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Application of Contour Fitting Method in CFETR VV Assembly

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China Fusion Engineering Test Reactor (CFETR) vacuum vessel (VV) is a forming and welding product, which is composed of formed shells and ribs, and welded to a toroidal double shell structure device. However, there are manufacturing errors in the manufacturing process, which will lead to accumulative deviation of the VV dimensions and affect the VV contour and the welds quality. To reduce and decentralize errors, the contours of welded parts are measured and fitted with least-squares method. According to the fitting result, new benchmarks are reset in form of controlling points for the next assembly. This paper is about the application of contour fitting method in manufacturing of the first 1/32 VV sector of the CFETR 1/8 VV mock-up.

Eligible for student paper award?

No

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