

11th Department of Energy Laser Safety Officer Workshop



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CoHE: Integration of Control Measures on a Production Line

Content :

Manufacturing operations that utilize high power laser equipment for processing materials typically involve more than just the laser. When an automated production line is established, material handling equipment is often integrated into the system to safely stage and move materials into and out of the queue, remove scrap material, and allow for operator-interactive tasks. The entire system may integrate equipment from different manufacturers, and the configuration must facilitate the process flow; therefore, safety features that may be included in the individual equipment design may need to be enhanced or augmented to prevent adverse material handling interactions and personal injury from contact with automated systems. These systems may include design safety features that are interlocked across different components and may be supplemented by administrative safety controls.

Summary :

This presentation will look at the safety features of a laser processing system, how they are implemented for servicing and maintenance activities versus those that are routine, repetitive and integral to production activities, and how administrative safety controls may supplement the process.

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