

| CONTRACT PERFORMANCE REPORT FORMAT 1 - WORK BREAKDOWN STRUCTURE | | | | | | | | | | | | | | FORM APPROVED OMB No. 0704-0188 | | | | | | | |
|--|--------------------|---|--------------------------------|-------------------------------------|--------------------|---------------------|--|--|--|-----------|---------------------|--------------------------------------|-----------------------------|------------------------------------|----------------|---------------|--|--|--|--|--|
| DOLLARS IN Thousands of \$ | | | | | | | | | | | | | | | | | | | | | |
| 1. CONTRACTOR | | | | 2. CONTRACT | | | | 3. PROGRAM | | | | 4. REPORT PERIOD | | | | | | | | | |
| a. NAME Princeton University-Plasma Physics Lab | | | | a. NAME DOE-SC-OFES-NSTX Upgrade | | | | a. NAME NSTX Upgrade Project | | | | a. FROM (YYYYMMDD) 2012 / 03 / 01 | | | | | | | | | |
| b. LOCATION (Address and ZIP Code) Princeton, New Jersey | | | | b. NUMBER DE-AC02-09CH11466 | | | | b. PHASE CD-3 | | | | b. TO (YYYYMMDD) 2012 / 03 / 31 | | | | | | | | | |
| | | | | c. TYPE M&O | | | | c. EVMS ACCEPTANCE NO X YES (YYYYMMDD) 2011 / 12 / 20 | | | | | | | | | | | | | |
| 5. CONTRACT DATA | | | | | | | | | | | | | | | | | | | | | |
| a. QUANTITY | b. NEGOTIATED COST | c. ESTIMATED COST OF AUTHORIZED UNPRICED WORK | d. TARGET PROFIT/FEE | e. TARGET PRICE | f. ESTIMATED PRICE | g. CONTRACT CEILING | h. ESTIMATED CONTRACT CEILING | i. DATE OF OTB/OTS (YYYYMMDD) | | | | | | | | | | | | | |
| 1 | 78,941 | 0 | 0 | 78,941 | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 6. ESTIMATED COST AT COMPLETION | | | | | | | 7. AUTHORIZED CONTRACTOR REPRESENTATIVE | | | | | | | | | | | | | | |
| MANAGEMENT ESTIMATE AT COMPLETION (1) | | | CONTRACT BUDGET BASE (2) | | | VARIANCE (3) | | | a. NAME (Last, First, Middle Initial) Ronald Strykowski | | | | b. TITLE Project Manager | | | | | | | | |
| a. BEST CASE | | | 0 | | | | | | c. SIGNATURE | | | | d. DATE SIGNED (YYYYMMDD) | | | | | | | | |
| b. WORST CASE | | | 0 | | | | | | | | | | | | | | | | | | |
| c. MOST LIKELY | | | 0 | | | 78,941 | | | 78,941 | | | | | | | | | | | | |
| 8. PERFORMANCE DATA | | | | | | | | | | | | | | | | | | | | | |
| WBS ITEM (1) | CURRENT PERIOD | | | | | | CUMULATIVE TO DATE | | | | | | REPROGRAMMING ADJUSTMENTS | | | AT COMPLETION | | | | | |
| | BUDGETED COST | | ACTUAL COST WORK PERFORMED (4) | VARIANCE | | BUDGETED COST | | ACTUAL COST WORK PERFORMED (9) | VARIANCE | | COST VARIANCE (12a) | SCHEDULE VARIANCE (12b) | BUDGET (13) | BUDGETED (14) | ESTIMATED (15) | VARIANCE (16) | | | | | |
| | WORK SCHEDULED (2) | WORK PERFORMED (3) | | SCHEDULE (5) | COST (6) | WORK SCHEDULED (7) | WORK PERFORMED (8) | | SCHEDULE (10) | COST (11) | | | | | | | | | | | |
| 1.1 Torus Systems | 357 | 479 | 852 | 121 | -374 | 10,266 | 10,433 | 11,518 | 167 | -1,085 | 0 | 0 | 0 | 19,662 | 21,042 | -1,380 | | | | | |
| 1.2 Plasma Heating and Current I | 331 | 1,033 | 583 | 701 | 449 | 6,100 | 8,385 | 7,320 | 2,285 | 1,064 | 0 | 0 | 0 | 23,218 | 22,645 | 573 | | | | | |
| 1.3 Auxiliary Systems | 0 | 0 | 39 | 0 | -39 | 120 | 162 | 108 | 42 | 54 | 0 | 0 | 0 | 377 | 349 | 27 | | | | | |
| 1.4 Plasma Diagnostics | 30 | 11 | 31 | -18 | -20 | 957 | 946 | 1,091 | -11 | -145 | 0 | 0 | 0 | 1,785 | 2,049 | -264 | | | | | |
| 1.5 Power Systems | 130 | 61 | 117 | -69 | -56 | 2,800 | 2,672 | 2,673 | -128 | -1 | 0 | 0 | 0 | 9,360 | 10,543 | -1,182 | | | | | |
| 1.6 Central Instrumentation & Co | 1 | 17 | 29 | 17 | -12 | 122 | 209 | 213 | 88 | -3 | 0 | 0 | 0 | 918 | 942 | -24 | | | | | |
