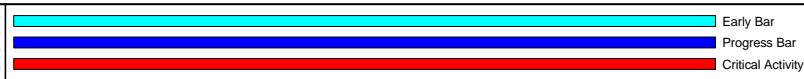


| Activity ID                                    | Activity Description                             | Orig Dur | Early Start | Early Finish | Total Float | Budgeted Cost | Resource Loaded Schedule  |      |      |      |      |      |  |  |  |  |  |  |
|--|--|----------|-------------|--------------|-------------|---------------|---------------------------|------|------|------|------|------|--|--|--|--|--|--|
|  |  |          |             |              |             |               | FY10                      | FY11 | FY12 | FY13 | FY14 | FY15 |  |  |  |  |  |  |
| <b>Critical Decisions</b>                      |  |          |             |              |             |               |                           |      |      |      |      |      |  |  |  |  |  |  |
| CDR  | PROJECT CDR                                      | 0        |             | 28OCT09*     | 2,285       | 0.00          | ▼                         |      |      |      |      |      |  |  |  |  |  |  |
| CD1  | CD1  | 0        |             | 15DEC09*     | 2,253       | 0.00          | ▼                         |      |      |      |      |      |  |  |  |  |  |  |
| PDR  | PROJECT PDR                                      | 0        |             | 15JUN10*     | 2,111       | 0.00          | ▼                         |      |      |      |      |      |  |  |  |  |  |  |
| CD2  | CD2  | 0        |             | 14JUL10      | 2,111       | 0.00          | ▼                         |      |      |      |      |      |  |  |  |  |  |  |
| FDR  | PROJECT FDR                                      | 0        |             | 28MAR11*     | 1,917       | 0.00          | ▼                         |      |      |      |      |      |  |  |  |  |  |  |
| CD3  | CD3  | 0        |             | 25APR11      | 1,917       | 0.00          | ▼                         |      |      |      |      |      |  |  |  |  |  |  |
| SD-1   | NSTX COMPLETE OPERATIONS                         | 0        |             | 01AUG11*     | 185         | 0.00          | ▼                         |      |      |      |      |      |  |  |  |  |  |  |
| SD-2   | BEGIN UPGRADE OUTAGE                             | 0        |             | 29AUG11      | 185         | 0.00          | ▼                         |      |      |      |      |      |  |  |  |  |  |  |
| SD-3   | RESUME OPERATIONS (Early Start)                  | 0        |             | 18OCT13      | 1           | 0.00          | ▼                         |      |      |      |      |      |  |  |  |  |  |  |
| CD4  | CD4  | 0        |             | 26MAY14      | 216         | 0.00          | ▼                         |      |      |      |      |      |  |  |  |  |  |  |
| Subtotal                                       |  | 1,151    | 29OCT09     | 26MAY14      | 1,134       | 0.00          | ▼                         |      |      |      |      |      |  |  |  |  |  |  |
| <b>Job: 1000 - CSU Analytical Support</b>      |  |          |             |              |             |               |                           |      |      |      |      |      |  |  |  |  |  |  |
| CS1000010                                      | 96 Scenarios Loads, Process Results - Prelim Dsg | 140      | 03NOV09*    | 28MAY10      | 1,942       | 18,621.00     | EA/EM =100 ;              |      |      |      |      |      |  |  |  |  |  |  |
| CS1000020                                      | Agreed Power Supply Limit Currents - Prelim Dsgn | 140      | 03NOV09     | 28MAY10      | 1,942       | 18,621.00     | EA/EM =100 ;              |      |      |      |      |      |  |  |  |  |  |  |
| CS1000030                                      | Maintain Model - Scenario Design Changes - Prelm | 140      | 03NOV09     | 28MAY10      | 1,942       | 18,621.00     | EA/EM =100 ;              |      |      |      |      |      |  |  |  |  |  |  |
| CS1000040                                      | Engineering System Requirements Document - Prelm | 140      | 03NOV09     | 28MAY10      | 1,942       | 11,172.60     | EA/EM =60 ;               |      |      |      |      |      |  |  |  |  |  |  |
| CS1000050                                      | Review Calculations - Prelim Dsgn                | 140      | 03NOV09     | 28MAY10      | 1,942       | 5,586.30      | EA/EM =30 ;               |      |      |      |      |      |  |  |  |  |  |  |
| CS1000060                                      | Analysis Reserve - Analyze Problem areas - Prelm | 140      | 03NOV09     | 28MAY10      | 2,142       | 0.00          | EA/EM =100 ;              |      |      |      |      |      |  |  |  |  |  |  |
| CS1000070                                      | Documentation-calculations - Prelim Dsgn         | 140      | 03NOV09     | 28MAY10      | 1,942       | 1,585.00      | EM/EM =10 ;               |      |      |      |      |      |  |  |  |  |  |  |
| CS1000080                                      | 96 Scenarios Loads, Process Results - Final Dsgn | 200      | 01JUN10*    | 21MAR11      | 1,942       | 18,887.76     | EA/EM =100 ;              |      |      |      |      |      |  |  |  |  |  |  |
| CS1000090                                      | Agreed Power Supply Limit Currents - Final Dsgn  | 200      | 01JUN10     | 21MAR11      | 1,942       | 18,887.76     | EA/EM =100 ;              |      |      |      |      |      |  |  |  |  |  |  |
| CS1000100                                      | Maintain Model - Scenario Design Changes - Final | 200      | 01JUN10     | 21MAR11      | 1,942       | 18,887.76     | EA/EM =100 ;              |      |      |      |      |      |  |  |  |  |  |  |
| CS1000110                                      | Engineering System Requirements Document - Final | 200      | 01JUN10     | 21MAR11      | 1,942       | 15,110.21     | EA/EM =80 ;               |      |      |      |      |      |  |  |  |  |  |  |
| CS1000120                                      | Review Calculations - Final Dsgn                 | 200      | 01JUN10     | 21MAR11      | 1,942       | 22,665.31     | EA/EM =120 ;              |      |      |      |      |      |  |  |  |  |  |  |
| CS1000130                                      | Analysis Reserve - Analyze Problem areas - Final | 200      | 01JUN10     | 21MAR11      | 1,942       | 67,995.94     | EA/EM =360 ;              |      |      |      |      |      |  |  |  |  |  |  |
| CS1000140                                      | Documentation-calculations - Final Dsgn          | 200      | 01JUN10     | 21MAR11      | 1,942       | 1,607.69      | EM/EM =10 ;               |      |      |      |      |      |  |  |  |  |  |  |
| Subtotal                                       |  | 340      | 03NOV09     | 21MAR11      | 1,942       | 238,249.33    |                           |      |      |      |      |      |  |  |  |  |  |  |
| <b>Job: 1001 - CS Plasma Facing Components</b> |  |          |             |              |             |               |                           |      |      |      |      |      |  |  |  |  |  |  |
| <b>Design</b>                                  |  |          |             |              |             |               |                           |      |      |      |      |      |  |  |  |  |  |  |
| CS1001010                                      | Preliminary Planning/Fact Finding                | 20       | 01OCT09*    | 28OCT09      | 2,190       | 12,680.00     | EM/EM =80 ;               |      |      |      |      |      |  |  |  |  |  |  |
| CS1001020                                      | Tile Layout/Preliminary Tile Design              | 15       | 29OCT09     | 18NOV09      | 2,190       | 14,799.60     | EA/SB =120 ;              |      |      |      |      |      |  |  |  |  |  |  |
| CS1001030                                      | Diagnostic Layout                                | 10       | 19NOV09     | 04DEC09      | 2,190       | 13,036.40     | EM/EM =20 ; EA/SB =80 ;   |      |      |      |      |      |  |  |  |  |  |  |
| CS1001040                                      | PPPL Peer Review Prep                            | 4        | 07DEC09     | 10DEC09      | 2,190       | 6,482.56      | EM/EM =16 ; EA/SB =32 ;   |      |      |      |      |      |  |  |  |  |  |  |
| CS1001050                                      | PPPL Peer Review                                 | 1        | 11DEC09     | 11DEC09      | 2,190       | 2,254.64      | EM/EM =08 ; EA/SB =08 ;   |      |      |      |      |      |  |  |  |  |  |  |
| CS1001060                                      | Tile/Diagnostic/Hardware Reconfig, Mat. Research | 40       | 14DEC09     | 16FEB10      | 2,190       | 28,183.00     | EM/EM =100 ; EA/SB =100 ; |      |      |      |      |      |  |  |  |  |  |  |

Start Date 01AUG05  
 Finish Date 26MAY14  
 Data Date 01OCT09  
 Run Date 15OCT09 13:00



| Activity ID                        | Activity Description                           | Orig Dur | Early Start | Early Finish | Total Float | Budgeted Cost | FY10 |  |  |  |  |  | FY11                                 |  |  |  |  |  | FY12 |  |  |  |  |  | FY13 |  |  |  |  |  | FY14 |  |  |  |  |  | FY15 |  |  |  |  |  |
|------------------------------------|--|----------|-------------|--------------|-------------|---------------|------|--|--|--|--|--|--------------------------------------|--|--|--|--|--|------|--|--|--|--|--|------|--|--|--|--|--|------|--|--|--|--|--|------|--|--|--|--|--|
|                                    |  |          |             |              |             |               |      |  |  |  |  |  |                                      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS1001070                          | Tile Thermal Analysis                          | 15       | 17FEB10     | 09MAR10      | 2,190       | 20,111.00     |      |  |  |  |  |  | EA/EC =80 ; EM/EM =30 ;              |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS1001080                          | PU CDR prep                                    | 5        | 10MAR10     | 16MAR10      | 2,190       | 9,688.20      |      |  |  |  |  |  | EM/EM =30 ; EA/SB =40 ;              |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS1001090                          | PPPL CDR                                       | 1        | 17MAR10     | 17MAR10      | 2,194       | 2,254.64      |      |  |  |  |  |  | EM/EM =08 ; EA/SB =08 ;              |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS1001100                          | CDR Chit Resolution                            | 10       | 03NOV09*    | 16NOV09      | 116         | 9,603.40      |      |  |  |  |  |  | EM/EM =40 ; EA/DM =30 ;              |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS1001110                          | Tile Analysis Continued?                       | 30       | 17NOV09     | 08JAN10      | 126         | 24,309.60     |      |  |  |  |  |  | EM/EM =60 ; EA/SB =120 ;             |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS1001120                          | FMEA Analysis                                  | 15       | 17NOV09     | 09DEC09      | 141         | 9,510.00      |      |  |  |  |  |  | EM/EM =60 ;                          |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS1001130                          | Prepare NEPA Form                              | 1        | 17NOV09     | 17NOV09      | 2,271       | 1,268.00      |      |  |  |  |  |  | EM/EM =08 ;                          |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS1001140                          | Order Material Samples                         | 20       | 17NOV09     | 16DEC09      | 116         | 18,740.00     |      |  |  |  |  |  | EM/EM =40 ; 41=5,000 ;<br>35=5,000 ; |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS1001150                          | Material Testing                               | 20       | 17DEC09     | 22JAN10      | 116         | 13,669.60     |      |  |  |  |  |  | EM/EM =40 ; EM/TB =80 ;              |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS1001160                          | Update Cost & Schedule Estimate                | 5        | 17MAR10     | 23MAR10      | 2,190       | 3,962.50      |      |  |  |  |  |  | EM/EM =25 ;                          |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS1001170                          | Design Drawings                                | 80       | 25JAN10     | 14MAY10      | 116         | 78,931.20     |      |  |  |  |  |  | EA/SB =640 ;                         |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS1001180                          | PDR Prep                                       | 10       | 17MAY10     | 28MAY10      | 116         | 8,806.60      |      |  |  |  |  |  | EM/EM =40 ; EA/SB =20 ;              |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS1001185                          | Conduct PDR                                    | 1        | 01JUN10     | 01JUN10      | 116         | 1,268.00      |      |  |  |  |  |  | EM/EM =08 ;                          |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS1001190                          | Disposition PDR Chits                          | 20       | 02JUN10     | 29JUN10      | 116         | 20,079.80     |      |  |  |  |  |  | EM/EM =80 ; EA/SB =60 ;              |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS1001200                          | Update Analyses                                | 65       | 30JUN10     | 30SEP10      | 116         | 23,281.00     |      |  |  |  |  |  | EM/EM =50 ; EA/EC =80 ;              |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS1001210                          | Update Cost & Schedule Estimate                | 5        | 01OCT10     | 07OCT10      | 2,051       | 3,249.60      |      |  |  |  |  |  | EM/EM =20 ;                          |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS1001220                          | Design Drawings                                | 98       | 01OCT10     | 25FEB11      | 116         | 223,040.00    |      |  |  |  |  |  | EA/DM =2,000 ;                       |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS1001230                          | Prep Procurement Specs                         | 15       | 28FEB11     | 18MAR11      | 116         | 9,748.80      |      |  |  |  |  |  | EM/EM =60 ;                          |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS1001240                          | FDR Prep                                       | 10       | 21MAR11     | 01APR11      | 116         | 8,283.52      |      |  |  |  |  |  | EM/EM =40 ; EA/DM =16 ;              |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS1001250                          | CONDUCT FDR                                    | 1        | 04APR11     | 04APR11      | 116         | 1,299.84      |      |  |  |  |  |  | EM/EM =08 ;                          |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| <b>Procure, Fab &amp; Assembly</b> |  |          |             |              |             |               |      |  |  |  |  |  |                                      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS1001280                          | Prep Requisition and procurement package-Tiles | 4        | 05APR11*    | 08APR11      | 116         | 2,599.68      |      |  |  |  |  |  | EM/EM =16 ;                          |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS1001290                          | SUBMIT REQ TO PROCUREMENT - Tiles              | 2        | 11APR11     | 12APR11      | 116         | 1,299.84      |      |  |  |  |  |  | EM/EM =08 ;                          |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS1001300                          | Procurement lead time (1) - Tiles              | 30       | 13APR11     | 24MAY11      | 116         | 0.00          |      |  |  |  |  |  |                                      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS1001310                          | AWARD - Tiles                                  | 1        | 29AUG11*    | 29AUG11      | 50          | 0.00          |      |  |  |  |  |  |                                      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS1001320                          | Fabricate or delivery - Tiles                  | 60       | 30AUG11     | 22NOV11      | 50          | 850,525.00    |      |  |  |  |  |  | 41=650,000 ;                         |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS1001330                          | Machining of tiles for diagnostics             | 20       | 23NOV11     | 22DEC11      | 1,749       | 35,203.20     |      |  |  |  |  |  | EM/TB =160 ; 41=15,000 ;             |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS1001340                          | Prep Req & proc pkg- Hardware & Other Material | 4        | 13APR11*    | 18APR11      | 150         | 2,599.68      |      |  |  |  |  |  | EM/EM =16 ;                          |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS1001350                          | SUBMIT REQ TO PROC - Hardware & Other Material | 2        | 19APR11     | 20APR11      | 150         | 1,299.84      |      |  |  |  |  |  | EM/EM =08 ;                          |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS1001360                          | Proc lead time (1)- Hardware & Other Material  | 20       | 21APR11     | 18MAY11      | 150         | 0.00          |      |  |  |  |  |  |                                      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS1001370                          | AWARD- Hardware & Other Material               | 1        | 19MAY11     | 19MAY11      | 150         | 0.00          |      |  |  |  |  |  |                                      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS1001380                          | Fab or delivery- Hardware & Other Material     | 30       | 03OCT11*    | 11NOV11      | 57          | 198,000.00    |      |  |  |  |  |  | 41=150,000 ;                         |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS1001390                          | Fab/Assy Procedure                             | 20       | 25MAY11     | 22JUN11      | 1,856       | 12,998.40     |      |  |  |  |  |  | EM/EM =80 ;                          |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS1001400                          | Shop Fabrication                               | 20       | 23JUN11     | 21JUL11      | 1,856       | 11,271.60     |      |  |  |  |  |  | EM/TB =120 ;                         |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS1001410                          | Assembly                                       | 20       | 23NOV11     | 22DEC11      | 50          | 11,552.40     |      |  |  |  |  |  | EM/TB =120 ;                         |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS1001420                          | Installation Procedure                         | 25       | 05APR11     | 09MAY11      | 208         | 14,623.20     |      |  |  |  |  |  | EM/EM =90 ;                          |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS1001440                          | Machine Installation                           | 45       | 23DEC11     | 02MAR12      | 50          | 44,650.20     |      |  |  |  |  |  | EM/EM =60 ; EM/TB =360 ;             |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS1001450                          | Tile re-fit and additional machining           | 20       | 05MAR12     | 30MAR12      | 50          | 22,065.20     |      |  |  |  |  |  | EM/EM =40 ; EM/TB =160 ;             |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| FY091110                           | FY09 Actual Cost                               | 22*      | 01JAN09A    | 30SEP09A     |             | 64,576.00     |      |  |  |  |  |  |                                      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| Subtotal                           |  | 814      | 01JAN09A    | 30MAR12      | 1,684       | 1,841,805.74  |      |  |  |  |  |  |                                      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |

| Activity ID  | Activity Description                             | Orig Dur | Early Start | Early Finish | Total Float | Budgeted Cost | FY10   |  |  |  |  |  |  |  |  |  |  |  | FY11 |  |  |  |  |  |  |  |  |  |  |  | FY12 |  |  |  |  |  |  |  |  |  |  |  | FY13 |  |  |  |  |  |  |  |  |  |  |  | FY14 |  |  |  |  |  |  |  |  |  |  |  | FY15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|----------|-------------|--------------|-------------|---------------|--|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|  |  |          |             |              |             |               |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Job: 1002 -Passive Plate Analysis &amp; Upgrade Act</b> |  |          |             |              |             |               |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS1002010  | Check Time Points - Re-run                       | 164      | 01OCT09*    | 01JUN10      | 1,941       | 6,340.00      | EM//EM =40 ;   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS1002020  | Check Currents With Ron Hatcher Opera            | 164      | 01OCT09     | 01JUN10      | 1,941       | 6,340.00      | EM//EM =40 ;   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS1002030  | Mesh Passive Plate Cad Model                     | 164      | 01OCT09     | 01JUN10      | 1,941       | 6,340.00      | EM//EM =40 ;   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS1002040  | Run rest of disruption cases                     | 164      | 01OCT09     | 01JUN10      | 1,941       | 19,020.00     | EM//EM =120 ;  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS1002050  | Halo Current Analysis of Passive Plates          | 164      | 01OCT09     | 01JUN10      | 2,141       | 3,170.00      | EM//EM =20 ;   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS1002060  | Design Reinforcements                            | 164      | 01OCT09     | 01JUN10      | 1,941       | 6,340.00      | EM//EM =40 ;   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS1002070  | Analyze/Confirm Reinforcement Design             | 164      | 01OCT09     | 01JUN10      | 1,941       | 6,340.00      | EM//EM =40 ;   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS1002080  | Propose/Design/Monitor Diagnostic                | 164      | 01OCT09     | 01JUN10      | 1,941       | 6,340.00      | EM//EM =40 ;   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS1002090  | Lithium Divertor Analysis                        | 164      | 01OCT09     | 01JUN10      | 1,941       | 6,340.00      | EM//EM =40 ;   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS1002100  | Spark or Opera Benchmark                         | 164      | 01OCT09     | 01JUN10      | 1,941       | 7,448.40      | EA//EM =40 ;   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS1002110  | Documentation-calculations                       | 164      | 01OCT09     | 01JUN10      | 1,941       | 1,585.00      | EM//EM =10 ;   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS10022120   | Check Time Points - Re-run                       | 200      | 02JUN10*    | 22MAR11      | 1,941       | 6,431.54      | EM//EM =40 ;   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS10022130   | Check Currents With Ron Hatcher Opera            | 200      | 02JUN10     | 22MAR11      | 1,941       | 6,431.54      | EM//EM =40 ;   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS10022140   | Mesh Passive Plate Cad Model                     | 200      | 02JUN10     | 22MAR11      | 1,941       | 6,431.54      | EM//EM =40 ;   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS10022150   | Run rest of disruption cases                     | 200      | 02JUN10     | 22MAR11      | 1,941       | 19,294.62     | EM//EM =120 ;  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS10022160   | Halo Current Analysis of Passive Plates          | 200      | 02JUN10     | 22MAR11      | 1,941       | 12,863.08     | EM//EM =80 ;   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS10022170   | Design Reinforcements                            | 200      | 02JUN10     | 22MAR11      | 1,941       | 6,431.54      | EM//EM =40 ;   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS10022180   | Analyze/Confirm Reinforcement Design             | 200      | 02JUN10     | 22MAR11      | 1,941       | 6,431.54      | EM//EM =40 ;   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS10022190   | Propose/Design/Monitor Diagnostic                | 200      | 02JUN10     | 22MAR11      | 1,941       | 16,078.85     | EM//EM =100 ;  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS10022200   | Lithium Divertor Analysis                        | 200      | 02JUN10     | 22MAR11      | 1,941       | 9,647.31      | EM//EM =60 ;   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS10022210   | Spark or Opera Benchmark                         | 200      | 02JUN10     | 22MAR11      | 1,941       | 7,556.04      | EA//EM =40 ;   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS10022220   | Documentation-calculations                       | 200      | 02JUN10     | 22MAR11      | 1,941       | 0.00          | EM//EM =00 ;   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Subtotal   |  | 364      | 01OCT09     | 22MAR11      | 1,941       | 173,201.00    |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Job: 1200 - Vacuum Vessel &amp; Structural Support</b>  |  |          |             |              |             |               |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS1200010  | Metrology-to support design activities           | 42       | 01OCT09*    | 01DEC09      | 1,844       | 98,545.20     | EM//EM =100 ; EM//EM =200 ;<br>EA//SB =40 ; EM//TB =100 ;<br>41=30,000 ; |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS1200020  | Rapid Prototyping to support dsgn activities Ph1 | 107      | 08JAN10*    | 08JUN10      | 1,824       | 86,753.20     | EM//EM =60 ; EM//EM =88 ;<br>EA//SB =40 ; EM//TB =100 ;<br>41=40,000 ;   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS1200025  | Rapid Prototyping to support dsgn activities Ph2 | 312      | 09JUN10     | 06SEP11      | 1,824       | 19,021.89     | EM//EM =40 ; EA//SB =100 ;   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| FY091210   | FY09 Actual Cost                                 | 22*      | 01JAN09A    | 30SEP09A     |             | 571,717.00    |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Subtotal   |  | 674      | 01JAN09A    | 06SEP11      | 1,824       | 776,037.29    |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Job: 1201 - Outer TF Structures</b>                     |  |          |             |              |             |               |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Design</b>  |  |          |             |              |             |               |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS1201010  | CDR  | 20       | 01OCT09*    | 28OCT09      | 315         | 11,273.20     | EM//EM =40 ; EA//SB =40 ;  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS1201020  | Complete design of OTF structures                | 141      | 03NOV09*    | 01JUN10      | 312         | 0.00          |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS1201030  | Outer TF Check other PF currents ? Only two curr | 141      | 03NOV09     | 01JUN10      | 312         | 22,345.20     | EA//EM =120 ;  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS1201040  | Tangential radius rods Clevis Shell Intersection | 141      | 03NOV09     | 01JUN10      | 312         | 7,448.40      | EA//EM =40 ;   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS1201050  | Tangential radius rods ? interference w/supp CI  | 141      | 03NOV09     | 01JUN10      | 312         | 7,448.40      | EA//EM =40 ;   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS1201060  | Neutral Beam Vacuum Loads                        | 141      | 03NOV09     | 01JUN10      | 1,941       | 7,448.40      | EA//EM =40 ;   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS1201070  | Documentation-calculations                       | 141      | 03NOV09     | 01JUN10      | 312         | 634.00        | EM//EM =04 ;   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| Activity ID                                 | Activity Description                             | Orig Dur | Early Start | Early Finish | Total Float | Budgeted Cost | FY10                        |  |  |  |  |  |  |  |  |  |  |  | FY11 |  |  |  |  |  |  |  |  |  |  |  | FY12 |  |  |  |  |  |  |  |  |  |  |  | FY13 |  |  |  |  |  |  |  |  |  |  |  | FY14 |  |  |  |  |  |  |  |  |  |  |  | FY15 |  |  |  |  |  |  |  |  |  |  |  |
|---|--|----------|-------------|--------------|-------------|---------------|-----------------------------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|
|   |  |          |             |              |             |               |                             |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1201080                                   | Generate Cad detail and assembly drawings        | 141      | 03NOV09     | 01JUN10      | 312         | 0.00          | EM/EM =00 ;                 |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1201090                                   | PDR  | 141      | 03NOV09     | 01JUN10      | 312         | 35,582.80     | EM/EM =100 ; EA/SB =160 ;   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1201100                                   | Complete design of OTF structures                | 200      | 02JUN10*    | 22MAR11      | 312         | 0.00          |                             |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1201110                                   | Outer TF Check other PF currents ? Only two curr | 200      | 02JUN10     | 22MAR11      | 312         | 22,668.12     |                             |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1201120                                   | Tangential radius rods Clevis Shell Intersection | 200      | 02JUN10     | 22MAR11      | 312         | 7,556.04      |                             |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1201130                                   | Tangential radius rods ? interference with suppo | 200      | 02JUN10     | 22MAR11      | 312         | 7,556.04      |                             |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1201140                                   | Neutral Beam Vacuum Loads                        | 200      | 02JUN10     | 22MAR11      | 1,941       | 6,431.54      |                             |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1201150                                   | Documentation-calculations                       | 200      | 02JUN10     | 22MAR11      | 312         | 643.15        |                             |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1201160                                   | Complete Cad detail and assembly drawings        | 200      | 02JUN10     | 22MAR11      | 312         | 0.00          |                             |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1201170                                   | FDR  | 200      | 02JUN10     | 22MAR11      | 312         | 154,406.26    |                             |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| <b>Procure, Fab &amp; Assembly</b>          |  |          |             |              |             |               |                             |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1201180                                   | Prep requisition & submit to procurement         | 1        | 05JUL11*    | 05JUL11      | 240         | 1,299.84      |                             |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1201190                                   | Bid & award OTF structures                       | 25       | 11JUL11*    | 12AUG11      | 237         | 0.00          |                             |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1201200                                   | Fabricate components                             | 90       | 15AUG11     | 21DEC11      | 237         | 393,325.20    |                             |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1201210                                   | Inspect components prior to shipment             | 5        | 22DEC11     | 05JAN12      | 237         | 2,600.00      |                             |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| Subtotal                                    |  | 560      | 01OCT09     | 05JAN12      | 1,745       | 688,666.59    |                             |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| <b>Job: 1202 - Outer PF Coil Structures</b> |  |          |             |              |             |               |                             |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| <b>Design</b>                               |  |          |             |              |             |               |                             |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1202010                                   | CDR  | 20       | 01OCT09*    | 28OCT09      | 256         | 34,349.50     | EM/EM =100 ; EA/SB =150 ;   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1202020                                   | Analysis- Outer PF supp? include PF3? What loads | 141      | 03NOV09*    | 01JUN10      | 253         | 29,793.60     | EA/EM =160 ;                |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1202030                                   | Analysis-Local Model Supp Beam/Vessel Intersctn  | 141      | 03NOV09     | 01JUN10      | 253         | 3,724.20      | EA/EM =20 ;                 |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1202040                                   | Analysis- Outer PF supports ? elastomer vs slidi | 141      | 03NOV09     | 01JUN10      | 253         | 7,448.40      | EA/EM =40 ;                 |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1202050                                   | Analysis- PF2 PF1c Umbrella Load Dome Analysis   | 141      | 03NOV09     | 01JUN10      | 253         | 7,448.40      | EA/EM =40 ;                 |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1202060                                   | Documentation-calculations                       | 141      | 03NOV09     | 01JUN10      | 253         | 634.00        | EM/EM =04 ;                 |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1202070                                   | Generate Cad detail and assembly drawings        | 141      | 03NOV09     | 01JUN10      | 253         | 0.00          |                             |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1202080                                   | Complete design of Outer PF structures           | 141      | 03NOV09     | 01JUN10      | 253         | 0.00          |                             |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1202090                                   | PDR  | 141      | 03NOV09     | 01JUN10      | 253         | 102,875.00    | EM/EM =260 ; EA/SB =500 ;   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1202100                                   | Analysis- Outer PF supp? include PF3? What loads | 200      | 02JUN10*    | 22MAR11      | 253         | 30,224.16     | EA/EM =160 ;                |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1202110                                   | Analysis- Local Model of Support Beam/Vessel Int | 200      | 02JUN10     | 22MAR11      | 253         | 3,778.02      | EA/EM =20 ;                 |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1202120                                   | Analysis- Outer PF supports ? elastomer vs slidi | 200      | 02JUN10     | 22MAR11      | 253         | 7,556.04      | EA/EM =40 ;                 |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1202130                                   | Analysis- PF2 PF1c Umbrella Load Dome Analysis   | 200      | 02JUN10     | 22MAR11      | 253         | 7,556.04      | EA/EM =40 ;                 |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1202140                                   | Documentation-calculations                       | 200      | 02JUN10     | 22MAR11      | 253         | 643.15        | EM/EM =04 ;                 |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1202150                                   | Complete Cad detail and assembly drawings        | 200      | 02JUN10     | 22MAR11      | 253         | 0.00          |                             |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1202160                                   | FDR  | 200      | 02JUN10     | 22MAR11      | 253         | 241,613.46    | EM/EM =460 ; EA/SB =1,340 ; |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| <b>Procure, Fab &amp; Assembly</b>          |  |          |             |              |             |               |                             |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1202170                                   | Prep requisition & submit to procurement         | 1        | 03OCT11*    | 03OCT11      | 118         | 1,332.40      |                             |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1202180                                   | Bid & award outer PF cage                        | 25       | 04OCT11     | 07NOV11      | 118         | 0.00          |                             |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1202190                                   | Fabricate Outer PF Cage [PF-3/4/5]               | 90       | 08NOV11     | 22MAR12      | 118         | 469,897.20    |                             |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1202200                                   | Prep requisition & submit to procurement         | 1        | 04OCT11     | 04OCT11      | 147         | 1,332.40      |                             |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1202210                                   | Bid & award outer PF cage                        | 25       | 05OCT11     | 08NOV11      | 147         | 0.00          |                             |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1202220                                   | Fabricate PF-2/PF-1c support modifications       | 60       | 09NOV11     | 10FEB12      | 147         | 160,780.80    |                             |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| Subtotal                                    |  | 615      | 01OCT09     | 22MAR12      | 118         | 1,110,986.77  |                             |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |

| Activity ID  | Activity Description                             | Orig Dur | Early Start | Early Finish | Total Float | Budgeted Cost | FY10                                     |  |  |  |  |  |  |  |  |  |  |  | FY11 |  |  |  |  |  |  |  |  |  |  |  | FY12 |  |  |  |  |  |  |  |  |  |  |  | FY13 |  |  |  |  |  |  |  |  |  |  |  | FY14 |  |  |  |  |  |  |  |  |  |  |  | FY15 |  |  |  |  |  |  |  |  |  |  |  |
|--|--|----------|-------------|--------------|-------------|---------------|--|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|
|  |  |          |             |              |             |               |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| <b>Job: 1203 - Umbrella Structural Reinforcement</b> |  |          |             |              |             |               |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| <b>Design</b>  |  |          |             |              |             |               |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1203010  | CDR  | 20       | 01OCT09*    | 28OCT09      | 356         | 49,246.30     | EM//EM =100 ; EA//SB =150 ; EA//EM =80 ; |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1203020  | Analysis- Umbrella Arch Reinforcement            | 141      | 03NOV09*    | 01JUN10      | 353         | 0.00          | EM//EM =60 ;                             |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1203030  | Complete design of umbrella structure upgrades   | 141      | 03NOV09     | 01JUN10      | 353         | 9,510.00      | EM//EM =40 ;                             |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1203040  | Generate Cad detail and assembly drawings        | 141      | 03NOV09     | 01JUN10      | 353         | 0.00          | EA//SB =160 ; EA//EM =80 ;               |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1203050  | Complete design of upper and lower umbrella lids | 141      | 03NOV09     | 01JUN10      | 353         | 6,340.00      | EM//EM =100 ;                            |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1203060  | PDR  | 141      | 03NOV09     | 01JUN10      | 353         | 34,629.60     | EM//EM =80 ;                             |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1203070  | Analysis- Umbrella Arch Reinforcement            | 200      | 02JUN10*    | 22MAR11      | 353         | 0.00          | EA//EM =100 ; EA//SB =400 ;              |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1203080  | Complete design of umbrella structure upgrades   | 200      | 02JUN10     | 22MAR11      | 353         | 16,078.85     | EM//EM =08 ;                             |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1203090  | Complete Cad detail and assembly drawings        | 200      | 02JUN10     | 22MAR11      | 353         | 0.00          | 41=50,000 ;                              |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1203100  | Complete design of upper and lower umbrella lids | 200      | 02JUN10*    | 22MAR11      | 353         | 12,863.08     | 41=100,000 ;                             |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1203110  | FDR  | 200      | 02JUN10     | 22MAR11      | 353         | 68,935.10     |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| <b>Procure, Fab &amp; Assembly</b>                   |  |          |             |              |             |               |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1203120  | Prep requisition & submit to procurement         | 5        | 03OCT11*    | 07OCT11      | 218         | 1,332.40      |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1203130  | Bid & award PO                                   | 25       | 10OCT11     | 11NOV11      | 218         | 0.00          |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1203140  | Fabricate structural components                  | 40       | 14NOV11     | 18JAN12      | 218         | 66,000.00     |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1203150  | Fabricate umbrella lids                          | 50       | 19JAN12     | 28MAR12      | 218         | 132,000.00    |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| Subtotal   |  | 619      | 01OCT09     | 28MAR12      | 218         | 396,935.33    |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| <b>Job: 1204 - CS Support Pedestal</b>               |  |          |             |              |             |               |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| <b>Design</b>  |  |          |             |              |             |               |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1204010  | CDR  | 20       | 01OCT09*    | 28OCT09      | 364         | 35,680.00     | EM//EM =100 ; EA//SB =40 ; EA//EM =80 ;  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1204020  | Engineering design support                       | 141      | 03NOV09*    | 01JUN10      | 361         | 19,020.00     | EM//EM =120 ;                            |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1204030  | Generate Cad detail and assembly drawings        | 141      | 03NOV09     | 01JUN10      | 361         | 0.00          | EA//SB =80 ;                             |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1204040  | PDR  | 141      | 03NOV09     | 01JUN10      | 361         | 9,866.40      | EM//EM =200 ;                            |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1204050  | Engineering design support                       | 200      | 02JUN10*    | 22MAR11      | 361         | 32,157.70     | EA//SB =200 ;                            |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1204060  | Generate Cad detail and assembly drawings        | 200      | 02JUN10     | 22MAR11      | 361         | 25,022.50     |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1204070  | FDR  | 200      | 02JUN10     | 22MAR11      | 361         | 0.00          |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| <b>Procure, Fab &amp; Assembly</b>                   |  |          |             |              |             |               |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1204080  | Prep requisition & submit to procurement         | 1        | 03OCT11*    | 03OCT11      | 226         | 1,332.40      | EM//EM =08 ;                             |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1204090  | Bid & award PO                                   | 25       | 04OCT11     | 07NOV11      | 226         | 0.00          | 41=25,000 ; EM//EM =40 ;                 |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1204100  | Fabricate pedestal                               | 40       | 08NOV11     | 12JAN12      | 226         | 39,662.00     | EM//EM =200 ;                            |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1204110  | Engr support during installation                 | 20       | 30NOV12     | 04JAN13      | 1,495       | 34,142.00     |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| Subtotal   |  | 810      | 01OCT09     | 04JAN13      | 1,495       | 196,883.00    |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| <b>Job: 1205 - Misc VV Structural Support</b>        |  |          |             |              |             |               |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| <b>Design</b>  |  |          |             |              |             |               |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1205010  | CDR of Vessel Legs                               | 20       | 01OCT09*    | 28OCT09      | 289         | 11,451.40     | EM//EM =10 ; EA//SB =80 ;                |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1205015  | CDR of Plates Upgrade                            | 20       | 01OCT09*    | 28OCT09      | 2,285       | 8,103.20      | EM//EM =20 ; EA//SB =40 ;                |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1205020  | Engineering design support                       | 141      | 03NOV09*    | 01JUN10      | 286         | 0.00          |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1205030  | Generate Cad detail and assembly drawings        | 141      | 03NOV09     | 01JUN10      | 286         | 9,866.40      | EA//SB =80 ;                             |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1205040  | PDR of Vessel Legs                               | 141      | 03NOV09     | 01JUN10      | 286         | 13,036.40     | EM//EM =20 ; EA//SB =80 ;                |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS1205050  | PDR of Plates Upgrade                            | 141      | 03NOV09     | 01JUN10      | 286         | 3,170.00      | EM//EM =20 ;                             |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |

