**CLASSIFICATION (When Filled In)**

**CONTRACT PERFORMANCE REPORT**
**FORMAT 5 - Explanations and Problem Analysis**

**FORM APPROVED**
**OMB No. 0704-0188**

| 1. CONTRACTOR | 2. CONTRACT | | 3. PROGRAM | 4. REPORT PERIOD |
|---|---|---|---|---|
| a. NAME<br>Princeton University-Plasma Physics Lab | a. NAME<br>DOE-SC-OFES-NSTX Upgrade | | a. NAME<br>NSTX Upgrade Project | a. FROM (YYYYMMDD)<br>2013 / 06 / 01 |
| b. LOCATION (Address and ZIP Code)<br>Princeton, New Jersey | b. NUMBER<br>DE-AC02-09CH11466 | | b. PHASE<br>CD-3 | b. TO (YYYYMMDD)<br>2013 / 06 / 30 |
| | c. TYPE<br>M&O | d. SHARE RATIO | c. EVMS ACCEPTANCE<br>No X Yes (YYYYMMDI 2011 / 12 / 20 | |

**5. Evaluation**

**1.4 / 4500 MPTS VV Modification**

| | Budget | Earned | Actuals | SV in $ | SV in % | CV in $ | CV in % | SPI | CPI |
|---|---|---|---|---|---|---|---|---|---|
| Current: | 2 | 4 | 12 | 2 | 83% | -7 | -177% | 1.83 | 0.36 |
| Cumulative: | 1,125 | 973 | 1,351 | -152 | -14% | -378 | -39% | 0.86 | 0.72 |
| | **BAC** | **EAC** | **VAC in $** | **VAC in %** | **TCPI to BAC** | **TCPI to EAC** | | | |
| At Complete: | 1,137 | 1,648 | -511 | -45% | - | 0.55 | | | |

**Explanation of Variance/Description of Problem:**
MPTS has been impacted by slow drafting computers, slow conversion of models to drawings, shifts of welding resources to machine work, limited resources for fabrication of tooling, and the Open House. Increases of costs due to drafting time are unrecoverable. Delays in schedule are unrecoverable. Shifts in priorities delayed testing in the braze shop. Inefficiencies due to computers resulted in large increases in drafting time and therefore costs. Additional test cell technician ime required for fitup, tooling, alignment, and welding.

**Impact:**
Cost increases incurred from added drafting time and in some cases added field work. Schedule delays propogated through job.

Continues to spend above budget . A bottoms-up EAC will be prepared to ascertain the expected completion cost and when field work will be completed. R Strykowsky 7/30/2013

**Corrective Action:**
Shop has made every effort to continue on both Bay F/G, Bay L, and small part fabrication. Therefore the vacuum interface components will likely not delay first pumpdown for leakcheck at the end of the year. Drafting computer has been improved with faster unit. This willhelp the EX-vessel job.

**Monthly Summary (to include technical causes of VARs, Impacts) and Corrective Action(s):**
MPTS VV has made significant progress toward project goals. Ex-VV MPTS work is in progress and is complete enough to ensure that VV work will be acceptable. Inefficiencies and delays increased job cost and delayed schedule.

**Prepared by:** George Labik Digitally signed by George Labik DN: cn=George Labik, o, ou, email=glabik@pppl.gov, c=US Date: 2013.07.23 09:43:08 -04'00'

**Date:**

**Approved by:** Ron Strykowsky Digitally signed by Ron Strykowsky DN: cn=Ron Strykowsky, o, ou=PPPL, email=rstrykow@pppl.gov, c=US Date: 2013.07.30 09:55:09 -04'00'

**Date:**