

**NCSX June 2007 ETC
TABLE I - DESIGN LABOR**

| | | | | | | | | | | | |
|---|-----|----------------|------------|----------|-----------|----------|-----------|-----------|----------|---|--|
| WBS Number: 36 | | | | | | | | | | | |
| WBS Title: Edge & Divertor Diagnostic Systems | | | | | | | | | | | |
| Job Number: 3601 | | | | | | | | | | | |
| Job Title: Edge & Divertor Diagnostic Systems | | | | | | | | | | | |
| Job Manager: Brent Stratton | | | | | | | | | | | |
| | | | | | | | | | | | |
| Description: Visible TV camera wide angle view along one field period to show plasma shape. Will borrow camera from NSTX. Location will be one of the blanked-off neutral beam ports. Need to install an angled tube and 8" Conflat flange on NB port. Need to design and fabricate holder for camera. Will use same camera and window for e-beam mapping (WBS 38). | | | | | | | | | | | |
| | | \$ | Labor Hour | | | | | | | Basis of Estimate | |
| | M&S | | EMEM | EMSM | EMTB | EEEM | EETB | EADM | RM2 | | |
| Task Description | | | | | | | | | | | |
| Design System - angled port design for line-of-sight | | | | | | | | 80 | | Based on similar designs for NSTX (much more complicated on NSTX) | |
| Fabricate angled view port | | | | | 8 | | 16 | | | Based on similar designs for NSTX - modified for NCSX design - estimate from Construction Manager | |
| Fabricate Camera Mount | | | | | 40 | | | | | Based on similar designs for NSTX | |
| Install System | | | | | 40 | | | | | Based on similar designs for NSTX | |
| Engineering Oversight | | | 40 | | | | | | | Based on similar designs for NSTX | |
| Materials | | | | | | | | | | | |
| Window | | \$2,500 | | | | | | | | Based on catalogue price from vendor - See Table V | |
| Misc Material/parts | | \$1,000 | | | | | | | | Based on experiences on NSTX | |
| TOTAL | | \$3,500 | 40 | 0 | 88 | 0 | 16 | 80 | 0 | | |