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P2.147 Key Technology Research of Electron Beam Welding in CFETR Vacuum Vessel Collar

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Chinese Fusion Engineering Testing Reactor(CFETR) is a super conducting magnet Tokamak, and the key component begun to be studied in advance. 1/8 full size vacuum vessel(VV) as a research project, which purpose is to fully grasp the key technology of molding, welding, non-destructive testing and measurement in the aspect of building large-scale vacuum, and accumulate experience for the formal construction of CFETR, the project was officially launched in 2015 by the Institute of Plasma Physics Chinese Academy of Sciences. In the process of manufacturing 1/8 full size of the VV, in order to reduce welding deformation, electron beam welding is performed in the VV collar, ASIPP builds a full set of electron beam welding system, the technology research work of electron beam welding has been carried out in VV collar, and has acquired initial results. This paper introduces the key technology and its development for the VV collar electron beam welding.

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