| 1.7 Project Support & Integration | 223 | 223 | 293 | 0 | -70 | 7,050 | 6,997 | 6,771 | -54 | 226 | 0 | 0 | 0 | 14,885 | 14,937 | -52 | | | | | |
| 1.8 Site Preparation and Torus As | 427 | 277 | 321 | -150 | -44 | 1,657 | 1,918 | 1,722 | 261 | 197 | 0 | 0 | 0 | 8,736 | 9,320 | -584 | | | | | |
| b. COST OF MONEY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| c. GENERAL AND ADMINISTRATIVE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| d. UNDISTRIBUTED BUDGET | 0 | | | | | | | | | | | | | | | | | | | | |
| e. SUBTOTAL | 1,499 | 2,100 | 2,267 | 602 | -167 | 29,071 | 31,722 | 31,415 | 2,651 | 307 | 0 | 0 | 0 | 78,941 | 81,826 | -2,885 | | | | | |
| f. MANAGEMENT RESERVE | 0 | | | | | | | | | | | | | | | | | | | | |
| g. TOTAL | 1,499 | 2,100 | 2,267 | 602 | -167 | 29,071 | 31,722 | 31,415 | 2,651 | 307 | 0 | 0 | 0 | 78,941 | 81,826 | -2,885 | | | | | |
| 9. RECONCILIATION TO CONTRACT BUDGET BASELINE | | | | | | | | | | | | | | | | | | | | | |
| a. VARIANCE ADJUSTMENT | | | | | | | | | | | | | | | | | | | | | |
| b. TOTAL CONTRACT VARIANCE | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | 2,651 | 307 | | | | 78,941 | 81,826 | -2,885 | | | | | |

| CONTRACT PERFORMANCE REPORT | | | | | | | | | | | | | | FORM APPROVED | | | | | |
|---|--------------------|--------------------|--------------------------------|-------------------------------------|----------|--------------------|--------------------|---|---------------|-----------|---------------------|--------------------------------|---------------------------|---------------|----------------|-----------------|--|-------------------|--|
| FORMAT 2 - ORGANIZATIONAL CATEGORIES | | | | | | | | | | | | | | DOLLARS IN | | Thousands of \$ | | OMB No. 0704-0188 | |
| 1. CONTRACTOR | | | | 2. CONTRACT | | | | 3. PROGRAM | | | | 4. REPORT PERIOD | | | | | | | |
| a. NAME Princeton University-Plasma Physics Lab | | | | a. NAME DOE-SC-OFFS-NSTX Upgrade | | | | a. NAME NSTX Upgrade Project | | | | a. FROM (YYYYMMDD) 3/1/2012 | | | | | | | |
| b. LOCATION (Address and ZIP Code) Princeton, New Jersey | | | | b. NUMBER DE-AC02-09CH11466 | | | | b. PHASE CD-3 | | | | b. TO (YYYYMMDD) 3/31/2012 | | | | | | | |
| c. TYPE M&O | | | | d. SHARE RATIO | | | | c. EVMS ACCEPTANCE NO <input type="checkbox"/> X <input checked="" type="checkbox"/> YES (YYYYMMDD) 2011 / 12 / 20 | | | | | | | | | | | |
| 5. PERFORMANCE DATA | | | | | | | | | | | | | | | | | | | |
| OBS ITEM (1) | CURRENT PERIOD | | | | | | CUMULATIVE TO DATE | | | | | | REPROGRAMMING ADJUSTMENTS | | | AT COMPLETION | | | |
| | BUDGETED COST | | ACTUAL COST WORK PERFORMED (4) | VARIANCE | | BUDGETED COST | | ACTUAL COST WORK PERFORMED (9) | VARIANCE | | COST VARIANCE (12a) | SCHEDULE VARIANCE (12b) | BUDGET (13) | BUDGETED (14) | ESTIMATED (15) | VARIANCE (16) | | | |
| | WORK SCHEDULED (2) | WORK PERFORMED (3) | | SCHEDULE (5) | COST (6) | WORK SCHEDULED (7) | WORK PERFORMED (8) | | SCHEDULE (10) | COST (11) | | | | | | | | | |
| 1000 CSU Analytical Support (Dudek) | \$4.88 | \$4.88 | \$61.06 | 0 | -56 | 236 | 236 | 266 | 0 | -30 | 0 | 0 | 385 | 853 | -469 | | | | |
| 1001 CS Plasma Facing Components (Tresemer) | \$17.35 | \$93.17 | \$2.85 | 76 | 90 | 982 | 991 | 832 | 10 | 159 | 0 | 0 | 1,924 | 1,818 | 105 | | | | |
| 1002 Passive Plate Analysis & Upgrade (Atnafu) | \$64.00 | \$16.95 | \$4.52 | -47 | 12 | 368 | 337 | 348 | -30 | -11 | 0 | 0 | 429 | 440 | -11 | | | | |
