

AREVA Fusion Interest

Kim Stein July 26, 2004



AREVA – Worldwide Leader in Nuclear

- > Two businesses:
 - Worldwide leader in Nuclear Power, and Electricity Transmission & Distribution
 - Frontrunner in Connectors
- > More than 75,000 employees worldwide
- > \$12B in sales
 - 81% Nuclear Power
 - 19% Connectors
- > Chosen to build Finland's 5th nuclear power reactor by 2009











Fusion Technology

Main Objectives

- > Build-up of capabilities for participation in realization of the Next Step of a Fusion Experimental Reactor (ITER) of the EU Fusion Programme through contracts on:
 - Engineering design for systems and components of a fusion reactor
 - Manufacturing and testing of prototypes
 - Manufacturing studies for crucial components
 - Design and cost assessments
 - Participation in design, safety and environmental studies for future Fusion Power Plants
- > Foster and use the capabilities to become competitive for the erection of future Fusion Power Plants



The Framatome-ANP contribution to the ITER Project

(Achieved and running contracts with EC)

Engineering Contracts through EFET

- Vacuum Vessel Design and Manufacturing
 Feasibility incl. Welding Techniques
- Shield Blanket Design and Manufacturing Feasibility
- Divertor Handling Equipment
- Tokamak Assembly
- Overall Remote Handling Studies
- Components Installation inside the Tokamak Complex
- Hot Cell Refurbishment Equipment
- Testing of HHF components
- Cadarache Site Safety Investigations
- Cadarache Site Costing Studies
- Project Manager for all site studies contracted to EFET

Contracts for supply of the ITER Prototypes and Mock-up's (17 technologies)

- Manufacturing of divertor cassette Movers Prototypes
- Manufacture of a primary first wall panel prototype with fast brazed Beryllium tiles
- Manufacture of one primary First Wall Mock-up for HHF Test
- Manufacturing of a Shield Prototype
- Manufacture and supply of Primary Wall Module prototype
- Supply of Prototype components for the ITER Divertor Baffle – CFC/W

The total amount of the fusion contracts (EFET and 17 technologies) awarded by Framatome-ANP since 1994 is 30 M€

EFET was appointed by European Commission for all ITER engineering studies subcontracted to Industry