

## FY22 Q2 Laser Facility Report

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During the second quarter of FY22, the Omega Facility conducted 322 target shots on OMEGA and 238 target shots on OMEGA EP for a total of 570 target shots (see Tables I and II). OMEGA averaged 9.9 target shots per operating day, averaging 90.8% Availability and 95.6% Experimental Effectiveness. OMEGA EP averaged 8.8 target shots per operating day, averaging 94.8% Availability and 96.9% Experimental Effectiveness.

Table I: OMEGA Laser System target shot summary for Q2 FY22.

| Program      | Laboratory | Planned Number of Target Shots | Actual Number of Target Shots |
|--------------|------------|--------------------------------|-------------------------------|
| ICF          | LLE        | 110                            | 111                           |
|              | LANL       | 11                             | 12                            |
|              | SNL        | 11                             | 8                             |
| ICF Subtotal |            | 132                            | 131                           |
| HED          | LLE        | 33                             | 25                            |
|              | LANL       | 22                             | 27                            |
|              | LLNL       | 55                             | 43                            |
|              | SNL        | 11                             | 11                            |
| HED Subtotal |            | 121                            | 106                           |
| LBS          | LLE        | 22                             | 18                            |
|              | LLNL       | 27.5                           | 29                            |
| LBS Subtotal |            | 49.5                           | 47                            |
| NLUF         |            | 22                             | 23                            |
| Calibration  |            | 0                              | 25                            |
| Grand Total  |            | 324.5                          | 332                           |

NLUF: National Laser Users Facility

Table II: OMEGA EP Laser System target shot summary for Q2 FY22.

| <b>Program</b> | <b>Laboratory</b> | <b>Planned Number of Target Shots</b> | <b>Actual Number of Target Shots</b> |
|----------------|-------------------|---------------------------------------|--------------------------------------|
| ICF            | LLE               | 24.5                                  | 38                                   |
|                | LLNL              | 14                                    | 11                                   |
| ICF Subtotal   |                   | 38.5                                  | 49                                   |
| HED            | LLE               | 7                                     | 7                                    |
|                | LANL              | 14                                    | 16                                   |
|                | LLNL              | 28                                    | 29                                   |
| HED Subtotal   |                   | 49                                    | 52                                   |
| LBS            | LLE               | 14                                    | 22                                   |
|                | LLNL              | 14                                    | 23                                   |
| LBS Subtotal   |                   | 28                                    | 45                                   |
| CMAP           |                   | 14                                    | 16                                   |
| LaserNetUS     |                   | 14                                    | 18                                   |
| NLUF           |                   | 28                                    | 38                                   |
| Calibration    | LLE               | 0                                     | 20                                   |
| Grand Total    |                   | 171.5                                 | 238                                  |

CMAP: Center for Matter at Atomic Pressures