NATIONAL SPHERICAL TORUS EXPERIMENT UPGRADE PROJECT
Engineering Change Proposal (ECP)
Part I To be Completed by Originator

Main Menu
Log
Print PDF

ECP-021

COVER PAGE

Top

Originator (CAM) Atnafu

Date Submitted 2/21/2012

ECP No. 021

ECP Title Replanning of work scope in Control Account 2425 to better fit project timing. Should equate to a slight budget reduction.

Required Reviewers (Change Control Board)
- ☐ Williams
- ☐ Strykowsky
- ☐ Dudek
- ☐ Stevenson
- ☐ Langish
- ☐ Other...

Change Level 3 Project Manager

Approvals

Change Level	Approving Official	Approval	Signature
3	NSTXU Project Manager	☒ Yes ☐ No	Ron Strykowsky Digitally signed by Ron Strykowsky DN: cn=Ron Strykowsky, o, ou=PPPL, email=rstrykow@pppl.gov, c=US Date: 2012.03.12 10:36:36 -04'00'
3a Expedited ECP	NSTXU Engineering Lead	☐ Yes ☐ No	
2	NSTXU Federal Project Dir.	☐ Yes ☐ No	
1	Associated Director OFES	☐ Yes ☐ No	
0	Deputy Secretary of Energy	☐ Yes ☐ No	

Approval Date

- **Primavera Updated** ☐
- **Cobra Updated** ☐
- **WAD Updated** ☐
- **RAM Updated** ☐

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Main Menu | Log | Print PDF

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PART I

Originator (CAM) Atnafu

Date Submitted 2/21/2012

Type of ECP ☒ Standard ☐ Expedited

Type of Change (Check all that apply) ☐ Technical ☐ Cost ☒ Schedule ☐ Editorial ☐ Other

Reason for Change

Impacted WBS Elements
- ☐ 1.1
- ☒ 1.2
- ☐ 1.3
- ☐ 1.4
- ☐ 1.5
- ☐ 1.6
- ☐ 1.7
- ☐ 1.8
- ☐ Other...

Control Account

☐ 1000	☐ 1306	☐ 2470	☐ 5000	☐ 8200
☐ 1001	☐ 1307	☐ 2475	☐ 5200	☐ 8210
☐ 1002	☐ 1310	☐ 2480	☐ 5501	☐ 8250
☐ 1200	☐ 2300	☐ 2485	☐ 6100	☐ Other...
☐ 1300	☐ 2420	☐ 2490	☐ 7200	
☐ 1301	☒ 2425	☐ 3200	☐ 7300	
☐ 1302	☐ 2430	☐ 3300	☐ 7400	
☐ 1303	☐ 2440	☐ 3400	☐ 7100	
☐ 1304	☐ 2450	☐ 4100	☐ 7710	
☐ 1305	☐ 2460	☐ 4500	☐ 7900	

Impacts of Change (Briefly Describe) **Re-arrange activities**

Impact on Materials Parts Already Manuf. ○ Yes ◉ No

If yes, what is recommended disposition

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Main Menu

Log

Print PDF

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Detailed Description of Change

Description of Change Update project schedule to reflect the attached schedule. Minimal budget reduction expected.

