

Target Fabrication at Lawrence Livermore National Laboratory

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Target fabrication at Lawrence Livermore National Laboratory has made substantial efforts to increase target production without reducing the impact on innovating science or target quality. This presentation will outline the modified target fabrication effort including our strategic partnerships that support target fabrication efforts across multiple experimental facilities such as NIF and Omega. Over the last 12 months LLNL target fabrication has built over 490 targets for use on the National Ignition Facility by combining capabilities across multiple programs with a focus on increased efficiencies while maintaining the ability provide innovating and high impact support to scientific missions of NNSA within the DOE complex. In addition, the requirements for ICF and HED targets continue to push the boundaries of existing materials and fabrication methods. LLNL Target Fabrication has constantly developed new materials and methods to address new target requests and expand the range of materials and geometry that can be studied.

In this talk, a brief overview of key technological advancements and efficiency gains will be presented as well as a review of the research activities in the past two years including physics needs that motivated the development.

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