








ID	 Task Name	% Complete	Duration
1	  Unit 4 Overhaul - August 13 - September 21, 2012	5%	74.66 days
2	  Spin Unit/Fish flushing	100%	2.25 hrs
3	  Start mechanical clearance	100%	1 hr
4	  Install headgates	100%	8 hrs
5	 Pull STS in ____ slot	0%	0 hrs
6	  Open wicket gates & drain to tailwater	100%	1 hr
7	  Install draft tube stoplogs	100%	3 hrs
8	  Continue placing mechanical clearance	100%	4 hrs
9	 Install scroll case tugger	75%	3 hrs
10	  Drain unit & monitor scroll case water elevation (dip basket)	100%	4 hrs
11	  Fish rescue	100%	2 hrs
12	  Start placing electrical clearance	100%	1 day
13	  Place grounds	100%	0.13 days
14	 Pull 4 pie sections/deck plates & 8 air baffles/shrouds, establish FME perimeter	13%	1 day
15	 Generator PM - electricians	0%	7.5 days
16	 Remove and Clean Surface Air Coolers - mechanics	0%	12 days
17	 Start cleaning rotor, stator and upper bearing bracket - combined crew	12%	10 days
18	 Drain water in scroll case, draft tube to water cushion at el. 367	0%	5 hrs
19	 Wash down scroll case	0%	4 hrs
20	 Install/stage scroll case lights, safety lines, access ramps, power supplies, Jacob's ladders, inspection cover, etc.	0%	0.5 days
21	 Perform wicket gate clearance readings & pinch test - mechanics	0%	7 hrs
22	 Open & block wicket gates	0%	2 hrs
23	 De-pressurize governor & continue placing mechanical & finish placing electrical clearances	0%	4 hrs
24	 Install draft tube platform	0%	0.75 days
25	 Pressurize hub (SSG must be off?)	0%	0.5 days
26	 Start to raise platform & Drain hub cone oil	0%	1 day
27	 Finish raising and welding platform to pad eyes	0%	2 days
28	 Pole drop test - electricians	0%	4 days
29	 Install water level monitor system, lights & remove 2 inspection hatches in inner headcover	0%	3 hrs
30	 Drain oil in governor sump actuator tank & 3 bearing sumps (not thrust bearing)	0%	1 day
31	 Governor PM - electricians	0%	18 hrs
32	 XJ Breaker PM - electricians	0%	70 hrs
33	 Clean/filter turbine oil	0%	1 day
34	 Shaft and Oil Pipe PM - mechanics	0%	1 day
35	 Farval Unit	0%	1 day
36	 Install exhaust fans	0%	2 hrs
37	 Install draft tube entry system	0%	3 hrs
38	 Drain draft tube completely (overnight)	0%	6 hrs
39	 Turbine PM - electricians	0%	11 hrs
40	 Cooling Water Strainers PM - mechanics	0%	3 days
41	 Clean out weep holes & record depth & flow	0%	0.5 days
42	 Dam Safety inspection	0%	6 hrs
43	 Draft Tube Drain Valves/Mud Valves	0%	1 day
44	 Remove main shaft packing	0%	4 hrs
45	 Remove bearing sump covers	0%	1 day
46	 Install lighting on inside of unit	0%	2 hrs

ID	 Task Name	% Complete	Duration
47	 Thrust & Guide Bearings PM	0%	2 days
48	 Oil Catcher Pumps on Blade Servo	0%	0.5 hrs
49	 Begin/start headcover pumps (needs to be dry) - mechanics	0%	0.5 days
50	 Stay Ring Followers	0%	1 day
51	 Vacuum Breaker	0%	0.5 days
52	 Begin/start Wicket Gates	0%	3 days
53	 Take unit measurements - mechanics	0%	7 days
54	 Replace 2 pie sections/deck plates & 7 air baffles/shrouds	0%	1 day
55	 Megger test	0%	3 hrs
56	 Blade cavitation inspection	0%	2 hrs
57	 Cavitation Repair	0%	0 days
58	 Replace blade packing (if needed)	0%	0 days
59	 Replace bearing sump covers	0%	2 days
60	 Fill governor sump actuator tank and 3 bearing sumps	0%	1 day
61	 Brakes - mechanics	0%	2 hrs
62	 Perform headcover bolt inspection	0%	1 day
63	 Replace main shaft packing	0%	1 day
64	 Begin/start governor work - mechanics	0%	7 days
65	 Water, Air, Oil Distribution PM - mechanics	0%	1.5 days
66	 Drain thrust bearing sump	0%	3 hrs
67	 Fill hub cone oil through tap	0%	1 day
68	 Bring water cushion up to man door	0%	0.25 days
69	 Remove scroll case lights, safety lines, Jacob's ladders, etc.	0%	0.5 days
70	 Remove draft tube entry system	0%	3 hrs
71	 Remove draft tube platform	0%	2 days
72	 Split thrust bearing tub	0%	7 days
73	 Fill thrust bearing sump with oil	0%	2 hrs
74	 High Pressure Thrust Bearing Oil Pump PM - mechanics	0%	0.5 days
75	 Begin/start governor calibrations - mechanics & electricians	0%	1 day
76	 Prepare to water up	0%	1 day
77	 Start removing mechanical & electrical clearances	0%	0.5 days
78	 Remove stoplogs and headgates	0%	1 day
79	 Finish headcover pumps (timing tests & leak checks) - mechanics	0%	0.5 hrs
80	 Finish wicket gates	0%	0 days
81	 Cooling Water Flow meters PM - mechanics	0%	0.5 days
82	 Finish governor calibrations - mechanics & electricians	0%	1 day
83	 Annunciation system PM - electricians	0%	1 day
84	 Relocate and replace headcover pumps	0%	0 days
85	 Finish governor work - mechanics	0%	0.5 days
86	 33 & 65 Switches PM - electricians & electronics technician	0%	0.5 days
87	 3D CAM PM - electronics technician	0%	1 day
88	 Remove scroll case tugger	0%	3 hrs
89	 Remove exhaust fans in intake slot	0%	2 hrs
90	 Finish removing mechanical clearance	0%	0.5 days
91	 Finish removing electrical clearance & grounds	0%	0.5 days
92	 4 day test run and thermography inspection	0%	4 days

ID		Task Name	% Complete	Duration
93		Prep for Doble test	0%	2.5 hrs
94		Doble test from PPT to XJ breaker	0%	1 day