SUBMIT ECP

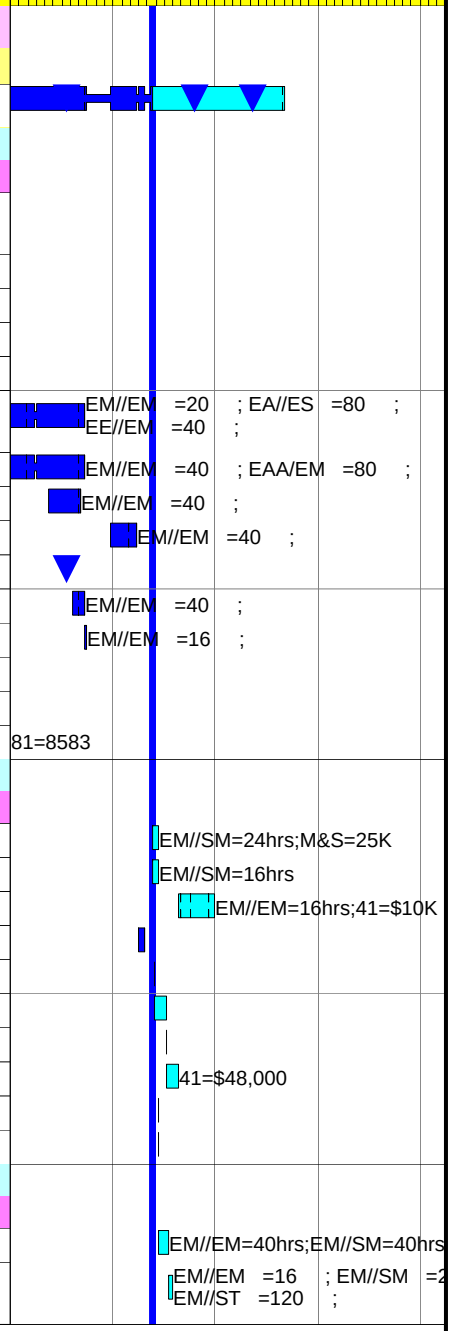
Do not fill in information below this point

List of Attachments ☒ Primavera Schedule (Before/After) ☐ Cobra (Before/After) ☐ Other...

NSTX Upgrade Project

Job: 2425 - BL Relocation-ATNAFU

Activity ID	Activity Description	Work Days	Forecast Start	Forecast Finish	BASELINE FINISH	Total Float	% Comp	Budgeted Cost	RESP	EVMS Rule
Subtotal		1,070	23FEB09A	31MAY13	28AUG13	843	35	1,796,964.03		
Design										
Final Design										
2425-0017	Design Drawings	24	03MAY10A	04JUN10A	04JUN10A		100	0.00	DENAULT	C
2425-0018	PDR Prep	11	07JUN10A	21JUN10A	21JUN10A		100	0.00	DENAULT	C
2425-0019	CONDUCT PDR	2	22JUN10A	23JUN10A	23JUN10A		100	0.00	DENAULT	C
2425-0020	Layman Review	5	10AUG10A	16AUG10A	16AUG10A		100	0.00	DENAULT	C
2425-0023	Disposition PDR Chits	2	24JUN10A	25JUN10A	25JUN10A		100	0.00	DENAULT	C
2425-0024	Design Drawings	177*	01OCT10A	17JUN11A	17JUN11A		100	17,041.40	DENAULT	C
2425-0025	Update Analyses	177*	01OCT10A	17JUN11A	17JUN11A		100	21,742.80	DENAULT	C
2425-0026	Update Cost & Schedule Estimate	81*	15FEB11A	08JUN11A	08JUN11A		100	6,328.40	DENAULT	C
2425-0027	Prep Procurement Specs	69*	19SEP11A	23DEC11A	23DEC11A		100	6,849.72	DENAULT	C
2425-0027A	Peer Review	0		14APR11A	14APR11A		100	0.00	DENAULT	B
2425-0028	FDR Prep	30*	06MAY11A	17JUN11A	17JUN11A		100	0.00	DENAULT	C
2425-0029	CONDUCT FDR 2425	3	22JUN11A	24JUN11A	24JUN11A		100	2,531.36	DENAULT	C