| Activity ID   | Activity Description                              | Orig Dur | Early Start | Early Finish | Total Float | Budgeted Cost | FY   |      |      |      |      |      |  |  |  |  |
|---|---|----------|-------------|--------------|-------------|---------------|------|------|------|------|------|------|--|--|--|--|
|   |   |          |             |              |             |               | FY10 | FY11 | FY12 | FY13 | FY14 | FY15 |  |  |  |  |
| CS1205060   | Engineering design support                        | 200      | 02JUN10*    | 22MAR11      | 286         | 0.00          |      |      |      |      |      |      |  |  |  |  |
| CS1205070   | Complete Cad detail and assembly drawings         | 200      | 02JUN10     | 22MAR11      | 286         | 0.00          |      |      |      |      |      |      |  |  |  |  |
| CS1205080   | FDR of Vessel Legs                                | 200      | 02JUN10     | 22MAR11      | 286         | 33,061.93     |      |      |      |      |      |      |  |  |  |  |
| CS1205090   | FDR of Plates Upgrade                             | 200      | 02JUN10     | 22MAR11      | 286         | 41,101.35     |      |      |      |      |      |      |  |  |  |  |
| <b>Procure, Fab &amp; Assembly</b>                        |   |          |             |              |             |               |      |      |      |      |      |      |  |  |  |  |
| CS1205100   | Prep requisition & submit to procurement          | 1        | 03OCT11*    | 03OCT11      | 151         | 0.00          |      |      |      |      |      |      |  |  |  |  |
| CS1205110   | Bid & award PO                                    | 5        | 04OCT11     | 10OCT11      | 151         | 0.00          |      |      |      |      |      |      |  |  |  |  |
| CS1205120   | Fabricate Legs Upgrade                            | 65       | 11OCT11     | 19JAN12      | 151         | 66,000.00     |      |      |      |      |      |      |  |  |  |  |
| CS1205130   | Fabricate PP Upgrade                              | 65       | 11OCT11     | 19JAN12      | 371         | 66,000.00     |      |      |      |      |      |      |  |  |  |  |
| Subtotal  |   | 570      | 01OCT09     | 19JAN12      | 1,735       | 251,790.68    |      |      |      |      |      |      |  |  |  |  |
| <b>Job: 1301 - Outer Toroidal Field Coils</b>             |   |          |             |              |             |               |      |      |      |      |      |      |  |  |  |  |
| <b>Design</b>   |   |          |             |              |             |               |      |      |      |      |      |      |  |  |  |  |
| CS13000010  | CAD Dsgn Supp Assembly of Dwgs & Space allocation | 360      | 01OCT09*    | 16MAR11      | 206         | 37,285.75     |      |      |      |      |      |      |  |  |  |  |
| CS13010010  | Prepare for CDR                                   | 23       | 01OCT09*    | 02NOV09      | 202         | 0.00          |      |      |      |      |      |      |  |  |  |  |
| CS13010020  | Prepare for PDR                                   | 141      | 03NOV09     | 01JUN10      | 202         | 0.00          |      |      |      |      |      |      |  |  |  |  |
| CS13010030  | Prepare for FDR                                   | 200      | 02JUN10     | 22MAR11      | 202         | 0.00          |      |      |      |      |      |      |  |  |  |  |
| CS13010040  | Generate engr plan for fabr (2) new OTF Coil      | 20       | 23FEB11     | 22MAR11      | 202         | 34,933.60     |      |      |      |      |      |      |  |  |  |  |
| CS13010041  | Ready for FDR                                     | 1        | 23MAR11     | 23MAR11      | 202         | 0.00          |      |      |      |      |      |      |  |  |  |  |
| <b>Outer TF Fabrication</b>                               |   |          |             |              |             |               |      |      |      |      |      |      |  |  |  |  |
| CS13010049  | Prep req and award conductor vendor               | 25       | 24MAR11     | 27APR11      | 202         | 0.00          |      |      |      |      |      |      |  |  |  |  |
| CS13010050  | Procure copper conductor for OTF [10 bars]        | 40       | 28APR11     | 23JUN11      | 202         | 14,120.80     |      |      |      |      |      |      |  |  |  |  |
| CS13010060  | Prep requisition for machining & sub to proc OTF  | 5        | 24MAR11     | 30MAR11      | 242         | 1,220.80      |      |      |      |      |      |      |  |  |  |  |
| CS13010070  | Place order for machining cooling groove in copp  | 20       | 31MAR11     | 27APR11      | 242         | 0.00          |      |      |      |      |      |      |  |  |  |  |
| CS13010080  | Machine conductors                                | 40       | 24JUN11*    | 19AUG11      | 202         | 46,074.00     |      |      |      |      |      |      |  |  |  |  |
| CS13010090  | Prep req or rolling & sub to proc OTF Conductors  | 5        | 24MAR11     | 30MAR11      | 282         | 1,220.80      |      |      |      |      |      |      |  |  |  |  |
| CS13010100  | Place order to Form OTF conductors                | 20       | 31MAR11     | 27APR11      | 282         | 0.00          |      |      |      |      |      |      |  |  |  |  |
| CS13010110  | Roll conductors                                   | 30       | 22AUG11     | 03OCT11      | 202         | 46,110.08     |      |      |      |      |      |      |  |  |  |  |
| CS13010120  | Procure aluminum castings and S.S. support clamp  | 80       | 23MAR11     | 14JUL11      | 328         | 28,241.60     |      |      |      |      |      |      |  |  |  |  |
| CS13010130  | Procure hardware, epoxy/glass for blocks, misc    | 80       | 23MAR11     | 14JUL11      | 328         | 29,462.40     |      |      |      |      |      |      |  |  |  |  |
| CS13010140  | Procure B-stage insulation                        | 80       | 24MAR11     | 15JUL11      | 257         | 27,020.80     |      |      |      |      |      |      |  |  |  |  |
| CS13010150  | Procure Copper leads & fittings, etc              | 80       | 24MAR11     | 15JUL11      | 257         | 20,212.40     |      |      |      |      |      |      |  |  |  |  |
| CS13010160  | IModify oven to accommodate OTF molds             | 35       | 24MAR11     | 11MAY11      | 282         | 148,456.40    |      |      |      |      |      |      |  |  |  |  |
| CS13010170  | Setup oven and mold fixtures in work area         | 20       | 12MAY11     | 09JUN11      | 282         | 0.00          |      |      |      |      |      |      |  |  |  |  |
| CS13010180  | Fabricate OTF Assy                                | 70       | 04OCT11     | 19JAN12      | 202         | 180,596.00    |      |      |      |      |      |      |  |  |  |  |
| CS13010190  | Install alum blocks & SS support clamps           | 25       | 20JAN12     | 23FEB12      | 202         | 55,832.00     |      |      |      |      |      |      |  |  |  |  |
| Subtotal  |   | 595      | 01OCT09     | 23FEB12      | 202         | 670,787.43    |      |      |      |      |      |      |  |  |  |  |
| <b>Job: 1303 - TF Joint Test Stand &amp; Perform Test</b> |   |          |             |              |             |               |      |      |      |      |      |      |  |  |  |  |
| CS13030010  | Physics Requirements                              | 20       | 05OCT09*    | 30OCT09      | 2,263       | 6,340.00      |      |      |      |      |      |      |  |  |  |  |
| CS13030020  | PREPARE WORK PLANNING FORM                        | 10       | 02NOV09     | 13NOV09      | 2,263       | 2,536.00      |      |      |      |      |      |      |  |  |  |  |

| Activity ID                                   | Activity Description                             | Orig Dur | Early Start | Early Finish | Total Float | Budgeted Cost | FY10                          |  |  |  |  |  | FY11 |  |  |  |  |  | FY12 |  |  |  |  |  | FY13 |  |  |  |  |  | FY14 |  |  |  |  |  | FY15 |  |  |  |  |  |
|---|--|----------|-------------|--------------|-------------|---------------|-------------------------------|--|--|--|--|--|------|--|--|--|--|--|------|--|--|--|--|--|------|--|--|--|--|--|------|--|--|--|--|--|------|--|--|--|--|--|
|   |  |          |             |              |             |               | FY10                          |  |  |  |  |  | FY11 |  |  |  |  |  | FY12 |  |  |  |  |  | FY13 |  |  |  |  |  | FY14 |  |  |  |  |  | FY15 |  |  |  |  |  |
| CS13030030                                    | Prep System Description                          | 10       | 02NOV09     | 13NOV09      | 2,263       | 3,804.00      | EM//EM =24 ;                  |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS13030040                                    | Prep System Requirements                         | 10       | 02NOV09     | 13NOV09      | 2,263       | 3,804.00      | EM//EM =24 ;                  |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS13030050                                    | R&D  | 5        | 16NOV09     | 20NOV09      | 2,263       | 3,804.00      | EM//EM =24 ;                  |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS13030060                                    | CDR  | 5        | 23NOV09     | 01DEC09      | 2,263       | 2,536.00      | EM//EM =16 ;                  |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS13030070                                    | Prepare NEPA Form                                | 5        | 03NOV09*    | 09NOV09      | 2,047       | 2,536.00      | EM//EM =16 ;                  |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS13030080                                    | Update Cost & Schedule Estimate                  | 5        | 03NOV09     | 09NOV09      | 2,062       | 1,268.00      | EM//EM =08 ;                  |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS13030090                                    | Design Drawings                                  | 20       | 03NOV09     | 02DEC09      | 2,047       | 10,691.20     | EM//EM =40 ; EA//DM =40 ;     |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS13030100                                    | PDR Prep   | 10       | 02JUN10     | 15JUN10      | 1,921       | 6,340.00      | EM//EM =40 ;                  |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS13030110                                    | CONDUCT PDR                                      | 5        | 09JUN10     | 15JUN10      | 1,921       | 1,268.00      | EM//EM =08 ;                  |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS13030120                                    | Disposition PDR Chits                            | 5        | 16JUN10*    | 22JUN10      | 1,921       | 3,804.00      | EM//EM =24 ;                  |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS13030130                                    | Design Drawings                                  | 20       | 23JUN10*    | 21JUL10      | 1,930       | 11,238.40     | EM//EM =16 ; EA//DM =80 ;     |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS13030140                                    | Update Cost & Schedule Estimate                  | 2        | 23JUN10     | 24JUN10      | 1,948       | 1,268.00      | EM//EM =08 ;                  |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS13030150                                    | Prep Procurement Specs                           | 3        | 23JUN10     | 25JUN10      | 1,947       | 2,536.00      | EM//EM =16 ;                  |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS13030160                                    | FDR Prep   | 30       | 21MAR11     | 29APR11      | 1,738       | 6,499.20      | EM//EM =40 ;                  |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS13030170                                    | CONDUCT FDR                                      | 1        | 29APR11     | 29APR11      | 1,738       | 1,299.84      | EM//EM =08 ;                  |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS13030180                                    | Fab/Assy Procedure                               | 20       | 02MAY11*    | 27MAY11      | 1,738       | 8,745.12      | EM//EM =24 ; EM//SB =40 ;     |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS13030190                                    | Shop Fabrication                                 | 20       | 31MAY11*    | 27JUN11      | 1,738       | 95,798.48     | EM//EM =16 ; EM//SB =80 ;     |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS13030200                                    | Assembly   | 30       | 28JUN11*    | 09AUG11      | 1,738       | 37,144.80     | EE//SM =40 ; 41=30,000 ;      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS13030210                                    | Machine Installation                             | 30       | 10AUG11     | 21SEP11      | 1,738       | 37,813.20     | 43=30,000 ;                   |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS13030220                                    | PTP Testing                                      | 60       | 22SEP11     | 16DEC11      | 1,738       | 64,812.52     | EM//EM =40 ; EM//SB =40 ;     |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS13030230                                    | Final Report & Presentation                      | 15       | 19DEC11     | 16JAN12      | 1,738       | 24,558.00     | 41=10,000 ; 43=10,000 ;       |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS13030230                                    | Final Report & Presentation                      | 15       | 19DEC11     | 16JAN12      | 1,738       | 24,558.00     | EM//EM =120 ; EM//SM =80 ;    |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS13030230                                    | Final Report & Presentation                      | 15       | 19DEC11     | 16JAN12      | 1,738       | 24,558.00     | EM//EM =240 ; EM//SM =160 ;   |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS13030230                                    | Final Report & Presentation                      | 15       | 19DEC11     | 16JAN12      | 1,738       | 24,558.00     | EM//EM =120 ; EA//DM =40 ;    |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| Subtotal                                      |  | 565      | 05OCT09     | 16JAN12      | 1,738       | 340,444.76    |                               |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| <b>Job: 1304 - Inner TF Bundle (Dsgn/Fab)</b> |  |          |             |              |             |               |                               |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| <b>Design</b>                                 |  |          |             |              |             |               |                               |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS13040010                                    | CDR  | 23       | 01OCT09*    | 02NOV09      | 66          | 19,830.00     | EA//EM =40 ; EA//EM =40 ;     |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS13040020                                    | Preliminary design of TF bundle and components   | 141      | 03NOV09     | 01JUN10      | 283         | 80,442.72     | EA//SB =40 ;                  |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS13040030                                    | Gen Detl/assembly Cad drwngs [TF bundle, joint   | 141      | 03NOV09     | 01JUN10      | 283         | 165,871.20    | EM//EM =432 ;                 |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS13040040                                    | Analysis of Revised Flag/Flex Geometry           | 141      | 03NOV09     | 01JUN10      | 283         | 9,510.00      | EM//SB =360 ; EA//SB =1,000 ; |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS13040050                                    | Check Electromagnetic loads assumption of 1 T    | 141      | 03NOV09     | 01JUN10      | 283         | 3,170.00      | EM//EM =60 ;                  |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS13040060                                    | Fatigue Calcs for less than .3T Vert Field       | 141      | 03NOV09     | 01JUN10      | 283         | 0.00          | EM//EM =20 ;                  |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS13040070                                    | Heat-up if flags are BeCu                        | 141      | 03NOV09     | 01JUN10      | 283         | 7,448.40      | EA//EM =40 ;                  |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS13040080                                    | TF De-Wedging due to therm stress-dev tension wr | 141      | 03NOV09     | 01JUN10      | 283         | 7,448.40      | EA//EM =40 ;                  |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS13040090                                    | [TS torsional shear stress ? Wooley work. D.R.   | 141      | 03NOV09     | 01JUN10      | 283         | 14,896.80     | EA//EM =80 ;                  |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS13040100                                    | Coupled Elect Resist/Thermal Contact Axisymmetri | 141      | 03NOV09     | 01JUN10      | 283         | 6,340.00      | EM//EM =40 ;                  |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS13040110                                    | Coupled Analysis of Large TF Flag Model          | 141      | 03NOV09     | 01JUN10      | 283         | 0.00          | EM//EM =10 ;                  |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS13040120                                    | Documentation-calculations                       | 141      | 03NOV09     | 01JUN10      | 283         | 1,585.00      | 41=20,000 ; 35=500 ;          |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS13040130                                    | Perform additional Friction Stir Weld Trials     | 141      | 03NOV09     | 01JUN10      | 66          | 25,225.00     | EA//EM =40 ; EA//EM =40 ;     |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS13040140                                    | Prepare for PDR                                  | 141      | 03NOV09     | 01JUN10      | 66          | 19,830.00     | EA//SB =40 ;                  |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS13040450                                    | Procure Flex bus samples for testing [2]         | 75       | 01OCT09*    | 26JAN10      | 155         | 18,450.00     | 41=15,000 ;                   |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS13040460                                    | Contract f/ friction stir weld samples[CU-CU, Cr | 75       | 01OCT09*    | 26JAN10      | 155         | 36,900.00     | 41=30,000 ;                   |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |
| CS13040150                                    | Compl Electromagnetic loads assumption of 1 T ?  | 200      | 02JUN10     | 22MAR11      | 283         | 3,215.77      | EM//EM =20 ;                  |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |

| Activity ID   | Activity Description                             | Orig Dur | Early Start | Early Finish | Total Float | Budgeted Cost | FY   |      |      |      |      |      |  |  |  |
|---|--|----------|-------------|--------------|-------------|---------------|------|------|------|------|------|------|--|--|--|
|   |  |          |             |              |             |               | FY10 | FY11 | FY12 | FY13 | FY14 | FY15 |  |  |  |
| CS13040160  | Fatigue Calcs for less than .3T Vert Field       | 200      | 02JUN10     | 22MAR11      | 283         | 12,863.08     |      |      |      |      |      |      |  |  |  |
| CS13040170  | Heat-up if flags are BeCu                        | 200      | 02JUN10     | 22MAR11      | 283         | 7,556.04      |      |      |      |      |      |      |  |  |  |
| CS13040180  | TF De-Wedging due to thermal stress, dev tension | 200      | 02JUN10     | 22MAR11      | 283         | 7,556.04      |      |      |      |      |      |      |  |  |  |
| CS13040190  | [TS torsional shear stress ? Wooley work. D.R.   | 200      | 02JUN10     | 22MAR11      | 283         | 15,112.08     |      |      |      |      |      |      |  |  |  |
| CS13040200  | Coupled Elect Resist/Thermal Contact Axisymmetri | 200      | 02JUN10     | 22MAR11      | 283         | 0.00          |      |      |      |      |      |      |  |  |  |
| CS13040210  | Coupled Analysis of Large TF Flag Model          | 200      | 02JUN10     | 22MAR11      | 283         | 19,294.62     |      |      |      |      |      |      |  |  |  |
| CS13040220  | Documentation-calculations                       | 200      | 02JUN10     | 22MAR11      | 283         | 1,607.89      |      |      |      |      |      |      |  |  |  |
| CS13040230  | Compl detail & assembly Cad drwngs[TF bundle,    | 200      | 02JUN10     | 22MAR11      | 283         | 0.00          |      |      |      |      |      |      |  |  |  |
| CS13040240  | Prepare for FDR                                  | 200      | 02JUN10     | 22MAR11      | 283         | 20,116.58     |      |      |      |      |      |      |  |  |  |
| CS13040241  | Ready for FDR                                    | 1        | 23MAR11     | 23MAR11      | 283         | 20,328.40     |      |      |      |      |      |      |  |  |  |
| <b>TF Conductor</b>                                 |  |          |             |              |             |               |      |      |      |      |      |      |  |  |  |
| CS13040250  | HOLD TF CONDUCTOR PEER REVw [to allow early proc | 0        |             | 11JAN10*     | 77          | 0.00          |      |      |      |      |      |      |  |  |  |
| CS13040260  | Prep requisition/SOW & submit to proc TF Conduct | 5        | 01FEB10*    | 05FEB10      | 63          | 4,469.04      |      |      |      |      |      |      |  |  |  |
| CS13040270  | Bid & Award conductor extrusion order [80 pcs]   | 25       | 08FEB10     | 12MAR10      | 63          | 1,489.68      |      |      |      |      |      |      |  |  |  |
| CS13040280  | Manufacture Copper extrusions [80]               | 90       | 15MAR10     | 20JUL10      | 63          | 300,639.36    |      |      |      |      |      |      |  |  |  |
| CS13040290  | Prep requisition & submit to proc TF Conductor   | 6        | 02JUN10     | 09JUN10      | 66          | 1,489.68      |      |      |      |      |      |      |  |  |  |
| CS13040300  | Bid & Award conductor machining [40 pcs]         | 25       | 15JUN10     | 20JUL10      | 63          | 1,489.68      |      |      |      |      |      |      |  |  |  |
| CS13040310  | Machine conductors [cooling grooves, lead area]- | 65       | 21JUL10     | 20OCT10      | 63          | 321,495.54    |      |      |      |      |      |      |  |  |  |
| CS13040320  | Prep requisition & submit to proc TF Conductor   | 6        | 15SEP10     | 22SEP10      | 63          | 1,489.68      |      |      |      |      |      |      |  |  |  |
| CS13040330  | Bid & award lead welding [40 pcs]                | 20       | 23SEP10     | 20OCT10      | 63          | 1,515.89      |      |      |      |      |      |      |  |  |  |
| CS13040410  | Procure Cu-Cr-Zr lead extensions for welding     | 65       | 21JUL10     | 20OCT10      | 63          | 62,146.15     |      |      |      |      |      |      |  |  |  |
| CS13040340  | Friction Stir-Weld coil leads to conductors- 40  | 45       | 21OCT10     | 03JAN11      | 63          | 330,891.36    |      |      |      |      |      |      |  |  |  |
| <b>Flex Bus</b>                                     |  |          |             |              |             |               |      |      |      |      |      |      |  |  |  |
| CS13040350  | Prep req & submit t/proc Flex Bus [Inn t/Out TF  | 5        | 24MAR11     | 30MAR11      | 283         | 1,527.12      |      |      |      |      |      |      |  |  |  |
| CS13040360  | Bid & award flex bus order [80 pcs]              | 20       | 31MAR11     | 27APR11      | 283         | 1,527.12      |      |      |      |      |      |      |  |  |  |
| CS13040370  | Fabricate Flex bus                               | 80       | 28APR11     | 19AUG11      | 283         | 91,096.02     |      |      |      |      |      |      |  |  |  |
| CS13040380  | Procure TF jumpers [OTF to flex]                 | 105      | 28APR11     | 26SEP11      | 293         | 51,600.00     |      |      |      |      |      |      |  |  |  |
| CS13040390  | Procure supports for TF jumpers                  | 65       | 28APR11     | 29JUL11      | 293         | 32,250.00     |      |      |      |      |      |      |  |  |  |
| CS13040400  | Procure lower TF coil to bus jumpers & supports  | 50       | 28APR11     | 08JUL11      | 476         | 15,480.00     |      |      |      |      |      |      |  |  |  |
| <b>Misc Hardware</b>                                |  |          |             |              |             |               |      |      |      |      |      |      |  |  |  |
| CS13040420  | Procure joint & support hardware                 | 55       | 28APR11     | 15JUL11      | 303         | 130,527.12    |      |      |      |      |      |      |  |  |  |
| CS13040430  | Procure Copper spacers for upper leads           | 65       | 28APR11     | 29JUL11      | 461         | 33,777.12     |      |      |      |      |      |      |  |  |  |
| CS13040440  | Procure upper & lower OH/TF support structures   | 75       | 28APR11     | 12AUG11      | 283         | 38,700.00     |      |      |      |      |      |      |  |  |  |
| Subtotal  |  | 495      | 01OCT09     | 26SEP11      | 421         | 1,948,198.58  |      |      |      |      |      |      |  |  |  |
| <b>Job: 1305 - OHMIC Heating Coil (OH) DSGN/FAB</b> |  |          |             |              |             |               |      |      |      |      |      |      |  |  |  |
| <b>Design</b>                                       |  |          |             |              |             |               |      |      |      |      |      |      |  |  |  |
| CS13050010  | CDR  | 23       | 01OCT09*    | 02NOV09      | 1           | 0.00          |      |      |      |      |      |      |  |  |  |
| CS13050020  | Design support for OH coil                       | 141      | 03NOV09     | 01JUN10      | 1           | 37,242.00     |      |      |      |      |      |      |  |  |  |
| CS13050030  | Generate detail and assembly Cad drawings        | 141      | 03NOV09     | 01JUN10      | 1           | 71,118.60     |      |      |      |      |      |      |  |  |  |
| CS13050040  | Complete Axisymmetric CS Model                   | 141      | 03NOV09     | 01JUN10      | 1           | 18,621.00     |      |      |      |      |      |      |  |  |  |
| CS13050050  | Size Bellevilles, Spacers, Retaining Bolts       | 141      | 03NOV09     | 01JUN10      | 1           | 7,448.40      |      |      |      |      |      |      |  |  |  |
| CS13050060  | OH Stress due to PF1A                            | 141      | 03NOV09     | 01JUN10      | 1           | 7,448.40      |      |      |      |      |      |      |  |  |  |



| Activity ID   | Activity Description                             | Orig Dur | Early Start | Early Finish | Total Float | Budgeted Cost | FY10                     |  |  |  |  |  |  |  |  |  |  |  | FY11 |  |  |  |  |  |  |  |  |  |  |  | FY12 |  |  |  |  |  |  |  |  |  |  |  | FY13                      |  |  |  |  |  |  |  |  |  |  |  | FY14 |  |  |  |  |  |  |  |  |  |  |  | FY15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---|--|----------|-------------|--------------|-------------|---------------|--------------------------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|---------------------------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|   |  |          |             |              |             |               | FY10                     |  |  |  |  |  |  |  |  |  |  |  | FY11 |  |  |  |  |  |  |  |  |  |  |  | FY12 |  |  |  |  |  |  |  |  |  |  |  | FY13                      |  |  |  |  |  |  |  |  |  |  |  | FY14 |  |  |  |  |  |  |  |  |  |  |  | FY15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13050070  | OH Tension Stress Due to End Fixity              | 141      | 03NOV09     | 01JUN10      | 1           | 1,862.10      | EA/EM =10 ;              |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13050080  | Fixture Analyses                                 | 141      | 03NOV09     | 01JUN10      | 1           | 0.00          | EA/EM =00 ;              |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13050090  | Documentation-calculations                       | 141      | 03NOV09     | 01JUN10      | 1           | 1,585.00      | EM/EM =10 ;              |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13050100  | Prepare for PDR                                  | 141      | 03NOV09     | 01JUN10      | 1           | 12,381.60     | EA/EM =40 ; EA/SB =40 ;  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13050110  | Complete Design support for OH coil              | 200      | 02JUN10     | 22MAR11      | 1           | 45,336.24     | EA/EM =240 ;             |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13050120  | Complete Axisymmetric CS Model                   | 200      | 02JUN10     | 22MAR11      | 1           | 18,890.10     | EA/EM =100 ;             |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13050130  | Size Bellevilles, Spacers, Retaining Bolts       | 200      | 02JUN10     | 22MAR11      | 1           | 7,556.04      | EA/EM =40 ;              |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13050140  | OH Stress due to PF1A                            | 200      | 02JUN10     | 22MAR11      | 1           | 7,556.04      | EA/EM =40 ;              |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13050150  | OH Tension Stress Due to End Fixity              | 200      | 02JUN10     | 22MAR11      | 1           | 1,889.01      | EA/EM =10 ;              |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13050160  | Fixture Analyses                                 | 200      | 02JUN10     | 22MAR11      | 1           | 7,556.04      | EA/EM =40 ;              |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13050170  | Documentation-calculations                       | 200      | 02JUN10     | 22MAR11      | 1           | 1,889.01      | EA/EM =10 ;              |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13050180  | Complete detail and assembly Cad drawings        | 200      | 02JUN10     | 22MAR11      | 1           | 75,067.50     | EA/SB =600 ;             |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13050190  | Prepare for FDR                                  | 200      | 02JUN10     | 22MAR11      | 1           | 12,560.54     | EA/EM =40 ; EA/SB =40 ;  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13050191  | Ready for FDR                                    | 1        | 23MAR11     | 23MAR11      | 1           | 12,692.80     | EA/EM =40 ; EA/SB =40 ;  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>TF/OH Fabrication</b>                                |  |          |             |              |             |               |                          |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13050200  | Generate SOW for conductor                       | 9        | 23AUG10*    | 02SEP10      | 47          | 2,234.52      | EA/EM =12 ;              |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13050210  | Prep requisition & submit to procurement         | 5        | 03SEP10     | 10SEP10      | 47          | 1,489.68      | EA/EM =08 ;              |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13050220  | Bid & award conductor order [220%]               | 19       | 13SEP10     | 07OCT10      | 47          | 0.00          |                          |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13050230  | Manufacture Copper conductor [extrusion]         | 70       | 08OCT10     | 25JAN11      | 47          | 139,278.24    | EA/EM =16 ; 41=105,600 ; |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13050240  | Prep requisition for insulation                  | 5        | 02JUN10     | 08JUN10      | 132         | 1,190.80      | EM/SM =08 ;              |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13050250  | Procure Kapton/glass co-wound insulation         | 70       | 09JUN10     | 16SEP10      | 132         | 31,940.80     | EM/SM =08 41=25,000 ;    |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13050260  | Prep requisition for belleville washers          | 5        | 24MAR11     | 30MAR11      | 241         | 1,527.12      | EA/EM =08 ;              |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13050270  | Deliver belleville washer assembly               | 60       | 31MAR11     | 23JUN11      | 241         | 46,677.12     | EA/EM =08 ; 41=35,000 ;  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13050280  | Procure miscellaneous parts                      | 65       | 24MAR11*    | 23JUN11      | 241         | 23,931.36     | EA/EM =24 ; 41=15,000 ;  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13050290  | Generate SOW & Manufacturing SPEC                | 10       | 01OCT10*    | 14OCT10      | 112         | 6,104.00      | EM/SM =40 ;              |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13050300  | Prep requisition & submit to procurement         | 5        | 01OCT10*    | 07OCT10      | 80          | 1,527.12      | EA/EM =08 ;              |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13050310  | RFQ and SPEB review to fabricate TF bundle/OH So | 32       | 08OCT10     | 22NOV10      | 80          | 4,581.36      | EA/EM =24 ;              |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13050320  | Award Contract for TF/OH bundle                  | 5        | 24MAR11     | 30MAR11      | 1           | 0.00          |                          |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13050330  | Fabricate Inner TF/OH Coil Assembly              | 300      | 31MAR11     | 08JUN12      | 1           | 2,328,517.94  |                          |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  | EA/EM =600 ; EM/EM =400 ; |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |  |          |             |              |             |               |                          |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| FY091310  | FY09 Actual Cost                                 | 22*      | 01JAN09A    | 30SEP09A     |             | 1,051,480.00  |                          |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| FY091315  | FY09 Actual Cost                                 | 22*      | 01JAN09A    | 30SEP09A     |             | 4,085.00      |                          |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Subtotal  |  | 863      | 01JAN09A    | 08JUN12      | 1           | 3,993,265.48  |                          |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Job: 1306 - Inner Poloidal Field Coils (Shaping)</b> |  |          |             |              |             |               |                          |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Design</b>   |  |          |             |              |             |               |                          |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13060010  | CDR  | 23       | 01OCT09*    | 02NOV09      | 174         | 0.00          |                          |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13060020  | Design PF Coils                                  | 141      | 03NOV09     | 01JUN10      | 174         | 22,345.20     | EA/EM =120 ;             |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13060030  | Generte Cad detail/assembly drwng Inner PF coil  | 141      | 03NOV09     | 01JUN10      | 174         | 28,360.80     | EM/SB =240 ;             |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13060040  | Prepare for PDR                                  | 141      | 03NOV09     | 01JUN10      | 174         | 5,445.96      | EA/EM =16 ; EA/SB =20 ;  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13060050  | Lorentz Force Stress Analyses                    | 200      | 02JUN10     | 22MAR11      | 174         | 11,334.06     | EA/EM =60 ;              |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13060060  | Fixture analysis                                 | 200      | 02JUN10     | 22MAR11      | 174         | 3,778.02      | EA/EM =20 ;              |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13060070  | Design activities                                | 200      | 02JUN10     | 22MAR11      | 174         | 22,668.12     | EA/EM =120 ;             |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| Activity ID                                      | Activity Description                             | Orig Dur | Early Start | Early Finish | Total Float | Budgeted Cost | FY10        |  |  |  |  |  |  |  |  |  |  |  | FY11                      |  |  |  |  |  |  |  |  |  |  |  | FY12                |  |  |  |  |  |  |  |  |  |  |  | FY13 |  |  |  |  |  |  |  |  |  |  |  | FY14 |  |  |  |  |  |  |  |  |  |  |  | FY15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|----------|-------------|--------------|-------------|---------------|-------------|--|--|--|--|--|--|--|--|--|--|--|---------------------------|--|--|--|--|--|--|--|--|--|--|--|---------------------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|  |  |          |             |              |             |               |             |  |  |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13060080                                       | Complete Cad detail and assembly drawings of Inn | 200      | 02JUN10     | 22MAR11      | 174         | 37,533.75     | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  | EA/SB =300 ;              |  |  |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13060090                                       | Prepare for FDR                                  | 200      | 02JUN10     | 22MAR11      | 174         | 5,449.69      | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  | EM/EM =16 ; EM/SB =24 ;   |  |  |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13060091                                       | Ready for FDR                                    | 1        | 23MAR11     | 23MAR11      | 174         | 5,507.04      | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  | EM/EM =16 ; EM/SB =24 ;   |  |  |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Inner PF Fabrication</b>                      |  |          |             |              |             |               |             |  |  |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13060100                                       | Generate SOW for conductor                       | 9        | 24MAR11*    | 05APR11      | 174         | 2,290.68      | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  | EA/EM =12 ;               |  |  |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13060110                                       | Prep requisition & submit to procurement         | 5        | 06APR11     | 12APR11      | 174         | 1,527.12      | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  | EA/EM =08 ;               |  |  |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13060120                                       | Bid & award conductor order [220%]               | 20       | 13APR11     | 10MAY11      | 174         | 0.00          | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13060130                                       | Manufacture Copper conductor [extrusion]         | 70       | 11MAY11     | 18AUG11      | 174         | 57,424.68     | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  | EM/EM =16 ; 41=42,500 ;   |  |  |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13060140                                       | Prep req & sub procurement Kapton/glass Insula   | 5        | 24MAR11*    | 30MAR11      | 203         | 1,220.80      | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  | EM/SM =08 ;               |  |  |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13060150                                       | Procure Kapton/glass co-wound insulation         | 70       | 31MAR11     | 08JUL11      | 203         | 27,020.80     | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  | EM/SM =08 ; 41=20,000 ;   |  |  |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13060160                                       | Generate SOW & Manufacturing SPEC Inner [6] Inne | 16       | 06APR11*    | 27APR11      | 253         | 6,499.20      | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  | EM/EM =40 ;               |  |  |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13060170                                       | Prep req & submit to procurement Inner [6] Inner | 5        | 24MAR11*    | 30MAR11      | 243         | 1,527.12      | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  | EA/EM =08 ;               |  |  |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13060180                                       | Review bids and award contract Inner [6] Inner P | 30       | 31MAR11     | 11MAY11      | 243         | 0.00          | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13060190                                       | Fabricate Inner [6] Inner PF coils               | 200      | 19AUG11     | 07JUN12      | 174         | 294,479.52    | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  | EA/EM =200 ; 41=180,000 ; |  |  |  |  |  |  |  |  |  |  |  | EM/SM =120 ;        |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Subtotal   |  | 669      | 01OCT09     | 07JUN12      | 174         | 534,412.56    | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Job: 1307 - CS Casing Assembly (DSGN/FAB)</b> |  |          |             |              |             |               |             |  |  |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Design</b>                                    |  |          |             |              |             |               |             |  |  |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13070010                                       | CDR  | 23       | 01OCT09*    | 02NOV09      | 48          | 0.00          | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13070020                                       | Design & generate Cad detail and assembly drawin | 141      | 03NOV09     | 01JUN10      | 48          | 44,447.40     | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  | EA/EM =40 ; EA/SB =300 ;  |  |  |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13070030                                       | Create 3D Model of Organ Pipes Leads Coolant Lin | 141      | 03NOV09     | 01JUN10      | 51          | 6,340.00      | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  | EM/EM =40 ;               |  |  |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13070040                                       | CS Support structure design/analysis             | 141      | 03NOV09     | 01JUN10      | 51          | 3,724.20      | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  | EA/EM =20 ;               |  |  |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13070050                                       | Prepare for PDR                                  | 141      | 03NOV09     | 01JUN10      | 51          | 0.00          | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  | EA/EM =00 ; EA/SB =00 ;   |  |  |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13070060                                       | Design & complete Cad detail and assembly drwng  | 203      | 02JUN10     | 25MAR11      | 48          | 67,669.86     | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  | EA/EM =80 ; EA/SB =420 ;  |  |  |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13070070                                       | 3D Model of Organ Pipes Leads Coolant Lines      | 200      | 02JUN10     | 22MAR11      | 51          | 19,294.62     | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  | EM/EM =120 ;              |  |  |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13070080                                       | Bellow (EJMA Standards) analysis                 | 200      | 02JUN10     | 22MAR11      | 51          | 7,556.04      | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  | EA/EM =40 ;               |  |  |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13070090                                       | Perform Tile Stod/Shell Stress analysis          | 200      | 02JUN10     | 22MAR11      | 51          | 7,556.04      | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  | EA/EM =40 ;               |  |  |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13070100                                       | CS Support                                       | 200      | 02JUN10     | 22MAR11      | 51          | 7,556.04      | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  | EA/EM =40 ;               |  |  |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13070103                                       | Complete design of ceramic break assembly        | 200      | 02JUN10*    | 22MAR11      | 51          | 15,112.08     | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  | EA/EM =80 ;               |  |  |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13070106                                       | Complete cad design and details                  | 200      | 02JUN10*    | 22MAR11      | 51          | 15,013.50     | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  | EA/SB =120 ;              |  |  |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13070110                                       | Prepare for FDR                                  | 200      | 02JUN10     | 22MAR11      | 51          | 6,780.72      | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  | EA/EM =20 ; EA/SB =24 ;   |  |  |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13070111                                       | Ready for FDR                                    | 1        | 28MAR11     | 28MAR11      | 48          | 6,852.12      | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  | EA/EM =20 ; EA/SB =24 ;   |  |  |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Casing Fabrication</b>                        |  |          |             |              |             |               |             |  |  |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13070120                                       | Prepare requisitions and submit to procurement   | 40       | 29MAR11*    | 23MAY11      | 48          | 7,635.60      | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  | EA/EM =40 ; 41=00 ;       |  |  |  |  |  |  |  |  |  |  |  | 41=00 ; 35=00 ;     |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13070130                                       | Oversee procurement of components                | 85       | 24MAY11     | 22SEP11      | 1,812       | 8,905.60      | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  | EA/EM =40 ; 41=00 ;       |  |  |  |  |  |  |  |  |  |  |  | 41=00 ; 35=1,000 ;  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13070140                                       | Procure Inconel Tube                             | 85       | 01JUN11     | 29SEP11      | 48          | 64,500.00     | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  | EA/EM =00 ; 41=50,000 ;   |  |  |  |  |  |  |  |  |  |  |  | 41=00 ; 35=00 ;     |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13070150                                       | Procure Inconel Bellows                          | 80       | 24MAY11     | 15SEP11      | 58          | 45,150.00     | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  | EA/EM =00 ; 41=35,000 ;   |  |  |  |  |  |  |  |  |  |  |  | 41=00 ; 35=00 ;     |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13070160                                       | Rotatable Flanges                                | 80       | 24MAY11     | 15SEP11      | 58          | 22,059.00     | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  | EA/EM =00 ; 41=00 ;       |  |  |  |  |  |  |  |  |  |  |  | 41=17,100 ; 35=00 ; |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13070170                                       | Inconel Upper forgings and Rings                 | 85       | 24MAY11     | 22SEP11      | 53          | 77,658.00     | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  | EA/EM =00 ; 41=60,200 ;   |  |  |  |  |  |  |  |  |  |  |  | 41=00 ; 35=00 ;     |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13070180                                       | Inconel flange machining                         | 80       | 24MAY11     | 15SEP11      | 58          | 51,600.00     | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  | EA/EM =00 ; 41=40,000 ;   |  |  |  |  |  |  |  |  |  |  |  | 41=00 ; 35=00 ;     |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13070190                                       | Diagnostic/ Gas Injection feed-thru's            | 80       | 24MAY11     | 15SEP11      | 58          | 12,900.00     | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  | EA/EM =00 ; 41=10,000 ;   |  |  |  |  |  |  |  |  |  |  |  | 41=00 ; 35=00 ;     |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CS13070200                                       | CHI copper Leads- upper & lower [For vessel bake | 80       | 24MAY11     | 15SEP11      | 58          | 20,640.00     | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  | EA/EM =00 ; 41=16,000 ;   |  |  |  |  |  |  |  |  |  |  |  | 41=00 ; 35=00 ;     |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| Activity ID                              | Activity Description                             | Orig Dur | Early Start | Early Finish | Total Float | Budgeted Cost | Fiscal Year |      |      |      |      |      |  |  |  |  |
|--|--|----------|-------------|--------------|-------------|---------------|-------------|------|------|------|------|------|--|--|--|--|
|  |  |          |             |              |             |               | FY10        | FY11 | FY12 | FY13 | FY14 | FY15 |  |  |  |  |
| CS13070210                               | Procure Inconel Weld Studs                       | 80       | 24MAY11     | 15SEP11      | 58          | 9,030.00      |             |      |      |      |      |      |  |  |  |  |
| CS13070220                               | CS casing support legs                           | 80       | 24MAY11     | 15SEP11      | 58          | 32,250.00     |             |      |      |      |      |      |  |  |  |  |
| CS13070240                               | Miscellaneous M&S                                | 80       | 24MAY11     | 15SEP11      | 58          | 6,450.00      |             |      |      |      |      |      |  |  |  |  |
| CS13070310                               | Assemble & weld case components [Inconel tubes.. | 65       | 30SEP11     | 10JAN12      | 48          | 75,886.17     |             |      |      |      |      |      |  |  |  |  |
| CS13070290                               | Design stud installation fixture                 | 60       | 04JAN11     | 28MAR11      | 183         | 12,561.60     |             |      |      |      |      |      |  |  |  |  |
| CS13070300                               | Fabricate Fixture for Stud installation          | 60       | 29MAR11     | 21JUN11      | 183         | 0.00          |             |      |      |      |      |      |  |  |  |  |
| CS13070230                               | Procure Weld material                            | 80       | 24MAY11     | 15SEP11      | 123         | 6,450.00      |             |      |      |      |      |      |  |  |  |  |
| CS13070320                               | Install inconel weld studs                       | 40       | 11JAN12     | 06MAR12      | 48          | 23,104.80     |             |      |      |      |      |      |  |  |  |  |
| CS13070330                               | Mount PF1b coil and support to CS casing [top an | 20       | 07MAR12     | 03APR12      | 48          | 19,254.00     |             |      |      |      |      |      |  |  |  |  |
| <b>Ceramic Breaks</b>                    |  |          |             |              |             |               |             |      |      |      |      |      |  |  |  |  |
| CS13070250                               | Procure Ceramic Rings                            | 70       | 24MAY11     | 31AUG11      | 305         | 70,950.00     |             |      |      |      |      |      |  |  |  |  |
| CS13070260                               | Procure CHI Shields                              | 60       | 24MAY11     | 17AUG11      | 315         | 38,700.00     |             |      |      |      |      |      |  |  |  |  |
| CS13070270                               | Fabricate Ceramic break SS structure             | 70       | 24MAY11     | 31AUG11      | 305         | 38,700.00     |             |      |      |      |      |      |  |  |  |  |
| CS13070280                               | Procure Viton "O" rings                          | 40       | 24MAY11     | 20JUL11      | 335         | 6,450.00      |             |      |      |      |      |      |  |  |  |  |
| CS13070340                               | Assemble & test Ceramics Breaks                  | 60       | 01SEP11     | 28NOV11      | 305         | 16,343.94     |             |      |      |      |      |      |  |  |  |  |
| Subtotal                                 |  | 623      | 01OCT09     | 03APR12      | 1,682       | 875,081.33    |             |      |      |      |      |      |  |  |  |  |
| <b>Job: 1302 - Center Stack Assembly</b> |  |          |             |              |             |               |             |      |      |      |      |      |  |  |  |  |
| <b>Design</b>                            |  |          |             |              |             |               |             |      |      |      |      |      |  |  |  |  |
| CS13020010                               | Prepare for CDR                                  | 23       | 01OCT09*    | 02NOV09      | 299         | 0.00          |             |      |      |      |      |      |  |  |  |  |
| CS13020020                               | Prepare for PDR                                  | 141      | 03NOV09     | 01JUN10      | 299         | 0.00          |             |      |      |      |      |      |  |  |  |  |
| CS13020030                               | Prepare for FDR                                  | 198      | 02JUN10     | 18MAR11      | 299         | 0.00          |             |      |      |      |      |      |  |  |  |  |
| CS13020040                               | Cad support for setup of CS assembly area        | 65       | 01OCT10*    | 11JAN11      | 357         | 25,286.00     |             |      |      |      |      |      |  |  |  |  |
| CS13020050                               | Generate CS Assembly procedure                   | 130      | 01OCT10*    | 12APR11      | 292         | 15,271.20     |             |      |      |      |      |      |  |  |  |  |
| CS13020060                               | Generate CS Installation procedure               | 130      | 21MAR11     | 21SEP11      | 299         | 15,271.20     |             |      |      |      |      |      |  |  |  |  |
| <b>Centerstack Assembly</b>              |  |          |             |              |             |               |             |      |      |      |      |      |  |  |  |  |
| CS13020070                               | Setup Assembly Area                              | 65       | 03OCT11*    | 11JAN12      | 107         | 69,319.04     |             |      |      |      |      |      |  |  |  |  |
| CS13020080                               | Modify CS Assy. Fixture                          | 65       | 03OCT11*    | 11JAN12      | 107         | 40,780.60     |             |      |      |      |      |      |  |  |  |  |
| CS13020090                               | Assemble Centerstack                             | 120      | 11JUN12     | 29NOV12      | 1           | 599,566.63    |             |      |      |      |      |      |  |  |  |  |
| CS13020091                               | NEW CENTERSTACK READY FOR INSTALLATION           | 0        |             | 29NOV12      | 1           | 0.00          |             |      |      |      |      |      |  |  |  |  |
| CS13020100                               | Tear down assembly area                          | 20       | 30NOV12     | 04JAN13      | 1,495       | 46,632.48     |             |      |      |      |      |      |  |  |  |  |
| Subtotal                                 |  | 810      | 01OCT09     | 04JAN13      | 1,495       | 812,127.15    |             |      |      |      |      |      |  |  |  |  |
| <b>Job: 2300 - ECH Analysis</b>          |  |          |             |              |             |               |             |      |      |      |      |      |  |  |  |  |
| 2300100                                  | Disruption analysis of Antenna                   | 333      | 02NOV09*    | 09MAR11      | 1,950       | 93,604.96     |             |      |      |      |      |      |  |  |  |  |
| 2300105                                  | Documentation                                    | 333      | 02NOV09*    | 09MAR11      | 1,950       | 12,480.66     |             |      |      |      |      |      |  |  |  |  |
| 2300110                                  | Disruption Loading of diagnostics                | 333      | 02NOV09*    | 09MAR11      | 1,950       | 12,480.66     |             |      |      |      |      |      |  |  |  |  |
| 2300115                                  | Bus Loren tz Forces/Support Stress Analysis      | 333      | 02NOV09*    | 09MAR11      | 1,950       | 7,459.01      |             |      |      |      |      |      |  |  |  |  |

