

Shielding of First Optics Enclosure against Secondary Gas Bremsstrahlung *

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Abstract

The shielding calculations using the Monte Carlo simulations against the secondary gas bremsstrahlung are performed for the First Optics Enclosure (FOE). Various sizes of copper metals are used as a source of the secondary gas bremsstrahlung. Two methods, the direct approach and the two-step approach, are used to evaluate the energy deposition in the water phantom which is placed outside the walls of the FOE. The average dose behind the back and side walls are studied in detail.

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