| 1200 Structures & Supports (Smith) | \$2.12 | \$46.25 | \$125.77 | 44 | -80 | 2,295 | 2,722 | 3,107 | 427 | -386 | 0 | 0 | 3,554 | 4,010 | -456 | | | | |
| 1300 Center Stack (Chrzanowski) | \$22.36 | \$22.36 | \$53.04 | 0 | -31 | 549 | 549 | 576 | 0 | -27 | 0 | 0 | 1,063 | 1,090 | -27 | | | | |
| 1301 Outer TF Coils (Chrzanowski) | \$0.00 | \$0.00 | \$1.34 | 0 | -1 | 20 | 39 | 34 | 19 | 5 | 0 | 0 | 281 | 333 | -52 | | | | |
| 1302 Center Stack Assembly (Chrzanowski) | \$0.00 | 0 | \$0.00 | 0 | 0 | 27 | 0 | 30 | -27 | -30 | 0 | 0 | 990 | 1,020 | -30 | | | | |
| 1303 TF Joint Test Stand & Test (CLOSED) | \$0.00 | \$0.00 | \$0.00 | 0 | 0 | 353 | 353 | 225 | 0 | 128 | 0 | 0 | 353 | 225 | 128 | | | | |
| 1304 Inner TF Bundle (Chrzanowski) | \$99.43 | \$31.28 | \$227.58 | -68 | -196 | 1,536 | 1,297 | 1,720 | -239 | -423 | 0 | 0 | 3,298 | 3,806 | -508 | | | | |
| 1305 Ohmic Heating Coil (Chrzanowski) | \$82.69 | \$255.15 | \$307.05 | 172 | -52 | 2,456 | 2,632 | 2,900 | 176 | -268 | 0 | 0 | 4,963 | 5,231 | -268 | | | | |
| 1306 Inner PF Coils (Chrzanowski) | \$51.18 | \$8.51 | \$22.94 | -43 | -14 | 391 | 235 | 328 | -156 | -93 | 0 | 0 | 669 | 761 | -92 | | | | |
| 1307 CS Casing Assembly (Chrzanowski) | \$13.22 | \$0.00 | \$46.14 | -13 | -46 | 613 | 600 | 709 | -12 | -109 | 0 | 0 | 1,313 | 1,013 | 300 | | | | |
| 1310 CSU Magnets Systems (CLOSED) | \$0.00 | \$0.00 | \$0.00 | 0 | 0 | 442 | 442 | 442 | 0 | 0 | 0 | 0 | 442 | 442 | 0 | | | | |
| 3200 Water Cooling System Mods (Denault) | \$0.00 | \$0.00 | \$0.00 | 0 | 0 | 74 | 68 | 38 | -6 | 30 | 0 | 0 | 195 | 183 | 13 | | | | |
| 3300 Bakeout System Mods CSU (Raki) | \$0.00 | \$0.00 | \$39.49 | 0 | -39 | 5 | 55 | 39 | 50 | 15 | 0 | 0 | 79 | 63 | 16 | | | | |
| 3400 Gas Delivery System Mods (Blanchard) | \$0.00 | \$0.00 | \$0.00 | 0 | 0 | 41 | 39 | 31 | -2 | 8 | 0 | 0 | 102 | 103 | -1 | | | | |
| 4100 Center Stack Diagnostics (Kaita) | \$0.00 | \$0.00 | \$2.45 | 0 | -2 | 183 | 316 | 248 | 133 | 68 | 0 | 0 | 836 | 810 | 26 | | | | |
| 4500 MPTS VV Modification (Labik) | \$29.57 | \$11.24 | \$28.80 | -18 | -18 | 774 | 630 | 843 | -143 | -212 | 0 | 0 | 949 | 1,239 | -289 | | | | |
| 5000 CSU Power Systems (Raki) | \$73.03 | \$52.18 | \$23.83 | -21 | 28 | 1,695 | 1,798 | 1,732 | 103 | 66 | 0 | 0 | 5,735 | 6,442 | -706 | | | | |
| 5200 DCPS (Hatcher) | \$56.76 | \$8.77 | \$92.94 | -48 | -84 | 724 | 494 | 618 | -230 | -124 | 0 | 0 | 2,493 | 2,618 | -124 | | | | |
| 5501 Coil Bus Runs (Smith) | \$0.00 | \$0.00 | \$0.65 | 0 | -1 | 380 | 380 | 323 | 0 | 57 | 0 | 0 | 1,131 | 1,483 | -352 | | | | |
| 6100 Control Sys Data Acquisition (Sichta) | \$0.59 | \$17.20 | \$28.89 | 17 | -12 | 122 | 209 | 213 | 88 | -3 | 0 | 0 | 918 | 942 | -24 | | | | |
| 7200 Center Stack Management (Dudek) | \$19.54 | \$19.54 | \$32.13 | 0 | -13 | 712 | 658 | 759 | -54 | -101 | 0 | 0 | 1,539 | 1,640 | -101 | | | | |
| 8200 CS & Coil Supt Struct Install (Perry) | \$403.69 | \$276.70 | \$260.58 | -127 | 16 | 1,271 | 1,509 | 1,416 | 238 | 93 | 0 | 0 | 6,384 | 6,264 | 120 | | | | |
| 8210 Field Supervision & Oversight (Perry) | \$23.40 | \$0.00 | \$58.46 | -23 | -58 | 327 | 350 | 304 | 23 | 46 | 0 | 0 | 1,329 | 1,942 | -613 | | | | |
| 8250 Remove/Install Centerstack (Perry) | \$0.00 | \$0.00 | \$1.92 | 0 | -2 | 60 | 60 | 60 | 2 | 0 | 0 | 0 | 1,023 | 1,114 | -91 | | | | |
| 2300 ECH Analysis (CLOSED) | \$0.00 | \$0.00 | \$0.00 | 0 | 0 | 84 | 84 | 29 | 0 | 55 | 0 | 0 | 84 | 29 | 55 | | | | |
