

Perspectives on US test facilities towards development of a fusion pilot plant

In order to advance to the construction and operation of a Fusion Pilot Plant (FPP), numerous engineering and technology advancements are required. In order to de-risk the design and operation of an FPP, as well as to qualify materials and components, a number of test stands have been considered for construction. These include a Fusion Prototypic Neutron Source, a Blanket Test Facility, a Fuel Cycle Test Facility, and the Material Plasma Exposure experiment. Efforts towards the development of these facilities in the US, as well as the context of similar international facilities, will be discussed.

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