

| Activity ID                                      | Baseline Start | Baseline Finish | Total Float | Activity Description                             | FY03 |     |     |     |     |   |
|--------------------------------------------------|----------------|-----------------|-------------|--------------------------------------------------|------|-----|-----|-----|-----|---|
|                                                  |                |                 |             |                                                  | APR  | MAY | JUN | JUL | AUG | S |
| Job: 1101 - Limiter Adv Concep Design-GORANSON   |                |                 |             |                                                  |      |     |     |     |     |   |
| 111-2-01                                         | 01APR03*       | 30MAY03         | -9          | Update Concep Dsn for limiter                    |      |     |     |     |     |   |
| L4-035                                           | 06JAN03A       | 05MAY03         | -6          | Incorporate radiation shields in FW panels (if r |      |     |     |     |     |   |
| L4-036                                           | 06JAN03A       | 05MAY03         | -6          | Calculate bakeout heat loads on VV and in-vessel |      |     |     |     |     |   |
| L4-038                                           | 06MAY03*       | 12MAY03         | -6          | Perform design studies for CFC liner with divert |      |     |     |     |     |   |
| L4-039                                           | 02MAY03*       | 12MAY03         | -6          | Perform design studies for flowing Li divertor,  |      |     |     |     |     |   |
| Job: 1201 - Vacuum Vessel Dsn-GORANSON           |                |                 |             |                                                  |      |     |     |     |     |   |
| L4-003                                           | 16DEC02A       | 11APR03         | -10         | Define VV shell and FW geometry                  |      |     |     |     |     |   |
| L4-042                                           | 16DEC02A       | 09MAY03         | 0           | Establish final port geometry                    |      |     |     |     |     |   |
| L4-043                                           | 03FEB03A       | 30MAY03         | -9          | Develop design of bolted angled joint            |      |     |     |     |     |   |
| L4-044                                           | 30JUN03*       | 30JUL03         | -51         | Build geometric mock-up to demo feasibility      |      |     |     |     |     |   |
| L4-045                                           | 09MAY03*       | 30MAY03         | -34         | Establish feasibility of swiping vac seals       |      |     |     |     |     |   |
| L4-046                                           | 01MAY03*       | 09MAY03         | -20         | Resolve interference with VV supports            |      |     |     |     |     |   |
| L4-047                                           | 17FEB03A       | 15MAY03         | -24         | Establish envelopes & locations in vsl cmpnts    |      |     |     |     |     |   |
| L4-048                                           | 02JUN03*       | 13JUN03         | -34         | Establish port allocations                       |      |     |     |     |     |   |
| L4-049                                           | 16JUN03*       | 20JUN03         | -9          | Perform FMECA                                    |      |     |     |     |     |   |
| L4-052                                           | 23JUN03*       | 07JUL03         | -9          | Evaluate design versus performance reqmnts       |      |     |     |     |     |   |
| L4-053                                           | 16JUN03*       | 27JUN03         | -29         | Review and promote models/drawings               |      |     |     |     |     |   |
| L4-071                                           | 22JAN03A       | 05MAY03         | -1          | Calculate Heat leakage to cold mass              |      |     |     |     |     |   |
| L4-064                                           | 21APR03*       | 05MAY03         | -1          | Perform EM & Stress Analysis of VV               |      |     |     |     |     |   |
| L4-065                                           | 15APR03*       | 05MAY03         | -16         | Develop FEA model incl supports                  |      |     |     |     |     |   |
| L4-066                                           | 06MAY03*       | 12MAY03         | -16         | Calc. buckling FOS &stresses under atmo          |      |     |     |     |     |   |
| L4-067                                           | 06MAY03*       | 12MAY03         | -16         | Calculate disruption loads                       |      |     |     |     |     |   |
| L4-068                                           | 13MAY03*       | 27MAY03         | -16         | Calculate stresses under combined loads          |      |     |     |     |     |   |
| L4-055                                           | 16MAY03*       | 30MAY03         | -9          | Prepare Scope sheet items PFC's (WBS 12/11)      |      |     |     |     |     |   |
| L4-056                                           | 28MAY03*       | 10JUN03         | -16         | Prepare Scope sheet items (WBS 12/14)            |      |     |     |     |     |   |
| L4-057                                           | 16JUN03*       | 20JUN03         | -24         | Prepare Scope sheet items 12/21-23               |      |     |     |     |     |   |
| L4-060                                           | 16JUN03*       | 07JUL03         | -34         | Prepare Scope sheet items diag (WBS 12/3)        |      |     |     |     |     |   |
| L4-061                                           | 12MAY03*       | 16MAY03         | 0           | Prepare Scope sheet item grounding (WBS 12/4)    |      |     |     |     |     |   |
| L4-063                                           | 12MAY03*       | 16MAY03         | 0           | Prepare Scope sheet VV Htg/Cling (WBS 12/6)      |      |     |     |     |     |   |
| 125-1-1                                          | 01APR03*       | 02JUN03         | -10         | Sensor specification,locations,interface w/vv    |      |     |     |     |     |   |