| 2420 2nd NBI Sources (Cropper) | \$0.00 | \$87.12 | \$9.89 | 87 | 77 | 4 | 99 | 63 | 95 | 37 | 0 | 0 | 99 | 63 | 37 | | | | |
| 2425 BL Relocation (Atnafu) | \$140.86 | \$159.99 | \$123.90 | 19 | 36 | 301 | 272 | 265 | -29 | 7 | 0 | 0 | 1,803 | 1,767 | 36 | | | | |
| 2430 2nd NBI Decontamination (CLOSED) | \$0.00 | \$0.00 | \$0.00 | 0 | 0 | 2,057 | 2,057 | 2,070 | 0 | -13 | 0 | 0 | 2,057 | 2,070 | -13 | | | | |
| 2440 2nd NBI Beamline (Cropper) | \$86.46 | \$172.05 | \$42.06 | 86 | 130 | 1,019 | 962 | 687 | -57 | 275 | 0 | 0 | 2,590 | 2,375 | 215 | | | | |
| 2450 2nd NBI Services (Denault) | \$21.80 | \$109.41 | \$70.05 | 88 | 39 | 416 | 699 | 680 | 283 | 18 | 0 | 0 | 4,506 | 4,622 | -116 | | | | |
| 2460 2nd NBI Armor (Tresemer) | \$0.00 | \$51.82 | \$69.86 | 52 | -18 | 392 | 585 | 572 | 193 | 13 | 0 | 0 | 700 | 714 | -14 | | | | |
| 2470 2nd NBI Power (Raki) | \$1.72 | \$264.50 | \$138.30 | 263 | 126 | 260 | 724 | 442 | 464 | 283 | 0 | 0 | 3,335 | 3,266 | 69 | | | | |
| 2475 2nd NBI Controls (Cropper) | \$0.00 | \$83.40 | \$83.12 | 83 | 0 | 248 | 887 | 785 | 638 | 102 | 0 | 0 | 2,089 | 1,902 | 187 | | | | |
| 2480 2nd NBI/TVPS Duct (Denault) | \$0.00 | \$35.66 | \$29.36 | 36 | 6 | 462 | 547 | 571 | 86 | -23 | 0 | 0 | 1,952 | 2,198 | -245 | | | | |
| 2485 Vacuum Pumping System (Blanchard) | \$0.00 | \$0.00 | \$2.91 | 0 | -3 | 90 | 133 | 219 | 43 | -86 | 0 | 0 | 388 | 421 | -33 | | | | |
| 2490 NTC Equipment Relocations (Perry) | \$80.29 | \$68.57 | \$13.70 | -12 | 55 | 767 | 1,335 | 939 | 568 | 396 | 0 | 0 | 3,615 | 3,219 | 396 | | | | |
| 7300 NB2 Management (Stevenson) | \$10.66 | \$10.66 | \$20.40 | 0 | -10 | 533 | 533 | 466 | 0 | 67 | 0 | 0 | 1,364 | 1,383 | -19 | | | | |
| 7400 Health Physics Support (Stevenson) | \$46.67 | \$46.67 | \$31.28 | 0 | 15 | 1,172 | 1,172 | 752 | 0 | 420 | 0 | 0 | 2,507 | 2,088 | 420 | | | | |
| 7100 Project Management & Integration (Strykowski) | \$100.54 | \$100.54 | \$170.19 | 0 | -70 | 2,813 | 2,813 | 3,279 | 0 | -466 | 0 | 0 | 6,412 | 7,069 | -657 | | | | |
| 7710 NSTX-U HP and Other Allocations (Strykowski) | \$45.57 | \$45.57 | \$39.34 | 0 | 6 | 1,814 | 1,814 | 1,512 | 0 | 303 | 0 | 0 | 2,985 | 2,682 | 303 | | | | |
| 7900 Integrated System (Gentile) | \$0.15 | \$0.15 | \$0.00 | 0 | 0 | 6 | 6 | 4 | 0 | 2 | 0 | 0 | 78 | 76 | 2 | | | | |
| b. COST OF MONEY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| c. GENERAL AND ADMINISTRATIVE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| d. UNDISTRIBUTED BUDGET | | | | | | | | | | | | | \$0.00 | \$0.00 | 0 | | | | |
| e. SUBTOTAL (Performance Measurement Baseline) | \$1,498.51 | \$2,100.27 | \$2,266.79 | 602 | -167 | \$29,070.71 | \$31,722.07 | \$31,415.28 | 2,651 | 307 | \$0.00 | \$0.00 | \$0.00 | 78,941 | \$81,826.14 | -2,885 | | | |
| f. MANAGEMENT RESERVE | | | | | | | | | | | | | \$0.00 | | | | | | |
| g. TOTAL | 1,499 | 2,100 | 2,267 | 602 | -167 | 29,071 | 31,722 | 31,415 | 2,651 | 307 | 0 | 0 | 78,941 | | | | | | |

| CONTRACT PERFORMANCE REPORT | | | | | | | | | | | | | | FORM APPROVED | | | | |
|---|--------------------------|--------------------------|---|-------------------------------------|-------------|--------------------------|--------------------------|---|------------------|--------------|---------------------------|---|---------------------------|----------------------------|-------------------|------------------|--------|---|
| FORMAT 2 - ORGANIZATIONAL CATEGORIES | | | | | | | | | | | | | | OMB No. 0704-0188 | | | | |