FY092425	FY09 Actual Cost	22*	23FEB09A	30SEP09A	30SEP09A		100	15,023.00	DENAULT	C
FY102425	FY10 Actual Cost	143	01OCT09A	30APR10A	30APR10A		100	19,729.00	DENAULT	C
FY102435A	FY10 Actual Cost	110	03MAY10A	30SEP10A	30SEP10A		100	6,165.00	DENAULT	C
Procure, Fab & Assembly										
Procurement										
2425-0001	Procure Material - Lifting Fixture	16*	20FEB12	12MAR12		72	0	36,391.92	ATNAFU	E
2425-0002	Procurement lead time (1) - Lifting Equipment	16*	20FEB12	12MAR12		72	0	2,761.28	ATNAFU	E
2425-0003	Rental of Lifting Equipment	90	23MAY12	28SEP12		87	0	15,675.84	ATNAFU	E
2425-0033	Prep Requisitn and procuremt pckg-Steel & Parts	22	03JAN12A	24JAN12A	24JAN12A		100	0.00	DENAULT	E
2425-0034B	SUBMIT REQ TO PROCUREMENT - Steel and Parts	1	24FEB12	24FEB12		1,099	0	0.00	ATNAFU	E
2425-0035B	Procurement lead time (1) - Steel and Parts	30	27FEB12	06APR12		1,099	0	0.00	ATNAFU	E
2425-0036B	AWARD - Steel and Parts	1	09APR12	09APR12		1,099	0	0.00	ATNAFU	E
2425-0037B	Fabricate or delivery - Steel and Parts	30	10APR12	21MAY12		1,099	0	0.00	ATNAFU	E
2425-0040B	SUBMIT REQ TO PROCUREMENT - Lifting Equipment	1	13MAR12	13MAR12		1,148	0	0.00	ATNAFU	E
2425-0042B	AWARD - Lifting Equipment	1	13MAR12	13MAR12		1,148	0	0.00	ATNAFU	E
Installation										
Fabrication / Assembly										
2425-0004	Fabrication & Assembly - Lift Fixtures	25	13MAR12	16APR12		72	0	47,801.20	ATNAFU	E
2425-0005	Load Test - Lift Fixtures	9	17APR12	27APR12		72	0	19,972.56	ATNAFU	E



