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Progress of ITER TF Coil Case fabrication in Japan

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National Institutes for Quantum and Radiological Science and Technology (QST) which has been Japan Atomic Energy Agency up to March 2016, as Japan Domestic Agency, has responsibility to procure 19 coil cases for ITER Toroidal Field Coils (TFCs) as in-kind components. The TFC Case is a large welded structure having a D-shape with a height of 16.5 m, a width of 9 m, and a weight of about 200 tons. Meanwhile TFC Case is large welded structure, sever dimensional tolerance for TFC Case is required such as +/-2mm profile. In order to minimize the technical risk during manufacture the TF Coil structures, QST has performed some trials to establish manufacturing procedure before actual manufacturing. After the establishment of manufacturing procedures, JAEA started manufacturing of 1st TF Coil structure from August 2012. In addition to trials of welding and manufacturing processes, some trials have been conducted to rationalize manufacturing processes and establish other manufacturing processes. Finally, it is planned to ship the first unit of TFC Case to Coil assembly site in the summer of 2017. This presentation shows history of manufacturing trials and progress of TFC Case fabrication in Japan.

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