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ITR/P5-01: Progress on Manufacturing of the ITER Vacuum Vessel Equatorial and Lower Ports in Korea

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Korea is responsible for procuring all port components at the equatorial and lower level including the VV (vacuum vessel) supports, NB (neutral beam) duct liners, and sealing flanges. Since procurement arrangement in late 2008, the contract for the main port components was signed in early 2010 and activities are going on in preparation of product fabrication. Major activities for main port are creation of drawings, material procurement, structural/welding distortion analysis, qualification/documentation, and checks on manufacturing feasibility through mock-up fabrication. Analysis will be focused on fabrication related work such as structural assessment for shell thickness reduction effect and welding distortion. Also in-wall shield design of the NB port has been developed. Major activities for VV gravity support are to perform detail design including coupon test to verify performance of friction surface. The fabrication feasibility study for neutral bean duct liner has been carried out. This paper presents the status on fabrication preparation and design activity for port components.

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