Data Date 20FEB12
Run Date 09MAR12 09:21

123B
EVMS Rule
A = LOE K = Planning Pkg
B = Milestone
C = % Complete

NSTX UPGRADES
November 30, 2011 Status

Sheet 1 of 5

FORECAST
Progress Bar
Critical Activity

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Activity ID	Activity Description	Work Days	Forecast Start	Forecast Finish	BASELINE FINISH	Total Float	% Comp	Budgeted Cost	RESP	EVMS Rule	FY11 FY12 FY13 FY14
2425-0010	Welding Plates	10	27FEB12	09MAR12		81	0	21,224.00	ATNAFU	E	EM//SB =160 ;
2425-0011	Relocate the Box Legs	5	12MAR12	16MAR12		81	0	15,918.00	ATNAFU	E	EM//SB =120 ;
2425-0012	Duct Removal - Path	20	20FEB12	16MAR12		81	0	13,806.40	ATNAFU	E	EM//SM =80 ;
2425-0013	Electrical Conduits relocation	16	19MAR12	09APR12		81	0	32,996.00	ATNAFU	E	EA//DM =80 ; EE//SB =16
2425-0014	I-Beam Removal from the South Wall	5	10APR12	16APR12		86	0	9,723.84	ATNAFU	E	EM//SM =16 ; EM//ST =64
2425-0015	Lintel Lift Procedure	26	19MAR12	23APR12		81	0	6,939.60	ATNAFU	E	EM//EM =40 ;
2425-0016	Lintel Removal - Path	10	07MAY12	18MAY12		72	0	29,854.00	ATNAFU	E	EM//EM =24 ; EM//SM = EM//ST =96 ; EE/TB =1
2425-0017A	Clean the Area in TFTR, NTC & High Bay	14	21MAY12	08JUN12		430	0	63,850.40	ATNAFU	E	EM//SB =400 ;HP TECH=
2425-0018A	Lay Sheet Metal on Road - Path	5	11JUN12	15JUN12		1,072	0	13,806.40	ATNAFU	E	EM//SM =80 ;
2425-0019A	Metrology (Setup, Measure, Model & Layout)	46	20FEB12	23APR12		151	0	72,777.60	ATNAFU	E	EM//EM =160 ; EM//ST = EM//SM =160 ;
2425-0020A	Installation (Beamline Leg Mounting Plates)	9	24APR12	04MAY12		1,101	0	24,491.20	ATNAFU	E	EM//EM =80 ; EM//SB =8
2425-0021	Labyrinth Removal	9	18JUN12	28JUN12		1,072	0	35,066.80	ATNAFU	E	EM//EM =40 ; EM//SM EM//SB =160 ;
2425-0022	Duct Install - Path	5	26NOV12	30NOV12		72	0	10,834.40	ATNAFU	E	EM//SB =80 ;
2425-0063B	Lintel Install - Path	2	21MAY12	22MAY12		200	0	0.00	ATNAFU	E	EM//EM =08 ; EM//SM = EM//ST =64 ; EE//TB =1
2425-0069B	Measure - Metrology (DELETE)	15	24APR12	14MAY12		151	0	0.00	ATNAFU	E	EM//EM =480 ; EM//ST =