| | | | | | | | | | | | | | | DOLLARS IN Thousands of \$ | | | | |
| 1. CONTRACTOR | | | | 2. CONTRACT | | | | 3. PROGRAM | | | | 4. REPORT PERIOD | | | | | | |
| a. NAME Princeton University-Plasma Physics Lab | | | | a. NAME DOE-SC-OFES-NSTX Upgrade | | | | a. NAME NSTX Upgrade Project | | | | a. FROM (YYYYMMDD) 3/1/2012 | | | | | | |
| b. LOCATION (Address and ZIP Code) Princeton, New Jersey | | | | b. NUMBER DE-AC02-09CH11466 | | | | b. PHASE CD-3 | | | | b. TO (YYYYMMDD) 3/31/2012 | | | | | | |
| | | | | c. TYPE M&O | | | | d. SHARE RATIO | | | | c. EVMS ACCEPTANCE NO <input type="checkbox"/> X YES (YYYYMMDD) 2011 / 12 / 20 | | | | | | |
| 5. PERFORMANCE DATA | | | | | | | | | | | | | | | | | | |
| OBS ITEM (1) | CURRENT PERIOD | | | | | | CUMULATIVE TO DATE | | | | | | REPROGRAMMING ADJUSTMENTS | | | AT COMPLETION | | |
| | BUDGETED COST | | ACTUAL COST WORK PERFORMED (4) | VARIANCE | | BUDGETED COST | | ACTUAL COST WORK PERFORMED (9) | VARIANCE | | COST VARIANCE (12a) | SCHEDULE VARIANCE (12b) | BUDGET (13) | BUDGETED (14) | ESTIMATED (15) | VARIANCE (16) | | |
| | WORK SCHEDULED (2) | WORK PERFORMED (3) | | SCHEDULE (5) | COST (6) | WORK SCHEDULED (7) | WORK PERFORMED (8) | | SCHEDULE (10) | COST (11) | | | | | | | | |
| CS Center Stack | \$963.80 | \$864.17 | \$1,422.44 | -100 | -558 | 16,633 | 16,999 | 18,083 | 366 | -1,084 | 0 | 0 | 0 | 42,377 | 45,884 | -3,507 | | |
| NB Neutral Beam | \$388.44 | \$1,089.85 | \$634.83 | 701 | 455 | 7,804 | 10,089 | 8,538 | 2,285 | 1,551 | 0 | 0 | 0 | 27,089 | 26,115 | 974 | | |
| PM Project Management | \$146.26 | \$146.26 | \$209.52 | 0 | -63 | 4,634 | 4,634 | 4,795 | 0 | -161 | 0 | 0 | 0 | 9,475 | 9,827 | -352 | | |
| b. COST OF MONEY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| c. GENERAL AND ADMINISTRATIVE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| d. UNDISTRIBUTED BUDGET | | | | | | | | | | | | | | | | \$0.00 | \$0.00 | 0 |
| e. SUBTOTAL (Performance Measurement Baseline) | \$1,498.51 | \$2,100.27 | \$2,266.79 | 602 | -167 | \$29,070.71 | \$31,722.07 | \$31,415.28 | 2,651 | 307 | \$0.00 | \$0.00 | \$0.00 | 78,941 | \$81,826.14 | -2,885 | | |
| f. MANAGEMENT RESERVE | | | | | | | | | | | | | | | | \$0.00 | | |
| g. TOTAL | 1,499 | 2,100 | 2,267 | 602 | -167 | 29,071 | 31,722 | 31,415 | 2,651 | 307 | 0 | 0 | 0 | 78,941 | | | | |

| CONTRACT PERFORMANCE REPORT | | | | | | | | | | | | | FORM APPROVED | | | |
|---|-------------------------|------------------------|--|-----------------|--|---|--|---|---|-----------|--------------------------------|---|-----------------------------------|------|----------------------|--------------|
| FORMAT 3 - BASELINE | | | | | | | | | | | | | OMB No. 0704-0188 | | | |
| DOLLARS IN | | | | | | | | | | | | | Thousands of \$ | | | |
| The public reporting burden for this collection of information is estimated to average 5 0 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to the Department of Defense, Executive Services Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. | | | | | | | | | | | | | | | | |
| 1. CONTRACTOR | | | 2. CONTRACT | | | | | 3. PROGRAM | | | | 4. REPORT PERIOD | | | | |
| a. NAME Princeton University-Plasma Physics Lab | | | a. NAME DOE-SC-OFES-NSTX Upgrade | | | | | a. NAME NSTX Upgrade Project | | | | a. FROM (YYYYMMDD) 2012 / 03 / 01 | | | | |
| b. LOCATION (Address and ZIP Code) Princeton, New Jersey | | | b. NUMBER DE-AC02-09CH11466 | | | | | b. PHASE CD-3 | | | | b. TO (YYYYMMDD) 2012 / 03 / 31 | | | | |
