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Personnel Safety at Magnetic Fusion Experiments

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A part of the current fusion mission is to demonstrate that fusion experiments and fusion power plants can be operated in a safe manner for the workers, the local population, and the environment. This paper describes some of the present issues in personnel safety in magnetic fusion environments, including the present-day personnel protection limits. The historical trends of these protection limits are used to speculate on future personnel protection limits as fusion research advances from experiments to power plants and the difficulty in meeting more restrictive protection limits. Ionizing radiation, magnetic field exposure, chemical exposure, and radiofrequency energy exposure are addressed.

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Eligible for student paper award?

No

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