FDR				PRR				FAT				Installation Test				Integrated System Test							
ID	Name	ID	Method	STATUS	Date	ID	Method	STATUS	Date	ID	Method	STATUS	Date	ID	Method	STATUS	Date	ID	Method	STATUS	Date	ID	Method	STATUS	Date	ID	Method	STATUS	Date
11215	[S.03.02.02-11215] Disposal Site	-	-	-	-	11216	Analysis	PASSED	8/5/2026	11216	Analysis	Not Run	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10978	[S.03.02.02-10978] Material radiation damage	-	-	-	-	10972	Analysis	PASSED	7/24/2026	10972	Analysis	Not Run	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10960	[S.03.02.02-10960] Maximum Mass	-	-	-	-	10964	Analysis	PASSED	7/27/2026	10964	Analysis	Not Run	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10952	[S.03.02.02-10952] Lid Interface Vacuum leak rate	-	-	-	-	-	-	-	-	-	-	-	-	-	10966	Test	Not Run	-	-	-	-	-	-	-	-	-	-	-	-
10744	[S.03.02.02-10744] Allowance for adiustment	-	-	-	-	1997	Inspection	PASSED	7/24/2026	1997	Inspection	Not Run	-	-	11001	Demonstration	Not Run	-	-	-	-	-	-	-	-	-	-	-	-
10743	[S.03.02.02-10743] Drive positioning features	-	-	-	-	1997	Inspection	PASSED	7/24/2026	1997	Inspection	Not Run	-	-	11001	Demonstration	Not Run	-	-	-	-	-	-	-	-	-	-	-	-
10214	[S.03.02.02-10214] Transportation in 3-60B	-	-	-	-	10929	Analysis	FAILED	8/1/2026	10929	Analysis	Not Run	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3849	[S.03.02.02-3849] Vertical Lift	-	-	-	-	3901	Inspection	PASSED	7/24/2026	3901	Inspection	Not Run	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3847	[S.03.02.02-3847] Resurface Sealing Faces	-	-	-	-	3900	Inspection	PASSED	7/24/2026	3900	Inspection	Not Run	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3844	[S.03.02.02-3844] Long Reach Tooling	-	-	-	-	3899	Inspection	PASSED	7/24/2026	3899	Inspection	Not Run	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3726	[S.03.02.02-3726] Pressure Relief	-	-	-	-	3744	Inspection	PASSED	7/24/2026	3744	Inspection	Not Run	-	-	11004	Demonstration	Not Run	-	-	-	-	-	-	-	-	-	-	-	-
3724	[S.03.02.02-3724] Start-up Time	-	-	-	-	3746	Analysis	PASSED	7/24/2026	3746	Analysis	Not Run	-	-	10984	Demonstration	Not Run	-	-	10984	Demonstration	Not Run	-	-	-	-	-	-	-
3585	[S.03.02.02-3585] Maximum Dimensions	-	-	-	-	3747	Inspection	PASSED	7/24/2026	3747	Inspection	Not Run	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3463	[S.03.02.02-3463] Segment Rotation Sensor	-	-	-	-	1971	Inspection	PASSED	7/24/2026	1971	Inspection	Not Run	-	-	3477	Demonstration	Not Run	-	-	3477	Demonstration	Not Run	-	-	-	-	-	-	-
3461	[S.03.02.02-3461] Operational check of disconnect	-	-	-	-	1969	Inspection	PASSED	7/24/2026	1969	Inspection	Not Run	-	-	1970	Demonstration	Not Run	-	-	1970	Demonstration	Not Run	-	-	-	-	-	-	-
3454	[S.03.02.02-3454] Segment Blow Down Level	-	-	-	-	3759	Inspection	PASSED	7/24/2026	3759	Inspection	Not Run	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3453	[S.03.02.02-3453] Segment Purge Port	-	-	-	-	3760	Inspection	PASSED	7/24/2026	3760	Inspection	Not Run	-	-	11006	Demonstration	Not Run	-	-	-	-	-	-	-	-	-	-	-	-
3199	[S.03.02.02-3199] Maintenance and Lifetime Criteria	-	-	-	-	3761	Closure	PASSED	7/24/2026	3761	Closure	Not Run	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2998	[S.03.02.02-2998] Motor Assembly Replacement	-	-	-	-	3762	Analysis	FAILED	7/24/2026	3762	Analysis	Not Run	-	-	-	-	-	-	-	1975	Demonstration	Not Run	-	-	-	-	-	-	-
