

OVERVIEW OF ITER EC H&CD SYSTEM

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Abstract.

A 24 MW Electron Cyclotron Heating and Current Drive (EC H&CD) system, operating at 170GHz, is under development for plasma startup, central H&CD and control of MHD activity on the ITER Tokamak. Physics applications will be achieved by a combination of two types of launchers, one located in the equatorial port and four in the upper. The functions that the system is asked to cover require its availability from the beginning to the end of each plasma pulse of ITER. Being 3600 seconds the target for ITER pulses, this will represent a typical steady state operation scenario for a Heating and Current drive system. A partnership between Europe, India, Japan, Russia, United States and the ITER organization is formed to collaborate on design and R&D activities leading to the procurement, installation, commissioning and operation of this system. An overview of the actual development status of the system, the procurement and commissioning plan will be presented.