| c. TYPE M&O | | | d. SHARE RATIO | | | | | c. EVMS ACCEPTANCE NO <input type="checkbox"/> X YES (YYYYMMDD) 2011 / 12 / 20 | | | | | | | | |
| 5. CONTRACT DATA | | | | | | | | | | | | | | | | |
| a. ORIGINAL NEGOTIATED COST 77,317 | | | b. NEGOTIATED CONTRACT CHANGES 1,623 | | c. CURRENT NEGOTIATED COST (a. + b.) 78,941 | | d. ESTIMATED COST OF AUTHORIZED UNPRICED WORK 0 | | e. CONTRACT BUDGET BASE (c. + d.) 78,941 | | f. TOTAL ALLOCATED BUDGET 0 | | g. DIFFERENCE (e. - f.) 78,941 | | | |
| h. CONTRACT START DATE (YYYYMMDD) 2009/02/23 | | | i. CONTRACT DEFINITIZATION DATE (YYYYMMDD) | | | j. PLANNED COMPLETION DATE (YYYYMMDD) 2015/09/29 | | | k. CONTRACT COMPLETION DATE (YYYYMMDD) | | | l. ESTIMATED COMPLETION DATE (YYYYMMDD) 2015/09/29 | | | | |
| 6. PERFORMANCE DATA | | | | | | | | | | | | | | | | |
| Contract Change Number | BCWS CUMULATIVE TO DATE | BCWS FOR REPORT PERIOD | BUDGETED COST FOR WORK SCHEDULED (BCWS) (Non-Cumulative) | | | | | | | | | | | | UNDISTRIBUTED BUDGET | TOTAL BUDGET |
| | | | SIX MONTH FORECAST (Enter names of months) | | | | | | ENTER SPECIFIED PERIODS | | | | | | | |
| | | | +1 30APR2012 | +2 31MAY2012 | +3 30JUN2012 | +4 31JUL2012 | +5 31AUG2012 | +6 30SEP2012 | 31OCT2012 | 30NOV2012 | 31DEC2012 | 31JAN2013 | 28FEB2013 | | | |
| ITEM (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | |
| a. PERFORMANCE | 27,711 | 1,409 | 1,369 | 1,202 | 1,481 | 1,350 | 1,530 | 1,296 | 1,843 | 1,622 | 1,600 | 1,688 | 1,500 | 0 | 78,838 | |
| b. BASELINE CHANGES AUTHORIZED DURING REPORTING PERIOD | | | | | | | | | | | | | | | | |
| ECP015 | | | | | | | | | | | | | | | 31 | |
| ECP021 | | | | | | | | | | | | | | | -51 | |
| ECP026 | | | | | | | | | | | | | | | 209 | |
| ECP028 | | | | | | | | | | | | | | | -86 | |
| c. PERFORMANCE MEASUREMENT BASELINE (End of Period) | 29,071 | | 1,562 | 1,374 | 1,643 | 1,549 | 1,749 | 1,472 | 1,912 | 1,680 | 1,585 | 1,774 | 1,561 | 0 | 78,941 | |
| 7. MANAGEMENT RESERVE | | | | | | | | | | | | | | | 0 | |
| 8. TOTAL | | | | | | | | | | | | | | | 78,941 | |

| EVM Data as of: | | 3/31/2012 | | | | | | | | | | | | | | |
|---|--------------|--------------|--------------|----------------|-------------|--------------------|---------------|---------------|--------------|------------|-------------|---|------------------------|---------------|---------------|--|
| Thousands of \$ | | | | | | | | | | | | | | | | |
| WBS[2] OBS[3] | BCWS | BCWP | ACWP | Current Period | | Cumulative to Date | | | | | | At Completion | | | | |
| | | | | SV | CV | BCWS | BCWP | ACWP | SV | CV | SPI | CPI | BAC | EAC | VAC | |
| 1.1 Torus Systems | | | | | | | | | | | | | | | | |
| 1000 CSU Analytical Support (Dudek) | 5 | 5 | 61 | 0 | -56 | 236 | 236 | 266 | 0 | -30 | 1.00 | 0.89 | 385 | 853 | -469 | |
| 1001 CS Plasma Facing Components (Tresen) | 17 | 93 | 3 | 76 | 90 | 982 | 991 | 832 | 10 | 159 | 1.01 | 1.19 | 1,924 | 1,818 | 105 | |
| 1002 Passive Plate Analysis & Upgrade (Atnaf) | 64 | 17 | 5 | -47 | 12 | 368 | 337 | 348 | -30 | -11 | 0.92 | 0.97 | 429 | 440 | -11 | |
| 1200 Structures & Supports (Smith) | 2 | 46 | 126 | 44 | -80 | 2,295 | 2,722 | 3,107 | 427 | -386 | 1.19 | 0.88 | 3,554 | 4,010 | -456 | |
| 1300 Center Stack (Chrzanowski) | 22 | 22 | 53 | 0 | -31 | 549 | 549 | 576 | 0 | -27 | 1.00 | 0.95 | 1,063 | 1,090 | -27 | |
| 1301 Outer TF Coils (Chrzanowski) | 0 | 0 | 1 | 0 | -1 | 20 | 39 | 34 | 19 | 5 | 1.97 | 1.14 | 281 | 333 | -53 | |
