

Job/Activity	Description	Duration (weeks)	Start	Finish	% Complete	Responsibility	Resources	Remarks
<b>WBS 12</b>	<b>Vacuum Vessel</b>							
<b>Job 1201</b>	<b>VV Preliminary Design</b>							
	<b>Select VV joint design</b>							
	Perform comparative study of joint options	3.5	30-May-03	23-Jun-03		Viola		
	Review recommendation	0.5	23-Jun-03	27-Jun-03		Goranson		
	<b>Finalize VV shell geometry</b>							
	Establish envelope for winding and clamps	0.2	9-Jun-03	10-Jun-03	100%	Williamson		
	Update shell geometry to satisfy clearances in the installed state, during field period assembly, and final assembly	2	10-Jun-03	24-Jun-03		Brooks Brown		
	PEER REVIEW ON VV JOINT DESIGN AND SHELL GEOMETRY	0	1-Jul-03	1-Jul-03		Nelson		
<b>Job 1202</b>	<b>VV R&amp;D</b>							
	<b>Finalize technical documentation for VV prototype fabrication</b>							
	Update PVVS spec, circulate for review and signature	2	11-Jun-03	25-Jun-03		Viola		
	Review PVVS drawings for completeness and correctness. Release at Final Design Level prior to FDR.	2	11-Jun-03	25-Jun-03		Viola		
	Determine potential cost savings if dies could be re-used in production	2	11-Jun-03	25-Jun-03		Viola		
	Make preparations for FDR - issue charge for PVVS FDR, organize review committee, etc.	1	10-Jun-03	17-Jun-03		Reiersen		
	FDR ON VV PROTOTYPE (PVVS)	0	1-Jul-03	1-Jul-03		Nelson		
	<b>Finalize MIT/QA Plan for PVVS</b>							
	Issue draft MIT/QA plan - Rohwedder	3	13-Jun-03	4-Jul-03		Rohwedder		
	Issue draft MIT/QA Plan - MTM	3	13-Jun-03	4-Jul-03		MTM		
	DISCUSSION ON SUPPLIER MIT/QA PLANS FOR PVVS	0	9-Jul-03	9-Jul-03		Nelson		
	<b>Authorize PVVS fabrication</b>							
	Incorporate project comments in MIT/QA Plan - Rohwedder	1	9-Jul-03	16-Jul-03		Rohwedder		
	Incorporate project comments in MIT/QA Plan - MTM	1	9-Jul-03	16-Jul-03		MTM		
	Finalize SOW and contract, provide suppliers authorization to proceed	1	16-Jul-03	23-Jul-03		Viola		
	<b>Manufacture PVVS</b>	<b>16.4</b>	<b>23-Jul-03</b>	<b>15-Nov-03</b>		<b>Rohwedder MTM</b>		<b>9/29 baseline 11/14 forecast No slip relative to forecast</b>
<b>WBS 14</b>	<b>Modular Coils</b>							
	<b>Resolve winding pack geometry</b>							
	Update winding geometry to E04	1.8	25-Jun-03	7-Jul-03		Williamson		
	<b>Resolve thermal stress issues</b>							
	Review material properties information from UT and CTD	1	25-Jun-03	2-Jul-03		Williamson		
	Investigate features to mitigate thermal stresses, incorporate in winding pack design	1	25-Jun-03	2-Jul-03		Williamson		
	Establish temperature limits for modular coils	0.8	2-Jul-03	7-Jul-03		Williamson		
	<b>Resolve conductor design issues</b>							
	Conduct winding R&D and perform analyses to support:							
	- predicting keystoneing and squishability							
	- specifying insulation (half or butt lap)							
	- specifying conductor gauge, serve/no serve, and twist pitch							
	- specifying single vs. 2x2							
	- specifying conductor size (based on predicted keystoneing after correction)	4	2-Jun-03	30-Jun-03		Chrzanowski		
	Draft spec for conductor and insulation.	1	30-Jun-03	7-Jul-03		Williamson		
	PEER REVIEW OF WINDING PACK AND CONDUCTOR DESIGN	0	9-Jul-03	9-Jul-03		Williamson		
	<b>Resolve design issues with shell</b>							
	Resolve "wing" geometry	4	18-Jun-03	16-Jul-03		Williamson JPP EIO		

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	Complete mfg study of poloidal break	4	18-Jun-03	16-Jul-03		JPP EIO		
	Review existing spec and drawings for existing prototype design. Modify as needed to provide basis for procurement.	4	18-Jun-03	16-Jul-03		Heitzenroeder Brown		
	PEER REVIEW ON "WING" GEOMETRY AND POLOIDAL BREAK DESIGN - DECIDE ON PROTOTYPE MCWF GEOMETRY (OLD OR NEW)	0	16-Jul-03	16-Jul-03		Williamson JPP EIO		
<b>Update modular coil design</b>								
	Update design of modular coils consistent with resolution of winding and shell design issues	2	16-Jul-03	30-Jul-03		Williamson		
	Review drawings for Type C winding form, release at Final Design level	1	30-Jul-03	6-Aug-03		Williamson		
	Update spec for prototype winding form	1	30-Jul-03	6-Aug-03		Heitzenroeder		
	FDR ON PROTOTYPE MCWF	0	6-Aug-03	6-Aug-03		Williamson		
<b>Finalize MIT/QA Plan for prototype MCWF</b>								
	Issue draft MIT/QA plan - EIO	2	16-Jul-03	30-Jul-03		EIO		
	Issue draft MIT/QA Plan - JPP	2	16-Jul-03	30-Jul-03		JPP		
	DISCUSSION ON SUPPLIER MIT/QA PLANS FOR PROTOTYPE MCWF	0	30-Jul-03	30-Jul-03		Nelson		
<b>Authorize prototype MCWF fabrication</b>								
	Incorporate project comments in MIT/QA Plan - EIO	1	30-Jul-03	6-Aug-03		EIO		
	Incorporate project comments in MIT/QA Plan - JPP	1	30-Jul-03	6-Aug-03		JPP		
	Finalize SOW and contract, provide suppliers authorization to proceed	1	6-Aug-03	13-Aug-03		Viola		
						EIO		9/29/03 baseline
						JPP		1/14/04 forecast
								3-month slip
<b>Manufacture PVVS</b>		<b>34.7</b>	<b>13-Aug-03</b>	<b>11-Apr-04</b>				