



Qualification of European industries within technologies relating to controlled thermonuclear fusion

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The Commission of the European Communities wishes to establish a qualification system for the purpose of drawing up lists of European industrial firms or European groupings of industrial firms to be called for tender for the supply of prototypes and equipments in technologies which are specific to thermonuclear fusion and essential for the realization of the next generation thermonuclear experimental reactor (NEXT STEP).

Industrial activities will include in particular contributions to the engineering design activities of the International Thermonuclear Experimental Reactor (ITER).

Fifteen technologies have been designated in six areas. A list of qualified firms or groupings will be established for each:

- Plasma Engineering: High power, high frequency transmission lines (in the range 120/180 GHz); high power, high frequency sources (in the range 5/8 GHz and 120/180 GHz); neutral beam power supplies and high voltage components (order of 1 MV).
- Plasma Facing Components: Tiles and coatings; plasma facing components

models.

- Vessel, Shield and Blanket: Models of vacuum vessel and of neutron shield and tritium breeding blanket segments.
- Superconducting Magnets: Strands; conductors; model coil windings; high power electrical amplifiers.
- Remote Handling Equipment: Qualification of standards and tools; transporters and end effectors.
- Fuel Cycle: Tritium compatible vacuum cryopumps and mechanical pumps; tritium compatible vacuum valves; components for tritium handling and atmosphere detritiation.

Firms or groupings should specify the technology or technologies in which they seek qualification. The lists established under this qualification system shall have a duration of three years.

Commission of the European Communities

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