1774	[S.03.02.02-1774] Cool Down time	-	-	-	-	2023	Analysis	PASSED	7/24/2026	2023	Analysis	Not Run	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1676	[S.03.02.02-1676] Rotation Angle Measurement	-	-	-	-	2022	Inspection	PASSED	7/24/2026	2022	Inspection	Not Run	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1670	[S.03.02.02-1670] Manual Rotation	-	-	-	-	2014	Inspection	PASSED	7/24/2026	2014	Inspection	Not Run	-	-	2015	Demonstration	Not Run	-	-	1977	Demonstration	Not Run	-	-	-	-	-	-	-
1667	[S.03.02.02-1667] Lock Out Tag Out	-	-	-	-	2012	Inspection	PASSED	7/24/2026	2012	Inspection	Not Run	-	-	11005	Demonstration	Not Run	-	-	2013	Demonstration	Not Run	-	-	-	-	-	-	-
1666	[S.03.02.02-1666] Drive Spurious Stop	-	-	-	-	2047	Analysis	PASSED	7/27/2026	2047	Analysis	Not Run	-	-	-	-	-	-	-	10988	Demonstration	Not Run	-	-	-	-	-	-	-
1665	[S.03.02.02-1665] Segment Drain Ports	-	-	-	-	2010	Inspection	PASSED	7/24/2026	2010	Inspection	Not Run	-	-	11006	Demonstration	Not Run	-	-	-	-	-	-	-	-	-	-	-	-
1647	[S.03.02.02-1647] Drive Lift Points	-	-	-	-	2009	Inspection	PASSED	7/24/2026	2009	Inspection	Not Run	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1646	[S.03.02.02-1646] Max Component Height	-	-	-	-	2008	Inspection	PASSED	7/24/2026	2008	Inspection	Not Run	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1645	[S.03.02.02-1645] Process System Interface flanges	-	-	-	-	2007	Inspection	PASSED	7/24/2026	2007	Inspection	Not Run	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1644	[S.03.02.02-1644] Drive Pressure Drop	-	-	-	-	2065	Analysis	PASSED	7/26/2026	2065	Analysis	Not Run	-	-	-	-	-	-	-	10979	Test	Not Run	-	-	-	-	-	-	-
1643	[S.03.02.02-1643] Target Drive - CV Interface	-	-	-	-	2006	Inspection	PASSED	7/25/2026	2006	Inspection	Not Run	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1642	[S.03.02.02-1642] Rotary Seal Leak Rate	-	-	-	-	11241	Inspection	PASSED	8/1/2026	11241	Inspection	Not Run	-	-	10987	Test	Not Run	-	-	-	-	-	-	-	-	-	-	-	-
1624	[S.03.02.02-1624] Instrumentation replacement time	-	-	-	-	1990	Analysis	PASSED	7/27/2026	1990	Analysis	Not Run	-	-	1991	Demonstration	Not Run	-	-	-	-	-	-	-	-	-	-	-	-
1622	[S.03.02.02-1622] Drive Bearing Replacement Time	-	-	-	-	1986	Analysis	FAILED	7/25/2026	1986	Analysis	Not Run	-	-	1987	Demonstration	Not Run	-	-	1987	Demonstration	Not Run	-	-	-	-	-	-	-
1621	[S.03.02.02-1621] Secondary Cooling Flow	-	-	-	-	1984	Inspection	PARTLY	7/25/2026	1984	Inspection	Not Run	-	-	-	-	-	-	-	1985	Demonstration	Not Run	-	-	-	-	-	-	-
1620	[S.03.02.02-1620] Crown Attachment	-	-	-	-	1983	Inspection	PASSED	7/25/2026	1983	Inspection	Not Run	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1619	[S.03.02.02-1619] Replaceable Segment Attachment	-	-	-	-	1982	Inspection	PASSED	7/25/2026	1982	Inspection	Not Run	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1616	[S.03.02.02-1616] Segment Water Isolation	-	-	-	-	1980	Inspection	PASSED	7/25/2026	1980	Inspection	Not Run	-	-	11006	Demonstration	Not Run	-	-	1981	Demonstration	Not Run	-	-	-	-	-	-	-
1615	[S.03.02.02-1615] Drive Water Isolation	-	-	-	-	1979	Inspection	PASSED	7/25/2026	1979	Inspection	Not Run	-	-	-	-	-	-	-	11002	Demonstration	Not Run	-	-	-	-	-	-	-
1611	[S.03.02.02-1611] Shaft Maintenance Support	-	-	-	-	1974	Inspection	PASSED	7/25/2026	1974	Inspection	Not Run	-	-	-	-	-	-	-	1975	Demonstration	Not Run	-	-	-	-	-	-	-
1610	[S.03.02.02-1610] Bearing Temperature Monitor	-	-	-	-	1973	Inspection	PASSED	7/25/2026	1973	Inspection	Not Run	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1485	[S.03.02.02-1485] Leak Test	1836	Closure	PASSED	5/15/2024	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-