| 1302 Center Stack Assembly (Chrzanowski) | 0 | 0 | 0 | 0 | 0 | 27 | 0 | 30 | -27 | -30 | 0.00 | 0.00 | 990 | 1,020 | -30 | |
| 1303 TF Joint Test Stand & Test (CLOSED) | 0 | 0 | 0 | 0 | 0 | 353 | 353 | 225 | 0 | 128 | 1.00 | 1.57 | 353 | 225 | 128 | |
| 1304 Inner TF Bundle (Chrzanowski) | 99 | 31 | 228 | -68 | -196 | 1,536 | 1,297 | 1,720 | -239 | -423 | 0.84 | 0.75 | 3,298 | 3,806 | -508 | |
| 1305 Ohmic Heating Coil (Chrzanowski) | 83 | 255 | 307 | 172 | -52 | 2,456 | 2,632 | 2,900 | 176 | -268 | 1.07 | 0.91 | 4,963 | 5,231 | -268 | |
| 1306 Inner PF Coils (Chrzanowski) | 51 | 9 | 23 | -43 | -14 | 391 | 235 | 328 | -156 | -93 | 0.60 | 0.72 | 669 | 761 | -93 | |
| 1307 CS Casing Assembly (Chrzanowski) | 13 | 0 | 46 | -13 | -46 | 613 | 600 | 709 | -12 | -109 | 0.98 | 0.85 | 1,313 | 1,013 | 300 | |
| 1310 CSU Magnets Systems (CLOSED) | 0 | 0 | 0 | 0 | 0 | 442 | 442 | 442 | 0 | 0 | 1.00 | 1.00 | 442 | 442 | 0 | |
| WBS[2]Totals: | 357 | 479 | 852 | 121 | -374 | 10,266 | 10,433 | 11,518 | 167 | -1,085 | 1.02 | 0.91 | 19,662 | 20,545 | -883 | |
| 1.2 Plasma Heating and Current Drive Systems | | | | | | | | | | | | | | | | |
| 2300 ECH Analysis (CLOSED) | 0 | 0 | 0 | 0 | 0 | 84 | 84 | 29 | 0 | 55 | 1.00 | 2.93 | 84 | 29 | 55 | |
| 2420 2nd NBI Sources (CLOSED) | 0 | 87 | 10 | 87 | 77 | 4 | 99 | 63 | 95 | 37 | 26.60 | 1.59 | 99 | 63 | 37 | |
| 2425 BL Relocation (Atnafu) | 141 | 160 | 124 | 19 | 36 | 301 | 272 | 265 | -29 | 7 | 0.90 | 1.03 | 1,803 | 1,767 | 36 | |
| 2430 2nd NBI Decontamination (CLOSED) | 0 | 0 | 0 | 0 | 0 | 2,057 | 2,057 | 2,070 | 0 | -13 | 1.00 | 0.99 | 2,057 | 2,070 | -13 | |
| 2440 2nd NBI Beamline (Cropper) | 86 | 172 | 42 | 86 | 130 | 1,019 | 962 | 687 | -57 | 275 | 0.94 | 1.40 | 2,590 | 2,375 | 214 | |
| 2450 2nd NBI Services (Denault) | 22 | 109 | 70 | 88 | 39 | 416 | 699 | 680 | 283 | 18 | 1.68 | 1.03 | 4,506 | 4,623 | -116 | |
| 2460 2nd NBI Armor (Tresemmer) | 0 | 52 | 70 | 52 | -18 | 392 | 585 | 572 | 193 | 13 | 1.49 | 1.02 | 700 | 714 | -14 | |
| 2470 2nd NBI Power (Raki) | 2 | 265 | 138 | 263 | 126 | 260 | 724 | 442 | 464 | 283 | 2.78 | 1.64 | 3,335 | 3,265 | 70 | |
| 2475 2nd NBI Controls (Cropper) | 0 | 83 | 83 | 83 | 0 | 248 | 887 | 785 | 638 | 102 | 3.57 | 1.13 | 2,089 | 1,902 | 187 | |
| 2480 2nd NBI/TVPS Duct (Denault) | 0 | 36 | 29 | 36 | 6 | 462 | 547 | 571 | 86 | -23 | 1.19 | 0.96 | 1,952 | 2,198 | -246 | |
| 2485 Vacuum Pumping System (Blanchard) | 0 | 0 | 3 | 0 | -3 | 90 | 133 | 219 | 43 | -86 | 1.47 | 0.61 | 388 | 420 | -33 | |
| 2490 NTC Equipment Relocations (Perry) | 80 | 69 | 14 | -12 | 55 | 767 | 1,335 | 939 | 568 | 396 | 1.74 | 1.42 | 3,615 | 3,219 | 396 | |
| WBS[2]Totals: | 331 | 1,033 | 583 | 701 | 449 | 6,100 | 8,385 | 7,320 | 2,285 | 1,064 | 1.37 | 1.15 | 23,218 | 22,644 | 574 | |
| 1.3 Auxiliary Systems | | | | | | | | | | | | | | | | |
| 3200 Water Cooling System Mods (Denault) | 0 | 0 | 0 | 0 | 0 | 74 | 68 | 38 | -6 | 30 | 0.92 | 1.81 | 195 | 182 | 13 | |
| 3300 Bakeout System Mods CSU (Raki) | 0 | 0 | 39 | 0 | -39 | 5 | 55 | 39 | 50 | 15 | 11.51 | 1.39 | 79 | 64 | 15 | |
| 3400 Gas Delivery System Mods (Blanchard) | 0 | 0 | 0 | 0 | 0 | 41 | 39 | 31 | -2 | 8 | 0.95 | 1.25 | 102 | 103 | -1 | |
| WBS[2]Totals: | 0 | 0 | 39 | 0 | -39 | 120 | 162 | 108 | 42 | 54 | 1.35 | 1.49 | 377 | 350 | 27 | |
| 1.4 Plasma Diagnostics | | | | | | | | | | | | | | | | |
| 4100 Center Stack Diagnostics (Kaita) | 0 | 0 | 2 | 0 | -2 | 183 | 316 | 248 | 133 | 68 | 1.72 | 1.27 | 836 | 810 | 26 | |