2425-0070B	Model - Metrology (DELETE)	5	15MAY12	21MAY12		151	0	0.00	ATNAFU	E	EM//EM =80 ; EA//SB =1
2425-0071B	Lay out - Metrology (DELETE)	5	22MAY12	29MAY12		151	0	0.00	ATNAFU	E	EM//EM =80 ; EM//ST = 41=3,000 ;
Installation											
2425-0006	Lift Fixtures transportation & Trial Runs	5	30APR12	04MAY12		72	0	19,972.56	ATNAFU	E	EM//EM =16 ; EM//SM =2 EM//ST =120 ;
2425-0078B	Move - Lift Fixtures	1	30APR12	30APR12		1,114	0	0.00	ATNAFU	E	EM//ST =24 ;
Title III											
2425-0007	Engineering 1 Days Per Week title III	306*	12FEB12A	01MAY13		215	0	102,118.79	ATNAFU	A	EM//EM =408 ;
2425-0008	Engineering Support .Days Per Weektitle III	306*	12FEB12A	01MAY13		215	0	49,758.97	ATNAFU	A	EM//EM =284 ;
2425-0009	Drafting Support .5 day/week title III	306*	12FEB12A	01MAY13		215	0	42,122.71	ATNAFU	A	EC//EM =284 ;
Relocate HVE											
Installation											
2425-0050	Move - HVE 1 Movement	2	21JAN13	22JAN13		194	0	9,659.60	ATNAFU	E	EM//EM =08 ; EM/ EM//SB =40 ;
2425-0051	Disassemble - HVE 1 Movement	2	23JAN13	24JAN13		194	0	9,325.92	ATNAFU	E	EM//SM =16 ; EM
2425-0052	Move to Crain Access - HVE 1 Movement	2	25JAN13	28JAN13		194	0	9,325.92	ATNAFU	E	EM//SM =16 ; EM
2425-0053	Lift into TFTR - HVE 1 Movement	1	29JAN13	29JAN13		194	0	4,662.96	ATNAFU	E	EM//SM =08 ; EM
2425-0054	Move In - HVE 1 Movement	1	30JAN13	30JAN13		194	0	4,662.96	ATNAFU	E	EM//SM =08 ; EM
2425-0055	Over Wall - HVE 1 Movement	2	31JAN13	01FEB13	01MAY13	194	0	9,659.60	ATNAFU	E	EM//SM =16 ; EM EM//EM=8
2425-0056	Reassemble - HVE 1 Movement	2	04FEB13	05FEB13	01MAY13	194	0	9,325.92	ATNAFU	E	EM//SM =16 ; EM
2425-0057	Placement - HVE 1 Movement	3	06FEB13	08FEB13	01MAY13	194	0	12,576.24	ATNAFU	E	EM//SM =16 ; EM
2425-0058	Move - HVE 2 Movement	2	11FEB13	12FEB13	28AUG13	194	0	9,659.60	ATNAFU	E	EM//EM =08 ; EM EM//SB =40 ;
2425-0059	Disassemble - HVE 2 Movement	2	13FEB13	14FEB13		194	0	9,325.92	ATNAFU	E	EM//SM =16 ; EM