| Activity ID                        | Activity Description                     | Orig Dur | Early Start | Early Finish | Total Float | Budgeted Cost | FY10        |  |  |  |  |  |  |  |  |  |  |  | FY11        |  |  |  |  |  |  |  |  |  |  |  | FY12        |  |  |  |  |  |  |  |  |  |  |  | FY13        |  |  |  |  |  |  |  |  |  |  |  | FY14        |  |  |  |  |  |  |  |  |  |  |  | FY15        |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------------|--|----------|-------------|--------------|-------------|---------------|-------------|--|--|--|--|--|--|--|--|--|--|--|-------------|--|--|--|--|--|--|--|--|--|--|--|-------------|--|--|--|--|--|--|--|--|--|--|--|-------------|--|--|--|--|--|--|--|--|--|--|--|-------------|--|--|--|--|--|--|--|--|--|--|--|-------------|--|--|--|--|--|--|--|--|--|--|--|
|                                    |  |          |             |              |             |               |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |
| 2300120                            | Analysis of Fixtures                     | 333      | 02NOV09*    | 09MAR11      | 1,950       | 12,431.68     | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  | EA/SB=100   |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |
| Subtotal                           |  | 333      | 02NOV09     | 09MAR11      | 1,950       | 138,456.97    | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |
| <b>Job: 2420 - 2nd NBI Sources</b> |  |          |             |              |             |               |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |
| <b>Design</b>                      |  |          |             |              |             |               |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |
| 24200020                           | PDR Prep PPL                             | 2        | 17MAY10*    | 18MAY10      | 1,818       | 2,383.04      |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |
| 24200030                           | PDR Prep PU                              | 2        | 19MAY10     | 20MAY10      | 1,818       | 2,383.04      |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |
| 24200040                           | PDR Prep DOE                             | 2        | 21MAY10     | 24MAY10      | 1,818       | 2,383.04      |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |
| 24200050                           | CONDUCT PDR                              | 1        | 25MAY10     | 25MAY10      | 1,818       | 1,191.52      |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |
| 24200060                           | FDR Prep PPL                             | 2        | 17MAR11*    | 18MAR11      | 1,618       | 2,443.04      |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |
| 24200070                           | FDR Prep PU                              | 2        | 21MAR11     | 22MAR11      | 1,618       | 2,443.04      |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |
| 24200080                           | FDR Prep DOE                             | 2        | 23MAR11     | 24MAR11      | 1,618       | 2,443.04      |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |
| 24200090                           | CONDUCT FDR                              | 1        | 25MAR11     | 25MAR11      | 1,618       | 1,221.52      |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |
| <b>Procure, Fab &amp; Assembly</b> |  |          |             |              |             |               |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |
| 24200100                           | Prep Requisition and procurement package | 5        | 04JUN12*    | 08JUN12      | 1,320       | 6,260.00      |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |
| 24200110                           | SUBMIT REQ TO PROCUREMENT                | 1        | 11JUN12     | 11JUN12      | 1,578       | 1,252.00      |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |
| 24200120                           | Procurement lead time (1)                | 15       | 12JUN12     | 02JUL12      | 1,578       | 0.00          |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |
| 24200130                           | AWARD                                    | 1        | 03JUL12     | 03JUL12      | 1,578       | 0.00          |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |
| 24200150                           | Fabricate or delivery                    | 40       | 05JUL12     | 29AUG12      | 1,578       | 87,120.00     |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |
| 24200160                           | Refurbish Source A                       | 80       | 04JUN12*    | 25SEP12      | 1,320       | 274,454.40    |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |
| 24200170                           | Refurbish Source B                       | 80       | 26SEP12     | 25JAN13      | 1,320       | 281,050.22    |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |
| 24200180                           | Refurbish Source C                       | 80       | 28JAN13     | 17MAY13      | 1,320       | 281,307.20    |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |
| 24200190                           | Refurbish Spare                          | 80       | 20MAY13     | 06SEP13      | 1,320       | 281,307.20    |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |
| 24200200                           | Build Probe tips (10 Long, 20 short)     | 60       | 20MAY13     | 09AUG13      | 1,340       | 79,674.96     |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |
| Subtotal                           |  | 832      | 17MAY10     | 06SEP13      | 1,320       | 1,309,317.26  | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  |
| <b>Job: 2425 - BL Relocation</b>   |  |          |             |              |             |               |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |
| <b>Design</b>                      |  |          |             |              |             |               |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |
| 24250010                           | PREPARE WORK PLANNING FORM               | 1        | 01OCT09*    | 01OCT09      | 2,277       | 1,268.00      |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |
| 24250020                           | Prep System Description                  | 2        | 02OCT09     | 05OCT09      | 2,277       | 2,536.00      |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |
| 24250030                           | Prep System Requirements                 | 3        | 06OCT09     | 08OCT09      | 2,277       | 3,804.00      |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |
| 24250040                           | R&D                                      | 10       | 09OCT09     | 22OCT09      | 2,277       | 25,360.00     |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |
| 24250050                           | Analysis                                 | 10       | 23OCT09     | 05NOV09      | 2,277       | 47,034.00     |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |
| 24250060                           | CDR                                      | 2        | 06NOV09     | 09NOV09      | 2,277       | 2,536.00      |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |
| 24250070                           | Thermal Analysis                         | 5        | 03NOV09*    | 09NOV09      | 647         | 13,752.40     |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |
| 24250080                           | Seismic Analysis                         | 10       | 10NOV09     | 23NOV09      | 647         | 27,504.80     |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |
| 24250090                           | FMEA Analysis                            | 10       | 24NOV09     | 09DEC09      | 647         | 27,504.80     |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |
| 24250100                           | Prepare NEPA Form                        | 2        | 10DEC09     | 11DEC09      | 647         | 2,536.00      |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |
| 24250110                           | Update Cost & Schedule Estimate          | 10       | 14DEC09     | 05JAN10      | 647         | 26,433.60     |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |
| 24250120                           | Design Drawings                          | 93       | 06JAN10     | 14MAY10      | 647         | 46,111.20     |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |
| 24250130                           | PDR Prep                                 | 5        | 17MAY10     | 21MAY10      | 647         | 6,340.00      |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |
| 24250140                           | CONDUCT PDR                              | 2        | 24MAY10     | 25MAY10      | 647         | 2,536.00      |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |
| 24250150                           | Layman Review                            | 5        | 26MAY10     | 02JUN10      | 1,456       | 6,340.00      |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |

| Activity ID                        | Activity Description                            | Orig Dur | Early Start | Early Finish | Total Float | Budgeted Cost | FY   |      |      |      |      |      |  |  |  |
|------------------------------------|---|----------|-------------|--------------|-------------|---------------|------|------|------|------|------|------|--|--|--|
|                                    |   |          |             |              |             |               | FY10 | FY11 | FY12 | FY13 | FY14 | FY15 |  |  |  |
| 24250160                           | Disposition PDR Chits                           | 2        | 03JUN10*    | 04JUN10      | 1,456       | 2,536.00      |      |      |      |      |      |      |  |  |  |
| 24250170                           | Design Drawings                                 | 55       | 07JUN10     | 23AUG10      | 1,456       | 19,885.60     |      |      |      |      |      |      |  |  |  |
| 24250180                           | Update Analyses                                 | 40       | 24AUG10     | 19OCT10      | 1,456       | 21,216.54     |      |      |      |      |      |      |  |  |  |
| 24250190                           | Update Cost & Schedule Estimate                 | 40       | 20OCT10     | 16DEC10      | 1,456       | 13,613.20     |      |      |      |      |      |      |  |  |  |
| 24250200                           | Prep Procurement Specs                          | 40       | 17DEC10     | 18FEB11      | 1,456       | 6,499.20      |      |      |      |      |      |      |  |  |  |
| 24250210                           | FDR Prep  | 25       | 21FEB11     | 25MAR11      | 1,456       | 6,499.20      |      |      |      |      |      |      |  |  |  |
| 24250220                           | CONDUCT FDR                                     | 2        | 28MAR11     | 29MAR11      | 1,456       | 2,599.68      |      |      |      |      |      |      |  |  |  |
| <b>Procure, Fab &amp; Assembly</b> |   |          |             |              |             |               |      |      |      |      |      |      |  |  |  |
| 24250230                           | Prep Requisition and procurement pkg - Steel an | 1        | 30MAR11*    | 30MAR11      | 1,809       | 0.00          |      |      |      |      |      |      |  |  |  |
| 24250240                           | SUBMIT REQ TO PROCUREMENT - Steel and Parts     | 1        | 31MAR11     | 31MAR11      | 1,809       | 0.00          |      |      |      |      |      |      |  |  |  |
| 24250250                           | Procurement lead time (1) - Steel and Parts     | 30       | 01APR11     | 12MAY11      | 1,809       | 0.00          |      |      |      |      |      |      |  |  |  |
| 24250260                           | AWARD - Steel and Parts                         | 1        | 13MAY11     | 13MAY11      | 1,809       | 0.00          |      |      |      |      |      |      |  |  |  |
| 24250270                           | Fabricate or delivery - Steel and Parts         | 30       | 16MAY11     | 27JUN11      | 1,809       | 0.00          |      |      |      |      |      |      |  |  |  |
| 24250280                           | Prep Requisition and procurement pkg - Lifting  | 2        | 28JUN11     | 29JUN11      | 1,809       | 0.00          |      |      |      |      |      |      |  |  |  |
| 24250290                           | SUBMIT REQ TO PROCUREMENT - Lifting Equipment   | 1        | 30JUN11     | 30JUN11      | 1,809       | 0.00          |      |      |      |      |      |      |  |  |  |
| 24250300                           | Procurement lead time (1) - Lifting Equipment   | 30       | 01JUL11     | 12AUG11      | 1,809       | 0.00          |      |      |      |      |      |      |  |  |  |
| 24250310                           | AWARD - Lifting Equipment                       | 1        | 15AUG11     | 15AUG11      | 1,809       | 0.00          |      |      |      |      |      |      |  |  |  |
| 24250320                           | Fabricate or delivery - Lifting Equipment       | 30       | 16AUG11     | 27SEP11      | 1,809       | 0.00          |      |      |      |      |      |      |  |  |  |
| <b>Installation</b>                |   |          |             |              |             |               |      |      |      |      |      |      |  |  |  |
| 24250330                           | Engineering 1 Days Per Week title III           | 480      | 30MAR11*    | 28FEB13      | 1,456       | 103,262.79    |      |      |      |      |      |      |  |  |  |
| 24250340                           | Engineering Support .Days Per Weektitle III     | 480      | 30MAR11*    | 28FEB13      | 1,456       | 37,256.36     |      |      |      |      |      |      |  |  |  |
| 24250350                           | Drafting Support .5 day/week title III          | 480      | 30MAR11*    | 28FEB13      | 1,456       | 32,552.68     |      |      |      |      |      |      |  |  |  |
| 24250360                           | Road - Path                                     | 5        | 03JAN12*    | 09JAN12      | 1,738       | 26,123.60     |      |      |      |      |      |      |  |  |  |
| 24250370                           | Duct Removal - Path                             | 2        | 10JAN12     | 11JAN12      | 1,738       | 10,449.44     |      |      |      |      |      |      |  |  |  |
| 24250380                           | Lintel Removal - Path                           | 3        | 12JAN12     | 16JAN12      | 1,738       | 17,006.56     |      |      |      |      |      |      |  |  |  |
| 24250390                           | Lintel Install - Path                           | 2        | 22MAR12     | 23MAR12      | 1,687       | 13,198.48     |      |      |      |      |      |      |  |  |  |
| 24250400                           | Duct Install - Path                             | 2        | 26MAR12     | 27MAR12      | 1,687       | 30,249.44     |      |      |      |      |      |      |  |  |  |
| 24250410                           | Setup - Metrology                               | 5        | 01OCT09*    | 07OCT09      | 2,275       | 22,133.60     |      |      |      |      |      |      |  |  |  |
| 24250420                           | Measure - Metrology                             | 15       | 08OCT09     | 28OCT09      | 2,275       | 66,400.80     |      |      |      |      |      |      |  |  |  |
| 24250430                           | Model - Metrology                               | 5        | 29OCT09     | 04NOV09      | 2,275       | 22,546.40     |      |      |      |      |      |      |  |  |  |
| 24250440                           | Lay out - Metrology                             | 5        | 05NOV09     | 11NOV09      | 2,275       | 25,823.60     |      |      |      |      |      |      |  |  |  |
| 24250450                           | Labyrinth Removal                               | 10       | 01JUN10*    | 14JUN10      | 2,132       | 45,811.52     |      |      |      |      |      |      |  |  |  |
| 24250460                           | Construction - Lift Fixtures                    | 20       | 01OCT10*    | 28OCT10      | 2,025       | 58,147.20     |      |      |      |      |      |      |  |  |  |
| 24250470                           | Load Test - Lift Fixtures                       | 5        | 29OCT10     | 04NOV10      | 2,025       | 27,140.00     |      |      |      |      |      |      |  |  |  |
| 24250480                           | Move - Lift Fixtures                            | 1        | 05NOV10     | 05NOV10      | 2,025       | 2,907.36      |      |      |      |      |      |      |  |  |  |
| 24250490                           | Trial Runs - Lift Fixtures                      | 5        | 08NOV10     | 12NOV10      | 2,025       | 46,490.00     |      |      |      |      |      |      |  |  |  |
| <b>Relocate Beamline</b>           |   |          |             |              |             |               |      |      |      |      |      |      |  |  |  |
| 24250500                           | Lift onto Rollers - Box Movements               | 1        | 23FEB12*    | 23FEB12      | 235         | 32,527.04     |      |      |      |      |      |      |  |  |  |
| 24250510                           | Move IN - Box Movements                         | 1        | 24FEB12     | 24FEB12      | 235         | 8,543.84      |      |      |      |      |      |      |  |  |  |
| 24250520                           | Over Wall - Box Movements                       | 1        | 27FEB12     | 27FEB12      | 235         | 8,543.84      |      |      |      |      |      |      |  |  |  |
| 24250530                           | Placement - Box Movements                       | 10       | 28FEB12     | 12MAR12      | 235         | 85,438.40     |      |      |      |      |      |      |  |  |  |



| Activity ID                                | Activity Description                             | Orig Dur | Early Start | Early Finish | Total Float | Budgeted Cost | FY10 |          | FY11     |  | FY12 |  | FY13 |  | FY14 |  | FY15 |  |
|--|--|----------|-------------|--------------|-------------|---------------|------|----------|----------|--|------|--|------|--|------|--|------|--|
|  |  |          |             |              |             |               |      |          |          |  |      |  |      |  |      |  |      |  |
| 24250930                                   | Placement - HVE 2 Movement                       | 3        | 30MAR12     | 03APR12      | 214         | 16,994.16     |      |          |          |  |      |  |      |  |      |  |      |  |
| 24250940                                   | Move - HVE 3 Movement                            | 2        | 04APR12     | 05APR12      | 214         | 11,781.84     |      |          |          |  |      |  |      |  |      |  |      |  |
| 24250950                                   | Disassemble - HVE 3 Movement                     | 2        | 06APR12     | 09APR12      | 214         | 10,449.44     |      |          |          |  |      |  |      |  |      |  |      |  |
| 24250960                                   | Move to Crain Access - HVE 3 Movement            | 2        | 10APR12     | 11APR12      | 214         | 10,449.44     |      |          |          |  |      |  |      |  |      |  |      |  |
| 24250970                                   | Lift into TFTR - HVE 3 Movement                  | 1        | 12APR12     | 12APR12      | 214         | 5,224.72      |      |          |          |  |      |  |      |  |      |  |      |  |
| 24250980                                   | Move In - HVE 3 Movement                         | 1        | 13APR12     | 13APR12      | 214         | 5,224.72      |      |          |          |  |      |  |      |  |      |  |      |  |
| 24250990                                   | Over Wall - HVE 3 Movement                       | 2        | 16APR12     | 17APR12      | 214         | 12,436.16     |      |          |          |  |      |  |      |  |      |  |      |  |
| 24251000                                   | Reassemble - HVE 3 Movement                      | 2        | 18APR12     | 19APR12      | 214         | 10,449.44     |      |          |          |  |      |  |      |  |      |  |      |  |
| 24251010                                   | Placement - HVE 3 Movement                       | 3        | 20APR12     | 24APR12      | 214         | 16,994.16     |      |          |          |  |      |  |      |  |      |  |      |  |
| FY092425 FY09 Actual Cost                  |  |          |             |              |             |               | 22*  | 01JAN09A | 30SEP09A |  |      |  |      |  |      |  |      |  |
| Subtotal                                   |  | 1,042    | 01JAN09A    | 28FEB13      | 1,456       | 1,712,215.93  |      |          |          |  |      |  |      |  |      |  |      |  |
| <b>Job: 2430 - 2nd NBI Decontamination</b> |  |          |             |              |             |               |      |          |          |  |      |  |      |  |      |  |      |  |
| 24300230                                   | Decon Calorimeter                                | 30       | 01OCT09*    | 11NOV09      | 1,702       | 136,857.60    |      |          |          |  |      |  |      |  |      |  |      |  |
| 24300240                                   | Decon Ion Pump                                   | 30       | 01DEC09     | 20JAN10      | 1,702       | 136,857.60    |      |          |          |  |      |  |      |  |      |  |      |  |
| 24300260                                   | Decon Bending Magnet                             | 30       | 04JAN10     | 12FEB10      | 1,702       | 136,857.60    |      |          |          |  |      |  |      |  |      |  |      |  |
| 24300280                                   | Decon 90 inch flange & neutralizer               | 30       | 15FEB10     | 26MAR10      | 1,702       | 136,857.60    |      |          |          |  |      |  |      |  |      |  |      |  |
| 24300300                                   | Decon Exit Spool Piece                           | 20       | 29MAR10     | 23APR10      | 1,702       | 91,238.40     |      |          |          |  |      |  |      |  |      |  |      |  |
| 24300310                                   | Decon BL Lid                                     | 45       | 15APR10     | 17JUN10      | 1,702       | 205,286.40    |      |          |          |  |      |  |      |  |      |  |      |  |
| 24300370                                   | Decon BL Box                                     | 45       | 10JUN10     | 12AUG10      | 1,702       | 205,286.40    |      |          |          |  |      |  |      |  |      |  |      |  |
| 24300380                                   | Decon BL exterior & accoutrements                | 15       | 01SEP10     | 22SEP10      | 1,702       | 68,428.80     |      |          |          |  |      |  |      |  |      |  |      |  |
| 24300390                                   | Decon Program Evaluation/Operation Impact Report | 10       | 09SEP10     | 22SEP10      | 1,702       | 38,040.00     |      |          |          |  |      |  |      |  |      |  |      |  |
| 24300400                                   | Decon Procurement Support - Material & Supplies  | 243      | 01OCT09     | 22SEP10      | 2,062       | 246,000.00    |      |          |          |  |      |  |      |  |      |  |      |  |
| FY092430 FY09 Actual Cost                  |  |          |             |              |             |               | 22*  | 01JAN09A | 30SEP09A |  |      |  |      |  |      |  |      |  |
| Subtotal                                   |  | 436      | 01JAN09A    | 22SEP10      | 2,062       | 2,640,223.40  |      |          |          |  |      |  |      |  |      |  |      |  |
| <b>Job: 2440 - 2nd NBI Beamline</b>        |  |          |             |              |             |               |      |          |          |  |      |  |      |  |      |  |      |  |
| <b>Design</b>                              |  |          |             |              |             |               |      |          |          |  |      |  |      |  |      |  |      |  |
| 24400040                                   | PRELIMINARY ENGINEERING DESIGN                   | 140      | 03NOV09*    | 28MAY10      | 1,682       | 0.00          |      |          |          |  |      |  |      |  |      |  |      |  |
| 24400050                                   | FINAL ENGINEERING DESIGN                         | 196      | 02JUN10*    | 16MAR11      | 1,665       | 0.00          |      |          |          |  |      |  |      |  |      |  |      |  |
| 24400055                                   | PREPARE PROCUREMENT PACKAGE + AWARD              | 30       | 17MAR11*    | 27APR11      | 1,665       | 0.00          |      |          |          |  |      |  |      |  |      |  |      |  |
| 24400060                                   | Begin refurbishment job parts list               | 60       | 03NOV09     | 05FEB10      | 2,222       | 5,957.60      |      |          |          |  |      |  |      |  |      |  |      |  |
| <b>Procure, Fab &amp; Assembly</b>         |  |          |             |              |             |               |      |          |          |  |      |  |      |  |      |  |      |  |
| 24400070                                   | Prepare drawings                                 | 600      | 03NOV09     | 03APR12      | 1,682       | 60,439.39     |      |          |          |  |      |  |      |  |      |  |      |  |
| 24400080                                   | Engineering Supervision                          | 600      | 03NOV09     | 03APR12      | 1,682       | 155,349.12    |      |          |          |  |      |  |      |  |      |  |      |  |
| 24400090                                   | Calorimeter parts                                | 20       | 17MAR11     | 13APR11      | 1,665       | 31,347.60     |      |          |          |  |      |  |      |  |      |  |      |  |
| 24400100                                   | Ion Dump parts                                   | 40       | 14APR11     | 09JUN11      | 1,665       | 61,405.20     |      |          |          |  |      |  |      |  |      |  |      |  |
| 24400110                                   | Magnet parts                                     | 20       | 10JUN11     | 08JUL11      | 1,665       | 30,702.60     |      |          |          |  |      |  |      |  |      |  |      |  |
| 24400120                                   | 90 inch flange and neutralizer parts             | 40       | 11JUL11     | 02SEP11      | 1,665       | 69,403.20     |      |          |          |  |      |  |      |  |      |  |      |  |
| 24400130                                   | Exit spool piece parts                           | 20       | 06SEP11     | 03OCT11      | 1,665       | 49,467.54     |      |          |          |  |      |  |      |  |      |  |      |  |
| 24400140                                   | BL Lid parts                                     | 20       | 04OCT11     | 31OCT11      | 1,665       | 32,390.40     |      |          |          |  |      |  |      |  |      |  |      |  |
| 24400150                                   | BL Box parts                                     | 20       | 01NOV11     | 30NOV11      | 1,665       | 36,086.40     |      |          |          |  |      |  |      |  |      |  |      |  |

| Activity ID | Activity Description                     | Orig Dur | Early Start | Early Finish | Total Float | Budgeted Cost | FY10 |  |  |  |  |  |  |  |  |  |  |  | FY11 |  |  |  |  |  |  |  |  |  |  |  | FY12 |  |  |  |  |  |  |  |  |  |  |  | FY13 |  |  |  |  |  |  |  |  |  |  |  | FY14 |  |  |  |  |  |  |  |  |  |  |  | FY15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------|--|----------|-------------|--------------|-------------|---------------|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|             |  |          |             |              |             |               |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24400160    | Calorimeter TC wiring                    | 20       | 01DEC11     | 05JAN12      | 1,665       | 42,769.60     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24400170    | Ion Dump TC wiring                       | 20       | 06JAN12     | 02FEB12      | 1,665       | 36,169.60     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24400180    | Magnet TC wiring                         | 20       | 03FEB12     | 01MAR12      | 1,665       | 32,209.60     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24400190    | 90 inch flange and neutralizer TC wiring | 20       | 02MAR12     | 29MAR12      | 1,665       | 32,209.60     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24400200    | Exit spool piece TC wiring               | 20       | 30MAR12     | 26APR12      | 1,665       | 32,209.60     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24400205    | Radiation Supplies (M&S)                 | 300      | 01OCT10*    | 13DEC11      | 1,696       | 323,750.00    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24400210    | Refurbish BL Box                         | 50       | 01OCT10*    | 13DEC10      | 1,696       | 81,003.60     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24400220    | Refurbish BL Lid                         | 50       | 14DEC10     | 01MAR11      | 1,696       | 83,583.60     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24400230    | Refurbish 90 inch flange and neutralizer | 50       | 02MAR11     | 10MAY11      | 1,696       | 162,007.20    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24400240    | Refurbish Bending Magnet                 | 30       | 11MAY11     | 22JUN11      | 1,696       | 81,003.60     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24400250    | Refurbish spool piece                    | 20       | 23JUN11     | 21JUL11      | 1,696       | 162,007.20    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24400260    | Refurbish Ion Dump                       | 50       | 22JUL11     | 30SEP11      | 1,696       | 240,430.80    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24400270    | Refurbish Calorimeter                    | 50       | 03OCT11     | 13DEC11      | 1,696       | 262,113.20    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24400280    | Reassembly & Test                        | 60       | 14DEC11     | 14MAR12      | 1,696       | 245,116.80    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| FY092440    | FY09 Actual Cost                         | 22*      | 01JAN09A    | 30SEP09A     |             | 28,566.00     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Subtotal    |  | 833      | 01JAN09A    | 26APR12      | 1,665       | 2,377,699.05  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**Job: 2450 - 2nd NBI Services**

