Work Approval Form (WAF)

Cost Center: 9417/9418
Job Number: 1002/2460
Job Title: CS Plasma Facing Components/2nd NB Armor
Job Manager: Tresemer

Description:

1001: Due to a requisition coming in under budget by ~90K ($92,052.48, exactly), this money can be freed. There is no other impact to this job. 2460: Through a review process, it was found that the NB Armor WP lacked support for many tasks crucial to the success of the NB installation. Some reasons for this oversight lay in the fact that the job had been paused since the Spring 2012 to allow for more important tasks, in other areas of the Upgrade, to be completed. Once the NB Armor installation drew near, it was found that many items were missing from the installation tasks, such as funding for the re-fit of the Bay H port cover and a better breakdown of the installation itself.Costs were added for hardware, additional work to build specialized pieces for the cooling system, and additional installation time. "Scope" was added in that the old items covering the installation of the NB Armor were expanded to show the individual actions and what type of support they would need. This amounted to a larger estimate of time and man hours.

Schedule:

See Tab B or attached

Approvals:

Kelsey Tresemer
Digitally signed by Kelsey Tresemer
DN: cn=Kelsey Tresemer, o=PPPL, ou=Mechanical Engineering, email=ktreseme@pppl.gov, c=US
Date: 2012.11.27 14:03:34 -05'00'

Job Manager

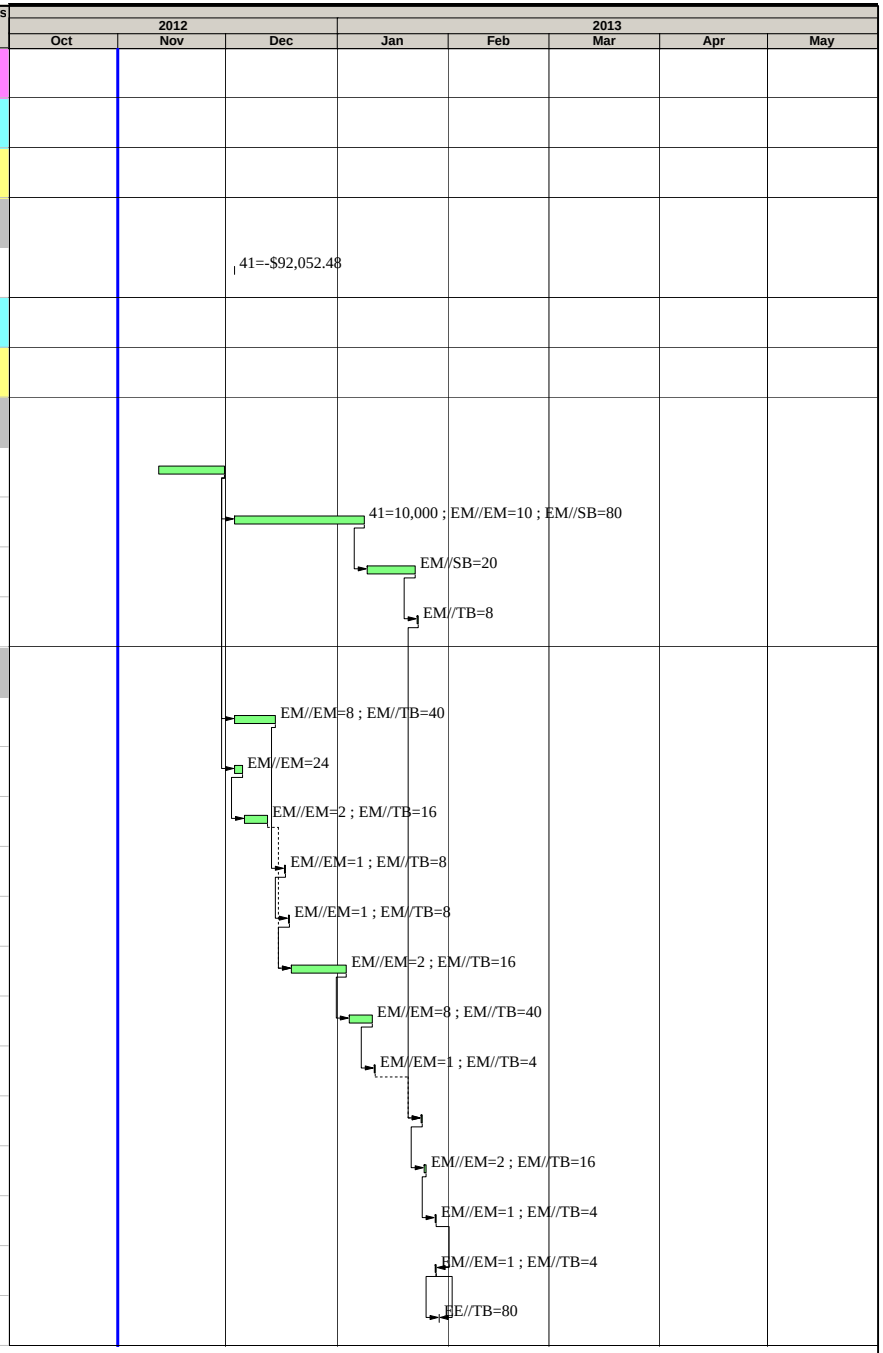
Ron Strykowsky
Digitally signed by Ron Strykowsky
DN: cn=Ron Strykowsky, o, ou=PPPL, email=rstrykow@pppl.gov, c=US
Date: 2012.11.29 10:13:27 -05'00'