Activity ID	Activity Description	Work Days	Forecast Start	Forecast Finish	BASELINE FINISH	Total Float	% Comp	Budgeted Cost	RESP	EVMS Rule	FY11 FY12 FY13 FY14
2425-0060	Move to Crain Access - HVE 2 Movement	2	15FEB13	18FEB13	01JUN12	194	0	9,325.92	ATNAFU	E	EM//SM =16 ; EM
2425-0061	Lift into TFTR - HVE 2 Movement	1	19FEB13	19FEB13	05JUN12	194	0	4,662.96	ATNAFU	E	EM//SM =08 ; EM
2425-0062	Move In - HVE 2 Movement	1	20FEB13	20FEB13	08JUN12	194	0	4,662.96	ATNAFU	E	EM//SM =08 ; EM
2425-0063	Over Wall - HVE 2 Movement	2	21FEB13	22FEB13	12JUN12	194	0	9,659.60	ATNAFU	E	EM//SM =16 ; EM EM//EM=8
2425-0064	Reassemble - HVE 2 Movement	2	25FEB13	26FEB13	14JUN12	194	0	9,325.92	ATNAFU	E	EM//SM =16 ; EM
2425-0065	Placement - HVE 2 Movement	3	27FEB13	01MAR13		194	0	12,576.24	ATNAFU	E	EM//SM =16 ; EM
2425-0066	Move - HVE 3 Movement	2	04MAR13	05MAR13		194	0	9,659.60	ATNAFU	E	EM//EM =08 ; EM EM//SB =40 ;
2425-0067	Disassemble - HVE 3 Movement	2	06MAR13	07MAR13		194	0	9,325.92	ATNAFU	E	EM//SM =16 ; EM
2425-0068	Move to Crain Access - HVE 3 Movement	2	08MAR13	11MAR13	21JUN12	194	0	9,325.92	ATNAFU	E	EM//SM =16 ; EM
2425-0069	Lift into TFTR - HVE 3 Movement	1	12MAR13	12MAR13	13JUL12	194	0	4,662.96	ATNAFU	E	EM//SM =08 ; EM
2425-0070	Move In - HVE 3 Movement	1	13MAR13	13MAR13	20JUL12	194	0	4,662.96	ATNAFU	E	EM//SM =08 ; EM
2425-0071	Over Wall - HVE 3 Movement	2	14MAR13	15MAR13	27JUL12	194	0	9,659.60	ATNAFU	E	EM//SM =16 ; EM EM//EM =8
2425-0072	Reassemble - HVE 3 Movement	2	18MAR13	19MAR13		194	0	9,325.92	ATNAFU	E	EM//SM =16 ; EM
2425-0073	Placement - HVE 3 Movement	3	20MAR13	22MAR13	24SEP12	194	0	12,576.24	ATNAFU	E	EM//SM =16 ; E
2425-0074	Install HVE Hilti	10	25MAR13	05APR13		194	0	23,323.76	ATNAFU	C	EM//SM =24 EM//EM=16 ;
2425-0075	Move Transmission Line	2	08APR13	09APR13		194	0	11,301.12	ATNAFU	C	EM//SM =24 EM//EM=16 ;
2425-0076	Remove / Reinstall Floor Plug	4	10APR13	15APR13	05SEP12	194	0	22,656.40	ATNAFU	C	EM//SM =24 41=3,000 ;
2425-0077	Test Cell Maintenance	9	16APR13	26APR13	12SEP12	194	0	46,313.84	ATNAFU	C	EM//SM =48 EM//EM=24
Relocate Beamline **TC LIMITED ACCESS**											
Installation											
2425-0000	BEGIN BEAMLINE RELOCATION TO NTC	0	17JUL12			195	0	0.00	ATNAFU	B	
2425-0023A	Lift Procedure, JHA & Work Permit	20	04JUN12	29JUN12		72	0	6,939.60	ATNAFU	E	EM//EM =40 ;
2425-0024A	Hoisting & Rigging of Box	10	02JUL12	16JUL12		72	0	70,409.00	ATNAFU	E	EM//EM =100 ; EM//SB ;
2425-0025A	Bending Magnet Stand Movement	4	17JUL12	20JUL12		72	0	21,224.00	ATNAFU	E	EM//SB =160 ;
2425-0026A	Remove East Side Walk Way from Lid	5	23JUL12	27JUL12		72	0	10,612.00	ATNAFU	E	EM//SB =80 ;
2425-0027B	Hoisting & Rigging of Lid	10	30JUL12	10AUG12		72	0	53,674.20	ATNAFU	E	EM//EM =80 ; EM//SB
2425-0028A	Placement - Lid Movement	3	13AUG12	15AUG12		72	0	11,428.80	ATNAFU	E	EM//EM =20 ; EM//SM
2425-0029A	Alignment Lid Movement (Metrology)	2	16AUG12	17AUG12		72	0	10,857.68	ATNAFU	E	EM//EM =32 ; EM//SB
2425-0030	Lid Cover Plates Movement	3	20AUG12	22AUG12		72	0	9,550.80	ATNAFU	E	EM//SB =72 ;
2425-0031	Lift Procedure, JHA & Work Permit	20	04JUN12	29JUN12		109	0	6,939.60	ATNAFU	E	EM//EM =40 ;
2425-0032	Hoisting & Rigging of Beamline	5	23AUG12	29AUG12		72	0	22,839.40	ATNAFU	E	EM//EM =20 ; EM//SM EM//SB =120 ;
2425-0033A	Assemble Beamline legs	2	30AUG12	31AUG12		72	0	8,757.60	ATNAFU	E	EM//SB =40 ; EM//SM
2425-0034	Metrology Beamline	9	04SEP12	14SEP12	29FEB12	72	0	43,025.80	ATNAFU	E	EM//SB =40 ; EM//SM EM//EM=40