**Design**

|           |                                 |     |          |         |       |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------|---------------------------------|-----|----------|---------|-------|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 245000100 | PREPARE WORK PLANNING FORM      | 1   | 01OCT09* | 01OCT09 | 1,818 | 1,268.00   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 245000110 | Prep System Description         | 2   | 02OCT09  | 05OCT09 | 1,818 | 2,536.00   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 245000120 | Prep System Requirements        | 3   | 06OCT09  | 08OCT09 | 1,818 | 3,804.00   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 245000130 | R&D                             | 5   | 09OCT09  | 15OCT09 | 1,818 | 12,680.00  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 245000140 | Analysis                        | 8   | 16OCT09  | 27OCT09 | 1,818 | 53,883.20  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 245000150 | CDR                             | 2   | 28OCT09  | 29OCT09 | 1,818 | 2,536.00   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 245000160 | Thermal Analysis                | 10  | 03NOV09* | 16NOV09 | 1,816 | 20,092.40  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 245000170 | Seismic Analysis                | 10  | 17NOV09  | 02DEC09 | 1,816 | 20,092.40  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 245000180 | FMEA Analysis                   | 10  | 03DEC09  | 16DEC09 | 1,816 | 13,752.40  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 245000190 | Prepare NEPA Form               | 2   | 17DEC09  | 18DEC09 | 1,816 | 2,536.00   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 245000200 | Update Cost & Schedule Estimate | 10  | 21DEC09  | 12JAN10 | 1,816 | 26,433.60  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 245000210 | Design Drawings                 | 90  | 13JAN10  | 18MAY10 | 1,816 | 124,635.20 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 245000220 | PDR Prep                        | 10  | 19MAY10  | 02JUN10 | 1,816 | 12,680.00  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 245000230 | CONDUCT PDR                     | 2   | 03JUN10  | 04JUN10 | 1,816 | 2,536.00   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 245000240 | Layman Review                   | 5   | 07JUN10  | 11JUN10 | 1,816 | 6,340.00   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 245000250 | Disposition PDR Chits           | 2   | 14JUN10* | 15JUN10 | 1,816 | 2,536.00   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 245000260 | Design Drawings                 | 155 | 16JUN10  | 01FEB11 | 1,816 | 27,081.84  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 245000270 | Update Analyses                 | 5   | 02FEB11  | 08FEB11 | 1,816 | 21,324.00  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 245000280 | Update Cost & Schedule Estimate | 10  | 09FEB11  | 22FEB11 | 1,816 | 27,226.40  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 245000290 | Prep Procurement Specs          | 10  | 23FEB11  | 08MAR11 | 1,816 | 12,998.40  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



| Activity ID                        | Activity Description                            | Orig Dur | Early Start | Early Finish | Total Float | Budgeted Cost | FY10 |  |  |  |  |  |  |  |  |  |  |  | FY11 |  |  |  |  |  |  |  |  |  |  |  | FY12 |  |  |  |  |  |  |  |  |  |  |  | FY13 |  |  |  |  |  |  |  |  |  |  |  | FY14 |  |  |  |  |  |  |  |  |  |  |  | FY15 |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------------|---|----------|-------------|--------------|-------------|---------------|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|
|                                    |   |          |             |              |             |               |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 245000300                          | FDR Prep  | 10       | 09MAR11     | 22MAR11      | 1,816       | 12,998.40     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 245000310                          | CONDUCT FDR                                     | 2        | 23MAR11     | 24MAR11      | 1,816       | 2,599.68      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| <b>Procure, Fab &amp; Assembly</b> |   |          |             |              |             |               |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 245000320                          | Prep Requisition & procurement pkg - Cyro parts | 1        | 25MAR11*    | 25MAR11      | 1,816       | 0.00          |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 245000330                          | SUBMIT REQ TO PROCUREMENT - Cyro parts          | 1        | 28MAR11     | 28MAR11      | 1,816       | 0.00          |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 245000340                          | Procurement lead time (1) - Cyro parts          | 30       | 29MAR11     | 09MAY11      | 1,816       | 0.00          |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 245000350                          | AWARD - Cyro parts                              | 1        | 10MAY11     | 10MAY11      | 1,816       | 0.00          |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 245000360                          | Fabricate or delivery - Cyro parts              | 90       | 11MAY11     | 16SEP11      | 1,816       | 0.00          |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 245000370                          | Prep Requisitn & procuremnt pkg - Pipe & misc.  | 2        | 25MAR11     | 28MAR11      | 1,875       | 0.00          |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 245000380                          | SUBMIT REQ TO PROCUREMENT - Pipe & misc.        | 1        | 29MAR11     | 29MAR11      | 1,875       | 0.00          |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 245000390                          | Procurement lead time (1) - Pipe & misc.        | 30       | 30MAR11     | 10MAY11      | 1,875       | 0.00          |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 245000400                          | AWARD - Pipe & misc.                            | 1        | 11MAY11     | 11MAY11      | 1,875       | 0.00          |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 245000410                          | Fabricate or delivery - Pipe & misc.            | 30       | 12MAY11     | 23JUN11      | 1,875       | 0.00          |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 245000420                          | Engineering for 2nd NBI Services                | 500      | 03JAN11*    | 01JAN13      | 1,498       | 411,449.22    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 245000430                          | Engineering Support for 2nd NBI Services        | 500      | 03JAN11     | 01JAN13      | 1,498       | 104,961.60    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 245000440                          | Drafting Support for 2nd NBI Services           | 500      | 03JAN11     | 01JAN13      | 1,498       | 103,007.10    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 245000450                          | Helium Transfer Lines                           | 160      | 03OCT11*    | 23MAY12      | 1,646       | 439,843.20    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 245000460                          | Nitrogen Transfer Lines                         | 120      | 15NOV11*    | 10MAY12      | 1,655       | 192,431.40    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 245000470                          | SF6 Transfer Lines                              | 30       | 02APR12*    | 11MAY12      | 1,654       | 88,842.32     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 245000480                          | HVE Water Lines                                 | 65       | 15NOV11*    | 23FEB12      | 1,710       | 310,686.30    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 245000490                          | Ion Dump Water Lines                            | 175      | 01JUL11*    | 15MAR12      | 1,665       | 571,769.60    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 245000500                          | Ion Source Water Lines                          | 130      | 01SEP11*    | 13MAR12      | 1,667       | 405,873.17    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 245000510                          | Vacuum Lines                                    | 30       | 01MAY12*    | 12JUN12      | 1,633       | 191,212.19    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 245000520                          | Stack 8 Vacuum Lines                            | 30       | 03OCT11*    | 11NOV11      | 1,776       | 120,980.40    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 245000530                          | Gas System                                      | 23       | 03OCT11*    | 02NOV11      | 1,783       | 71,321.99     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 245000540                          | Legs  | 12       | 03OCT11     | 18OCT11      | 1,794       | 40,690.20     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| FY092450                           | FY09 Actual Cost                                | 22*      | 01JAN09A    | 30SEP09A     |             | 76,722.00     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| Subtotal                           |   | 1,000    | 01JAN09A    | 01JAN13      | 1,498       | 3,542,360.61  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| <b>Job: 2460 - 2nd NBI Armor</b>   |   |          |             |              |             |               |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24600100                           | Armor Layout                                    | 2        | 01OCT09*    | 02OCT09      | 1,752       | 2,254.64      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24600110                           | Thermal Annalysis of Second Beam                | 5        | 05OCT09     | 09OCT09      | 1,752       | 6,340.00      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24600120                           | CD of Supports and plates                       | 5        | 05OCT09     | 09OCT09      | 1,752       | 16,909.80     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24600130                           | Tile modifications                              | 5        | 05OCT09     | 09OCT09      | 1,752       | 11,273.20     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24600140                           | Molly "Backstop" Design                         | 5        | 05OCT09     | 09OCT09      | 1,752       | 5,636.60      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24600150                           | Bay H Port Cover Design                         | 5        | 12OCT09     | 16OCT09      | 1,752       | 11,273.20     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24600160                           | PPPL CDR  | 1        | 19OCT09     | 19OCT09      | 1,752       | 0.00          |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24600170                           | Prep for PU CDR                                 | 5        | 20OCT09     | 26OCT09      | 1,752       | 11,273.20     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24600180                           | Prep for DOE CDR                                | 8        | 27OCT09     | 05NOV09      | 1,752       | 4,509.28      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24600220                           | CDR Chit Resolution - Preliminary Design        | 10       | 06NOV09*    | 19NOV09      | 1,752       | 12,293.60     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |

| Activity ID                      | Activity Description                             | Orig Dur | Early Start | Early Finish | Total Float | Budgeted Cost | FY10  |  |  |  |  |  |  | FY11 |  |  |  |  |  |  | FY12 |  |  |  |  |  |  | FY13 |  |  |  |  |  |  | FY14 |  |  |  |  |  |  | FY15 |  |  |  |  |  |  |
|----------------------------------|--|----------|-------------|--------------|-------------|---------------|---|--|--|--|--|--|--|------|--|--|--|--|--|--|------|--|--|--|--|--|--|------|--|--|--|--|--|--|------|--|--|--|--|--|--|------|--|--|--|--|--|--|
|                                  |  |          |             |              |             |               | FY10  |  |  |  |  |  |  | FY11 |  |  |  |  |  |  | FY12 |  |  |  |  |  |  | FY13 |  |  |  |  |  |  | FY14 |  |  |  |  |  |  | FY15 |  |  |  |  |  |  |
| 24600240                         | FMEA Analysis - Preliminary Design               | 10       | 20NOV09     | 07DEC09      | 1,853       | 13,484.30     | EM/EM =50 ; EAA/EM =30 ;  |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |
| 24600250                         | Prepare NEPA Form - Preliminary Design           | 1        | 20NOV09     | 20NOV09      | 1,862       | 317.00        | EM/EM =02 ;   |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |
| 24600260                         | Update Cost & Sched Estimate - Prelim Dsgn       | 5        | 20NOV09     | 30NOV09      | 1,858       | 3,804.00      | EM/EM =24 ;   |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |
| 24600270                         | Design Drawings - Preliminary Design             | 100      | 20NOV09     | 21APR10      | 1,752       | 16,911.68     | EM/EM =32 ; EA/SB =96 ;   |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |
| 24600280                         | PDR Prep - NBI Armor                             | 10       | 22APR10     | 05MAY10      | 1,752       | 8,313.28      | EM/EM =40 ; EA/SB =16 ;   |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |
| 24600290                         | CONDUCT PDR - NBI Armor                          | 1        | 06MAY10     | 06MAY10      | 1,752       | 1,268.00      | EM/EM =08 ;   |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |
| 24600300                         | Disposition PDR Chits - Final Design             | 10       | 02JUN10*    | 15JUN10      | 1,735       | 11,483.28     | EM/EM =60 ; EA/SB =16 ;   |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |
| 24600310                         | Design Drawings - Final Design                   | 163      | 16JUN10     | 11FEB11      | 1,735       | 15,141.05     | EM/EM =32 ; EA/SB =80 ;   |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |
| 24600320                         | Update Cost & Sched Estimate - Final Dsgn        | 3        | 14FEB11     | 16FEB11      | 1,735       | 2,599.68      | EM/EM =16 ;   |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |
| 24600330                         | Prep Procurement Specs - Final Design            | 10       | 17FEB11     | 02MAR11      | 1,735       | 6,499.20      | EM/EM =40 ;   |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |
| 24600340                         | FDR Prep - NBI Armor                             | 8        | 03MAR11     | 14MAR11      | 1,735       | 5,632.98      | EM/EM =30 ; EA/SB =06 ;   |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |
| 24600350                         | CONDUCT FDR - NBI Armor                          | 1        | 15MAR11     | 15MAR11      | 1,735       | 1,299.84      | EM/EM =08 ;   |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |
| 24600360                         | Preliminary Design Review Complete - NBI Armor   | 0        |             | 01JUN10*     | 1,735       | 0.00          | ↓   |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |
| 24600370                         | Final Design Review Complete - NBI Armor         | 0        |             | 03OCT11*     | 1,594       | 0.00          | ↓   |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |
| 24600400                         | Prep Requisition & Procuremnt Pckg - Armor Tiles | 2        | 04OCT11     | 05OCT11      | 1,594       | 3,331.00      |   |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |
| 24600410                         | Submit Request to Procurement - Armor Tiles      | 1        | 06OCT11     | 06OCT11      | 1,594       | 666.20        |   |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |
| 24600420                         | Procurement Lead Times - Armor Tiles             | 25       | 07OCT11     | 10NOV11      | 1,594       | 0.00          |   |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |
| 24600430                         | Award - Armor Tiles                              | 1        | 11NOV11     | 11NOV11      | 1,776       | 0.00          |   |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |
| 24600440                         | Fabricate / Delivery - Armor Tiles               | 60       | 11NOV11     | 14FEB12      | 1,594       | 46,200.00     |   |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |
| 24600450                         | Prep Req & Proc Pckg - Armor Support             | 2        | 11NOV11     | 14NOV11      | 1,636       | 1,332.40      |   |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |
| 24600460                         | Submit Request t/Proc - Armor Support            | 1        | 15NOV11     | 15NOV11      | 1,636       | 666.20        |   |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |
| 24600470                         | Procurement Lead Time - Armor Support            | 15       | 16NOV11     | 08DEC11      | 1,636       | 0.00          |   |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |
| 24600480                         | Award - Armor Support                            | 1        | 09DEC11     | 09DEC11      | 1,758       | 0.00          |   |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |
| 24600490                         | Fabricate / Delivery - Armor Support             | 30       | 09DEC11     | 27JAN12      | 1,636       | 66,000.00     |   |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |
| 24600495                         | Procurement / Fabrication / Assembly Complete    | 0        |             | 03OCT11*     | 1,805       | 0.00          |   |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |
| 24600500                         | Removal Procedure - NBI Armor                    | 20       | 03OCT11*    | 28OCT11      | 1,663       | 11,658.50     |   |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |
| 24600510                         | InVessel Work Remve Armor/Remv & Save Bay H Port | 30       | 15FEB12*    | 27MAR12      | 1,594       | 25,916.00     |   |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |
| 24600600                         | Installation Procedure - NBI Armor               | 20       | 03OCT11*    | 28OCT11      | 1,693       | 14,989.50     |   |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |
| 24600610                         | Refurbishment of NBI Armor                       | 60       | 28MAR12     | 20JUN12      | 1,594       | 43,199.20     |   |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |
| 24600620                         | Machine Installation NBI Supp/Armor/Port Cover   | 30       | 21JUN12*    | 02AUG12      | 1,594       | 5,419.34      |   |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |
| 24600630                         | PTP Testing - NBI Armor                          | 3        | 03AUG12*    | 07AUG12      | 1,594       | 0.00          |   |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |
| FY092460                         | FY09 Actual Cost                                 | 22*      | 01JAN09A    | 30SEP09A     |             | 35,786.00     |   |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |
| Subtotal                         |  | 904      | 01JAN09A    | 07AUG12      | 1,594       | 423,682.15    |   |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |
| <b>Job: 2470 - 2nd NBI Power</b> |  |          |             |              |             |               |   |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |
| 247000100                        | CDR Complete Power System                        | 0        |             | 02NOV09*     | 2,256       | 0.00          | EE/EM =00 ; EE/SM =00 ;<br>EE/SB =00 ; EE/TB =00 ;<br>EA/SB =00 ; 31=00 ;<br>37=00 ; 41=00 ;<br>43=00 ; EM/TB =00 ; |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |
| 247000120                        | CDR Chit Resolution - Prelim Dsgn                | 1        | 03NOV09     | 03NOV09      | 2,256       | 0.00          |   |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |
| 247000130                        | Engineering Analysis - Prelim Dsgn               | 1        | 04NOV09     | 04NOV09      | 2,256       | 0.00          |   |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |
| 247000140                        | Fema Analysis                                    | 1        | 04NOV09     | 04NOV09      | 2,257       | 0.00          |   |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |
| 247000150                        | Prepare Nepa Form                                | 1        | 04NOV09     | 04NOV09      | 2,257       | 0.00          |   |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |      |  |  |  |  |  |  |

| Activity ID | Activity Description                             | Orig Dur | Early Start | Early Finish | Total Float | Budgeted Cost | FY10 |  |  |  |  |  |  |  |  |  |  |  | FY11 |  |  |  |  |  |  |  |  |  |  |  | FY12 |  |  |  |  |  |  |  |  |  |  |  | FY13 |  |  |  |  |  |  |  |  |  |  |  | FY14 |  |  |  |  |  |  |  |  |  |  |  | FY15 |  |  |  |  |  |  |  |  |  |  |  |
|-------------|--|----------|-------------|--------------|-------------|---------------|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|
|             |  |          |             |              |             |               |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 247000160   | Prepare Cost & Schedule Estimate - Prelim Dsgn   | 1        | 05NOV09     | 05NOV09      | 2,256       | 0.00          |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 247000170   | Design Drawings - Prelim Dsgn                    | 1        | 05NOV09     | 05NOV09      | 2,256       | 0.00          |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 247000180   | PDR Preparation                                  | 22       | 15JUN10*    | 15JUL10      | 2,109       | 11,572.80     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 247000190   | Conduct PDR                                      | 1        | 16JUL10     | 16JUL10      | 2,109       | 0.00          |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 247000200   | PDR Complete                                     | 0        |             | 01JUN10*     | 1,715       | 0.00          |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 247000210   | PDR Chit Resolution - Final Dsgn                 | 1        | 02JUN10     | 02JUN10      | 1,715       | 0.00          |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 247000220   | Update Engineering Analysis - Final Dsgn         | 1        | 03JUN10     | 03JUN10      | 1,715       | 0.00          |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 247000230   | Prepare Cost & Schedule Estimate - Final Dsgn    | 1        | 03JUN10     | 03JUN10      | 1,716       | 0.00          |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 247000235   | Calculations - Final Dsgn                        | 11       | 03OCT11*    | 17OCT11      | 1,382       | 7,197.20      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 247000240   | Design Drawings - Final Dsgn                     | 1        | 03OCT11     | 03OCT11      | 1,382       | 0.00          |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 247000295   | FDR Preparation                                  | 28       | 18OCT11*    | 28NOV11      | 1,766       | 12,160.80     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 247000300   | Conduct FDR                                      | 1        | 05DEC11     | 05DEC11      | 1,762       | 0.00          |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 247000305   | FDR Complete                                     | 0        |             | 03OCT11*     | 1,403       | 0.00          |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 247000620   | Procurement / Fabrication / Assembly Complete    | 0        | 04OCT11*    |              | 1,461       | 0.00          |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 247000245   | Prep Procurement Spec - AC Aux                   | 12       | 04OCT11     | 19OCT11      | 1,382       | 47,054.88     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 247000310   | Prep Req & Procurement Package -AC Aux/Grounding | 1        | 20OCT11     | 20OCT11      | 1,391       | 1,439.44      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 247000320   | Submit Req to Procurement - AC Aux / Grounding   | 1        | 21OCT11     | 21OCT11      | 1,421       | 719.72        |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 247000330   | Procurement Lead Time - AC Aux / Grounding       | 15       | 24OCT11     | 11NOV11      | 1,421       | 0.00          |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 247000340   | Award - AC Aux / Grounding                       | 1        | 14NOV11     | 14NOV11      | 1,421       | 0.00          |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 247000350   | Procurement/Fab/Assembly -AC Aux/Grounding       | 10       | 15NOV11     | 30NOV11      | 1,421       | 39,600.00     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 247000630   | Installation Procedure - AC Aux                  | 5        | 02FEB12     | 08FEB12      | 1,382       | 8,527.90      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 247000640   | Installation - AC Aux                            | 10       | 09FEB12     | 22FEB12      | 1,382       | 73,345.30     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 247000800   | Commissioning - AC Aux                           | 2        | 23FEB12     | 24FEB12      | 1,578       | 5,360.08      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 247000250   | Prep Procurement Spec - Grounding                | 5        | 20OCT11     | 26OCT11      | 1,382       | 27,051.60     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 247000650   | Installation Procedure - Grounding               | 5        | 09FEB12     | 15FEB12      | 1,387       | 4,130.88      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 247000660   | Installation - Grounding                         | 20       | 23FEB12     | 21MAR12      | 1,382       | 50,824.24     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 247000810   | Commissioning - Grounding                        | 2        | 04DEC12     | 05DEC12      | 1,382       | 5,494.00      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 247000255   | Prep Procurement Spec - Reactivation of EQ       | 5        | 27OCT11     | 02NOV11      | 1,382       | 12,160.80     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 247000370   | Prep Req & Procurement Pckg - Reactivation of EQ | 1        | 03NOV11     | 03NOV11      | 1,382       | 1,439.44      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 247000380   | Submit Req to Procurement - Reactivation of EQ   | 1        | 04NOV11     | 04NOV11      | 1,382       | 719.72        |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 247000390   | Procurement Lead Time - Reactivation of EQ       | 15       | 07NOV11     | 29NOV11      | 1,382       | 0.00          |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 247000400   | Award - Reactivation of EQ                       | 1        | 30NOV11     | 30NOV11      | 1,382       | 0.00          |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 247000410   | Procurement/Fab/Assembly - Reactivation of EQ    | 10       | 01DEC11     | 14DEC11      | 1,382       | 33,660.00     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 247000670   | Installation Procedure - Reactivation of EQ      | 5        | 16FEB12     | 22FEB12      | 1,402       | 1,439.44      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 247000680   | Installation - Reactivation of EQ (Surge Room)   | 12       | 22MAR12     | 06APR12      | 1,382       | 29,519.68     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 247000820   | Commissioning - Reactivation of EQ (Switchyard)  | 10       | 06DEC12     | 19DEC12      | 1,382       | 52,880.00     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 247000830   | Commissioning - Reactivation of EQ (Surge Room)  | 10       | 20DEC12     | 10JAN13      | 1,382       | 31,100.00     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 247000840   | Commissioning - Reactivation of EQ (Mod-Reg)     | 10       | 11JAN13     | 24JAN13      | 1,382       | 34,730.00     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 247000850   | Commis-Reactivation of EQ (Arc/Filament/Magnet)  | 10       | 25JAN13     | 07FEB13      | 1,382       | 28,144.88     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 247000860   | Commissioning - Reactivation of EQ (LCC)         | 10       | 08FEB13     | 21FEB13      | 1,382       | 34,730.00     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 247000260   | Prep Procurement Spec - Penetrations             | 5        | 03NOV11     | 09NOV11      | 1,390       | 6,403.04      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |

| Activity ID | Activity Description                            | Orig Dur | Early Start | Early Finish | Total Float | Budgeted Cost | FY   |      |      |      |      |      |  |  |  |  |
|-------------|---|----------|-------------|--------------|-------------|---------------|------|------|------|------|------|------|--|--|--|--|
|             |   |          |             |              |             |               | FY10 | FY11 | FY12 | FY13 | FY14 | FY15 |  |  |  |  |
| 247000420   | Prep Req & Procurement Pckg - Penetrations      | 1        | 10NOV11     | 10NOV11      | 1,406       | 1,439.44      |      |      |      |      |      |      |  |  |  |  |
| 247000430   | Submit Req to Procurement - Penetrations        | 1        | 11NOV11     | 11NOV11      | 1,406       | 719.72        |      |      |      |      |      |      |  |  |  |  |
| 247000440   | Procurement Lead Time - Penetrations            | 15       | 14NOV11     | 06DEC11      | 1,406       | 0.00          |      |      |      |      |      |      |  |  |  |  |
| 247000450   | Award - Penetrations                            | 1        | 07DEC11     | 07DEC11      | 1,406       | 0.00          |      |      |      |      |      |      |  |  |  |  |
| 247000460   | Procurement/Fab/Assembly - Penetrations         | 10       | 08DEC11     | 21DEC11      | 1,406       | 6,600.00      |      |      |      |      |      |      |  |  |  |  |
| 247000690   | Installation Procedure - Penetrations           | 5        | 23FEB12     | 29FEB12      | 1,409       | 1,439.44      |      |      |      |      |      |      |  |  |  |  |
| 247000700   | Installation - Penetrations                     | 8        | 09APR12     | 18APR12      | 1,382       | 31,914.00     |      |      |      |      |      |      |  |  |  |  |
| 247000270   | Prep Spec - Removal of Cable                    | 15       | 10NOV11     | 02DEC11      | 1,390       | 22,088.00     |      |      |      |      |      |      |  |  |  |  |
| 247000710   | Removal - Cable                                 | 8        | 19APR12     | 30APR12      | 1,382       | 18,324.24     |      |      |      |      |      |      |  |  |  |  |
| 247000780   | Commissioning - Removal of Cable                | 5        | 22FEB13     | 28FEB13      | 1,382       | 9,147.44      |      |      |      |      |      |      |  |  |  |  |
| 247000275   | Prep Procurement Spec - Cables                  | 30       | 20OCT11     | 02DEC11      | 1,390       | 154,616.00    |      |      |      |      |      |      |  |  |  |  |
| 247000470   | Prep Req & Procurement Pckg - Cables            | 1        | 15DEC11     | 15DEC11      | 1,382       | 1,439.44      |      |      |      |      |      |      |  |  |  |  |
| 247000480   | Submit Req to Procurement - Cables              | 1        | 16DEC11     | 16DEC11      | 1,383       | 719.72        |      |      |      |      |      |      |  |  |  |  |
| 247000490   | Procurement Lead Time - Cables                  | 15       | 19DEC11     | 16JAN12      | 1,383       | 0.00          |      |      |      |      |      |      |  |  |  |  |
| 247000500   | Award - Cables                                  | 1        | 17JAN12     | 17JAN12      | 1,383       | 0.00          |      |      |      |      |      |      |  |  |  |  |
| 247000510   | Procurement/Fab/Assembly - Cables               | 10       | 18JAN12     | 31JAN12      | 1,383       | 557,304.00    |      |      |      |      |      |      |  |  |  |  |
| 247000720   | Installation Procedure - Cable                  | 5        | 01MAR12     | 07MAR12      | 1,420       | 1,439.44      |      |      |      |      |      |      |  |  |  |  |
| 247000730   | Installation - Cable                            | 70       | 01MAY12     | 08AUG12      | 1,382       | 248,165.76    |      |      |      |      |      |      |  |  |  |  |
| 247000790   | Commissioning - Cable                           | 65       | 01MAR13     | 30MAY13      | 1,382       | 129,951.60    |      |      |      |      |      |      |  |  |  |  |
| 247000280   | Prep Procurement Spec - Raceway                 | 15       | 10NOV11     | 02DEC11      | 1,391       | 22,088.00     |      |      |      |      |      |      |  |  |  |  |
| 247000520   | Prep Req & Procurement Pckg - Raceway           | 1        | 16DEC11     | 16DEC11      | 1,382       | 1,439.44      |      |      |      |      |      |      |  |  |  |  |
| 247000530   | Submit Req to Procurement - Raceway             | 1        | 19DEC11     | 19DEC11      | 1,382       | 719.72        |      |      |      |      |      |      |  |  |  |  |
| 247000540   | Procurement Lead Time - Raceway                 | 15       | 20DEC11     | 17JAN12      | 1,382       | 0.00          |      |      |      |      |      |      |  |  |  |  |
| 247000550   | Award - Raceway                                 | 1        | 18JAN12     | 18JAN12      | 1,382       | 0.00          |      |      |      |      |      |      |  |  |  |  |
| 247000560   | Procurement/Fab/Assembly - Raceway              | 10       | 19JAN12     | 01FEB12      | 1,382       | 39,600.00     |      |      |      |      |      |      |  |  |  |  |
| 247000740   | Installation Procedure - Raceway                | 5        | 08MAR12     | 14MAR12      | 1,485       | 1,439.44      |      |      |      |      |      |      |  |  |  |  |
| 247000750   | Installation - Raceway                          | 40       | 09AUG12     | 04OCT12      | 1,382       | 716,534.72    |      |      |      |      |      |      |  |  |  |  |
| 247000795   | Commissioning - Raceway                         | 5        | 31MAY13     | 06JUN13      | 1,382       | 9,147.44      |      |      |      |      |      |      |  |  |  |  |
| 247000285   | Prep Procurement Spec - Transmission Line       | 15       | 05DEC11     | 23DEC11      | 1,720       | 19,209.12     |      |      |      |      |      |      |  |  |  |  |
| 247000570   | Prep Req & Procurement Pckg - Transmission Line | 1        | 03JAN12     | 03JAN12      | 1,720       | 1,439.44      |      |      |      |      |      |      |  |  |  |  |
| 247000580   | Submit Req to Procurement - Transmission Line   | 1        | 04JAN12     | 04JAN12      | 1,720       | 719.72        |      |      |      |      |      |      |  |  |  |  |
| 247000590   | Procurement Lead Time - Transmission Line       | 15       | 05JAN12     | 25JAN12      | 1,720       | 0.00          |      |      |      |      |      |      |  |  |  |  |
| 247000600   | Award - Transmission Line                       | 1        | 26JAN12     | 26JAN12      | 1,720       | 0.00          |      |      |      |      |      |      |  |  |  |  |
| 247000610   | Procurement/Fab/Assembly - Transmission Line    | 10       | 27JAN12     | 09FEB12      | 1,720       | 11,880.00     |      |      |      |      |      |      |  |  |  |  |
| 247000760   | Installation Procedure - Transmission Line      | 5        | 15MAR12     | 21MAR12      | 1,520       | 1,439.44      |      |      |      |      |      |      |  |  |  |  |
| 247000770   | Installation - Transmission Line                | 40       | 05OCT12     | 03DEC12      | 1,382       | 87,600.08     |      |      |      |      |      |      |  |  |  |  |
| 247000799   | Commissioning - Transmission Line               | 4        | 07JUN13     | 12JUN13      | 1,382       | 8,421.44      |      |      |      |      |      |      |  |  |  |  |
| 247000890   | New Procedures, PTP's, ISTEP's - System Testing | 44       | 15MAR12*    | 15MAY12      | 1,652       | 17,124.40     |      |      |      |      |      |      |  |  |  |  |
| 247000900   | DC Hipots Engineering- System Testing           | 14       | 16APR12*    | 03MAY12      | 1,652       | 7,197.20      |      |      |      |      |      |      |  |  |  |  |
| 247000910   | DC Hipots Commissioning - System Testing        | 8        | 04MAY12     | 15MAY12      | 1,652       | 9,984.88      |      |      |      |      |      |      |  |  |  |  |
| 247000920   | Elect Interlock Testing Eng Spec - Sys Testing  | 14       | 16APR12*    | 03MAY12      | 1,652       | 1,439.44      |      |      |      |      |      |      |  |  |  |  |

| Activity ID                         | Activity Description                             | Orig Dur | Early Start | Early Finish | Total Float | Budgeted Cost | FY   |      |      |      |      |      |  |  |  |
|-------------------------------------|--|----------|-------------|--------------|-------------|---------------|------|------|------|------|------|------|--|--|--|
|                                     |  |          |             |              |             |               | FY10 | FY11 | FY12 | FY13 | FY14 | FY15 |  |  |  |
| 24700930                            | Elect Interlock Testg Commissioning - SysTesting | 8        | 04MAY12     | 15MAY12      | 1,652       | 9,984.88      |      |      |      |      |      |      |  |  |  |
| FY092470                            | FY09 Actual Cost                                 | 22*      | 01JAN09A    | 30SEP09A     |             | 115,170.00    |      |      |      |      |      |      |  |  |  |
| Subtotal                            |  | 1,116    | 01JAN09A    | 12JUN13      | 1,382       | 2,829,292.88  |      |      |      |      |      |      |  |  |  |
| <b>Job: 2475 - 2nd NBI Controls</b> |  |          |             |              |             |               |      |      |      |      |      |      |  |  |  |
| <b>Design</b>                       |  |          |             |              |             |               |      |      |      |      |      |      |  |  |  |
| 247500100                           | Control System Layout                            | 47       | 03NOV09*    | 19JAN10      | 1,563       | 45,235.28     |      |      |      |      |      |      |  |  |  |
| 247500110                           | Update Cost & Schedule Estimate                  | 5        | 20JAN10     | 26JAN10      | 2,230       | 5,957.60      |      |      |      |      |      |      |  |  |  |
| 247500120                           | Fema Analysis                                    | 5        | 20JAN10     | 26JAN10      | 2,230       | 5,957.60      |      |      |      |      |      |      |  |  |  |
| 247500130                           | Design Drawings - Prelim Dsgn                    | 88       | 20JAN10     | 21MAY10      | 1,563       | 134,787.20    |      |      |      |      |      |      |  |  |  |
| 247500140                           | PDR Prep PPL                                     | 2        | 24MAY10     | 25MAY10      | 1,563       | 2,383.04      |      |      |      |      |      |      |  |  |  |
| 247500150                           | PDR Prep PU                                      | 2        | 26MAY10     | 27MAY10      | 1,563       | 2,383.04      |      |      |      |      |      |      |  |  |  |
| 247500160                           | PDR Prep DOE                                     | 2        | 28MAY10     | 01JUN10      | 1,563       | 2,383.04      |      |      |      |      |      |      |  |  |  |
| 247500170                           | CONDUCT PDR                                      | 1        | 02JUN10     | 02JUN10      | 1,563       | 1,191.52      |      |      |      |      |      |      |  |  |  |
| 247500180                           | Disposition PDR Chits                            | 2        | 03JUN10     | 04JUN10      | 1,688       | 2,383.04      |      |      |      |      |      |      |  |  |  |
| 247500190                           | Design Drawings                                  | 75       | 07JUN10     | 21SEP10*     | 1,688       | 23,830.40     |      |      |      |      |      |      |  |  |  |
| 247500200                           | PLC & RSView Programing                          | 75       | 03JUN10     | 17SEP10      | 1,563       | 47,660.80     |      |      |      |      |      |      |  |  |  |
| 247500210                           | TC Scanner Programing                            | 115      | 20SEP10     | 09MAR11      | 1,950       | 22,989.93     |      |      |      |      |      |      |  |  |  |
| 247500220                           | LCC Remote LabView Programing                    | 115      | 20SEP10     | 09MAR11      | 1,563       | 42,322.34     |      |      |      |      |      |      |  |  |  |
| 247500230                           | Update Cost & Schedule Estimate                  | 5        | 10MAR11     | 16MAR11      | 1,563       | 6,107.60      |      |      |      |      |      |      |  |  |  |
| 247500240                           | FDR Prep PPL                                     | 2        | 17MAR11     | 18MAR11      | 1,563       | 2,443.04      |      |      |      |      |      |      |  |  |  |
| 247500250                           | FDR Prep PU                                      | 2        | 21MAR11     | 22MAR11      | 1,563       | 2,443.04      |      |      |      |      |      |      |  |  |  |
| 247500260                           | FDR Prep DOE                                     | 2        | 23MAR11     | 24MAR11      | 1,563       | 2,443.04      |      |      |      |      |      |      |  |  |  |
| 247500270                           | CONDUCT FDR                                      | 1        | 25MAR11     | 25MAR11      | 1,563       | 1,221.52      |      |      |      |      |      |      |  |  |  |
| <b>Procure, Fab &amp; Assembly</b>  |  |          |             |              |             |               |      |      |      |      |      |      |  |  |  |
| 247500280                           | Prep Requisition and procurement package         | 5        | 01SEP11*    | 08SEP11      | 1,452       | 6,107.60      |      |      |      |      |      |      |  |  |  |
| 247500290                           | Submit Requisition to Procurement                | 1        | 09SEP11     | 09SEP11*     | 1,452       | 1,221.52      |      |      |      |      |      |      |  |  |  |
| 247500300                           | Procurement lead time (1)                        | 25       | 12SEP11     | 14OCT11      | 1,452       | 0.00          |      |      |      |      |      |      |  |  |  |
| 247500310                           | AWARD  | 1        | 17OCT11     | 17OCT11      | 1,452       | 0.00          |      |      |      |      |      |      |  |  |  |
| 247500320                           | Fabricate or delivery                            | 130      | 18OCT11     | 26APR12      | 1,452       | 411,840.00    |      |      |      |      |      |      |  |  |  |
| 247500330                           | Fab/Assy Procedure                               | 5        | 27APR12     | 03MAY12      | 1,452       | 6,260.00      |      |      |      |      |      |      |  |  |  |
| 247500340                           | Shop Fabrication - Cable Tray                    | 40       | 04MAY12     | 29JUN12      | 1,452       | 61,612.80     |      |      |      |      |      |      |  |  |  |
| 247500350                           | Gradient Grid Divider                            | 20       | 04MAY12     | 01JUN12      | 1,462       | 60,421.60     |      |      |      |      |      |      |  |  |  |
| 247500370                           | Penetrations                                     | 5        | 04JUN12     | 08JUN12      | 1,462       | 61,753.60     |      |      |      |      |      |      |  |  |  |
| 247500380                           | Control Rack Cage                                | 5        | 11JUN12     | 15JUN12      | 1,462       | 28,753.60     |      |      |      |      |      |      |  |  |  |
| 247500390                           | Installation Procedures                          | 5        | 04MAY12     | 10MAY12      | 1,487       | 11,443.60     |      |      |      |      |      |      |  |  |  |
| 247500400                           | Beam Line Cabling                                | 80       | 02JUL12     | 23OCT12      | 1,452       | 271,936.71    |      |      |      |      |      |      |  |  |  |
| 247500410                           | Rack relocation                                  | 25       | 24OCT12     | 29NOV12      | 1,452       | 67,668.40     |      |      |      |      |      |      |  |  |  |
| 247500420                           | Aux Cabling                                      | 20       | 24OCT12     | 20NOV12      | 1,457       | 42,716.40     |      |      |      |      |      |      |  |  |  |
| 247500430                           | TC Scanner                                       | 20       | 30NOV12     | 04JAN13      | 1,452       | 42,716.40     |      |      |      |      |      |      |  |  |  |
| 247500440                           | NBOS Station                                     | 10       | 21NOV12     | 06DEC12      | 1,510       | 27,352.80     |      |      |      |      |      |      |  |  |  |
| 247500450                           | LCC Remote                                       | 40       | 24OCT12     | 20DEC12      | 1,500       | 145,898.00    |      |      |      |      |      |      |  |  |  |

