

US Tritium Plant Activities for ITER

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The US has contributed to ITER Tritium Plant activities since the beginning of the project. Initial contributions were made to the Conceptual Design Activities in the late 1980's. Both R&D and design contributions were made to the Engineering Design Activity in the 1990's. As ITER now moves to construction, the US is slated to build and deliver the Tokamak Exhaust Processing (TEP) system. The main purpose of this system is to recover hydrogen isotopes from molecules such as water and methane, and deliver purified hydrogen isotopes to the isotope separation system. The TEP construction activity will begin with finalizing the detailed design. Then industry will fabricate the system. This will be followed with factory testing, transportation to the ITER site, installation and final acceptance testing. This system is highly integrated with other Tritium Plant subsystems, so close interactions are expected with other procurement package owners and the ITER central team