| L4-079                                           | 27MAY03*       | 02JUN03         | -10         | Finalize budgetary cost and schedule (WBS 12     |      |     |     |     |     |   |
| 121-4-15                                         | 31JUL03        | 04SEP03         | -51         | PDR Preparation                                  |      |     |     |     |     |   |
| 125-1-PDR                                        |                | 04SEP03*        | -51         | Vacuum Vessel/Modular Coil Prel Dsn Review *PDR* |      |     |     |     |     |   |
| 123-1-1                                          | 19DEC02A       | 09MAY03         | 0           | Schematics and CAD assembly drawing of piping    |      |     |     |     |     |   |
| 123-1-2                                          | 19DEC02A       | 09MAY03         | 0           | Flow analysis                                    |      |     |     |     |     |   |
| Job: 1202 - Vacuum Vessel R&D-GORANSON           |                |                 |             |                                                  |      |     |     |     |     |   |
| 121-5-16                                         | 03FEB03A       | 08APR03         | -7          | Evaluate Proposals                               |      |     |     |     |     |   |
| 121-5-18                                         | 09APR03        | 11APR03         | -7          | Finalize Contract                                |      |     |     |     |     |   |
| 121-5-19                                         | 11APR03*       | 11APR03         | -7          | DOE Approval                                     |      |     |     |     |     |   |
| 121-5-25                                         |                | 16APR03*        | -10         | Award 2 VV R&D ContractS                         |      |     |     |     |     |   |
| L4-076                                           | 17APR03*       | 23MAY03         | -5          | Report on mfg methods sow 3.1.1                  |      |     |     |     |     |   |
| L4-077                                           | 17APR03        | 23MAY03         | -5          | Preliminary MIT and QA Plans for VVSA sow 3.1.3  |      |     |     |     |     |   |
| L4-077.1                                         | 17APR03        | 23MAY03         | -10         | Budgetary and cost estimates sow 3.1.4           |      |     |     |     |     |   |
| Job: 1401 - Mod Coil Dsn -WILLIAMSON             |                |                 |             |                                                  |      |     |     |     |     |   |
| 140-5-12                                         | 22JAN03A       | 09APR03         | -3          | Develop detailed ProE models winding packs&leads |      |     |     |     |     |   |
| L4-097                                           | 24FEB03A       | 09APR03         | -8          | Develop detailed ProE models clamps&cooling sys  |      |     |     |     |     |   |
| 140-1-02                                         | 16DEC02A       | 09APR03         | -19         | Revise ProE conceptual-level models              |      |     |     |     |     |   |
| 140-5-4                                          | 10APR03*       | 15MAY03         | -19         | Procure STL models for asm verification          |      |     |     |     |     |   |
| 140-5-3                                          | 28MAY03*       | 09JUL03         | -11         | Prepare MCC Design Review Documentation          |      |     |     |     |     |   |
| L4-014                                           | 22JAN03A       | 21APR03         | -1          | Define geometry of SLA model                     |      |     |     |     |     |   |
| L4-015                                           | 22APR03*       | 21APR03         | -1          | Order/fabricate model                            |      |     |     |     |     |   |
| Job:1404-Mod Coil Winding Form R&D-HEITZENROEDER |                |                 |             |                                                  |      |     |     |     |     |   |
| 142-1-10                                         | 01APR03        | 14APR03         | -11         | Proj UpdateTech Pkg (remove cladding)            |      |     |     |     |     |   |
| 142-10.1                                         | 01APR03*       | 31MAR03         | -1          | Proj UpdateTech Pkg (M50 coils,cooling,VPI)      |      |     |     |     |     |   |
| 142-1-2A                                         | 15MAR03A       | 27MAY03         | -11         | Phase I -MIT Plan/cost for produc articles EIO   |      |     |     |     |     |   |
| 142-1-2B                                         | 14MAR03A       | 23MAY03         | -10         | Phase I -MIT Plan/cost prod articles JP Pattern  |      |     |     |     |     |   |
| Job: 1801 - Field Period Assly Dsn-CHRZANOWSKI   |                |                 |             |                                                  |      |     |     |     |     |   |
| 185-1-1                                          | 01APR03        | 28APR03         | -6          | Revised conceptual plan for field period assembl |      |     |     |     |     |   |
| L4-016                                           | 31MAR03A       | 02MAY03         | -10         | Develop concept of tooling and assembly features |      |     |     |     |     |   |
| L4-017                                           | 05MAY03*       | 23MAY03         | -10         | Document procedure for FP assembly, conduct revi |      |     |     |     |     |   |
| L4-019                                           | 22APR03*       | 12MAY03         | -1          | Document procedure for final assembly, conduct r |      |     |     |     |     |   |
| Job: 1901 - Stellarator Core Mngt&Integr-NELSON  |                |                 |             |                                                  |      |     |     |     |     |   |
| L4-025                                           | 15APR03*       | 01MAY03         | -6          | Perform initial divertor (edge modeling) studies |      |     |     |     |     |   |
| L4-054                                           | 02JAN03A       | 14MAY03         | 2           | Develop Interfaces                               |      |     |     |     |     |   |