| Activity ID                                   | Activity Description                             | Orig Dur | Early Start | Early Finish | Total Float | Budgeted Cost | FY10 |  |  |  |  |  |  |  | FY11 |  |  |  |  |  |  |  | FY12 |  |  |  |  |  |  |  | FY13 |  |  |  |  |  |  |  | FY14 |  |  |  |  |  |  |  | FY15 |  |  |  |  |  |  |  |
|---|--|----------|-------------|--------------|-------------|---------------|------|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|
|   |  |          |             |              |             |               |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |
| 247500460                                     | Power Supply Upgrade                             | 23       | 07JAN13     | 06FEB13      | 1,452       | 57,596.24     |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |
| 247500470                                     | Protective Plate TC's                            | 10       | 07FEB13     | 20FEB13      | 1,452       | 11,109.84     |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |
| 247500480                                     | PTP Testing                                      | 10       | 21FEB13     | 06MAR13      | 1,452       | 20,092.80     |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |
| Subtotal                                      |  | 830      | 03NOV09     | 06MAR13      | 1,452       | 1,690,624.98  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |
| <b>Job: 2480 - 2nd NBI/TVPS Duct &amp; VV</b> |  |          |             |              |             |               |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |
| <b>Design</b>                                 |  |          |             |              |             |               |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |
| 24800010                                      | CD for NSTX VV in Bay J-K area                   | 10       | 01OCT09*    | 14OCT09      | 229         | 5,636.60      |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |
| 24800020                                      | CD of Port K Extension                           | 3        | 01OCT09*    | 05OCT09      | 236         | 2,747.96      |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |
| 24800030                                      | CD Ceramic Break Flanges                         | 10       | 01OCT09*    | 14OCT09      | 229         | 5,636.60      |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |
| 24800040                                      | CD Spool Piece                                   | 3        | 01OCT09*    | 05OCT09      | 236         | 3,241.28      |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |
| 24800050                                      | C&S Development                                  | 10       | 01OCT09     | 14OCT09      | 229         | 6,340.00      |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |
| 24800060                                      | C&S Review                                       | 1        | 15OCT09     | 15OCT09      | 229         | 634.00        |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |
| 24800070                                      | NSTX J-K Mockup purchase                         | 15       | 01OCT09*    | 21OCT09      | 225         | 4,920.00      |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |
| 24800080                                      | Prep for PPPL/Ext CDR                            | 5        | 22OCT09     | 28OCT09      | 225         | 5,636.60      |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |
| 24800090                                      | PPPL CDR   | 1        | 29OCT09     | 29OCT09      | 225         | 0.00          |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |
| 24800095                                      | Prep for PU CDR                                  | 5        | 30OCT09     | 05NOV09      | 225         | 11,273.20     |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |
| 24800100                                      | Prep for DOE CDR                                 | 8        | 06NOV09     | 17NOV09      | 225         | 4,509.28      |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |
| 24800110                                      | CDR Chit Resolution - Preliminary Design         | 30       | 18NOV09*    | 11JAN10      | 225         | 26,152.08     |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |
| 24800120                                      | Thermal Analysis                                 | 2        | 12JAN10     | 13JAN10      | 329         | 2,964.96      |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |
| 24800130                                      | Seismic Analysis                                 | 1        | 12JAN10     | 12JAN10      | 330         | 0.00          |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |
| 24800140                                      | FMEA Analysis - Preliminary Design               | 2        | 12JAN10     | 13JAN10      | 329         | 2,536.00      |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |
| 24800150                                      | Prepare NEPA Form - Preliminary Design           | 1        | 12JAN10     | 12JAN10      | 330         | 317.00        |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |
| 24800160                                      | NSTX VV Modification Prototype                   | 15       | 12JAN10     | 01FEB10      | 225         | 16,868.10     |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |
| 24800170                                      | J-K RWM Coil Redesign                            | 30       | 02FEB10     | 15MAR10      | 643         | 26,956.00     |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |
| 24800180                                      | Update Cost & Sched Estimate - Prelim Dsgn       | 3        | 02FEB10     | 04FEB10      | 313         | 2,536.00      |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |
| 24800190                                      | Design Drawings - Preliminary Design             | 50       | 02FEB10     | 12APR10      | 225         | 20,436.20     |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |
| 24800200                                      | PDR Prep - Duct & VV Mods                        | 40       | 13APR10     | 08JUN10      | 225         | 7,573.30      |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |
| 24800210                                      | CONDUCT PDR - Duct & VV Mods                     | 1        | 09JUN10     | 09JUN10      | 225         | 1,268.00      |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |
| 24800215                                      | Preliminary Design Revw Complete -Duct & VV Mods | 0        |             | 09JUN10*     | 225         | 0.00          |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |
| 24800220                                      | Disposition PDR Chits - Final Design             | 20       | 10JUN10*    | 08JUL10      | 225         | 11,483.28     |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |
| 24800230                                      | Design Drawings - Final Design                   | 175      | 09JUL10     | 23MAR11      | 229         | 18,913.50     |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |
| 24800235                                      | Update Analysis - Final Design                   | 175      | 09JUL10     | 23MAR11      | 229         | 3,028.99      |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |
| 24800240                                      | Update Cost & Sched Estimate - Final Dsgn        | 3        | 09JUL10     | 13JUL10      | 225         | 3,170.00      |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |
| 24800250                                      | Prep Procurement Specs - Final Design            | 175      | 14JUL10     | 28MAR11      | 226         | 9,672.38      |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |
| 24800260                                      | FDR Prep-Duct & VV Mods                          | 175      | 14JUL10     | 28MAR11      | 225         | 7,963.40      |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |
| 24800270                                      | CONDUCT FDR-Duct & VV Mods                       | 1        | 29MAR11     | 29MAR11      | 225         | 1,299.84      |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |
| 24800280                                      | Final Design Review Complete-Duct & VV Mods      | 0        |             | 29MAR11*     | 225         | 0.00          |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |
| <b>Procure, Fab &amp; Assembly</b>            |  |          |             |              |             |               |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |
| 24800300                                      | Prep Req & Procuremnt Pckg - 40" VAT Valves (2)  | 2        | 03OCT11*    | 04OCT11      | 95          | 1,332.40      |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |
| 24800310                                      | Submit Req to Procurement - 40" VAT Valves (2)   | 1        | 05OCT11     | 05OCT11      | 204         | 666.20        |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |
| 24800320                                      | Procurement Lead Times - 40" VAT Valves (2)      | 25       | 06OCT11     | 09NOV11      | 204         | 0.00          |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |
| 24800330                                      | Award -- 40" VAT Valves (2)                      | 1        | 10NOV11     | 10NOV11      | 204         | 0.00          |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |

| Activity ID                              | Activity Description                              | Orig Dur | Early Start | Early Finish | Total Float | Budgeted Cost | FY10 |  |  |  |  |  |  |  |  |  |  |  | FY11 |  |  |  |  |  |  |  |  |  |  |  | FY12                       |  |  |  |  |  |  |  |  |  |  |  | FY13 |  |  |  |  |  |  |  |  |  |  |  | FY14 |  |  |  |  |  |  |  |  |  |  |  | FY15         |  |  |  |  |  |  |  |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |
|--|---|----------|-------------|--------------|-------------|---------------|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|----------------------------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|--------------|--|--|--|--|--|--|--|--|--|--|--|------------------------------|--|--|--|--|--|--|--|--|--|--|--|
|  |   |          |             |              |             |               |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |
| 24800340                                 | Fabricate / Delivery - 40" VAT Valves (2)         | 120      | 11NOV11     | 08MAY12      | 204         | 330,000.00    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  | 41=250,000 ;               |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |
| 24800350                                 | Prep Req & Procurement Pckg-40" Bellows Section   | 2        | 05OCT11     | 06OCT11      | 95          | 1,332.40      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  | EM//EM =08 ;               |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |
| 24800355                                 | Submit Req to Procurement - 40" Bellows Section   | 1        | 07OCT11     | 07OCT11      | 202         | 666.20        |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  | EM//EM =04 ;               |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |
| 24800360                                 | Procurement Lead Time - 40" Bellows Section       | 25       | 10OCT11     | 11NOV11      | 202         | 0.00          |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |
| 24800370                                 | Award - 40" Bellows Section                       | 1        | 14NOV11     | 14NOV11      | 202         | 0.00          |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |
| 24800380                                 | Fabricate / Delivery - 40" Bellows Section        | 120      | 15NOV11     | 10MAY12      | 202         | 396,000.00    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  | 41=300,000 ;               |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |
| 24800381                                 | Prep Req & Proc Pckg-Rectangular Bellows Section  | 2        | 07OCT11     | 10OCT11      | 140         | 1,332.40      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  | EM//EM =08 ;               |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |
| 24800382                                 | Submit Req to Proc-Rectangular Bellows Section    | 1        | 11OCT11     | 11OCT11      | 140         | 666.20        |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  | EM//EM =04 ;               |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |
| 24800383                                 | Procurement Lead Time-Rectangular Bellows Sectn   | 25       | 12OCT11     | 15NOV11      | 140         | 0.00          |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |
| 24800384                                 | Award-Rectangular Bellows Section                 | 1        | 16NOV11     | 16NOV11      | 140         | 0.00          |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |
| 24800385                                 | Fabricate / Delivery-Rectangular Bellows Section  | 180      | 17NOV11     | 08AUG12      | 140         | 528,000.00    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  | 41=400,000 ;               |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |
| 24800400                                 | Prep Req & Procurement Pckg - Spool Piece         | 2        | 07OCT11     | 10OCT11      | 95          | 1,332.40      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  | EM//EM =08 ;               |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |
| 24800410                                 | Submit Req to Procurement - Spool Piece           | 1        | 11OCT11     | 11OCT11      | 200         | 666.20        |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  | EM//EM =04 ;               |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |
| 24800420                                 | Procurement Lead Times - Spool Piece              | 25       | 12OCT11     | 15NOV11      | 200         | 0.00          |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |
| 24800430                                 | Award - Spool Piece                               | 1        | 16NOV11     | 16NOV11      | 200         | 0.00          |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |
| 24800440                                 | Fabricate / Delivery - Spool Piece                | 120      | 17NOV11     | 14MAY12      | 200         | 52,800.00     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  | 41=40,000 ;                |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |
| 24800450                                 | Prep Requisition & Procurement Pckg - Vessel Cap  | 5        | 11OCT11     | 17OCT11      | 95          | 6,662.00      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  | EM//EM =40 ;               |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |
| 24800455                                 | Submit Requisition to Procurement -Vessel Cap     | 1        | 18OCT11     | 18OCT11      | 95          | 0.00          |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |
| 24800460                                 | Procurement Lead Time - Vessel Cap                | 25       | 19OCT11     | 22NOV11      | 95          | 0.00          |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |
| 24800470                                 | Award - Vessel Cap                                | 1        | 23NOV11     | 23NOV11      | 95          | 0.00          |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |
| 24800480                                 | Fabricate / Delivery - Vessel Cap                 | 200      | 28NOV11     | 13SEP12      | 95          | 215,787.00    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  | 41=60,000 ; EM/SB =1,100 ; |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |
| 24800490                                 | Fabricate / Delivery - RWM Coil                   | 100      | 05OCT11     | 02MAR12      | 251         | 224,400.00    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  | 41=170,000 ;               |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |
| 24800500                                 | Prep Req & Procurement Pckg-Other Material f/Duct | 1        | 18OCT11     | 18OCT11      | 294         | 1,332.40      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  | EM//EM =08 ;               |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |
| 24800505                                 | Submit Req to Procurement -Other Material f/Duct  | 1        | 19OCT11     | 19OCT11      | 294         | 666.20        |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  | EM//EM =04 ;               |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |
| 24800510                                 | Procurement Lead Time - Other Material for Duct   | 15       | 20OCT11     | 09NOV11      | 294         | 0.00          |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |
| 24800520                                 | Award - Other Material for Duct                   | 1        | 10NOV11     | 10NOV11      | 294         | 0.00          |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |
| 24800530                                 | Fabricate / Delivery-Other Mtrl f/Duct            | 30       | 11NOV11     | 03JAN12      | 294         | 79,200.00     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  | 41=60,000 ;                |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |
| 24800550                                 | Procurement / Fabrication / Assembly Complete     | 0        |             | 13SEP12*     | 115         | 0.00          |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |
| 24800600                                 | Duct & Armor Instaltn January to June' 2012       | 0        | 14SEP12*    |              | 115         | 0.00          |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |
| 24800610                                 | Installation Procedure - Duct & VV Mods           | 20       | 14SEP12     | 11OCT12      | 95          | 15,157.98     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  | EM//EM =90 ; |  |  |  |  |  |  |  |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |
| <b>Installation</b>                      |   |          |             |              |             |               |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |
| 24800620                                 | Machine Installation - Duct & VV Mods             | 90       | 12OCT12*    | 26FEB13      | 95          | 199,212.40    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  | EM//EM =40 ; EM//SM =1,200 ; |  |  |  |  |  |  |  |  |  |  |  |
| 24800630                                 | PTP Testing - Duct & VV Mods                      | 4        | 27FEB13     | 04MAR13      | 95          | 2,565.12      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  | EM//SM =16 ;                 |  |  |  |  |  |  |  |  |  |  |  |
| FY092480                                 | FY09 Actual Cost                                  | 22*      | 01JAN09A    | 30SEP09A     |             | 183,352.00    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |
| Subtotal                                 |   | 1,044    | 01JAN09A    | 04MAR13      | 95          | 2,456,844.05  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |
| <b>Job: 2485 - Vacuum Pumping System</b> |   |          |             |              |             |               |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |
| <b>Design</b>                            |   |          |             |              |             |               |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |
| 24850010                                 | CD of System Layout                               | 5        | 05OCT09*    | 09OCT09      | 2,268       | 5,345.60      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  | EM//EM =20 ; EA//DM =20 ;  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |
| 24850020                                 | CD of Pump Duct(s)                                | 5        | 12OCT09     | 16OCT09      | 2,268       | 2,573.36      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  | EM//EM =08 ; EA//DM =12 ;  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |
| 24850030                                 | CD of Magnetic Shield                             | 10       | 19OCT09     | 30OCT09      | 2,268       | 5,345.60      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  | EM//EM =20 ; EA//DM =20 ;  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |
| 24850040                                 | C&S Review  | 1        | 02NOV09     | 02NOV09      | 2,268       | 634.00        |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  | EM//EM =04 ;               |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |
| 24850050                                 | Prep for PPPL/Ext CDR                             | 5        | 03NOV09     | 09NOV09      | 2,268       | 5,345.60      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  | EM//EM =20 ; EA//DM =20 ;  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |

| Activity ID                              | Activity Description                             | Orig Dur | Early Start | Early Finish | Total Float | Budgeted Cost | FY   |      |      |      |      |      |  |  |  |
|--|--|----------|-------------|--------------|-------------|---------------|------|------|------|------|------|------|--|--|--|
|  |  |          |             |              |             |               | FY10 | FY11 | FY12 | FY13 | FY14 | FY15 |  |  |  |
| 24850060                                 | PPPL CDR   | 1        | 10NOV09     | 10NOV09      | 2,268       | 0.00          |      |      |      |      |      |      |  |  |  |
| 24850070                                 | Prep for PU CDR                                  | 5        | 11NOV09*    | 17NOV09      | 2,268       | 10,691.20     |      |      |      |      |      |      |  |  |  |
| 24850080                                 | Prep for DOE CDR                                 | 8        | 11NOV09     | 20NOV09      | 2,268       | 4,276.48      |      |      |      |      |      |      |  |  |  |
| 24850090                                 | CDR Chit Resolution (all areas)                  | 20       | 03NOV09*    | 02DEC09      | 388         | 8,515.60      |      |      |      |      |      |      |  |  |  |
| 24850100                                 | FMEA Analysis                                    | 2        | 03DEC09     | 04DEC09      | 496         | 2,536.00      |      |      |      |      |      |      |  |  |  |
| 24850110                                 | Prepare NEPA Form                                | 1        | 03DEC09     | 03DEC09      | 497         | 317.00        |      |      |      |      |      |      |  |  |  |
| 24850120                                 | Update Cost & Schedule Estimate                  | 3        | 03DEC09     | 07DEC09      | 495         | 2,536.00      |      |      |      |      |      |      |  |  |  |
| 24850130                                 | Design Drawings                                  | 110      | 03DEC09     | 14MAY10      | 388         | 5,936.20      |      |      |      |      |      |      |  |  |  |
| 24850140                                 | PDR Prep   | 10       | 17MAY10     | 28MAY10      | 388         | 3,605.12      |      |      |      |      |      |      |  |  |  |
| 24850150                                 | CONDUCT PDR                                      | 1        | 01JUN10     | 01JUN10      | 388         | 1,268.00      |      |      |      |      |      |      |  |  |  |
| 24850160                                 | Disposition PDR Chits                            | 20       | 02JUN10*    | 29JUN10      | 388         | 14,420.48     |      |      |      |      |      |      |  |  |  |
| 24850170                                 | Design Drawings                                  | 175      | 30JUN10     | 15MAR11      | 388         | 6,996.12      |      |      |      |      |      |      |  |  |  |
| 24850180                                 | Update Cost & Schedule Estimate                  | 3        | 16MAR11     | 18MAR11      | 388         | 2,599.68      |      |      |      |      |      |      |  |  |  |
| 24850190                                 | Prep Procurement Specs                           | 5        | 21MAR11     | 25MAR11      | 1,938       | 3,249.60      |      |      |      |      |      |      |  |  |  |
| 24850200                                 | FDR Prep   | 6        | 21MAR11     | 28MAR11      | 388         | 5,543.52      |      |      |      |      |      |      |  |  |  |
| 24850210                                 | CONDUCT FDR                                      | 1        | 29MAR11     | 29MAR11      | 388         | 1,299.84      |      |      |      |      |      |      |  |  |  |
| <b>Procure, Fab &amp; Assembly</b>       |  |          |             |              |             |               |      |      |      |      |      |      |  |  |  |
| 24850220                                 | Prep Req & proc pkg - 3200i/s TMPx2              | 2        | 03OCT11*    | 04OCT11      | 258         | 1,332.40      |      |      |      |      |      |      |  |  |  |
| 24850230                                 | SUBMIT REQ TO PROC - 3200i/s TMPx2               | 1        | 05OCT11     | 05OCT11      | 258         | 666.20        |      |      |      |      |      |      |  |  |  |
| 24850240                                 | Procurement lead time (1) - 3200i/s TMPx2        | 25       | 06OCT11     | 09NOV11      | 258         | 0.00          |      |      |      |      |      |      |  |  |  |
| 24850250                                 | AWARD - 3200i/s TMPx2                            | 1        | 10NOV11     | 10NOV11      | 258         | 0.00          |      |      |      |      |      |      |  |  |  |
| 24850260                                 | Fabricate or delivery - 3200i/s TMPx2            | 60       | 11NOV11     | 14FEB12      | 258         | 84,480.00     |      |      |      |      |      |      |  |  |  |
| 24850270                                 | Prep Req & proc pkg - New VAT Valves             | 2        | 05OCT11     | 06OCT11      | 266         | 1,332.40      |      |      |      |      |      |      |  |  |  |
| 24850280                                 | SUBMIT REQ TO PROC- New VAT Valves               | 1        | 07OCT11     | 07OCT11      | 266         | 666.20        |      |      |      |      |      |      |  |  |  |
| 24850290                                 | Procurement lead time (1)- New VAT Valves        | 15       | 10OCT11     | 28OCT11      | 266         | 0.00          |      |      |      |      |      |      |  |  |  |
| 24850300                                 | AWARD- New VAT Valves                            | 1        | 31OCT11     | 31OCT11      | 266         | 0.00          |      |      |      |      |      |      |  |  |  |
| 24850310                                 | Fabricate or delivery - 3200i/s TMPx2            | 60       | 01NOV11     | 02FEB12      | 266         | 26,400.00     |      |      |      |      |      |      |  |  |  |
| 24850320                                 | Prep Req & proc pkg - Misc Mtrl/Comp for Ducts   | 2        | 07OCT11     | 10OCT11      | 294         | 1,332.40      |      |      |      |      |      |      |  |  |  |
| 24850330                                 | SUBMIT REQ TO PROC - Misc Mtrl/Comp for Ducts    | 1        | 11OCT11     | 11OCT11      | 294         | 666.20        |      |      |      |      |      |      |  |  |  |
| 24850340                                 | Procurement lead time (1) - Mtrl/Comp for Duct   | 15       | 12OCT11     | 01NOV11      | 294         | 0.00          |      |      |      |      |      |      |  |  |  |
| 24850350                                 | AWARD - Misc Mtrl/Comp for Ducts                 | 1        | 02NOV11     | 02NOV11      | 294         | 0.00          |      |      |      |      |      |      |  |  |  |
| 24850360                                 | Fabricate or delivery - Misc Mtrl/Comp for Ducts | 30       | 03NOV11     | 16DEC11      | 294         | 26,400.00     |      |      |      |      |      |      |  |  |  |
| 24850370                                 | Installation Procedure                           | 10       | 05OCT11     | 18OCT11      | 335         | 9,993.00      |      |      |      |      |      |      |  |  |  |
| <b>Installation</b>                      |  |          |             |              |             |               |      |      |      |      |      |      |  |  |  |
| 24850380                                 | Machine Installation                             | 90       | 01OCT12*    | 13FEB13      | 98          | 60,745.60     |      |      |      |      |      |      |  |  |  |
| 24850390                                 | PTP Testing                                      | 10       | 14FEB13     | 27FEB13      | 98          | 6,412.80      |      |      |      |      |      |      |  |  |  |
| Subtotal                                 |  | 846      | 05OCT09     | 27FEB13      | 1,457       | 313,462.20    |      |      |      |      |      |      |  |  |  |
| <b>Job: 2490 - NTC Equip Relocations</b> |  |          |             |              |             |               |      |      |      |      |      |      |  |  |  |
| <b>Removal Procedures</b>                |  |          |             |              |             |               |      |      |      |      |      |      |  |  |  |
| 24910010                                 | Prep procd rack 419 removal - UCLA Reflectometer | 3        | 01OCT10*    | 05OCT10      | 339         | 3,662.40      |      |      |      |      |      |      |  |  |  |
| 24910060                                 | Prep rmvl procd rack 431-435-VV T/C & magnetics  | 3        | 06OCT10     | 08OCT10      | 339         | 3,662.40      |      |      |      |      |      |      |  |  |  |
| 24910110                                 | Prep procd rack 436-439 removal-Firetp/High K    | 3        | 11OCT10     | 13OCT10      | 339         | 3,662.40      |      |      |      |      |      |      |  |  |  |



| Activity ID     | Activity Description                               | Orig Dur | Early Start | Early Finish | Total Float | Budgeted Cost | Fiscal Year |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------|--|----------|-------------|--------------|-------------|---------------|-------------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|
|                 |  |          |             |              |             |               | FY10        | FY11 | FY12 | FY13 | FY14 | FY15 |  |  |  |  |  |  |  |  |  |  |  |  |
| 24910160        | Prep procedure rack 440 removal-SPRED & VIPS       | 3        | 14OCT10     | 18OCT10      | 339         | 3,662.40      |             |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |
| 24910210        | Prep procedure rack 441-445 removal-VV ion gages   | 3        | 19OCT10     | 21OCT10      | 339         | 3,662.40      |             |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |
| 24910260        | Prep procedure rack 447-448 removal-Fiber Optics   | 3        | 22OCT10     | 26OCT10      | 339         | 3,662.40      |             |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |
| 24910310        | Prep procedure rack 449 removal - Glow Discharge   | 3        | 27OCT10     | 29OCT10      | 339         | 3,662.40      |             |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |
| 24910360        | Prep proced rack 456 removal-Xray Crystal Spectr   | 3        | 01NOV10     | 03NOV10      | 339         | 3,662.40      |             |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |
| 24910380        | Prp procd rack 488 remov-Dep monitr/fast xray/NPA  | 3        | 04NOV10     | 08NOV10      | 339         | 3,662.40      |             |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |
| 24910430        | Prep procedure rack 489 removal - NPA              | 3        | 09NOV10     | 11NOV10      | 339         | 3,662.40      |             |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |
| 24910450        | Prep procedure rack removal - PSI Camera           | 3        | 12NOV10     | 16NOV10      | 339         | 3,662.40      |             |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |
| 24910500        | Prp procd rack removal -Ultra Fast X-ray Camera    | 3        | 17NOV10     | 19NOV10      | 339         | 3,662.40      |             |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |
| 24910550        | Prep procd rack removal-Transmsn Grating Spectro   | 3        | 22NOV10     | 24NOV10      | 339         | 3,662.40      |             |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |
| 24910700        | Prp procd equip removal Bay J-Two gas injectors    | 1        | 29NOV10     | 29NOV10      | 339         | 1,299.84      |             |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |
| 24910750        | Prep procd equipment removal Bay J - Reflectometer | 1        | 30NOV10     | 30NOV10      | 339         | 1,299.84      |             |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |
| 24910800        | Prep procedur equipment removal Bay J - Bolometer  | 1        | 01DEC10     | 01DEC10      | 339         | 1,299.84      |             |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |
| 24910850        | Prep procedure equipment removal Bay J - RF Prove  | 1        | 02DEC10     | 02DEC10      | 339         | 1,299.84      |             |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |
| 24910900        | Prep procedure equipment removal Bay J - S-Flip    | 1        | 03DEC10     | 03DEC10      | 339         | 1,299.84      |             |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |
| 24910950        | Prep procedure equipment removal Bay J - SSNPA     | 1        | 06DEC10     | 06DEC10      | 339         | 1,299.84      |             |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |
| 24911000        | Prp procd equip removal Bay J-Re-entrant Window    | 1        | 07DEC10     | 07DEC10      | 339         | 1,299.84      |             |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |
| 24911050        | Prp procd equip removal Bay K-High K Scattering    | 5        | 08DEC10     | 14DEC10      | 339         | 6,499.20      |             |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |
| 24911070        | Prep procedure equipment removal Bay K - FireTips  | 5        | 15DEC10     | 21DEC10      | 339         | 6,499.20      |             |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |
| 24911090        | Prep procedu equipment removal Bay K - PSI Camera  | 3        | 22DEC10     | 03JAN11      | 339         | 3,899.52      |             |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |
| 24911110        | Prp procedure equipment removal Bay K - NPA        | 5        | 04JAN11     | 10JAN11      | 339         | 6,499.20      |             |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |
| 24911130        | Prp procd equip remov Bay K-Ultra Fast Xray Cam    | 1        | 11JAN11     | 11JAN11      | 339         | 1,299.84      |             |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |
| 24911150        | Prp procd equip removal Bay K-IR Window t/Camra    | 1        | 12JAN11     | 12JAN11      | 339         | 1,299.84      |             |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |
| 24911200        | Prp procd equip removal Bay K-Trans Grating Spec   | 1        | 13JAN11     | 13JAN11      | 339         | 1,299.84      |             |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |
| 24911250        | Prep procd EQ remval Bay L pmp duct-VV Ion Gages   | 2        | 14JAN11     | 17JAN11      | 339         | 2,599.68      |             |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |
| 24911300        | Prp procd EQ rem BayL pmp duct-X-ray Crystal Spe   | 1        | 18JAN11     | 18JAN11      | 339         | 1,299.84      |             |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |
| 24911320        | Prep procedu equip removal Bay L pump duct-SPRED   | 1        | 19JAN11     | 19JAN11      | 339         | 1,299.84      |             |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |
| 24911390        | Prep procedure equip removal Bay L pump duct-RGA   | 2        | 20JAN11     | 21JAN11      | 339         | 2,599.68      |             |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |
| 24911460        | Prep procedu equip removal Bay L pump duct-LOWEUS  | 1        | 24JAN11     | 24JAN11      | 339         | 1,299.84      |             |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |
| 24911630        | Prp procd EQ remov Bay L pmp duct-MPTS Beam Dump   | 1        | 25JAN11     | 25JAN11      | 339         | 1,299.84      |             |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |
| 24911642        | Prp procd EQ remov Bay L pmp duct-Pump Duct        | 4        | 26JAN11     | 31JAN11      | 339         | 1,299.84      |             |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |
| 24911750        | Prep procedur Power/Ground/Light @ Platform W NTC  | 5        | 01FEB11     | 07FEB11      | 339         | 6,278.00      |             |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |
| 24911820        | Prp procd EQ Remov Misc. - Gas Delivery System     | 1        | 08FEB11     | 08FEB11      | 339         | 1,299.84      |             |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |
| 24911840        | Prp procd EQ Remov Misc. - NW Sect 109' Platform   | 2        | 09FEB11     | 10FEB11      | 339         | 2,599.68      |             |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |
| 24911860        | Prp procd EQ Remov Misc. - Convenience Outlets     | 5        | 11FEB11     | 17FEB11      | 339         | 6,499.20      |             |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |
| 24911880        | Prp procd EQ Remov Misc. - Cat 3 & Cat 4 Bus       | 5        | 18FEB11     | 24FEB11      | 339         | 6,499.20      |             |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |
| 24911900        | Prp procd EQ Remv Misc-Lights/E-stops/Fire Alarm   | 6        | 25FEB11     | 04MAR11      | 339         | 7,799.04      |             |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |
| 24911920        | Prp procd EQ Rem Misc-Glow Disch Splice Box/Disc   | 2        | 07MAR11     | 08MAR11      | 339         | 2,599.68      |             |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Removals</b> |  |          |             |              |             |               |             |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |
| 24910019        | BEGIN DIAG REMOVALS                                | 0        |             | 01SEP11*     | 214         | 0.00          |             |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |
| 24910020        | Remove rack 419 - UCLA Reflectometer               | 4        | 02SEP11     | 08SEP11      | 242         | 7,361.32      |             |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |
| 24910070        | Remove rack 431-435 removal-VV T/C & magnetics     | 15       | 09SEP11     | 29SEP11      | 242         | 27,555.40     |             |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |

| Activity ID | Activity Description                             | Orig Dur | Early Start | Early Finish | Total Float | Budgeted Cost | Fiscal Year Allocation |      |      |      |                                       |      |  |  |  |  |  |  |
|-------------|--|----------|-------------|--------------|-------------|---------------|------------------------|------|------|------|---------------------------------------|------|--|--|--|--|--|--|
|             |  |          |             |              |             |               | FY10                   | FY11 | FY12 | FY13 | FY14                                  | FY15 |  |  |  |  |  |  |
| 24910120    | Remove rack 436-439 - Firetip, High K            | 15       | 30SEP11     | 20OCT11      | 242         | 28,196.15     |                        |      |      |      | EM//SM =32 ; EM//TB =240 ; 41=100 ;   |      |  |  |  |  |  |  |
| 24910170    | Remove rack 440 - SPRED and VIPS                 | 8        | 21OCT11     | 01NOV11      | 242         | 13,031.72     |                        |      |      |      | EM//SM =16 ; EM//TB =108 ; 41=100 ;   |      |  |  |  |  |  |  |
| 24910220    | Remove rack 441-445 - VV ion gages, RGA          | 15       | 02NOV11     | 22NOV11      | 242         | 28,241.92     |                        |      |      |      | EM//SM =32 ; EM//TB =240 ; 41=100 ;   |      |  |  |  |  |  |  |
| 24910270    | Remove rack 447-448 - Fiber Optics               | 5        | 23NOV11     | 01DEC11      | 242         | 10,336.16     |                        |      |      |      | EM//SM =16 ; EM//TB =80 ; 41=100 ;    |      |  |  |  |  |  |  |
| 24910320    | Remove rack 449 - Glow Discharge                 | 10       | 02DEC11     | 15DEC11      | 242         | 19,289.04     |                        |      |      |      | EM//SM =24 ; EM//TB =160 ; 41=100 ;   |      |  |  |  |  |  |  |
| 24910370    | Remove rack 456 --Xray Crystal Spectr            | 7        | 16DEC11     | 03JAN12      | 242         | 13,416.80     |                        |      |      |      | EM//SM =16 ; EM//TB =112 ; 41=100 ;   |      |  |  |  |  |  |  |
| 24910390    | Remove rack 488 - Depositn monitor/fast xray/NPA | 7        | 04JAN12     | 12JAN12      | 242         | 13,416.80     |                        |      |      |      | EM//SM =16 ; EM//TB =112 ; 41=100 ;   |      |  |  |  |  |  |  |
| 24910440    | Remove rack 489 - NPA                            | 10       | 02SEP11     | 16SEP11      | 214         | 18,820.20     |                        |      |      |      | EM//SM =24 ; EM//TB =160 ; 41=100 ;   |      |  |  |  |  |  |  |
| 24910460    | Remove rack - PSI Camera                         | 2        | 19SEP11     | 20SEP11      | 214         | 4,355.56      |                        |      |      |      | EM//SM =08 ; EM//TB =32 ; 41=100 ;    |      |  |  |  |  |  |  |
| 24910510    | Remove rack - Ultra Fast X-ray Camera            | 2        | 21SEP11     | 22SEP11      | 214         | 4,355.56      |                        |      |      |      | EM//SM =08 ; EM//TB =32 ; 41=100 ;    |      |  |  |  |  |  |  |
| 24910560    | Remove rack - Transmission Grating Spectrometer  | 3        | 23SEP11     | 27SEP11      | 214         | 5,858.44      |                        |      |      |      | EM//SM =08 ; EM//TB =48 ; 41=100 ;    |      |  |  |  |  |  |  |
| 24910690    | Moving equipment In & Out of NTC                 | 6        | 28SEP11     | 05OCT11      | 214         | 11,601.68     |                        |      |      |      | EM//SM =16 ; EM//TB =96 ;             |      |  |  |  |  |  |  |
| 24910710    | Remove Bay J - Two gas injectors                 | 1        | 06OCT11     | 06OCT11      | 214         | 1,672.32      |                        |      |      |      | EM//TB =16 ; 41=100 ;                 |      |  |  |  |  |  |  |
| 24910760    | Remove Bay J - Reflectometer                     | 1        | 07OCT11     | 07OCT11      | 214         | 1,672.32      |                        |      |      |      | EM//TB =16 ; 41=100 ;                 |      |  |  |  |  |  |  |
| 24910810    | Remove Bay J - Bolometer                         | 1        | 10OCT11     | 10OCT11      | 214         | 1,672.32      |                        |      |      |      | EM//TB =16 ; 41=100 ;                 |      |  |  |  |  |  |  |
| 24910860    | Remove Bay J - RF Probe                          | 1        | 11OCT11     | 11OCT11      | 214         | 1,672.32      |                        |      |      |      | EM//TB =16 ; 41=100 ;                 |      |  |  |  |  |  |  |
| 24910910    | Remove Bay J - S-Flip                            | 1        | 12OCT11     | 12OCT11      | 214         | 1,672.32      |                        |      |      |      | EM//TB =16 ; 41=100 ;                 |      |  |  |  |  |  |  |
| 24910960    | Remove Bay J - SSNPA                             | 1        | 13OCT11     | 13OCT11      | 214         | 902.16        |                        |      |      |      | EM//TB =08 ; 41=100 ;                 |      |  |  |  |  |  |  |
| 24911010    | Remove Bay J - Re-entrant Window                 | 1        | 14OCT11     | 14OCT11      | 214         | 902.16        |                        |      |      |      | EM//TB =08 ; 41=100 ;                 |      |  |  |  |  |  |  |
| 24911060    | Remove Bay K - High K Scattering                 | 10       | 17OCT11     | 28OCT11      | 214         | 30,938.40     |                        |      |      |      | EM//TB =320 ; 41=100 ;                |      |  |  |  |  |  |  |
| 24911080    | Remove Bay K - FireTips                          | 5        | 31OCT11     | 04NOV11      | 214         | 15,535.20     |                        |      |      |      | EM//TB =160 ; 41=100 ;                |      |  |  |  |  |  |  |
| 24911100    | Remove Bay K - PSI Camera                        | 4        | 07NOV11     | 10NOV11      | 214         | 12,454.56     |                        |      |      |      | EM//TB =128 ; 41=100 ;                |      |  |  |  |  |  |  |
| 24911120    | Remove Bay K - NPA                               | 10       | 11NOV11     | 28NOV11      | 214         | 30,938.40     |                        |      |      |      | EM//TB =320 ; 41=100 ;                |      |  |  |  |  |  |  |
| 24911140    | Remove Bay K - Ultra Fast X-ray Camera           | 1        | 29NOV11     | 29NOV11      | 214         | 902.16        |                        |      |      |      | EM//TB =08 ; 41=100 ;                 |      |  |  |  |  |  |  |
| 24911160    | Remove Bay K - IR Window for Camera              | 1        | 30NOV11     | 30NOV11      | 214         | 902.16        |                        |      |      |      | EM//TB =08 ; 41=100 ;                 |      |  |  |  |  |  |  |
| 24911210    | Remove Bay K - Transmission Grating Spectrometer | 1        | 01DEC11     | 01DEC11      | 214         | 902.16        |                        |      |      |      | EM//TB =08 ; 41=100 ;                 |      |  |  |  |  |  |  |
| 24911260    | Remove Bay Bay L pump duct-VV Ion Gages/Filament | 2        | 02DEC11     | 05DEC11      | 214         | 3,212.64      |                        |      |      |      | EM//TB =32 ; 41=100 ;                 |      |  |  |  |  |  |  |
| 24911310    | Remove Bay Bay L pump duct--X-ray Crystal Spectr | 1        | 06DEC11     | 06DEC11      | 214         | 2,442.48      |                        |      |      |      | EM//TB =24 ; 41=100 ;                 |      |  |  |  |  |  |  |
| 24911330    | Remove Bay L pump duct-SPRED                     | 1        | 07DEC11     | 07DEC11      | 214         | 1,672.32      |                        |      |      |      | EM//TB =16 ; 41=100 ;                 |      |  |  |  |  |  |  |
| 24911400    | Remove Bay L pump duct-RGA                       | 3        | 08DEC11     | 12DEC11      | 214         | 4,752.96      |                        |      |      |      | EM//TB =48 ; 41=100 ;                 |      |  |  |  |  |  |  |
| 24911470    | Remove Bay L pump duct - LOWEUS                  | 3        | 13DEC11     | 15DEC11      | 214         | 1,672.32      |                        |      |      |      | EM//TB =16 ; 41=100 ;                 |      |  |  |  |  |  |  |
| 24911640    | Remove Bay L pump duct-MPTS Beam Dump Window     | 1        | 16DEC11     | 16DEC11      | 214         | 902.16        |                        |      |      |      | EM//TB =08 ; 41=100 ;                 |      |  |  |  |  |  |  |
| 24911646    | Remove Bay L pump duct-Pump Duct                 | 1        | 19DEC11     | 19DEC11      | 214         | 15,089.12     |                        |      |      |      | EM//TB =128 ; 41=200 ; EM//SM =16 ;   |      |  |  |  |  |  |  |
| 24911830    | Remove Misc. EQ. - Gas Delivery System           | 4        | 20DEC11     | 23DEC11      | 214         | 16,145.12     |                        |      |      |      | EM//SM =16 ; EM//TB =128 ; 41=1,000 ; |      |  |  |  |  |  |  |
| 24911850    | Remove Misc. EQ - NW Sect 109' Platform          | 6        | 03JAN12     | 10JAN12      | 214         | 30,157.68     |                        |      |      |      | EM//SM =24 ; EM//TB =192 ; 41=6,000 ; |      |  |  |  |  |  |  |
| 24911870    | Remove Misc. EQ - Convenience Outlets            | 10       | 11JAN12     | 24JAN12      | 214         | 20,477.04     |                        |      |      |      | EM//SM =24 ; EM//TB =160 ; 41=1,000 ; |      |  |  |  |  |  |  |
| 24911890    | Remove Misc. EQ - Cat 3 & Cat 4 Bus              | 5        | 25JAN12     | 31JAN12      | 214         | 12,844.16     |                        |      |      |      | EM//SM =16 ; EM//TB =80 ; 41=2,000 ;  |      |  |  |  |  |  |  |
| 24911910    | Remove Misc. EQ-Lights/E-stops/Fire Alarm        | 13       | 01FEB12     | 17FEB12      | 214         | 28,989.28     |                        |      |      |      | EM//SM =32 ; EM//TB =208 ; 41=3,000 ; |      |  |  |  |  |  |  |
| 24911930    | Remove Misc. EQ-Glow Disch Splice Box/Disc       | 2        | 20FEB12     | 21FEB12      | 214         | 5,651.92      |                        |      |      |      | EM//SM =08 ; EM//TB =32 ; 41=1,000 ;  |      |  |  |  |  |  |  |