Activity ID	Activity Description	Work Days	Forecast Start	Forecast Finish	BASELINE FINISH	Total Float	% Comp	Budgeted Cost	RESP	EVMS Rule	FY11 FY12 FY13 FY14
2425-0035	Beamline Alignment Hoisting & Rigging	5	17SEP12	21SEP12	11APR12	72	0	22,839.40	ATNAFU	E	EM//EM =20 ; EM//SM EM//SB =120 ;
2425-0036	Beamline Legs hilti	10	24SEP12	05OCT12	12APR12	72	0	23,079.76	ATNAFU	E	EM//EM =16 ; EM//SM EM//SB =120 ;
2425-0037	Welding Box Legs	10	08OCT12	19OCT12	24MAY12	72	0	21,668.80	ATNAFU	E	EM//SB =160 ;
2425-0038	Off - Source Platform	3	22OCT12	24OCT12		72	0	11,009.42	ATNAFU	E	EM//SM =24 ; EM//S
2425-0039	Move - Source Platform	4	25OCT12	30OCT12	09MAY12	72	0	13,659.68	ATNAFU	E	EM//SM =16 ; EM//S
2425-0040	Lift - Source Platform	3	31OCT12	02NOV12	10MAY12	72	0	10,680.22	ATNAFU	E	EM//SM =16 ; EM//S
2425-0041	On - Source Platform	3	05NOV12	07NOV12	22JUN12	72	0	9,267.92	ATNAFU	E	EM//SM =16 ; EM//S
2425-0042	Metrology - Source Platform	9	09NOV12	21NOV12	25JUN12	72	0	53,252.00	ATNAFU	E	EM//EM =40 ; EM//S EM//ST =240 ; 41=5
2425-0043	90in Flange - Component Movement	5	26NOV12	30NOV12	07AUG12	72	0	16,910.00	ATNAFU	E	EM//SM =16 ; EM//S
2425-0044	Magnet - Component Movement	3	03DEC12	05DEC12		72	0	13,659.68	ATNAFU	E	EM//SB =80 ; EM//S
2425-0045	Ion Dump - Component Movement	2	06DEC12	07DEC12		72	0	8,667.52	ATNAFU	E	EM//SB =64 ;
2425-0046	Exit Spool - Component Movement	3	10DEC12	12DEC12		72	0	13,659.68	ATNAFU	E	EM//SM =16 ; EM//
2425-0047	TIV - Component Movement	2	13DEC12	14DEC12		72	0	9,325.92	ATNAFU	E	EM//SM =16 ; EM//
2425-0048	Calorimeter - Component Movement	5	17DEC12	21DEC12		72	0	19,501.92	ATNAFU	E	EM//SB =144 ;
2425-0049	Clean the Beamline Area	13	02JAN13	18JAN13		72	0	66,903.68	ATNAFU	E	EM//EM =32 ; EM/ EM//SB =400 ; ;
2425-0083B	Move IN - Box Movements (DELETE)	1	30MAY12	30MAY12		151	0	0.00	ATNAFU	E	EM//EM =08 ; EM//SM = EM//ST =48 ;
2425-0084B	Over Wall - Box Movements (DELETE)	1	31MAY12	31MAY12		151	0	0.00	ATNAFU	E	EM//EM =08 ; EM//SM = EM//ST =48 ;
2425-0085B	Placement - Box Movements (DELETE)	10	01JUN12	14JUN12		151	0	0.00	ATNAFU	E	EM//EM =80 ; EM//SM = EM//ST =480 ;
2425-0086B	Metrology - Box Movements	10	15JUN12	28JUN12		151	0	0.00	ATNAFU	E	EM//EM =80 ; EM//SM EM//ST =160 ; 41=12,00
2425-0098B	Lift onto Rollers - Lid Movement (DELETE)	1	13AUG12	13AUG12		1,039	0	0.00	ATNAFU	E	EM//EM =08 ; EM//SM EM//ST =48 ;
2425-0099B	Move IN - Lid Movement (DELETE)	1	14AUG12	14AUG12		1,039	0	0.00	ATNAFU	E	EM//EM =08 ; EM//SM EM//ST =48 ;
2425-0100B	Over Wall - Lid Movement (DELETE)	1	15AUG12	15AUG12		1,039	0	0.00	ATNAFU	E	EM//EM =08 ; EM//SM EM//ST =48 ;
2425-9999	BEAMLINE AND COMPONENTS INSTALLED IN NTC	0		07FEB13		58	0	0.00	ATNAFU	B	
Relocate Sources											
Installation											
2425-0078	Move 1 - Source Movement	3	29APR13	01MAY13	13SEP12	194	0	13,659.68	ATNAFU	E	EM//SM =16 ; E
2425-0079	Align 1 - Source Movement	4	02MAY13	07MAY13	20SEP12	194	0	18,660.80	ATNAFU	E	EM//EM =16 ; EM//ST =128 ;
2425-0080	Move 2 - Source Movement	3	08MAY13	10MAY13		194	0	13,659.68	ATNAFU	E	EM//SM =16 ;
2425-0081	Align 2 - Source Movement	4	13MAY13	16MAY13		194	0	18,660.80	ATNAFU	E	EM//EM =16 ; EM//SB =96 ;
2425-0082	Move 3 - Source Movement	3	17MAY13	21MAY13	25SEP12	194	0	13,659.68	ATNAFU	E	EM//SM =16 ;
2425-0083	Align 3 - Source Movement	3	22MAY13	24MAY13	26SEP12	194	0	23,940.80	ATNAFU	E	EM//EM =16 ; EM//SB =96 ;

Activity ID	Activity Description	Work Days	Forecast Start	Forecast Finish	BASELINE FINISH	Total Float	% Comp	Budgeted Cost	RESP	EVMS Rule	FY11	FY12	FY13	FY14
2425-0084	Fill Out Paper Work & Complete Work	4	28MAY13	31MAY13	27SEP12	194	0	9,910.88	ATNAFU	E			EM//EM =40 EM//ST =128	;