| NATIONAL COMPACT STELLARATOR PROJECT   |                                |  |           |
|--|--------------------------------|--|-----------|
| <b>Engineering Change Proposal (ECP)</b>   |                                |  |           |
| COVER PAGE   |                                |  |           |
| (TO BE COMPLETED BY SYSTEMS ENGINEERING SUPPORT MANAGER)   |                                |  |           |
| Originator: Bob Simmons  |                                | Date: January 14, 2005                           |           |
| ECP No: 020  |                                | EUP THE: RESOLUTION OF MUWF QUESTIONS (Dec-2004) |           |
| <u>Required Reviewers</u>  |                                |  |           |
| Required Reviewers for this ECP:<br>W. Reiersen  |                                |  |           |
| ECP Approval Level   |                                |  |           |
| Expedited ECP? Yes No  |                                |  |           |
| Change Level: 3 Project  |                                |  |           |
| Approving Official: 3a Expedited ECP - Engineering Manager   |                                |  |           |
| <ul> <li>Revise Specification (NCSX-CSPEC-141-03)</li> <li>Revise identified drawings and models as per the attached ECN-4944 dated January 4, 2005.</li> <li>Provide contract amendment to reflect the above changes</li> </ul> |                                |  |           |
| APPROVALS<br>(TO BE COMPLETED BY APPROVING OFFICIALS)  |                                |  |           |
| Change Level   | Approving<br>Official          | g Approval?                                      | Signature |
| 3  | NCSX Proje<br>Manager          | ect Yes No                                       |           |
| 3a<br>(Expedited ECP)  | NCSX<br>Engineering<br>Manager | g Yes No   |           |
| 2  | NCSX Feder<br>Project Direc    | ral Yes No                                       |           |
| 1  | Associate<br>Director OFI      | ES Yes No  |           |
| 0  | Under Secreta<br>of Energy     | ary Yes No                                       |           |

| NATIONAL COMPACT STELLARATOR PROJECT   |  |  |  |
|--|--|--|--|
| <b>Engineering Change Proposal (ECP)</b>   |  |  |  |
| PART I   |  |  |  |
| (TO BE COMPLETED BY ORIGINATOR)  |  |  |  |
| Originator: Bob Simmons Date: January 14, 2005<br>Overview of Change   |  |  |  |
| Type of ECP: X EXPEDITED STANDARD  |  |  |  |
| Type of Change: 🛛 TECHNICAL 🗌 COST 🗌 SCHEDULE 🗌 EDITORIAL  |  |  |  |
| (Check all that Apply)   |  |  |  |
| <b>Reason for Change:</b> Supplier identified several issues and inconsistencies between the pdf drawings and models requiring clarification to preclude unnecessary delays and cost/schedule growth. This ECP-020 addresses the project response to the questions raised by Major Tool. EIO e-mail dated 12/10/2004 (Attachment 1) summarized these issues. |  |  |  |
| Impacted WBS Elements: WBS 141   |  |  |  |
| <b>Impacts of Change (Briefly Describe):</b> E-mail from Dave Williamson dated December 15, 2004 (part of Attachment 2) details project response to these questions. ECN # 4944 (Attachment 3) identifies impacted drawings and models. Specification NCSX-CSPEC-141-03 will have to be revised also to reflect updated CAD file listing.                    |  |  |  |
| <b>Assessment of Other Options:</b> None. Processing a normal ECP had the potential to adversely impact the technical, cost, and schedule performance of this subcontract.   |  |  |  |
| Attachments:<br>(1) EIO E-mail of December 10, 2004 with Major Tool Questions<br>(2) Project Response to the Questions (forwarded by Dave Williamson e-mail of December 15 <sup>th</sup> )<br>(3) ECN-4944   |  |  |  |