| Activity ID   | Activity Description                              | Orig Dur | Early Start | Early Finish | Total Float | Budgeted Cost | FY10 |  |  |  |  |  |  |  |  |  |  |  | FY11 |  |  |  |  |  |  |  |  |  |  |  | FY12 |  |  |  |  |  |  |  |  |  |  |  | FY13 |  |  |  |  |  |  |  |  |  |  |  | FY14 |  |  |  |  |  |  |  |  |  |  |  | FY15 |  |  |  |  |  |  |  |  |  |  |  |
|---|---|----------|-------------|--------------|-------------|---------------|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|
|   |   |          |             |              |             |               |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24919999  | REMOVALS COMPLETE                                 | 0        |             | 21FEB12      | 214         | 0.00          |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| <b>Design, Procurement &amp; Fabr of Re-installations</b> |   |          |             |              |             |               |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24910030  | Dsgn rack 419 re-installation - UCLA Reflectomer  | 17       | 01JUN11*    | 23JUN11      | 48          | 22,216.08     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24910040  | Prep procd rack 419 re-installn-UCLA Reflectomet  | 3        | 24JUN11     | 28JUN11      | 48          | 4,255.12      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24910080  | Dsgn rack 431-435 re-installatn-VV T/C/magnetics  | 45       | 29JUN11     | 31AUG11      | 48          | 65,739.60     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24910090  | Prep procd rack 431-435 re-instln-VV T/C/magnetic | 5        | 01SEP11     | 08SEP11      | 48          | 6,278.00      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24910180  | Design rack 440 re-installation - SPRED           | 13       | 09SEP11     | 27SEP11      | 48          | 18,170.32     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24910190  | Prep procd rack 440 re-installatn-SPRED           | 3        | 28SEP11     | 30SEP11      | 48          | 4,255.12      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24910230  | Dsgn rack 441-445 re-installatn-VV ion gages/RGA  | 46       | 03OCT11     | 07DEC11      | 48          | 61,796.80     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24910240  | Prep procd rack 441-445 re-instln-VV ion gage/RGA | 5        | 08DEC11     | 14DEC11      | 48          | 6,434.88      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24910280  | Design rack 447-448 re-installation-Fiber Optics  | 17       | 15DEC11     | 16JAN12      | 48          | 22,766.80     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24910290  | Prep procd rack 447-448 re-instaltn-Fiber Optics  | 3        | 17JAN12     | 19JAN12      | 48          | 4,361.44      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24910330  | Design rack 449 re-installation - Glow Discharge  | 45       | 20JAN12     | 22MAR12      | 48          | 64,720.08     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24910340  | Prep procedure rack 449 re-install-Glow Discharge | 5        | 23MAR12     | 29MAR12      | 48          | 6,434.88      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24910400  | Dsgn rack 488 reinstal-Dep monitr/fast xray       | 20       | 30MAR12     | 26APR12      | 48          | 27,128.24     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24910410  | Prp procd rck 488 re-inst-Dep montr/fast xray     | 5        | 27APR12     | 03MAY12      | 48          | 6,434.88      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24910470  | Design rack re-installation - PSI Camera          | 20       | 04MAY12     | 01JUN12      | 48          | 27,128.24     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24910480  | Prep procedure rack re-installation - PSI Camera  | 5        | 04JUN12     | 08JUN12      | 48          | 6,434.88      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24910520  | Dsgn rack reinstallation-Ultra Fast X-ray Camera  | 20       | 11JUN12     | 09JUL12      | 48          | 27,128.24     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24910530  | Prp procd rack re-install-Ultra Fast X-ray Camera | 5        | 10JUL12     | 16JUL12      | 48          | 6,434.88      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24910570  | Dsgn rack re-install- Transmissn Grating Spectrom | 13       | 17JUL12     | 02AUG12      | 48          | 14,728.64     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24910580  | Prp procd rack re-install-Transm Grating Spectrom | 3        | 03AUG12     | 07AUG12      | 48          | 7,001.44      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24910600  | Design rack re-installation -IR Camera at Bay L   | 12       | 08AUG12     | 23AUG12      | 48          | 17,583.20     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24910610  | Prep procd rack re-installatn-IR Camera at Bay L  | 3        | 24AUG12     | 28AUG12      | 48          | 4,361.44      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24910630  | Design rack re-installation - IR Camera at Bay K  | 24       | 02MAY11*    | 03JUN11      | 82          | 38,256.96     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24910640  | Prep procedure rack re-install-IR Camera at Bay K | 3        | 06JUN11     | 08JUN11      | 82          | 4,255.12      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24910660  | Dsgn rack re-install-Reconf AC & Diagnostic Trays | 45       | 09JUN11     | 11AUG11      | 82          | 73,479.60     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24910670  | Prp procd rack re-install-Reconf AC & Diagnt Tray | 5        | 12AUG11     | 18AUG11      | 82          | 6,278.00      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24910730  | Prep procd Equipt reinstln Bay J-Two gas injectr  | 10       | 19AUG11     | 01SEP11      | 82          | 12,998.40     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24910780  | Prep procd Equipt reinstln Bay J-Reflectomer      | 5        | 02SEP11     | 09SEP11      | 82          | 6,499.20      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24910830  | Prep procd Equipt reinstln Bay J-Bolometer        | 5        | 12SEP11     | 16SEP11      | 82          | 6,499.20      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24910880  | Prep procd Equipt reinstln Bay J-RF Prove         | 5        | 19SEP11     | 23SEP11      | 82          | 6,499.20      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24910930  | Prep procd Equipt reinstln Bay J-S-Flip           | 5        | 26SEP11     | 30SEP11      | 82          | 6,499.20      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24910980  | Prep procd Equipt reinstln Bay J-SSNPA            | 5        | 03OCT11     | 07OCT11      | 82          | 6,662.00      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24911030  | Prep procd Equip reinst Bay J-Re-entrant Window   | 5        | 10OCT11     | 14OCT11      | 82          | 6,662.00      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24911180  | Prep procd Equip reinst NB2 Duct-IR Window f/Cam  | 5        | 17OCT11     | 21OCT11      | 82          | 6,662.00      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24911230  | Prep procd EQ reinst NB2 Duct-Trans Grating Spect | 5        | 24OCT11     | 28OCT11      | 82          | 6,662.00      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24911280  | Prep procd EQ reinstal New prmp duct-VV Ion Gages | 5        | 31OCT11     | 04NOV11      | 82          | 6,662.00      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24911340  | Design Equip re-installatn Bay L - SPRED          | 10       | 07NOV11     | 18NOV11      | 82          | 17,029.20     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24911350  | Prep procedure Equip re-installatn Bay L - SPRED  | 3        | 21NOV11     | 23NOV11      | 82          | 4,442.56      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |

| Activity ID            | Activity Description                              | Orig Dur | Early Start | Early Finish | Total Float | Budgeted Cost | FY10 |  |  |  |  |  |  |  |  |  |  |  | FY11 |  |  |  |  |  |  |  |  |  |  |  | FY12 |  |  |  |  |  |  |  |  |  |  |  | FY13 |  |  |  |  |  |  |  |  |  |  |  | FY14 |  |  |  |  |  |  |  |  |  |  |  | FY15 |  |  |  |  |  |  |  |  |  |  |  |
|------------------------|---|----------|-------------|--------------|-------------|---------------|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|
|                        |   |          |             |              |             |               |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24911360               | Procure Equipment re-installatn Bay L - SPRED     | 1        | 28NOV11     | 28NOV11      | 231         | 3,972.40      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24911370               | Fabrication Equipment re-installatn Bay L-SPRED   | 5        | 29NOV11     | 05DEC11      | 231         | 7,701.60      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24911410               | Prelim Design New Pump Duct - RGA                 | 10       | 28NOV11     | 09DEC11      | 82          | 23,691.20     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24911420               | Final Design New Pump Duct - RGA                  | 10       | 12DEC11     | 23DEC11      | 82          | 23,691.20     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24911430               | Prep procd Equip re-installtn New Pump Duct - RGA | 5        | 03JAN12     | 09JAN12      | 82          | 6,516.00      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24911440               | Procure Equipment re-installatn New Pump Duct-RGA | 1        | 10JAN12     | 10JAN12      | 211         | 11,892.40     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24911480               | Design Bay L - LOWEUS                             | 10       | 10JAN12     | 23JAN12      | 82          | 17,029.20     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24911490               | Prep procedure Equip re-installatn Bay L- LOWEUS  | 3        | 24JAN12     | 26JAN12      | 82          | 4,442.56      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24911500               | Procure Equipment re-installatn Bay L- LOWEUS     | 1        | 27JAN12     | 27JAN12      | 188         | 1,332.40      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24911510               | Fabrication Equipment re-installatn Bay L-LOWEUS  | 10       | 30JAN12     | 10FEB12      | 188         | 7,701.60      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24911530               | Design Bay L - IR Camera                          | 6        | 27JAN12     | 03FEB12      | 82          | 13,728.00     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24911540               | Prep procd Equip re-installatn Bay L- IR Camera   | 3        | 06FEB12     | 08FEB12      | 82          | 3,753.84      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24911550               | Procure Equip re-installatn Bay L- IR Camera      | 1        | 09FEB12     | 09FEB12      | 189         | 2,640.00      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24911580               | Design Bay L - Glow Discharge                     | 10       | 09FEB12     | 22FEB12      | 82          | 17,029.20     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24911590               | Prep procd EQ re-installatn Bay L-Glow Discharge  | 3        | 23FEB12     | 27FEB12      | 82          | 4,442.56      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24911600               | Procure EQ re-installatn Bay L-Glow Discharge     | 1        | 28FEB12     | 28FEB12      | 166         | 3,972.40      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24911610               | Fabrication EQ re-installatn Bay L-Glow Discharge | 10       | 29FEB12     | 13MAR12      | 166         | 7,701.60      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24911650               | Design Between Bay K/L-MPTS Beam Dump Window      | 6        | 28FEB12     | 06MAR12      | 82          | 11,549.92     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24911660               | Prp procd EQ reinst Betwn Bay K/L-MPTS Beam Dump  | 2        | 07MAR12     | 08MAR12      | 82          | 2,664.80      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24911680               | Fab EQ re-instal Betwn Bay K/L-MPTS Beam Dump Wd  | 10       | 09MAR12     | 22MAR12      | 159         | 12,981.60     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24911700               | Design 5 sections of Platform EI 118' W Side NTC  | 10       | 09MAR12     | 22MAR12      | 82          | 17,470.88     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24911710               | Prep procd 5 sections of Platform EI 118' W Side  | 3        | 23MAR12     | 27MAR12      | 82          | 3,997.20      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24911720               | Fab 5 sections of Platform EI 118' W Side NTC     | 20       | 28MAR12     | 24APR12      | 136         | 48,028.40     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24911740               | Fin Dsgn Power/Ground/Light @ Platform WSide NTC  | 20       | 28MAR12     | 24APR12      | 82          | 29,768.24     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24911760               | Procurements Power/Ground/Light @ Platform W NTC  | 1        | 25APR12     | 25APR12      | 135         | 5,280.00      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24911780               | Design 42 Ckt Panel NTC/30 Ckt Panel Gallery      | 25       | 25APR12     | 30MAY12      | 82          | 30,923.12     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24911790               | Prep procd 42 Ckt Panel NTC/30 Ckt Panel Gallery  | 3        | 31MAY12     | 04JUN12      | 82          | 4,361.44      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24911800               | Procuremnt 42 Ckt Panel NTC/30 Ckt Panel Gallery  | 1        | 05JUN12     | 05JUN12      | 107         | 79,200.00     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24911940               | Prel Dsgn New Pmp Duct-Tank Farm/TMB Sys/Gas Sol  | 10       | 05JUN12     | 18JUN12      | 82          | 23,691.20     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24911950               | Fin Dsgn New Pmp Duct-Tank Farm/TMB Sys/Gas Sol   | 10       | 19JUN12     | 02JUL12      | 82          | 23,691.20     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24911960               | Prep proc EQ Reinst New Pmp Duct-Tank Farm/TMB S  | 5        | 03JUL12     | 10JUL12      | 82          | 13,324.00     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24911970               | Proc EQ Reinst New Pmp Duct-Tank Farm/TMB Sys/Ga  | 1        | 11JUL12     | 11JUL12      | 82          | 18,480.00     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| <b>Re-Installation</b> |   |          |             |              |             |               |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24910049               | BEGIN RE-INSTALLATION OF DIAGNOSTICS              | 0        |             | 28AUG12*     | 48          | 0.00          |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24910050               | re-install rack 419 - UCLA Reflectometer          | 6        | 29AUG12     | 06SEP12      | 75          | 9,505.92      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24910100               | re-install rack 431-435 - VV T/C & magnetics      | 30       | 07SEP12     | 18OCT12      | 75          | 58,210.46     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24910200               | re-install rack 440 - SPRED                       | 8        | 19OCT12     | 30OCT12      | 75          | 13,866.60     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24910250               | re-install rack 441-445 - VV ion gages, RGA       | 20       | 31OCT12     | 29NOV12      | 75          | 36,874.80     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24910300               | re-install rack 447-448 - Fiber Optics            | 10       | 30NOV12     | 13DEC12      | 75          | 12,516.60     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24910350               | re-install rack 449 - Glow Discharge              | 15       | 14DEC12     | 11JAN13      | 75          | 27,733.20     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24910420               | re-install rack 488-Dep monitor/fast xray         | 10       | 14JAN13     | 25JAN13      | 75          | 19,278.24     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 24910490               | re-install rack - PSI Camera                      | 10       | 28JAN13     | 08FEB13      | 75          | 18,488.80     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |

| Activity ID  | Activity Description                             | Orig Dur | Early Start | Early Finish | Total Float | Budgeted Cost | Fiscal Year |      |      |      |      |      |  |  |  |
|--|--|----------|-------------|--------------|-------------|---------------|-------------|------|------|------|------|------|--|--|--|
|  |  |          |             |              |             |               | FY10        | FY11 | FY12 | FY13 | FY14 | FY15 |  |  |  |
| 24910540   | re-install rack - Ultra Fast X-ray Camera        | 10       | 11FEB13     | 22FEB13      | 75          | 18,488.80     |             |      |      |      |      |      |  |  |  |
| 24910590   | re-install rack-Transmission Grating Spectrometr | 7        | 25FEB13     | 05MAR13      | 75          | 12,942.16     |             |      |      |      |      |      |  |  |  |
| 24910620   | re-install rack - IR Camera at Bay L             | 4        | 06MAR13     | 11MAR13      | 75          | 7,665.52      |             |      |      |      |      |      |  |  |  |
| 24910650   | re-install rack - IR Camera at Bay K             | 15       | 12MAR13     | 01APR13      | 75          | 27,733.20     |             |      |      |      |      |      |  |  |  |
| 24910680   | re-install rack-Reconfigure AC & Diagnostic tray | 30       | 29AUG12     | 10OCT12      | 50          | 74,022.89     |             |      |      |      |      |      |  |  |  |
| 24910740   | re-install Equipment Bay J - Two gas injectors   | 10       | 11OCT12     | 24OCT12      | 50          | 18,488.80     |             |      |      |      |      |      |  |  |  |
| 24910790   | re-install Equipment Bay J - Reflector           | 20       | 25OCT12     | 21NOV12      | 50          | 43,390.40     |             |      |      |      |      |      |  |  |  |
| 24910840   | re-install Equipment Bay J - Bolometer           | 20       | 26NOV12     | 21DEC12      | 50          | 43,390.40     |             |      |      |      |      |      |  |  |  |
| 24910890   | re-install Equipment Bay J - RF Prove            | 20       | 01JAN13     | 28JAN13      | 50          | 43,390.40     |             |      |      |      |      |      |  |  |  |
| 24910940   | re-install Equipment Bay J - S-Flip              | 15       | 29JAN13     | 18FEB13      | 50          | 43,390.40     |             |      |      |      |      |      |  |  |  |
| 24910990   | re-install Equipment Bay J - SSNPA               | 20       | 19FEB13     | 18MAR13      | 50          | 43,390.40     |             |      |      |      |      |      |  |  |  |
| 24911040   | re-install Equipment Bay J - Re-entrant Window   | 1        | 19MAR13     | 19MAR13      | 50          | 924.44        |             |      |      |      |      |      |  |  |  |
| 24911190   | re-install Equipment NB2 Duct-IR Window f/Camera | 3        | 20MAR13     | 22MAR13      | 50          | 2,773.32      |             |      |      |      |      |      |  |  |  |
| 24911240   | reinstall Equip NB2 Duct-Transm Grating Spectro  | 20       | 25MAR13     | 19APR13      | 50          | 43,390.40     |             |      |      |      |      |      |  |  |  |
| 24911290   | reinstall EQ New pump duct-VV Ion Gages/Filament | 20       | 22APR13     | 17MAY13      | 50          | 43,390.40     |             |      |      |      |      |      |  |  |  |
| 24911380   | re-install Bay L - SPRED                         | 20       | 29AUG12     | 26SEP12      | 48          | 36,086.40     |             |      |      |      |      |      |  |  |  |
| 24911450   | Re-install New Pump Duct - RGA                   | 20       | 27SEP12     | 24OCT12      | 48          | 36,888.48     |             |      |      |      |      |      |  |  |  |
| 24911520   | re-install Bay L - LOWEUS                        | 20       | 25OCT12     | 21NOV12      | 48          | 36,977.60     |             |      |      |      |      |      |  |  |  |
| 24911570   | re-install Bay L - IR Camera                     | 15       | 26NOV12     | 14DEC12      | 48          | 14,541.60     |             |      |      |      |      |      |  |  |  |
| 24911620   | re-install Bay L - Glow Discharge                | 20       | 17DEC12     | 21JAN13      | 48          | 36,977.60     |             |      |      |      |      |      |  |  |  |
| 24911690   | re-install Between Bay K/L-MPTS Beam Dump Window | 1        | 22JAN13     | 22JAN13      | 48          | 2,928.88      |             |      |      |      |      |      |  |  |  |
| 24911730   | instl 5 sections of Platform EI 118' W Side NTC  | 5        | 23JAN13     | 29JAN13      | 48          | 20,122.80     |             |      |      |      |      |      |  |  |  |
| 24911770   | Install Power/Ground/Light @ Platform W Side NTC | 10       | 30JAN13     | 12FEB13      | 48          | 18,488.80     |             |      |      |      |      |      |  |  |  |
| 24911810   | Install 42 Ckt Panel NTC/30 Ckt Panel Gallery    | 20       | 13FEB13     | 12MAR13      | 48          | 43,390.40     |             |      |      |      |      |      |  |  |  |
| 24911980   | Reinstall New Pmp Duct-Tank Farm/TMB Sys/Gas So  | 50       | 13MAR13     | 21MAY13      | 48          | 95,617.28     |             |      |      |      |      |      |  |  |  |
| 24910001   | Test Cell Oversight during diag removals         | 114      | 02SEP11     | 21FEB12      | 1,712       | 142,036.32    |             |      |      |      |      |      |  |  |  |
| 24910002   | Test Cell Oversight during diag re-installation  | 183      | 29AUG12     | 23MAY13      | 1,396       | 234,020.32    |             |      |      |      |      |      |  |  |  |
| FY092490   | FY09 Actual Cost                                 | 22*      | 01JAN09A    | 30SEP09A     |             | 143,025.00    |             |      |      |      |      |      |  |  |  |
| Subtotal   |  | 1,102    | 01JAN09A    | 23MAY13      | 1,396       | 3,240,702.86  |             |      |      |      |      |      |  |  |  |
| <b>Job: 3200 - Water Cooling System Mods for CSU</b> |  |          |             |              |             |               |             |      |      |      |      |      |  |  |  |
| 3200-003   | Concep Dsn-PREPARE WORK PLANNING FORM            | 1        | 01OCT09*    | 01OCT09      | 2,172       | 1,268.00      |             |      |      |      |      |      |  |  |  |
| 3200-009   | Concep Dsn-Prep System Description               | 2        | 02OCT09     | 05OCT09      | 2,172       | 2,536.00      |             |      |      |      |      |      |  |  |  |
| 3200-015   | Concep Dsn-Prep System Requirements              | 3        | 06OCT09     | 08OCT09      | 2,172       | 3,804.00      |             |      |      |      |      |      |  |  |  |
| 3200-021   | Concep Dsn-R&D                                   | 8        | 09OCT09     | 20OCT09      | 2,172       | 12,680.00     |             |      |      |      |      |      |  |  |  |
| 3200-027   | Concep Dsn-Analysis                              | 8        | 09OCT09     | 20OCT09      | 2,172       | 31,001.40     |             |      |      |      |      |      |  |  |  |
| 3200-033   | Concep Dsn-CDR                                   | 2        | 28OCT09*    | 29OCT09      | 2,167       | 2,536.00      |             |      |      |      |      |      |  |  |  |
| 3200-034   | Prelim Dsn-Lehman Review                         | 15       | 15DEC09*    | 13JAN10      | 2,137       | 6,340.00      |             |      |      |      |      |      |  |  |  |
| 3200-039   | Prelim Dsn-Thermal Analysis                      | 15       | 14JAN10     | 03FEB10      | 2,137       | 13,788.40     |             |      |      |      |      |      |  |  |  |

| Activity ID                                    | Activity Description                             | Orig Dur | Early Start | Early Finish | Total Float | Budgeted Cost | FY10  |  |  |  |  |  |  |  |  |  |  |  | FY11 |  |  |  |  |  |  |  |  |  |  |  | FY12 |  |  |  |  |  |  |  |  |  |  |  | FY13 |  |  |  |  |  |  |  |  |  |  |  | FY14 |  |  |  |  |  |  |  |  |  |  |  | FY15                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|----------|-------------|--------------|-------------|---------------|---|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|  |  |          |             |              |             |               |   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3200-045                                       | Prelim Dsn-Seismic Analysis                      | 15       | 04FEB10     | 24FEB10      | 2,137       | 13,788.40     | 41=00 ; EA/EM =40 ;<br>EM/EM =40 ;              |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3200-051                                       | Prelim Dsn-FMEA Analysis                         | 15       | 25FEB10     | 17MAR10      | 2,137       | 13,788.40     | 41=00 ; EA/EM =40 ;<br>EM/EM =40 ;              |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3200-057                                       | Prelim Dsn-Prepare NEPA Form                     | 5        | 18MAR10     | 24MAR10      | 2,137       | 2,536.00      | 41=00 ; EM/EM =16 ;                             |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3200-063                                       | Prelim Dsn-Update Cost & Schedule Estimate       | 5        | 25MAR10     | 31MAR10      | 2,137       | 12,680.00     | EM/EM =80 ;                                     |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3200-069                                       | Prelim Dsn-Design Drawings                       | 40       | 01APR10     | 26MAY10      | 2,137       | 39,262.00     | 41=00 ; EA/SB =160 ;<br>EE/EM =40 ; EM/EM =80 ; |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3200-075                                       | Prelim Dsn-PDR Prep                              | 5        | 27MAY10     | 03JUN10      | 2,137       | 6,340.00      | 41=00 ; EM/EM =40 ;                             |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3200-081                                       | Prelim Dsn-CONDUCT PDR                           | 2        | 04JUN10     | 07JUN10      | 2,137       | 2,536.00      | 41=00 ; EM/EM =16 ;                             |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3200-093                                       | Final Design-Disposition PDR Chits               | 2        | 01JUL10*    | 02JUL10      | 1,836       | 2,536.00      | 41=00 ; EM/EM =16 ;                             |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3200-099                                       | Final Design-Design Drawings                     | 92       | 06JUL10     | 11NOV10      | 1,836       | 16,595.94     | 41=00 ; EA/SB =80 ;<br>EE/EM =20 ; EM/EM =20 ;  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3200-105                                       | Final Design-Update Analyses                     | 70       | 12NOV10     | 01MAR11      | 1,836       | 14,134.80     | 41=00 ; EA/EM =40 ;<br>EM/EM =40 ;              |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3200-111                                       | Final Design-Update Cost & Schedule Estimate     | 5        | 02MAR11     | 08MAR11      | 1,836       | 12,998.40     | EM/EM =80 ;                                     |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3200-117                                       | Final Design-Prep Procurement Specs              | 5        | 09MAR11     | 15MAR11      | 1,836       | 6,499.20      | 41=00 ; EM/EM =40 ;                             |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3200-123                                       | Final Design-FDR Prep                            | 5        | 16MAR11     | 22MAR11      | 1,836       | 6,499.20      | 41=00 ; EM/EM =40 ;                             |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3200-129                                       | Final Design-CONDUCT FDR                         | 2        | 23MAR11     | 24MAR11      | 1,836       | 2,599.68      | 41=00 ; EM/EM =16 ;                             |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3200-135                                       | Pumps-Prep Requisition and procurement package   | 1        | 10OCT11*    | 10OCT11      | 1,738       | 0.00          |   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3200-141                                       | Pumps-SUBMIT REQ TO PROCUREMENT                  | 1        | 11OCT11     | 11OCT11      | 1,738       | 0.00          |   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3200-147                                       | Pumps-Procurement lead time (1)                  | 30       | 12OCT11     | 22NOV11      | 1,738       | 0.00          |   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3200-153                                       | Pumps-AWARD                                      | 1        | 23NOV11     | 23NOV11      | 1,738       | 0.00          |   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3200-159                                       | Pumps-Fabricate or delivery                      | 30       | 28NOV11     | 16JAN12      | 1,738       | 39,600.00     |   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  | 41=30,000 ;                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3200-165                                       | Valves, Hose, Pipe-Prep Requisition and procurem | 2        | 03OCT11*    | 04OCT11      | 1,703       | 0.00          |   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3200-171                                       | Valves, Hose, Pipe-SUBMIT REQ TO PROCUREMENT     | 1        | 05OCT11     | 05OCT11      | 1,703       | 0.00          |   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3200-177                                       | Valves, Hose, Pipe-Procurement lead time (1)     | 30       | 06OCT11     | 16NOV11      | 1,703       | 0.00          |   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3200-183                                       | Valves, Hose, Pipe-AWARD                         | 1        | 17NOV11     | 17NOV11      | 1,703       | 0.00          |   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3200-189                                       | Valves, Hose, Pipe-Fabricate or delivery         | 30       | 18NOV11     | 10JAN12      | 1,703       | 13,200.00     |   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  | 41=10,000 ;                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3200-195                                       | Engineering Support                              | 44       | 24JUL12*    | 24SEP12      | 1,561       | 12,125.40     |   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3200-201                                       | Remove Existing System                           | 5        | 24JUL12*    | 30JUL12      | 1,566       | 12,969.04     |   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3200-207                                       | Install Pumps                                    | 10       | 31JUL12     | 13AUG12      | 1,566       | 14,784.80     |   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3200-213                                       | Modify Manifold                                  | 20       | 14AUG12     | 11SEP12      | 1,566       | 46,209.60     |   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3200-219                                       | Connect Lines                                    | 2        | 26NOV12*    | 27NOV12      | 1,515       | 7,436.64      |   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3200-225                                       | Leak Check                                       | 2        | 28NOV12     | 29NOV12      | 1,515       | 3,157.76      |   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| FY093000                                       | FY09 Actual Cost                                 | 22*      | 01JAN09A    | 30SEP09A     |             | 5,447.00      |   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Subtotal                                       |  | 983      | 01JAN09A    | 29NOV12      | 1,515       | 381,678.06    |   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Job: 3300 - Bakeout System Mods for CSU</b> |  |          |             |              |             |               |   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3300-105                                       | Bakeout- Prelim Design                           | 145      | 02NOV09*    | 04JUN10      | 1,693       | 4,712.96      | EE/EM =16 ; 41=00 ;<br>EA/SB =16 ;              |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3300-110                                       | Bakeout-PDR                                      | 0        |             | 04JUN10      | 1,693       | 0.00          |   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3300-115                                       | Bakeout-Final Design                             | 200      | 07JUN10     | 25MAR11      | 1,693       | 4,782.91      |   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3300-120                                       | Bakeout-FDR                                      | 0        |             | 25MAR11      | 1,693       | 0.00          | EE/EM =16 ; EA/SB =16 ;                         |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3300-125                                       | Bakeout-Procure Hardware                         | 130      | 03OCT11*    | 11APR12      | 1,561       | 48,676.16     |   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  | EE/EM =08 ; 41=35,000 ;<br>EA/SB =08 ; |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3300-130                                       | Bakeout-Assembly                                 | 65       | 12APR12     | 13JUL12      | 1,561       | 5,337.28      |   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  | EE/SM =16 ; EE/TB =32 ;                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| Activity ID   | Activity Description                             | Orig Dur | Early Start | Early Finish | Total Float | Budgeted Cost | Fiscal Year |      |      |      |      |      |  |  |  |
|---|--|----------|-------------|--------------|-------------|---------------|-------------|------|------|------|------|------|--|--|--|
|   |  |          |             |              |             |               | FY10        | FY11 | FY12 | FY13 | FY14 | FY15 |  |  |  |
| 3300-135  | Bakeout-Installation                             | 45       | 16JUL12     | 17SEP12      | 1,561       | 8,935.88      |             |      |      |      |      |      |  |  |  |
| 3300-140  | Bakeout-Test                                     | 5        | 18SEP12     | 24SEP12      | 1,561       | 7,519.24      |             |      |      |      |      |      |  |  |  |
| Subtotal  |  | 722      | 02NOV09     | 24SEP12      | 1,561       | 79,964.43     |             |      |      |      |      |      |  |  |  |
| <b>Job: 3400 - Gas Delivery System Mods for CSU</b> |  |          |             |              |             |               |             |      |      |      |      |      |  |  |  |
| 3400-01   | Conceptual Design-PREPARE WORK PLANNING FORM     | 5        | 01OCT09*    | 07OCT09      | 2,288       | 1,268.00      |             |      |      |      |      |      |  |  |  |
| 3400-05   | Conceptual Design-Prep System Description        | 5        | 08OCT09     | 14OCT09      | 2,288       | 2,536.00      |             |      |      |      |      |      |  |  |  |
| 3400-09   | Conceptual Design-Prep System Requirements       | 5        | 15OCT09     | 21OCT09      | 2,288       | 2,536.00      |             |      |      |      |      |      |  |  |  |
| 3400-13   | Conceptual Design-CDR                            | 2        | 28OCT09*    | 29OCT09      | 2,284       | 5,072.00      |             |      |      |      |      |      |  |  |  |
| 3400-17   | Preliminary Design-Update Cost & Schedule Estima | 15       | 25MAR10     | 14APR10      | 1,887       | 2,536.00      |             |      |      |      |      |      |  |  |  |
| 3400-21   | Preliminary Design-Design Drawings               | 25       | 18FEB10*    | 24MAR10      | 1,887       | 2,959.92      |             |      |      |      |      |      |  |  |  |
| 3400-25   | Preliminary Design-PDR Prep                      | 25       | 15APR10     | 19MAY10      | 1,887       | 11,412.00     |             |      |      |      |      |      |  |  |  |
| 3400-29   | Preliminary Design-CONDUCT PDR                   | 1        | 20MAY10     | 20MAY10      | 1,887       | 634.00        |             |      |      |      |      |      |  |  |  |
| 3400-33   | Final Design-Disposition PDR Chits               | 5        | 21MAY10     | 27MAY10      | 1,887       | 2,536.00      |             |      |      |      |      |      |  |  |  |
| 3400-37   | Final Design-Design Drawings                     | 10       | 28MAY10     | 11JUN10      | 1,887       | 4,933.20      |             |      |      |      |      |      |  |  |  |
| 3400-41   | Final Design-Update Cost & Schedule Estimate     | 5        | 14JUN10     | 18JUN10      | 1,887       | 2,536.00      |             |      |      |      |      |      |  |  |  |
| 3400-45   | Final Design-FDR Prep                            | 190      | 21JUN10     | 25MAR11      | 1,887       | 19,316.61     |             |      |      |      |      |      |  |  |  |
| 3400-49   | Final Design-CONDUCT FDR                         | 1        | 28MAR11     | 28MAR11      | 1,887       | 649.92        |             |      |      |      |      |      |  |  |  |
| 3400-57   | Shop Fabrication                                 | 5        | 03OCT11*    | 07OCT11      | 1,756       | 770.16        |             |      |      |      |      |      |  |  |  |
| 3400-61   | Assembly   | 5        | 10OCT11     | 14OCT11      | 1,756       | 770.16        |             |      |      |      |      |      |  |  |  |
| 3400-65   | Installation Procedure/Oversight                 | 10       | 17OCT11     | 28OCT11      | 1,756       | 7,994.40      |             |      |      |      |      |      |  |  |  |
| 3400-69   | Machine Installation                             | 20       | 31OCT11     | 29NOV11      | 1,756       | 10,012.08     |             |      |      |      |      |      |  |  |  |
| 3400-73   | PTP Testing/Programming                          | 10       | 30NOV11     | 13DEC11      | 1,756       | 9,326.80      |             |      |      |      |      |      |  |  |  |
| Subtotal  |  | 549      | 01OCT09     | 13DEC11      | 1,756       | 87,799.25     |             |      |      |      |      |      |  |  |  |
| <b>Job: 4100 - Center Stack Diagnostics for CSU</b> |  |          |             |              |             |               |             |      |      |      |      |      |  |  |  |
| 4100-105  | CDR Prep   | 5        | 19OCT09*    | 23OCT09      | 144         | 10,850.70     |             |      |      |      |      |      |  |  |  |
| 4100-109  | Prelim Dsn-PREPARE WORK PLANNING FORM            | 5        | 26OCT09     | 30OCT09      | 274         | 3,170.00      |             |      |      |      |      |      |  |  |  |
| 4100-113  | Prelim Dsn-Prep System Description               | 135      | 26OCT09     | 13MAY10      | 144         | 15,860.30     |             |      |      |      |      |      |  |  |  |
| 4100-117  | Prelim Dsn-Prep System Requirements              | 135      | 26OCT09     | 13MAY10      | 144         | 15,860.30     |             |      |      |      |      |      |  |  |  |
| 4100-121  | Prelim Dsn-Update Cost & Schedule Estimate       | 135      | 26OCT09     | 13MAY10      | 144         | 9,764.60      |             |      |      |      |      |      |  |  |  |
| 4100-125  | Prelim Dsn-Design Drawings                       | 135      | 26OCT09     | 13MAY10      | 144         | 34,838.00     |             |      |      |      |      |      |  |  |  |
| 4100-129  | Prelim Dsn-PDR Prep                              | 10       | 14MAY10     | 27MAY10      | 144         | 9,764.60      |             |      |      |      |      |      |  |  |  |
| 4100-133  | Prelim Dsn-CONDUCT PDR                           | 2        | 28MAY10     | 01JUN10      | 144         | 1,318.92      |             |      |      |      |      |      |  |  |  |
| 4100-137  | Final Dsn-Disposition PDR Chits                  | 10       | 02JUN10     | 15JUN10      | 144         | 13,189.20     |             |      |      |      |      |      |  |  |  |
| 4100-141  | Final Dsn-Design Drawings                        | 120      | 01OCT10*    | 29MAR11      | 69          | 41,190.60     |             |      |      |      |      |      |  |  |  |
| 4100-145  | Final Dsn-Update Cost & Schedule Estimate        | 120      | 01OCT10*    | 29MAR11      | 69          | 20,542.40     |             |      |      |      |      |      |  |  |  |
| 4100-149  | Final Dsn-Prep Procurement Specs                 | 120      | 01OCT10*    | 29MAR11      | 69          | 10,271.20     |             |      |      |      |      |      |  |  |  |
| 4100-153  | Final Dsn-FDR Prep                               | 15       | 30MAR11     | 19APR11      | 69          | 20,020.00     |             |      |      |      |      |      |  |  |  |
| 4100-157  | Final Dsn-CONDUCT FDR                            | 2        | 20APR11     | 21APR11      | 69          | 1,352.08      |             |      |      |      |      |      |  |  |  |

