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The L-3 Pulserad flash X-ray system simulation with LSP and CST PS code

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We performed computerized analysis of the L-3 Communications Pulserad flash X-ray system (Model 42710A) for explosion analysis in our laboratory. As a Site Acceptance Test, X-ray generation experiments have been carried out to collect data on dose measurements according to distance and azimuthal angle. Based on the X-ray measurement data, the computational analysis of diode and the Bremsstrahlung X-ray photon is performed to find the optimal simulation method by LSP/MCNP code combination. The electron data impinging on the tungsten target was generated from diode simulation with LSP code and input to the MCNP code to simulate the X-ray generation using electron data converting tool from LSP to MCNP code.

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