

FY20 Q2 Laser Facility Report

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During the second quarter of FY20, the Omega Laser Facility conducted 285 target shots on OMEGA and 218 target shots on OMEGA EP for a total of 503 target shots (see Tables I and II). OMEGA averaged 11.4 target shots per operating day, averaging 93.2% Availability and 94.4% Experimental Effectiveness.

OMEGA EP was operated extensively in Q2 FY20 for a variety of user experiments. OMEGA EP averaged 9.1 target shots per operating day, averaging 98.2% Availability and 95.6% Experimental Effectiveness.

Table I: OMEGA Laser System target shot summary for Q2 FY20.

| Program | Laboratory | Planned Number of Target Shots | Actual Number of Target Shots |
|--------------------|-------------------|---------------------------------------|--------------------------------------|
| ICF | LLE | 93.5 | 92 |
| | LLNL | 22 | 21 |
| ICF Subtotal | | 115.5 | 113 |
| HED | LLE | 11 | 8 |
| | LANL | 22 | 23 |
| | LLNL | 38.5 | 41 |
| HED Subtotal | | 71.5 | 72 |
| LBS | LLNL | 16.5 | 19 |
| LBS Subtotal | | 16.5 | 19 |
| NLUF | | 44 | 49 |
| LLE Calibration | LLE | 0 | 32 |
| Grand Total | | 247.5 | 285 |

Table II: OMEGA EP Laser System target shot summary for Q2 FY20.

| Program | Laboratory | Planned Number of Target Shots | Actual Number of Target Shots |
|---------------------|----------------------|---------------------------------------|--------------------------------------|
| ICF | LLE | 31.5 | 44 |
| | LLNL | 7 | 11 |
| | NRL | 7 | 10 |
| ICF Subtotal | | 45.5 | 65 |
| HED | LLE | 28 | 41 |
| | LANL | 14 | 15 |
| | LLNL | 28 | 38 |
| HED Subtotal | | 70 | 94 |
| LBS | LLE | 7 | 14 |
| | LANL | 7 | 5 |
| | Princeton University | 7 | 7 |
| LBS Subtotal | | 21 | 26 |
| NLUF | | 7 | 7 |
| LaserNetUS | | 7 | 14 |
| LLE Calibration | LLE | 0 | 12 |
| Grand Total | | 150.5 | 218 |