| Activity ID                                      | Activity Description                             | Orig Dur | Early Start | Early Finish | Total Float | Budgeted Cost | Fiscal Year |      |      |      |      |      |  |  |  |  |  |  |  |
|--|--|----------|-------------|--------------|-------------|---------------|-------------|------|------|------|------|------|--|--|--|--|--|--|--|
|  |  |          |             |              |             |               | FY10        | FY11 | FY12 | FY13 | FY14 | FY15 |  |  |  |  |  |  |  |
| 4100-161   | Wire/Cables-Prep Requisition and procurement pac | 15       | 01APR11     | 21APR11      | 69          | 30,973.20     |             |      |      |      |      |      |  |  |  |  |  |  |  |
| 4100-165   | Wire/Cables-SUBMIT REQ TO PROCUREMENT            | 5        | 22APR11     | 28APR11      | 69          | 6,760.40      |             |      |      |      |      |      |  |  |  |  |  |  |  |
| 4100-169   | Wire/Cables-Procurement lead time (1)            | 25       | 29APR11     | 03JUN11      | 69          | 0.00          |             |      |      |      |      |      |  |  |  |  |  |  |  |
| 4100-173   | Wire/Cables-AWARD                                | 1        | 06JUN11     | 06JUN11      | 69          | 6,760.40      |             |      |      |      |      |      |  |  |  |  |  |  |  |
| 4100-177   | Wire/Cables-Fabricate or delivery                | 130      | 07JUN11     | 09DEC11      | 69          | 72,554.17     |             |      |      |      |      |      |  |  |  |  |  |  |  |
| 4100-181   | Coils w/mandrelsPrep Requisition and procurement | 15       | 01APR11     | 21APR11      | 69          | 23,284.20     |             |      |      |      |      |      |  |  |  |  |  |  |  |
| 4100-185   | Coils w/mandrelsSUBMIT REQ TO PROCUREMENT        | 5        | 03MAY11*    | 09MAY11      | 62          | 3,380.20      |             |      |      |      |      |      |  |  |  |  |  |  |  |
| 4100-189   | Coils w/mandrelsProcurement lead time (1)        | 25       | 10MAY11     | 14JUN11      | 62          | 0.00          |             |      |      |      |      |      |  |  |  |  |  |  |  |
| 4100-193   | Coils w/mandrelsAWARD                            | 1        | 15JUN11     | 15JUN11      | 62          | 0.00          |             |      |      |      |      |      |  |  |  |  |  |  |  |
| 4100-197   | Coils w/mandrelsFabricate or delivery            | 130      | 16JUN11     | 20DEC11      | 62          | 116,560.14    |             |      |      |      |      |      |  |  |  |  |  |  |  |
| 4100-201   | Fab/Assy Procedure                               | 20       | 16JUN11     | 14JUL11      | 172         | 17,331.88     |             |      |      |      |      |      |  |  |  |  |  |  |  |
| 4100-205   | Shop Fabrication                                 | 65       | 21DEC11     | 28MAR12      | 62          | 114,785.50    |             |      |      |      |      |      |  |  |  |  |  |  |  |
| 4100-209   | Assembly   | 65       | 29MAR12     | 28JUN12      | 62          | 112,305.10    |             |      |      |      |      |      |  |  |  |  |  |  |  |
| 4100-213   | Installation Procedure                           | 15       | 15JUL11     | 04AUG11      | 287         | 27,919.40     |             |      |      |      |      |      |  |  |  |  |  |  |  |
| 4100-217   | Machine Installation                             | 30       | 29JUN12     | 10AUG12      | 62          | 63,911.20     |             |      |      |      |      |      |  |  |  |  |  |  |  |
| 4100-221   | PTP Testing                                      | 15       | 13AUG12     | 31AUG12      | 62          | 33,612.20     |             |      |      |      |      |      |  |  |  |  |  |  |  |
| FY094000   | FY09 Actual Cost                                 | 22*      | 01JAN09A    | 30SEP09A     |             | 11,333.00     |             |      |      |      |      |      |  |  |  |  |  |  |  |
| Subtotal   |  | 922      | 01JAN09A    | 31AUG12      | 62          | 849,463.89    |             |      |      |      |      |      |  |  |  |  |  |  |  |
| <b>Job: 5000 - CSU Power Systems CDR Support</b> |  |          |             |              |             |               |             |      |      |      |      |      |  |  |  |  |  |  |  |
| <b>AC Power</b>                                  |  |          |             |              |             |               |             |      |      |      |      |      |  |  |  |  |  |  |  |
| 510-001  | 51- AC Power -Prelim Dsn                         | 140      | 02NOV09*    | 27MAY10      | 1,382       | 2,479.81      |             |      |      |      |      |      |  |  |  |  |  |  |  |
| 510-005  | 51- AC Power -Final Dsn                          | 206      | 28MAY10     | 28MAR11      | 1,382       | 2,515.85      |             |      |      |      |      |      |  |  |  |  |  |  |  |
| 510-009  | 51- AC Power -Procurement                        | 170      | 10AUG11*    | 16APR12      | 1,288       | 11,821.24     |             |      |      |      |      |      |  |  |  |  |  |  |  |
| 510-013  | 51- AC Power -Installation                       | 320      | 17APR12     | 23JUL13      | 1,288       | 33,458.34     |             |      |      |      |      |      |  |  |  |  |  |  |  |
| 510-017  | 51- AC Power -Test&Commission                    | 65       | 24JUL13     | 22OCT13      | 1,288       | 17,507.34     |             |      |      |      |      |      |  |  |  |  |  |  |  |
| <b>AC/DC Converters</b>                          |  |          |             |              |             |               |             |      |      |      |      |      |  |  |  |  |  |  |  |
| 520-001  | 52 - AC/DC Converters -Prelim Dsn                | 140      | 02NOV09*    | 27MAY10      | 1,385       | 294.56        |             |      |      |      |      |      |  |  |  |  |  |  |  |
| 520-005  | 52 - AC/DC Converters -Final Dsn                 | 203      | 28MAY10     | 23MAR11      | 1,385       | 298.79        |             |      |      |      |      |      |  |  |  |  |  |  |  |
| 520-009  | 52 - AC/DC Converters -Procurement               | 170      | 10AUG11*    | 16APR12      | 1,288       | 17,075.12     |             |      |      |      |      |      |  |  |  |  |  |  |  |
| 520-013  | 52 - AC/DC Converters -Installation              | 320      | 17APR12     | 23JUL13      | 1,288       | 709.42        |             |      |      |      |      |      |  |  |  |  |  |  |  |
| 520-017  | 52 - AC/DC Converters -Test&Commission           | 65       | 24JUL13     | 22OCT13      | 1,288       | 34,943.95     |             |      |      |      |      |      |  |  |  |  |  |  |  |
| <b>FCPC &amp; TA-NTC DC Systems</b>              |  |          |             |              |             |               |             |      |      |      |      |      |  |  |  |  |  |  |  |
| 531-001  | 531- FCPC DC Systems -Prelim Dsn                 | 140      | 02NOV09*    | 27MAY10      | 1,560       | 52,062.80     |             |      |      |      |      |      |  |  |  |  |  |  |  |
| 531-005  | 531- FCPC DC Systems -Final Dsn                  | 208      | 28MAY10     | 30MAR11      | 1,560       | 52,824.63     |             |      |      |      |      |      |  |  |  |  |  |  |  |
| 531-009  | 531- FCPC DC Systems -Procure Misc H/W           | 130      | 10AUG11*    | 20FEB12      | 1,518       | 55,081.38     |             |      |      |      |      |      |  |  |  |  |  |  |  |
| 531-013  | 531- FCPC DC Systems -Procure 1000MCM Cable & Tr | 180      | 10AUG11*    | 30APR12      | 1,468       | 187,878.17    |             |      |      |      |      |      |  |  |  |  |  |  |  |
| 531-017  | 531- FCPC DC Systems -Install Tray               | 65       | 01MAY12     | 01AUG12      | 1,533       | 19,800.00     |             |      |      |      |      |      |  |  |  |  |  |  |  |



| Activity ID                            | Activity Description                             | Orig Dur | Early Start | Early Finish | Total Float | Budgeted Cost | FY10 |  |  |  |  |  |  |  |  |  |  |  | FY11 |  |  |  |  |  |  |  |  |  |  |  | FY12 |  |  |  |  |  |  |  |  |  |  |  | FY13 |  |  |  |  |  |  |  |  |  |  |  | FY14 |  |  |  |  |  |  |  |  |  |  |  | FY15 |  |  |  |  |  |  |  |  |  |  |  |
|--|--|----------|-------------|--------------|-------------|---------------|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|
|  |  |          |             |              |             |               |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 531-021                                | 531- FCPC DC Systems -Procure OH Reactors        | 130      | 10AUG11*    | 20FEB12      | 1,583       | 131,146.15    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 531-025                                | 531- FCPC DC Systems -Procure OH Reactor Instl   | 65       | 21FEB12     | 21MAY12      | 1,583       | 52,800.00     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 531-029                                | 531- FCPC DC Systems - Instl cable & misc h/w    | 130      | 01MAY12     | 01NOV12      | 1,468       | 979,011.34    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 531-033                                | 531- FCPC DC Systems -Test&Commission            | 65       | 02NOV12     | 12FEB13      | 1,468       | 92,106.24     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 532-001                                | 532- TA-NTC DC Systems -Prelim Dsn               | 140      | 02NOV09*    | 27MAY10      | 1,388       | 5,316.40      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 532-005                                | 532- TA-NTC DC Systems -Final Dsn                | 200      | 28MAY10     | 18MAR11      | 1,388       | 5,391.93      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 532-009                                | 532- TA-NTC DC Systems -Procurement              | 170      | 10AUG11*    | 16APR12      | 1,288       | 19,702.06     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 532-013                                | 532- TA-NTC DC Systems -Installation             | 320      | 17APR12     | 23JUL13      | 1,288       | 81,560.49     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 532-017                                | 532- TA-NTC DC Systems -Test&Commission          | 65       | 24JUL13     | 22OCT13      | 1,288       | 4,583.62      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| <b>Control &amp; Protection System</b> |  |          |             |              |             |               |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 541-001                                | 541 - Electrical Interlocks -Prelim Dsn          | 140      | 02NOV09*    | 27MAY10      | 1,388       | 82,031.88     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 541-005                                | 541 - Electrical Interlocks -Final Dsn           | 200      | 28MAY10     | 18MAR11      | 1,388       | 83,198.18     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 541-009                                | 541 - Electrical Interlocks -Procurement PLC     | 170      | 03OCT11*    | 07JUN12      | 1,251       | 134,640.00    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 541-013                                | 541 - Electrical Interlocks -Installation        | 320      | 08JUN12     | 12SEP13      | 1,251       | 405,184.73    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 541-017                                | 541 - Electrical Interlocks -Test&Commission     | 65       | 13SEP13     | 12DEC13      | 1,251       | 28,891.22     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 542-001                                | 542 - Kirk Key Interlocks -Prelim Dsn            | 140      | 02NOV09*    | 27MAY10      | 1,393       | 3,836.44      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 542-005                                | 542 - Kirk Key Interlocks -Final Dsn             | 195      | 28MAY10     | 11MAR11      | 1,393       | 3,889.88      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 542-009                                | 542 - Kirk Key Interlocks -Procurement           | 170      | 10AUG11*    | 16APR12      | 1,288       | 19,702.06     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 542-013                                | 542 - Kirk Key Interlocks -Installation          | 320      | 17APR12     | 23JUL13      | 1,288       | 29,731.75     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 542-017                                | 542 - Kirk Key Interlocks -Test&Commission       | 65       | 24JUL13     | 22OCT13      | 1,288       | 24,835.62     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 543-001                                | 543 - Real Time Control -Prelim Dsn              | 140      | 02NOV09*    | 27MAY10      | 1,692       | 41,095.20     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 543-005                                | 543 - Real Time Control -Final Dsn               | 208      | 28MAY10     | 30MAR11      | 1,692       | 41,696.94     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 543-013                                | 543 - Real Time Control -Installation            | 243      | 05OCT11*    | 24SEP12      | 1,561       | 86,366.40     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 544-001                                | 544 -PC Link/FD/FG changes -Prelim Dsn           | 140      | 02NOV09*    | 27MAY10      | 1,430       | 179,457.92    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 544-005                                | 544 -PC Link/FD/FG changes -Final Dsn            | 198      | 28MAY10     | 16MAR11      | 1,430       | 181,989.76    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 544-009                                | 544 -PC Link/FD/FG changes -Procure control link | 130      | 03OCT11*    | 11APR12      | 1,291       | 1,095,600.00  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 544-013                                | 544 -PC Link/FD/FG changes -Installation         | 320      | 12APR12     | 18JUL13      | 1,291       | 1,194,094.50  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 544-017                                | 544 -PC Link/FD/FG changes -Test&Commission      | 65       | 19JUL13     | 17OCT13      | 1,291       | 162,403.20    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 545-001                                | 545 - Instrumentation -Prelim Dsn                | 140      | 02NOV09*    | 27MAY10      | 1,418       | 16,454.62     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 545-005                                | 545 - Instrumentation -Final Dsn                 | 200      | 28MAY10     | 18MAR11      | 1,418       | 16,688.48     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 545-009                                | 545 - Instrumentation -Procure Transducers       | 140      | 03OCT11*    | 25APR12      | 1,281       | 302,280.00    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 545-013                                | 545 - Instrumentation -Installation              | 320      | 26APR12     | 01AUG13      | 1,281       | 224,592.96    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 545-017                                | 545 - Instrumentation -Test&Commission           | 65       | 02AUG13     | 31OCT13      | 1,281       | 62,203.51     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 546-001                                | 546 - Coil Protection -Prelim Dsn                | 140      | 02NOV09*    | 27MAY10      | 1,420       | 24,522.80     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 546-005                                | 546 - Coil Protection -Final Dsn                 | 198      | 28MAY10     | 16MAR11      | 1,420       | 24,868.69     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 546-009                                | 546 - Coil Protection -Procurement               | 140      | 03OCT11*    | 25APR12      | 1,281       | 10,560.00     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |

| Activity ID                             | Activity Description                             | Orig Dur | Early Start | Early Finish | Total Float | Budgeted Cost | FY10 |  |  |  |  |  |  |  |  |  |  |  | FY11 |  |  |  |  |  |  |  |  |  |  |  | FY12 |  |  |  |  |  |  |  |  |  |  |  | FY13 |  |  |  |  |  |  |  |  |  |  |  | FY14 |  |  |  |  |  |  |  |  |  |  |  | FY15 |  |  |  |  |  |  |  |  |  |  |  |
|---|--|----------|-------------|--------------|-------------|---------------|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|
|   |  |          |             |              |             |               |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 546-013                                 | 546 - Coil Protection -Installation              | 320      | 26APR12     | 01AUG13      | 1,281       | 106,870.45    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 546-017                                 | 546 - Coil Protection -Test&Commission           | 65       | 02AUG13     | 31OCT13      | 1,281       | 27,387.80     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| <b>Systems Design &amp; Integration</b> |  |          |             |              |             |               |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 551-001                                 | 551 - System Design -design support, analysis, c | 880      | 02NOV09*    | 14MAY13      | 1,403       | 321,093.15    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 551-003                                 | 551 - System DesignGeneral Prelim Dsn support    | 140      | 02NOV09*    | 27MAY10      | 1,948       | 70,694.40     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 551-005                                 | 551 - System Design - PDR                        | 0        |             | 27MAY10      | 1,948       | 0.00          |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 551-007                                 | 551 - System DesignGeneral Final Dsn support     | 195      | 28MAY10     | 11MAR11      | 1,948       | 71,679.36     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 551-009                                 | 551 - System Design - FDR                        | 0        |             | 30MAR11      | 1,935       | 0.00          |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 552-001                                 | 552 - System Testing -Prepare Procedures         | 90       | 01OCT12*    | 13FEB13      | 1,402       | 38,071.20     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 552-003                                 | 552 - System Testing -Testing                    | 65       | 14FEB13     | 15MAY13      | 1,402       | 144,099.44    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| <b>Machine Protection System (MPS)</b>  |  |          |             |              |             |               |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| MPS-101                                 | MPS -Prelim Dsn                                  | 140      | 02NOV09*    | 27MAY10      | 1,424       | 143,022.22    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| MPS-106                                 | MPS -Final Dsn                                   | 206      | 28MAY10     | 28MAR11      | 1,424       | 145,101.59    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| MPS-111                                 | MPS -Procurement                                 | 170      | 03OCT11*    | 07JUN12      | 1,293       | 393,360.00    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| MPS-116                                 | MPS -Installation                                | 278      | 08JUN12     | 16JUL13      | 1,293       | 401,466.06    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| MPS-121                                 | MPS -Test&Commission                             | 65       | 17JUL13     | 15OCT13      | 1,293       | 176,725.24    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| FY095000                                | FY09 Actual Cost                                 | 22*      | 01JAN09A    | 30SEP09A     |             | 385,771.00    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| Subtotal                                |  | 1,247    | 01JAN09A    | 12DEC13      | 1,251       | 8,766,528.28  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| <b>Job: 5501 - Coil Bus Runs</b>        |  |          |             |              |             |               |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 550100010                               | CDR  | 23       | 01OCT09*    | 02NOV09      | 1,681       | 0.00          |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 550100020                               | Design bus systems - Coil Bus Runs               | 141      | 03NOV09     | 01JUN10      | 1,941       | 96,958.20     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 550100030                               | Cad details and assemblies - Coil Bus Runs       | 141      | 03NOV09     | 01JUN10      | 1,681       | 36,999.00     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 550100040                               | CDR Chit Resolution - Prelim Dsgn - Coil Bus Run | 30       | 03NOV09*    | 16DEC09      | 2,142       | 0.00          |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 550100050                               | Update Cost /Sched Estimate - Coil Bus Runs      | 5        | 17DEC09     | 23DEC09      | 2,142       | 0.00          |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 550100060                               | PDR Prep - Coil Bus Runs                         | 105      | 04JAN10     | 28MAY10      | 2,142       | 0.00          |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 550100070                               | CONDUCT PDR - Coil Bus Runs                      | 1        | 01JUN10     | 01JUN10      | 2,111       | 0.00          |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 550100080                               | Complete Dsgn bus sys - Coil Bus Runs            | 200      | 02JUN10     | 22MAR11      | 1,941       | 98,360.28     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 550100090                               | Comp Cad details & assemblies - Coil Bus Runs    | 200      | 02JUN10     | 22MAR11      | 1,941       | 50,045.00     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 550100100                               | Bus Lorentz Forces/Supp Stress Analysis - CBR    | 200      | 02JUN10     | 22MAR11      | 1,681       | 27,201.74     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 550100110                               | PDR Chit Resolution - Final Dsgn - Coil Bus Run  | 30       | 03JAN11*    | 11FEB11      | 1,968       | 0.00          |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 550100120                               | Update Cost/Sched Estimate - Coil Bus Runs       | 3        | 09FEB11     | 11FEB11      | 1,968       | 0.00          |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 550100130                               | FDR Prep - Coil Bus Runs                         | 128      | 14SEP10     | 22MAR11      | 1,941       | 0.00          |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 550100140                               | CONDUCT FDR - Coil Bus Runs                      | 1        | 22MAR11     | 22MAR11      | 1,681       | 0.00          |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 550100150                               | Prep Req & Procuremnt Pckg - Coil Bus Runs       | 2        | 23MAR11     | 24MAR11      | 1,681       | 0.00          |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 550100160                               | Submit Req to Procurement - Coil Bus Runs        | 1        | 03OCT11*    | 03OCT11      | 1,548       | 0.00          |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 550100170                               | Procurement Lead Times - Coil Bus Runs           | 20       | 04OCT11     | 31OCT11      | 1,548       | 0.00          |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 550100180                               | Award - Coil Bus Runs                            | 1        | 01NOV11     | 01NOV11      | 1,548       | 0.00          |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 550100190                               | Copper - Coil Bus Runs                           | 96       | 02NOV11*    | 26MAR12      | 1,548       | 27,651.28     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |

| Activity ID   | Activity Description                             | Orig Dur | Early Start | Early Finish | Total Float | Budgeted Cost | FY   |      |      |      |      |      |  |  |  |
|---|--|----------|-------------|--------------|-------------|---------------|------|------|------|------|------|------|--|--|--|
|   |  |          |             |              |             |               | FY10 | FY11 | FY12 | FY13 | FY14 | FY15 |  |  |  |
| 550100200   | Insulation & epoxy - Coil Bus Runs               | 96       | 02NOV11*    | 26MAR12      | 1,688       | 14,451.28     |      |      |      |      |      |      |  |  |  |
| 550100210   | Hardware - Coil Bus Runs                         | 96       | 02NOV11*    | 26MAR12      | 1,688       | 7,851.28      |      |      |      |      |      |      |  |  |  |
| 550100220   | Braze material - Coil Bus Runs                   | 96       | 02NOV11*    | 26MAR12      | 1,688       | 2,571.28      |      |      |      |      |      |      |  |  |  |
| 550100230   | G-10/Phenolic - Coil Bus Runs                    | 96       | 02NOV11*    | 26MAR12      | 1,688       | 21,051.28     |      |      |      |      |      |      |  |  |  |
| 550100240   | Miscellaneous Material - Coil Bus Runs           | 96       | 02NOV11*    | 26MAR12      | 1,688       | 22,302.56     |      |      |      |      |      |      |  |  |  |
| 550100250   | TF air-cooled[From TC water fall to bottom mach) | 140      | 27MAR12     | 11OCT12      | 1,548       | 78,561.72     |      |      |      |      |      |      |  |  |  |
| 550100260   | OH Coax [Inside umbrella]                        | 140      | 27MAR12     | 11OCT12      | 1,548       | 52,769.84     |      |      |      |      |      |      |  |  |  |
| 550100270   | Reposition & terminate OH cable to bottom mach   | 140      | 27MAR12     | 11OCT12      | 1,548       | 18,532.39     |      |      |      |      |      |      |  |  |  |
| 550100280   | Inner PF coils [U/L PF1a, 1b and 1c]             | 140      | 27MAR12     | 11OCT12      | 1,548       | 74,704.72     |      |      |      |      |      |      |  |  |  |
| 550100290   | CHI/bakeout [Lower ring bus & ring to VV bus     | 140      | 27MAR12     | 11OCT12      | 1,548       | 72,250.42     |      |      |      |      |      |      |  |  |  |
| Subtotal  |  | 757      | 01OCT09     | 11OCT12      | 1,548       | 702,262.27    |      |      |      |      |      |      |  |  |  |
| <b>Job: 6100 - Control Sys &amp; Data Acquisition Sys</b> |  |          |             |              |             |               |      |      |      |      |      |      |  |  |  |
| 6100-003  | WBS Mgmt & Interfaces Coordination               | 664      | 01OCT09*    | 31MAY12      | 1,641       | 28,308.68     |      |      |      |      |      |      |  |  |  |
| 6100-013  | Conc dsn-Assess General Workscope                | 10       | 01OCT09*    | 14OCT09      | 2,285       | 2,215.68      |      |      |      |      |      |      |  |  |  |
| 6100-023  | Conc dsn-Draft System Documents                  | 10       | 15OCT09     | 28OCT09      | 2,285       | 3,323.52      |      |      |      |      |      |      |  |  |  |
| 6100-033  | Conc dsn-Pre-Analysis of Control System (PCS)    | 5        | 15OCT09     | 21OCT09      | 2,290       | 3,877.44      |      |      |      |      |      |      |  |  |  |
| 6100-043  | Conc dsn-Pre-Analysis of CAMAC upgrades          | 5        | 15OCT09     | 21OCT09      | 2,290       | 3,323.52      |      |      |      |      |      |      |  |  |  |
| 6100-053  | Conc dsn-Pre-Analysis of DAS for NSTX diag upgrd | 5        | 15OCT09     | 21OCT09      | 2,290       | 4,431.36      |      |      |      |      |      |      |  |  |  |
| 6100-063  | Conc dsn-Pre-Analysis of GIS rack move per WBS 1 | 5        | 15OCT09     | 21OCT09      | 2,290       | 3,026.56      |      |      |      |      |      |      |  |  |  |
| 6100-073  | Conc dsn-PPPL CDR prep                           | 5        | 20OCT09*    | 26OCT09      | 2,257       | 3,323.52      |      |      |      |      |      |      |  |  |  |
| 6100-083  | Conc dsn-Write System Documents                  | 10       | 27OCT09     | 09NOV09      | 2,257       | 3,323.52      |      |      |      |      |      |      |  |  |  |
| 6100-093  | Conc dsn-Update GRD                              | 20       | 10NOV09     | 09DEC09      | 2,257       | 1,107.84      |      |      |      |      |      |      |  |  |  |
| 6100-103  | Conc dsn-SC Review prep                          | 10       | 02DEC09*    | 15DEC09      | 1,906       | 5,539.20      |      |      |      |      |      |      |  |  |  |
| 6100-113  | Prel Dsn-Disposition SC Review & CDR Chits       | 20       | 16DEC09     | 21JAN10      | 1,906       | 1,384.80      |      |      |      |      |      |      |  |  |  |
| 6100-123  | Prel Dsn-Assess workscope changes                | 10       | 22JAN10     | 04FEB10      | 1,906       | 4,431.36      |      |      |      |      |      |      |  |  |  |
| 6100-133  | Prel Dsn-Analyze & proto PCS changes             | 20       | 05FEB10     | 04MAR10      | 2,203       | 8,308.80      |      |      |      |      |      |      |  |  |  |
| 6100-143  | Prel Dsn-Analyze CAMAC upgrades                  | 60       | 05FEB10     | 29APR10      | 2,163       | 4,134.40      |      |      |      |      |      |      |  |  |  |
| 6100-153  | Prel Dsn-Analyze Cntr Stk diags data acq         | 20       | 05FEB10     | 04MAR10      | 2,203       | 3,323.52      |      |      |      |      |      |      |  |  |  |
| 6100-163  | Prel Dsn-Analyze DAS for NSTX diags upgrades     | 30       | 05FEB10     | 18MAR10      | 2,193       | 5,539.20      |      |      |      |      |      |      |  |  |  |
| 6100-173  | Prel Dsn-Analyze NTC GIS rack moves per WBS 1.3. | 20       | 05FEB10     | 04MAR10      | 1,906       | 7,971.84      |      |      |      |      |      |      |  |  |  |
| 6100-183  | Prel Dsn-Update System documents                 | 10       | 05MAR10     | 18MAR10      | 1,906       | 3,323.52      |      |      |      |      |      |      |  |  |  |
| 6100-193  | Prel Dsn-PDR Prep                                | 5        | 17MAY10*    | 21MAY10      | 1,865       | 8,308.80      |      |      |      |      |      |      |  |  |  |
| 6100-203  | Fnl Dsn-Disposition PDR Chits                    | 30       | 24MAY10     | 06JUL10      | 1,865       | 1,384.80      |      |      |      |      |      |      |  |  |  |
| 6100-213  | Fnl Dsn-Assess workscope changes                 | 10       | 07MAR11*    | 18MAR11      | 1,701       | 4,543.04      |      |      |      |      |      |      |  |  |  |
| 6100-223  | Fnl Dsn-Delay design for NSTX run support        | 1        | 21MAR11*    | 21MAR11      | 1,701       | 141.97        |      |      |      |      |      |      |  |  |  |
| 6100-233  | Fnl Dsn-PCS Software design & proto              | 30       | 22MAR11     | 02MAY11      | 1,912       | 11,357.60     |      |      |      |      |      |      |  |  |  |
| 6100-243  | Fnl Dsn-CAMAC Memory PCB design                  | 30       | 22MAR11     | 02MAY11      | 1,912       | 7,654.30      |      |      |      |      |      |      |  |  |  |

| Activity ID | Activity Description                             | Orig Dur | Early Start | Early Finish | Total Float | Budgeted Cost | FY10 |  |  |  |  |  |  |  |  |  |  |  | FY11 |  |  |  |  |  |  |  |  |  |  |  | FY12 |  |  |  |  |  |  |  |  |  |  |  | FY13 |  |  |  |  |  |  |  |  |  |  |  | FY14 |  |  |  |  |  |  |  |  |  |  |  | FY15 |  |  |  |  |  |  |  |  |  |  |  |
|-------------|--|----------|-------------|--------------|-------------|---------------|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|
|             |  |          |             |              |             |               |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 6100-253    | Fnl Dsn-CAMAC Replacement design & proto         | 115      | 22MAR11     | 31AUG11      | 1,701       | 50,576.40     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 6100-263    | Fnl Dsn-Cntr Stk diags data acq design           | 10       | 22MAR11     | 04APR11      | 1,849       | 6,441.60      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 6100-273    | Fnl Dsn-DAS upgrade for NSTX diagnostics         | 55       | 22MAR11     | 07JUN11      | 1,804       | 3,407.28      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 6100-283    | Fnl Dsn-I&C effort due to NTC GIS rack move      | 55       | 22MAR11     | 07JUN11      | 1,804       | 8,172.64      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 6100-293    | Fnl Dsn-ECN & new drawings                       | 53       | 08JUN11     | 22AUG11      | 1,804       | 35,603.20     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 6100-303    | Fnl Dsn-Update System documents                  | 10       | 23AUG11     | 06SEP11      | 1,824       | 3,407.28      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 6100-313    | Fnl Dsn-FDR Prep                                 | 5        | 01SEP11*    | 08SEP11      | 1,701       | 8,518.20      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 6100-323    | Fnl Dsn-Disposition FDR Chits                    | 30       | 09SEP11     | 20OCT11      | 1,701       | 2,298.03      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 6100-333    | Fnl Dsn-Network Design                           | 30       | 23AUG11     | 04OCT11      | 1,804       | 6,438.62      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 6100-343    | Procure-Wait for I&C Procurement Start           | 1        | 21OCT11*    | 21OCT11      | 1,701       | 145.52        |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 6100-353    | Procure-CAMAC Replacement equipment              | 60       | 24OCT11     | 25JAN12      | 1,731       | 82,692.48     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 6100-363    | Procure-CAMAC Memory module                      | 90       | 24OCT11     | 07MAR12      | 1,701       | 24,840.16     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 6100-373    | Procure-Networking equipment & fiber optics      | 40       | 24OCT11     | 20DEC11      | 1,751       | 97,284.32     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 6100-383    | Procure-GIS rack-move I&C fiber optics & equip.  | 30       | 24OCT11     | 06DEC11      | 1,761       | 24,840.64     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 6100-393    | Fabr/Program-Wait for I&C Fabrication Start (per | 1        | 01JUN12*    | 01JUN12      | 1,470       | 145.52        |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 6100-403    | Fabr/Program-I&C Peer Review                     | 5        | 04JUN12     | 08JUN12      | 1,495       | 3,918.48      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 6100-413    | Fabr/Program-PCS Infrastructure code & debug     | 60       | 11JUN12     | 04SEP12      | 1,495       | 5,820.80      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 6100-423    | Fabr/Program-PSRTC code & debug                  | 30       | 05SEP12     | 16OCT12      | 1,545       | 11,758.08     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 6100-433    | Fabr/Program-Update PSRTC Simulation models      | 30       | 11JUN12     | 23JUL12      | 1,605       | 13,754.40     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 6100-443    | Fabr/Program-PCS code & debug                    | 30       | 05SEP12     | 16OCT12      | 1,495       | 5,879.04      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 6100-453    | Fabr/Program-CAMAC replacement - local software  | 90       | 04JUN12     | 09OCT12      | 1,470       | 17,496.37     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 6100-463    | Fabr/Program-CAMAC replacement - MDSplus changes | 20       | 10OCT12     | 06NOV12      | 1,470       | 5,966.40      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 6100-473    | Fabr/Program-Cntr Stk diags data acq changes     | 10       | 04JUN12     | 15JUN12      | 1,630       | 2,328.32      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 6100-483    | Fabr/Program-CAMAC Replacement systems fab.      | 60       | 04JUN12     | 27AUG12      | 1,580       | 12,210.80     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 6100-493    | Fabr/Program-CAMAC Memory module fab.            | 60       | 04JUN12     | 27AUG12      | 1,570       | 20,385.52     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 6100-503    | Fabr/Program-PCS - Support Transrex Firing Gener | 20       | 17OCT12     | 13NOV12      | 1,525       | 5,966.40      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 6100-513    | Fabr/Program-DAS programming for NSTX diags upgd | 60       | 07NOV12     | 08FEB13      | 1,470       | 3,579.84      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 6100-523    | Instl-Wait for I&C Installation Start (per NSTX  | 1        | 02JUL12*    | 02JUL12      | 1,529       | 145.52        |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 6100-533    | Instl-CAMAC Replacement systems install          | 60       | 03JUL12     | 26SEP12      | 1,529       | 21,315.04     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 6100-543    | Instl-CAMAC Memory install                       | 10       | 03JUL12     | 17JUL12      | 1,609       | 2,868.16      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 6100-553    | Instl-Networking equipment & fiber optics        | 60       | 03JUL12     | 26SEP12      | 1,529       | 29,922.32     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 6100-563    | Instl-install I&C Thermocouple equipment         | 5        | 03JUL12     | 10JUL12      | 1,609       | 2,868.16      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 6100-573    | Instl-Install I&C due to NTC GIS rack relocation | 60       | 03JUL12     | 26SEP12      | 1,549       | 33,449.36     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 6100-583    | Test-CS Infrastructure tests                     | 30       | 17OCT12     | 29NOV12      | 1,495       | 13,220.64     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 6100-593    | Test-PSRTC Simulation PTP-034                    | 5        | 30NOV12     | 06DEC12      | 1,510       | 12,795.52     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 6100-603    | Test-PSRTC PTP-035                               | 5        | 30NOV12     | 06DEC12      | 1,495       | 11,541.12     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |

| Activity ID  | Activity Description                     | Orig Dur | Early Start | Early Finish | Total Float | Budgeted Cost | FY10 |  |  |  |  |  |  |  |  |  |  |  | FY11 |  |  |  |  |  |  |  |  |  |  |  | FY12 |  |  |  |  |  |  |  |  |  |  |  | FY13 |  |  |  |  |  |  |  |  |  |  |  | FY14 |  |  |  |  |  |  |  |  |  |  |  | FY15 |  |  |  |  |  |  |  |  |  |  |  |
|--|--|----------|-------------|--------------|-------------|---------------|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|
|  |  |          |             |              |             |               |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 6100-613   | Test-PCS tesing                          | 10       | 07DEC12     | 20DEC12      | 1,495       | 5,966.40      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 6100-623   | Test-ISTP-001                            | 5        | 21DEC12     | 04JAN13      | 1,495       | 10,347.84     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 6100-633   | Test-CAMAC Replacement system tests      | 30       | 07NOV12     | 20DEC12      | 1,500       | 11,569.68     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 6100-643   | Test-CAMAC Memory bench tests            | 5        | 28AUG12     | 04SEP12      | 1,570       | 5,424.16      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 6100-653   | Test-CAMAC Memory field tests            | 5        | 05SEP12     | 11SEP12      | 1,570       | 3,720.16      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 6100-663   | Test-Cntr Stk diags testing              | 5        | 11JUL12     | 17JUL12      | 1,609       | 5,196.48      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 6100-673   | Test-test relocated I&C GIS rack systems | 5        | 27SEP12     | 03OCT12      | 1,549       | 13,186.32     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 6100-683   | Project Ready for ISTP Target            | 1        | 01FEB13*    | 01FEB13      | 1,475       | 149.16        |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| Subtotal   |  | 835      | 01OCT09     | 08FEB13      | 1,470       | 781,171.17    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| <b>Job: 7100 - Project Mgt &amp; Integration CSU &amp; NBI</b> |  |          |             |              |             |               |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS7000020  | FY2010 Project Management                | 245      | 01OCT09*    | 24SEP10      | 1,312       | 616,822.53    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS7000031  | FY2011 Project Management                | 249      | 01OCT10*    | 29SEP11      | 1,308       | 764,855.59    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS7000041  | FY2012 Project Management                | 249      | 03OCT11*    | 28SEP12      | 1,307       | 1,057,810.81  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS7000052  | ORA support                              | 43       | 01AUG13*    | 30SEP13      | 1,304       | 125,609.60    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| CS7000053  | FY2013 Project Management                | 250      | 01OCT12*    | 25SEP13      | 1,307       | 1,030,341.52  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| FY097100   | FY09 Actual Cost                         | 22*      | 01JAN09A    | 30SEP09A     |             | 625,829.00    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| Subtotal   |  | 1,194    | 01JAN09A    | 30SEP13      | 1,304       | 4,221,269.05  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| <b>Job: 7200 - Center Stack Management</b>                     |  |          |             |              |             |               |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 7200-01  | FY2010 CSU Management                    | 245      | 01OCT09*    | 24SEP10      | 2,060       | 364,511.70    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 7200-02  | FY2011 CSU Management                    | 245      | 01OCT10*    | 23SEP11      | 1,811       | 327,684.78    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 7200-03  | FY2012 CSU Management                    | 245      | 03OCT11*    | 24SEP12      | 1,561       | 321,362.88    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 7200-04  | FY2013 CSU Management                    | 245      | 01OCT12*    | 18SEP13      | 1,312       | 313,590.16    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| Subtotal   |  | 993      | 01OCT09     | 18SEP13      | 1,312       | 1,327,149.52  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| <b>Job: 7300 - NB2 Management</b>                              |  |          |             |              |             |               |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 7300-01  | FY2010 NB2 Management                    | 245      | 01OCT09*    | 24SEP10      | 2,060       | 176,880.59    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 7300-02  | FY2010 NB2 RLM's support of reviews      | 10       | 17MAY10*    | 28MAY10      | 2,142       | 78,116.80     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 7300-03  | FY2010 NB2 RLM's support of reviews      | 10       | 10JAN11*    | 21JAN11      | 1,983       | 80,080.00     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 7300-11  | FY2011 NB2 Management                    | 245      | 01OCT10*    | 23SEP11      | 1,811       | 181,332.82    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 7300-12  | FY2011 NB2 RLM's support of reviews      | 10       | 01JUN11*    | 14JUN11      | 1,882       | 80,080.00     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |

| Activity ID   | Activity Description                             | Orig Dur | Early Start | Early Finish | Total Float | Budgeted Cost | FY   |      |      |      |      |      |  |  |  |  |  |
|---|--|----------|-------------|--------------|-------------|---------------|------|------|------|------|------|------|--|--|--|--|--|
|   |  |          |             |              |             |               | FY10 | FY11 | FY12 | FY13 | FY14 | FY15 |  |  |  |  |  |
| 7300-13   | FY2011 NB2 RLM's support of reviews              | 10       | 09JAN12*    | 20JAN12      | 1,734       | 82,084.80     |      |      |      |      |      |      |  |  |  |  |  |
| 7300-21   | FY2012 NB2 Management                            | 245      | 03OCT11*    | 24SEP12      | 1,561       | 248,483.33    |      |      |      |      |      |      |  |  |  |  |  |
| 7300-22   | FY2012 NB2 RLM's support of reviews              | 10       | 01JUN12*    | 14JUN12      | 1,631       | 82,084.80     |      |      |      |      |      |      |  |  |  |  |  |
| 7300-23   | FY2012 NB2 RLM's support of reviews              | 10       | 15JAN13*    | 28JAN13      | 1,479       | 84,136.00     |      |      |      |      |      |      |  |  |  |  |  |
| 7300-31   | FY2013 NB2 Management                            | 245      | 01OCT12*    | 18SEP13      | 1,312       | 254,697.83    |      |      |      |      |      |      |  |  |  |  |  |
| 7300-32   | FY2013 NB2 RLM's support of reviews              | 10       | 03JUN13*    | 14JUN13      | 1,380       | 84,136.00     |      |      |      |      |      |      |  |  |  |  |  |
| 7300-33   | FY2013 NB2 RLM's support of reviews              | 10       | 15JAN14*    | 28JAN14      | 1,218       | 86,240.00     |      |      |      |      |      |      |  |  |  |  |  |
| FY092410  | FY09 Actual Cost                                 | 22*      | 01JAN09A    | 30SEP09A     |             | 63,263.00     |      |      |      |      |      |      |  |  |  |  |  |
| Subtotal  |  | 1,280    | 01JAN09A    | 28JAN14      | 1,218       | 1,581,615.97  |      |      |      |      |      |      |  |  |  |  |  |
| <b>Job: 7400 - Health Physics Support</b>                   |  |          |             |              |             |               |      |      |      |      |      |      |  |  |  |  |  |
| 740000100   | FY2010 NBI Decon HP Technical Support            | 249      | 01OCT09*    | 30SEP10      | 1,557       | 683,245.68    |      |      |      |      |      |      |  |  |  |  |  |
| 740000110   | FY2011 NBI Decon HP Technical Support            | 250      | 01OCT10*    | 30SEP11      | 1,557       | 696,286.04    |      |      |      |      |      |      |  |  |  |  |  |
| 740000115   | FY2011 EQ Removal & Relocation HP Technical Supp | 129      | 03JAN11*    | 01JUL11      | 1,869       | 380,174.40    |      |      |      |      |      |      |  |  |  |  |  |
| 740000120   | FY2012 NBI Decon HP Technical Support            | 249      | 03OCT11*    | 28SEP12      | 1,557       | 712,933.52    |      |      |      |      |      |      |  |  |  |  |  |
| 740000125   | FY2013 NBI Decon HP Technical Support            | 252      | 01OCT12*    | 27SEP13      | 1,305       | 365,463.10    |      |      |      |      |      |      |  |  |  |  |  |
| Subtotal  |  | 1,000    | 01OCT09     | 27SEP13      | 1,305       | 2,838,102.74  |      |      |      |      |      |      |  |  |  |  |  |
| <b>JOB: 7700 - NSTX Upgrade HP Allocations</b>              |  |          |             |              |             |               |      |      |      |      |      |      |  |  |  |  |  |
| CS9500070   | NSTX Upgrade HP Allocations FY10                 | 249      | 01OCT09*    | 30SEP10      | 2,056       | 474,000.00    |      |      |      |      |      |      |  |  |  |  |  |
| CS9500080   | NSTX Upgrade HP Allocations FY11                 | 250      | 01OCT10*    | 30SEP11      | 1,806       | 454,000.00    |      |      |      |      |      |      |  |  |  |  |  |
| CS9500090   | NSTX Upgrade HP Allocations FY12                 | 249      | 03OCT11*    | 28SEP12      | 1,557       | 454,000.00    |      |      |      |      |      |      |  |  |  |  |  |
| CS9500100   | NSTX Upgrade HP Allocations FY13                 | 253      | 01OCT12*    | 30SEP13      | 1,304       | 454,000.00    |      |      |      |      |      |      |  |  |  |  |  |
| Subtotal  |  | 1,001    | 01OCT09     | 30SEP13      | 1,304       | 1,836,000.00  |      |      |      |      |      |      |  |  |  |  |  |
| <b>Job: 7710 - Upgrade Allocations</b>                      |  |          |             |              |             |               |      |      |      |      |      |      |  |  |  |  |  |
| 7710-10   | NSTX Upgrade Direct Allocations FY10             | 249      | 01OCT09*    | 30SEP10      | 2,056       | 299,000.00    |      |      |      |      |      |      |  |  |  |  |  |
| 7710-11   | NSTX Upgrade Direct Allocations FY11             | 250      | 01OCT10*    | 30SEP11      | 1,806       | 31,000.00     |      |      |      |      |      |      |  |  |  |  |  |
| 7710-12   | NSTX Upgrade Direct Allocations FY12             | 249      | 03OCT11*    | 28SEP12      | 1,557       | 31,000.00     |      |      |      |      |      |      |  |  |  |  |  |
| 7710-13   | NSTX Upgrade Direct Allocations FY13             | 253      | 01OCT12*    | 30SEP13      | 1,304       | 31,000.00     |      |      |      |      |      |      |  |  |  |  |  |
| FY09NNUL  | FY09 Actual Cost                                 | 22*      | 01JAN09A    | 30SEP09A     |             | 158,969.00    |      |      |      |      |      |      |  |  |  |  |  |
| FY09NNUL8   | FY09 Actual Cost                                 | 22*      | 01JAN09A    | 30SEP09A     |             | 367,345.00    |      |      |      |      |      |      |  |  |  |  |  |
| Subtotal  |  | 1,194    | 01JAN09A    | 30SEP13      | 1,304       | 918,314.00    |      |      |      |      |      |      |  |  |  |  |  |
| <b>Job: 8200 - Centerstack &amp; Coil Structural Instal</b> |  |          |             |              |             |               |      |      |      |      |      |      |  |  |  |  |  |
| <b>Management &amp; Documentation</b>                       |  |          |             |              |             |               |      |      |      |      |      |      |  |  |  |  |  |
| 8200-024  | BEGIN UPGRADE OUTAGE                             | 0        |             | 29AUG11      | 185         | 0.00          |      |      |      |      |      |      |  |  |  |  |  |
| 8200-025  | Mobilize crews                                   | 0        |             | 29AUG11      | 1,429       | 0.00          |      |      |      |      |      |      |  |  |  |  |  |
| 8200-031  | Opening Duration                                 | 400      | 30AUG11*    | 08APR13      | 1,429       | 0.00          |      |      |      |      |      |      |  |  |  |  |  |
| 8200-037  | Shop Fabrication oversight 20% FTE for duration  | 400      | 30AUG11*    | 08APR13      | 1,429       | 107,294.19    |      |      |      |      |      |      |  |  |  |  |  |
| 8200-043  | Shop Fabrication support 1.5 FTE for duration    | 400      | 30AUG11     | 08APR13      | 1,429       | 599,941.32    |      |      |      |      |      |      |  |  |  |  |  |
| 8200-049  | Assembly oversight .75 FTE                       | 400      | 30AUG11     | 08APR13      | 1,429       | 402,353.22    |      |      |      |      |      |      |  |  |  |  |  |

| Activity ID               | Activity Description                          | Orig Dur | Early Start | Early Finish | Total Float | Budgeted Cost | FY10 |  |  |  |  |  |  |  |  |  |  |  | FY11 |  |  |  |  |  |  |  |  |  |  |  | FY12 |  |  |  |  |  |  |  |  |  |  |  | FY13 |  |  |  |  |  |  |  |  |  |  |  | FY14 |  |  |  |  |  |  |  |  |  |  |  | FY15 |  |  |  |  |  |  |  |  |  |  |  |
|---------------------------|---|----------|-------------|--------------|-------------|---------------|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|
|                           |   |          |             |              |             |               |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8200-055                  | OT for efficiency (2 crews 1 weekend a month) | 400      | 30AUG11     | 08APR13      | 1,429       | 79,992.18     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8200-061                  | MISC M&S \$250 per day* 2 crews * 75 weeks    | 400      | 30AUG11     | 08APR13      | 1,429       | 252,296.25    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8200-067                  | PREPARE WORK PLANNING FORM                    | 3        | 02NOV09*    | 04NOV09      | 2,260       | 3,804.00      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8200-073                  | Fab/AssyInstallation Procedure                | 20       | 01OCT10*    | 28OCT10      | 2,036       | 25,996.80     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| <b>Diagnostic Catalog</b> |   |          |             |              |             |               |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8200-079                  | Perform bay by bay catalogue and label Elect  | 130      | 02NOV09*    | 13MAY10      | 2,153       | 14,289.60     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8200-085                  | Perform bay by bay catalogue and label Mech   | 130      | 02NOV09*    | 13MAY10      | 2,063       | 14,289.60     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8200-091                  | Write removal procedures                      | 90       | 14MAY10     | 21SEP10      | 2,063       | 71,448.00     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8200-097                  | Remove RF pipes                               | 20       | 30AUG11     | 27SEP11      | 1,809       | 48,456.00     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8200-102                  | Write Removal & Installation Procedures       | 20       | 04OCT10*    | 29OCT10      | 1,995       | 12,208.00     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8200-103                  | Safe, remove and store Elect                  | 20       | 30AUG11     | 27SEP11      | 1,789       | 48,456.00     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8200-109                  | Upper Tray remove and store Elect             | 20       | 28SEP11     | 25OCT11      | 1,789       | 49,486.20     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8200-115                  | Remove and store Mech                         | 30       | 30AUG11     | 11OCT11      | 201         | 146,216.40    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8200-121                  | Remove section of platform                    | 10       | 30AUG11     | 13SEP11      | 185         | 48,456.00     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8200-127                  | Fiducialize Coil and Vacuum vessel            | 20       | 12OCT11     | 08NOV11      | 1,779       | 66,620.00     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| <b>Equipment Removal</b>  |   |          |             |              |             |               |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8200-133                  | Remove insulation                             | 15       | 30AUG11     | 20SEP11      | 1,780       | 36,342.00     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8200-138                  | Write removal procedures                      | 90       | 04OCT10*    | 16FEB11      | 323         | 73,248.00     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8200-139                  | Gas Injection System                          | 15       | 30AUG11     | 20SEP11      | 187         | 36,342.00     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8200-145                  | Disconnect trim coil and lock mode coil       | 8        | 12OCT11     | 21OCT11      | 201         | 19,867.20     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8200-151                  | Remove trim coil and lock mode coil           | 30       | 14SEP11     | 25OCT11      | 185         | 73,714.20     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8200-157                  | Clear platform and area to remove bad TF      | 10       | 21SEP11     | 04OCT11      | 1,780       | 24,349.20     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8200-163                  | Remove bad TF                                 | 5        | 21SEP11     | 27SEP11      | 187         | 24,228.00     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8200-169                  | Heating Manifolds cut and remove              | 6        | 21SEP11     | 28SEP11      | 1,808       | 61,323.60     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| <b>Upper Half</b>         |   |          |             |              |             |               |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8200-175                  | Umbrella Lid Remove existing                  | 1        | 28SEP11     | 28SEP11      | 1,787       | 7,425.60      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8200-181                  | Umbrella Lid Install New                      | 10       | 29SEP11     | 12OCT11      | 1,787       | 24,712.80     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8200-187                  | TF connection casting (modify)                | 12       | 05OCT11     | 20OCT11      | 1,780       | 36,400.80     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8200-193                  | TF Remove turnbuckles                         | 2        | 28SEP11     | 29SEP11      | 187         | 4,845.60      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8200-199                  | VV Trim existing pads                         | 12       | 24OCT11     | 08NOV11      | 201         | 29,800.80     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8200-205                  | VV Install New pads                           | 12       | 09NOV11     | 28NOV11      | 1,767       | 29,800.80     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8200-211                  | Design build lifting spiders                  | 90       | 01OCT10*    | 15FEB11      | 1,929       | 219,152.40    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8200-217                  | PF2 lift and support                          | 2        | 30SEP11     | 03OCT11      | 187         | 9,812.40      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8200-223                  | PF2 Remove existing hardware (bolted)         | 3        | 04OCT11     | 06OCT11      | 187         | 7,450.20      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8200-229                  | PF2 Install New plates (bolted)               | 8        | 07OCT11     | 18OCT11      | 187         | 19,867.20     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8200-235                  | PF2 weld new ribs                             | 18       | 19OCT11     | 11NOV11      | 1,758       | 44,701.20     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8200-241                  | PF3 remove bolted support                     | 4        | 26OCT11     | 31OCT11      | 185         | 9,933.60      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8200-247                  | PF3 Install new bolted support                | 12       | 07NOV11     | 22NOV11      | 1,769       | 29,800.80     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8200-253                  | PF4, 5 Remove existing midplane columns       | 4        | 07NOV11     | 10NOV11      | 187         | 49,533.60     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8200-259                  | PF4, 5 install support fixture                | 25       | 11NOV11     | 19DEC11      | 1,740       | 62,085.00     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8200-265                  | PF4, 5 lift and support                       | 12       | 11NOV11     | 30NOV11      | 187         | 59,601.60     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8200-271                  | PF4, 5 cut and grind existing ribs            | 20       | 01DEC11     | 05JAN12      | 187         | 49,668.00     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8200-277                  | PF4, 5 Install new bolted support             | 18       | 06JAN12     | 31JAN12      | 219         | 44,701.20     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |

| Activity ID  | Activity Description                            | Orig Dur | Early Start | Early Finish | Total Float | Budgeted Cost | FY10 |  | FY11 |  | FY12 |                           | FY13 |  | FY14 |  | FY15 |  |
|--|---|----------|-------------|--------------|-------------|---------------|------|--|------|--|------|---------------------------|------|--|------|--|------|--|
|  |   |          |             |              |             |               |      |  |      |  |      |                           |      |  |      |  |      |  |
| <b>Lower Half</b>                                  |   |          |             |              |             |               |      |  |      |  |      |                           |      |  |      |  |      |  |
| 8200-283   | Umbrella Lid Remove existing                    | 1        | 22FEB12     | 22FEB12      | 1,701       | 4,966.80      |      |  |      |  |      | 41=00 ; EM//SB =40 ;      |      |  |      |  |      |  |
| 8200-289   | Umbrella Lid Install New                        | 10       | 23FEB12     | 07MAR12      | 1,701       | 24,834.00     |      |  |      |  |      | 41=00 ; EM//SB =200 ;     |      |  |      |  |      |  |
| 8200-295   | TF connection casting (modify)                  | 12       | 21OCT11     | 07NOV11      | 1,780       | 29,800.80     |      |  |      |  |      | 41=00 ; EM//SB =240 ;     |      |  |      |  |      |  |
| 8200-301   | VV Trim existing pads                           | 12       | 09NOV11     | 28NOV11      | 1,755       | 29,800.80     |      |  |      |  |      | 41=00 ; EM//SB =240 ;     |      |  |      |  |      |  |
| 8200-307   | VV Install New pads                             | 12       | 29NOV11     | 14DEC11      | 1,755       | 29,800.80     |      |  |      |  |      | 41=00 ; EM//SB =240 ;     |      |  |      |  |      |  |
| 8200-313   | PF2 lower and support                           | 2        | 19OCT11     | 20OCT11      | 187         | 4,966.80      |      |  |      |  |      | 41=00 ; EM//SB =40 ;      |      |  |      |  |      |  |
| 8200-319   | PF2 Remove existing hardware (bolted)           | 3        | 21OCT11     | 25OCT11      | 187         | 7,450.20      |      |  |      |  |      | 41=00 ; EM//SB =60 ;      |      |  |      |  |      |  |
| 8200-325   | PF2 Install New plates (bolted)                 | 8        | 26OCT11     | 04NOV11      | 187         | 19,867.20     |      |  |      |  |      | 41=00 ; EM//SB =160 ;     |      |  |      |  |      |  |
| 8200-331   | PF2 weld new ribs                               | 18       | 14NOV11     | 09DEC11      | 1,758       | 44,701.20     |      |  |      |  |      | 41=00 ; EM//SB =360 ;     |      |  |      |  |      |  |
| 8200-337   | PF3 remove bolted support                       | 4        | 01NOV11     | 04NOV11      | 185         | 9,933.60      |      |  |      |  |      | 41=00 ; EM//SB =80 ;      |      |  |      |  |      |  |
| 8200-343   | PF3 Install new bolted support                  | 12       | 07NOV11     | 22NOV11      | 185         | 29,800.80     |      |  |      |  |      | 41=00 ; EM//SB =240 ;     |      |  |      |  |      |  |
| 8200-349   | PF4, 5 support fixture                          | 12       | 20DEC11     | 12JAN12      | 1,740       | 29,800.80     |      |  |      |  |      | 41=00 ; EM//SB =240 ;     |      |  |      |  |      |  |
| 8200-355   | PF4, 5 lower and support                        | 12       | 01DEC11     | 16DEC11      | 195         | 43,000.80     |      |  |      |  |      | 41=10,000 ; EM//SB =240 ; |      |  |      |  |      |  |
| 8200-361   | PF4, 5 cut and grind existing ribs              | 20       | 06JAN12     | 02FEB12      | 187         | 49,668.00     |      |  |      |  |      | 41=00 ; EM//SB =400 ;     |      |  |      |  |      |  |
| 8200-367   | PF4, 5 Install new bolted support               | 18       | 03FEB12     | 28FEB12      | 187         | 44,701.20     |      |  |      |  |      | 41=00 ; EM//SB =360 ;     |      |  |      |  |      |  |
| 8200-373   | PF4, 5 Install new midplane columns             | 12       | 29FEB12     | 15MAR12      | 187         | 43,000.80     |      |  |      |  |      | 41=10,000 ; EM//SB =240 ; |      |  |      |  |      |  |
| 8200-379   | TF Install New Coil                             | 5        | 16MAR12     | 22MAR12      | 187         | 90,834.00     |      |  |      |  |      | 41=50,000 ; EM//SB =200 ; |      |  |      |  |      |  |
| 8200-385   | Reinstall platform sections                     | 8        | 23MAR12     | 03APR12      | 234         | 39,734.40     |      |  |      |  |      | 41=00 ; EM//SB =320 ;     |      |  |      |  |      |  |
| <b>Cage Support</b>                                |   |          |             |              |             |               |      |  |      |  |      |                           |      |  |      |  |      |  |
| 8200-391   | Modify Existing support legs                    | 12       | 20JAN12     | 06FEB12      | 151         | 29,800.80     |      |  |      |  |      | 41=00 ; EM//SB =240 ;     |      |  |      |  |      |  |
| 8200-397   | Install new cage legs                           | 10       | 23MAR12     | 05APR12      | 118         | 24,834.00     |      |  |      |  |      | 41=00 ; EM//SB =200 ;     |      |  |      |  |      |  |
| 8200-403   | Grout (need 4 weeks for curing)                 | 5        | 06APR12     | 12APR12      | 118         | 12,417.00     |      |  |      |  |      | 41=00 ; EM//SB =100 ;     |      |  |      |  |      |  |
| 8200-409   | Install TF support ring                         | 24       | 13APR12     | 16MAY12      | 118         | 59,601.60     |      |  |      |  |      | 41=00 ; EM//SB =480 ;     |      |  |      |  |      |  |
| <b>Alignment Verification Coil &amp; Vac Vsl</b>   |   |          |             |              |             |               |      |  |      |  |      |                           |      |  |      |  |      |  |
| 8200-415   | Map internal targets to external                | 20       | 03OCT11*    | 28OCT11      | 188         | 66,620.00     |      |  |      |  |      | 41=00 ; EM//EM =400 ;     |      |  |      |  |      |  |
| 8200-421   | Verify Vessel Alignemnt targets                 | 20       | 31OCT11     | 29NOV11      | 188         | 66,620.00     |      |  |      |  |      | 41=00 ; EM//EM =400 ;     |      |  |      |  |      |  |
| 8200-427   | Verify Coil Alignment Targets                   | 45       | 30NOV11     | 08FEB12      | 188         | 149,895.00    |      |  |      |  |      | 41=00 ; EM//EM =900 ;     |      |  |      |  |      |  |
| 8200-433   | Adjust vessel Internals                         | 30       | 09FEB12     | 21MAR12      | 188         | 99,930.00     |      |  |      |  |      | 41=00 ; EM//EM =600 ;     |      |  |      |  |      |  |
| 8200-439   | Adjust TF Coils                                 | 10       | 17MAY12     | 31MAY12      | 148         | 33,310.00     |      |  |      |  |      | 41=00 ; EM//EM =200 ;     |      |  |      |  |      |  |
| 8200-445   | Adjust PF Coils                                 | 30       | 01JUN12     | 13JUL12      | 307         | 99,930.00     |      |  |      |  |      | 41=00 ; EM//EM =600 ;     |      |  |      |  |      |  |
| <b>Install PF1a,b,c, CHI, CS Tiles,cooling etc</b> |   |          |             |              |             |               |      |  |      |  |      |                           |      |  |      |  |      |  |
| 8200-499   | Fit and Install PF 1a, 1b, 1c U&L buswork       | 15       | 20FEB13     | 12MAR13      | 1           | 38,181.00     |      |  |      |  |      | 41=00 ; EM//SB =300 ;     |      |  |      |  |      |  |
| 8200-505   | Fit and Install OH U&L buswork                  | 5        | 13MAR13     | 19MAR13      | 1           | 12,727.00     |      |  |      |  |      | 41=00 ; EM//SB =100 ;     |      |  |      |  |      |  |
| 8200-511   | Install CHI & Ring bus                          | 8        | 20MAR13     | 29MAR13      | 1           | 20,363.20     |      |  |      |  |      | 41=00 ; EM//SB =160 ;     |      |  |      |  |      |  |
| 8200-517   | Install TF coil cooling system (72)             | 30       | 01APR13     | 10MAY13      | 1           | 76,362.00     |      |  |      |  |      | 41=00 ; EM//SB =600 ;     |      |  |      |  |      |  |
| 8200-523   | Install Inboard Divertor heating/cooling system | 15       | 13MAY13     | 31MAY13      | 1           | 38,181.00     |      |  |      |  |      | 41=00 ; EM//SB =300 ;     |      |  |      |  |      |  |
| 8200-529   | New TF air cooled bus and support system        | 25       | 03JUN13     | 05JUL13      | 1           | 63,635.00     |      |  |      |  |      | 41=00 ; EM//SB =500 ;     |      |  |      |  |      |  |
| 8200-535   | Install center stack edge tiles                 | 5        | 08JUL13     | 12JUL13      | 1           | 12,727.00     |      |  |      |  |      | 41=00 ; EM//SB =100 ;     |      |  |      |  |      |  |
| <b>Reinstall Equipment</b>                         |   |          |             |              |             |               |      |  |      |  |      |                           |      |  |      |  |      |  |
| 8200-541   | Reinstall trim coil and lock mode coil          | 30       | 04APR12     | 15MAY12      | 234         | 149,004.00    |      |  |      |  |      | 41=00 ; EM//SB =1,200 ;   |      |  |      |  |      |  |
| 8200-547   | Reinstall insulation                            | 30       | 16MAY12     | 27JUN12      | 234         | 74,502.00     |      |  |      |  |      | 41=00 ; EM//SB =600 ;     |      |  |      |  |      |  |
| 8200-553   | Gas Injection System                            | 25       | 28JUN12     | 02AUG12      | 234         | 124,170.00    |      |  |      |  |      | 41=00 ; EM//SB =1,000 ;   |      |  |      |  |      |  |



| Activity ID   | Activity Description                             | Orig Dur | Early Start | Early Finish | Total Float | Budgeted Cost | FY10 |  |  |  |  |  |  |  |  |  |  |  | FY11 |  |  |  |  |  |  |  |  |  |  |  | FY12 |  |  |  |  |  |  |  |  |  |  |  | FY13 |  |  |  |  |  |  |  |  |  |  |  | FY14 |  |  |  |  |  |  |  |  |  |  |  | FY15 |  |  |  |  |  |  |  |  |  |  |  |
|---|--|----------|-------------|--------------|-------------|---------------|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|
|   |  |          |             |              |             |               |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8200-559  | Reconnect trim coil and lock mode coil           | 11       | 03AUG12     | 17AUG12      | 234         | 49,668.00     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8200-565  | Platform areas reinstall                         | 10       | 14DEC12     | 04JAN13      | 176         | 50,908.00     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8200-571  | Heating Manifold Reinstall                       | 10       | 07JAN13     | 18JAN13      | 176         | 59,204.00     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8200-577  | Heating Manifold Weld and reconnect              | 5        | 21JAN13     | 25JAN13      | 176         | 12,727.00     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8200-583  | Reinstall RF pipes                               | 48       | 20AUG12     | 25OCT12      | 234         | 12,539.71     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| <b>Bay by Bay Diagnostics</b>                         |  |          |             |              |             |               |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8200-595  | Perform bay by bay review Elect                  | 2        | 01JUN12     | 04JUN12      | 148         | 6,256.40      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8200-601  | Perform bay by bay review Mech                   | 2        | 05JUN12     | 06JUN12      | 148         | 6,256.40      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8200-607  | Write reinstallation procedures                  | 10       | 07JUN12     | 20JUN12      | 148         | 31,282.00     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8200-613  | Reinstall Mech                                   | 40       | 21JUN12     | 16AUG12      | 148         | 158,937.60    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8200-619  | Reinstall Elect                                  | 40       | 17AUG12     | 12OCT12      | 148         | 99,956.00     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8200-625  | Testing  | 40       | 15OCT12     | 11DEC12      | 148         | 101,816.00    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| Subtotal  |  | 923      | 02NOV09     | 12JUL13      | 1,360       | 5,499,336.27  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| <b>Job: 8250 - Remove/Install Centerstack</b>         |  |          |             |              |             |               |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| <b>Remove Old Centerstack</b>                         |  |          |             |              |             |               |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8250-101  | Disconnect Hoses                                 | 1        | 17MAY12     | 17MAY12      | 118         | 4,331.92      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8250-105  | Remove umbrella lid (top and bottom)             | 1        | 18MAY12     | 18MAY12      | 118         | 4,331.92      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8250-109  | Remove flex bus (top and bottom)                 | 6        | 21MAY12     | 29MAY12      | 118         | 35,233.44     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8250-113  | Support lower support structure                  | 4        | 30MAY12     | 04JUN12      | 118         | 23,488.96     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8250-117  | lift old centerstack                             | 2        | 05JUN12     | 06JUN12      | 118         | 11,744.48     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8250-121  | Remove old centerstack pedestal                  | 5        | 07JUN12     | 13JUN12      | 118         | 30,321.60     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| <b>Install New Centerstack</b>                        |  |          |             |              |             |               |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8250-125  | Install new centerstack pedestal                 | 10       | 30NOV12     | 13DEC12      | 1           | 40,558.80     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8250-129  | Lift in new centerstack (2 times)                | 4        | 14DEC12     | 19DEC12      | 1           | 24,076.80     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8250-133  | Check vacuum seals                               | 5        | 20DEC12     | 03JAN13      | 1           | 18,254.40     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8250-137  | Install new flex bus (3 times w/2 re-machinings) | 27       | 04JAN13     | 11FEB13      | 1           | 165,218.40    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8250-141  | Install new umbrella (3 times w/2 re-machinings) | 6        | 12FEB13     | 19FEB13      | 1           | 36,115.20     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| <b>Close Vessel and Pumpdown</b>                      |  |          |             |              |             |               |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8250-145  | Clean, Photo, Close VV                           | 9        | 15JUL13     | 25JUL13      | 1           | 68,382.72     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8250-149  | Pumpdown   | 1        | 26JUL13     | 26JUL13      | 1           | 6,019.20      |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8250-153  | Leak check                                       | 12       | 29JUL13     | 13AUG13      | 1           | 72,230.40     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8250-157  | Setup for Bakeout                                | 5        | 14AUG13     | 20AUG13      | 1           | 30,096.00     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8250-161  | Rayleigh/Raman Scattering                        | 5        | 21AUG13     | 27AUG13      | 1           | 14,307.20     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8250-165  | Bakeout  | 16       | 28AUG13     | 18SEP13      | 1           | 121,569.28    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8250-169  | Recover from bakeout & scrub                     | 7        | 19SEP13     | 27SEP13      | 1           | 42,134.40     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 8250-173  | Ready for ISTP                                   | 0        |             | 27SEP13      | 1           | 0.00          |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| Subtotal  |  | 346      | 17MAY12     | 27SEP13      | 1           | 748,415.12    |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| <b>Job: 7900 - Integrated System Test</b>             |  |          |             |              |             |               |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| <b>Integrated System Testing (WBS 1.7 / Job 7900)</b> |  |          |             |              |             |               |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 7900-115  | Prepare NBI2 & CS ISTP Test Procedures           | 65       | 02JUL12*    | 02OCT12      | 211         | 20,001.36     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 7900-120  | Conduct ACC Review of Upgrades                   | 40       | 03OCT12     | 29NOV12      | 211         | 28,411.20     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |
| 7900-140  | Perform ISTP                                     | 15       | 30SEP13*    | 18OCT13      | 1           | 13,975.63     |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |

| Activity ID | Activity Description                     | Orig Dur | Early Start | Early Finish | Total Float | Budgeted Cost | FY10        |  |  |  |  |  |  |  |  |  |  |  | FY11        |  |  |  |  |  |  |  |  |  |  |  | FY12        |  |  |  |  |  |  |  |  |  |  |  | FY13         |  |  |  |  |  |  |  |  |  |  |  | FY14        |  |  |  |  |  |  |  |  |  |  |  | FY15        |  |  |  |  |  |  |  |  |  |  |  |
|-------------|--|----------|-------------|--------------|-------------|---------------|-------------|--|--|--|--|--|--|--|--|--|--|--|-------------|--|--|--|--|--|--|--|--|--|--|--|-------------|--|--|--|--|--|--|--|--|--|--|--|--------------|--|--|--|--|--|--|--|--|--|--|--|-------------|--|--|--|--|--|--|--|--|--|--|--|-------------|--|--|--|--|--|--|--|--|--|--|--|
|             |  |          |             |              |             |               |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |
| 7900-150    | Participate in cost and schedule reviews | 723      | 02NOV09*    | 25SEP12      | 1,560       | 6,504.61      | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  | EM//EM =40 ; |  |  |  |  |  |  |  |  |  |  |  | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  |
| 7900-999    | NSTX RESUME OPERATIONS                   | 0        |             | 18OCT13      | 1           | 0.00          | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  | EM//EM =00 ; |  |  |  |  |  |  |  |  |  |  |  | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  |
| Subtotal    |  | 993      | 02NOV09     | 18OCT13      | 1,290       | 68,892.80     | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  | [Gantt bar]  |  |  |  |  |  |  |  |  |  |  |  | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  | [Gantt bar] |  |  |  |  |  |  |  |  |  |  |  |