| 4500 MPTS VV Modification (Labik) | 30 | 11 | 29 | -18 | -18 | 774 | 631 | 843 | -143 | -212 | 0.81 | 0.75 | 949 | 1,239 | -289 | |
| WBS[2]Totals: | 30 | 11 | 31 | -18 | -20 | 957 | 946 | 1,091 | -11 | -145 | 0.99 | 0.87 | 1,785 | 2,049 | -264 | |
| 1.5 Power Systems | | | | | | | | | | | | | | | | |
| 5000 CSU Power Systems (Raki) | 73 | 52 | 24 | -21 | 28 | 1,695 | 1,798 | 1,732 | 103 | 66 | 1.06 | 1.04 | 5,735 | 6,442 | -707 | |
| 5200 DCPS (Hatcher) | 57 | 9 | 93 | -48 | -84 | 724 | 494 | 618 | -230 | -124 | 0.68 | 0.80 | 2,493 | 2,618 | -124 | |
| 5501 Coil Bus Runs (Smith) | 0 | 0 | 1 | 0 | -1 | 380 | 380 | 323 | 0 | 57 | 1.00 | 1.18 | 1,131 | 1,483 | -352 | |
| WBS[2]Totals: | 130 | 61 | 117 | -69 | -56 | 2,800 | 2,672 | 2,673 | -128 | -1 | 0.95 | 1.00 | 9,360 | 10,543 | -1,183 | |
| 1.6 Central Instrumentation & Control | | | | | | | | | | | | | | | | |
| 6100 Control Sys Data Acquisition (Sichta) | 1 | 17 | 29 | 17 | -12 | 122 | 209 | 213 | 88 | -3 | 1.72 | 0.98 | 918 | 941 | -23 | |
| WBS[2]Totals: | 1 | 17 | 29 | 17 | -12 | 122 | 209 | 213 | 88 | -3 | 1.72 | 0.98 | 918 | 941 | -23 | |
| 1.7 Project Support & Integration | | | | | | | | | | | | | | | | |
| 7200 Center Stack Management (Dudek) | 20 | 20 | 32 | 0 | -13 | 712 | 658 | 759 | -54 | -101 | 0.92 | 0.87 | 1,539 | 1,640 | -101 | |
| 7300 NB2 Management (Stevenson) | 11 | 11 | 20 | 0 | -10 | 533 | 533 | 466 | 0 | 67 | 1.00 | 1.14 | 1,364 | 1,383 | -19 | |
| 7400 Health Physics Support (Stevenson) | 47 | 47 | 31 | 0 | 15 | 1,172 | 1,172 | 752 | 0 | 420 | 1.00 | 1.56 | 2,507 | 2,087 | 420 | |
| 7100 Project Management & Integration (Stryk) | 101 | 101 | 170 | 0 | -70 | 2,813 | 2,813 | 3,279 | 0 | -466 | 1.00 | 0.86 | 6,412 | 7,069 | -657 | |
| 7710 NSTX-U HP and Other Allocations (Stryk) | 46 | 46 | 39 | 0 | 6 | 1,814 | 1,814 | 1,512 | 0 | 303 | 1.00 | 1.20 | 2,985 | 2,682 | 303 | |
| 7900 Integrated System (Gentile) | 0 | 0 | 0 | 0 | 0 | 6 | 6 | 4 | 0 | 2 | 1.00 | 1.62 | 78 | 76 | 2 | |
| WBS[2]Totals: | 223 | 223 | 293 | 0 | -70 | 7,050 | 6,997 | 6,771 | -54 | 226 | 0.99 | 1.03 | 14,885 | 14,937 | -51 | |
| 1.8 Site Preparation and Torus Assembly | | | | | | | | | | | | | | | | |
| 8200 CS & Coil Supt Struct Install (Perry) | 404 | 277 | 261 | -127 | 16 | 1,271 | 1,509 | 1,416 | 238 | 93 | 1.19 | 1.07 | 6,384 | 6,264 | 120 | |
| 8210 Field Supervision & Oversight (Perry) | 23 | 0 | 58 | -23 | -58 | 327 | 350 | 304 | 23 | 46 | 1.07 | 1.15 | 1,329 | 1,942 | -613 | |
| 8250 Remove/Install Centerstack (Perry) | 0 | 0 | 2 | 0 | -2 | 60 | 60 | 2 | 0 | 58 | 1.00 | 31.03 | 1,023 | 1,114 | -91 | |
| WBS[2]Totals: | 427 | 277 | 321 | -150 | -44 | 1,657 | 1,918 | 1,722 | 261 | 197 | 1.16 | 1.11 | 8,736 | 9,319 | -583 | |
| PMB | 1,499 | 2,100 | 2,267 | 602 | -167 | 29,071 | 31,722 | 31,415 | 2,651 | 307 | 1.09 | 1.01 | 78,941 | 81,825 | -2,884 | |
| Labor and Overhead Rate ETC | | | | | | | | | | | | | | | -2,140 | |
| Total | | | | | | | | | | | | | 78,941 | 79,685 | -744 | |
| | | | | | | | | | | | | BCWR (=pmb- bcwp) | ETC (=EAC- acwp) | | | |
| Neg PEP Variance Threshold exceeded (VAR required) | | | | | | | | | | | | 47,219 | 48,270 | | | |
| Pos PEP Variance Threshold exceeded (VAR required) | | | | | | | | | | | | contingency remaining (94,300-acwp-BCWR)= | 15,666 | | | |
| Internal variance requiring a VAR (PM initiated) | | | | | | | | | | | | contingency remaining (94,300-acwp-ETC)= | | 14,615 | | |
| | | | | | | | | | | | | 33% | 30% | | | |
| | | | | | | | | | | | | TPC= | 94,300 | 94,300 | | |