Project Manager

Mike Williams
Digitally signed by Mike Williams
DN: cn=Mike Williams, o=PPPL, ou=Engineering and Infrastructure, email=williams@pppl.gov, c=US
Date: 2012.11.29 12:10:27 -05'00'

Engineering Department Head

Activity ID	Activity Name	Original Duration	Activity % Complete	Start	Finish	Budgeted Total Cost	evms rule
Total		47		12-Nov-12	29-Jan-13	($31,640.86)	
Job: 1001 - CS Plasma Facing Components-TRESEMER		0		03-Dec-12	03-Dec-12	($92,052.48)	
ECP-058		0		03-Dec-12	03-Dec-12	($92,052.48)	
Installation		0		03-Dec-12	03-Dec-12	($92,052.48)	
1001-0066F	Fabricate/Machine Tiles + diagnostics (CONTRACT AWARD CHANGE)	0	0%	03-Dec-12*	03-Dec-12	($92,052.48)	C
Job: 2460 - 2nd NBI Armor-TRESEMER		47		12-Nov-12	29-Jan-13	$60,411.62	
ECP-058		47		12-Nov-12	29-Jan-13	$60,411.62	
Procurement / Fabrication / Assembly		44		12-Nov-12	23-Jan-13	$29,348.24	
2460-0049	Fabricate backing plates (from RLS)	13	0%	12-Nov-12*	30-Nov-12	$0.00	E
2460-0063A	Bay H Mod: Procure/Modify flange, fab ports/manifolds	20	0%	03-Dec-12*	08-Jan-13	$25,805.80	E
2460-0063B	Bay H Mod: Clean up Bay H port (old cooling lines etc.)	10	0%	09-Jan-13*	22-Jan-13	$2,708.60	E
2460-0063C	Install TC flanges, blank-off flanges	1	0%	23-Jan-13	23-Jan-13	$833.84	E
Installation		34		03-Dec-12	29-Jan-13	$31,063.38	
2460-0063D	Backing plate fit-up	10	0%	03-Dec-12*	14-Dec-12	$5,586.32	E
2460-0063E	Vacuum Prep	3	0%	03-Dec-12*	05-Dec-12	$2,501.52	E
2460-0063F	Armor tile sub-assly with HW	5	0%	06-Dec-12*	12-Dec-12	$2,021.96	E
2460-0063G	Weld mounting brackets permanently in place	1	0%	17-Dec-12	17-Dec-12	$1,010.98	E
2460-0063H	Weld cooling lines (8, 3ft long) to couplings on back of armor	1	0%	18-Dec-12	18-Dec-12	$1,010.98	E
2460-0063I	TC install on armor tiles (1/2 of tiles get 2)	5	0%	19-Dec-12	03-Jan-13	$2,021.96	E
2460-0063J	Install armor quadrants, shim, metrology	5	0%	04-Jan-13*	10-Jan-13	$5,586.32	E
2460-0063K	Attach shine thru brackets/tiles	1	0%	11-Jan-13	11-Jan-13	$594.06	E
2460-0061	Bay H Port Cover Installation (from RLS)	1	0%	24-Jan-13	24-Jan-13	$0.00	E
2460-0063L	Connect TCs to feedthrus and bolt closed	1	0%	25-Jan-13*	25-Jan-13	$2,021.96	E
2460-0063M	Weld flex lines to manifolds on re-entry ports & bolt closed	1	0%	28-Jan-13	28-Jan-13	$594.06	E
2460-0063N	Blank off all other flanges	1	0%	28-Jan-13	28-Jan-13	$594.06	E
2460-0062	Additional budget for task: PTP Testing	0	0%	29-Jan-13	29-Jan-13	$7,519.20	E



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Materials and Subcontracts (M&S)

Basis of Estimate

Description:

Bay H Mod: Procure/modify flange, fab ports/manifolds	$ 10,000	6

CATEGORIZATION CODES:			
1 - National Standards	1	$ -	0%
2 - Engineering Judgement/Experience	2	$ -	0%
3 - Estimates/Data from External Sources (e.g., W7X, ATF, etc.)	3	$ -	0%
4 - Previous PPPL/ORNL Experieince (e.g., TFTR, NSTX, PLT, etc.)	4	$ -	0%
5 - Prototype Data/Test Results	5	$ -	0%
6 - Catelogue Price/Vendor Quote	6	$ 10,000	100%
7 - Placed Contracts	7	$ -	0%
8 - Actual experience for NCSX Work	8	$ -	0%
9 - Other	9	$ -	0%
	TOTALS	$ 10,000	100%

Resource Overview

	Data		
Resource ID Name	Sum of 1-Dec-12	Sum of 1-Jan-13	Total
41.41-M&S	7500	2500	10000
81.81 direct entry budget (no overhead	-92052		-92052
EE//TB.EE//TB-Electrical tech		80	80
EM//EM.EM//EM-FOM Engrg	21	17	38
EM//SB.EMSB	80	20	100
EM//TB.Machine Techs	106	82	188
Grand Total	-84345	2699	