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P2.075 Qualification of superconducting joint for pf6 coil

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Abstract- As an important component of ITER PF6 coil, the superconducting joint is used for the mechanical and electrical connection between inner conductors and also between the coil and the outer feeder. PF6 coil plays the role in plasma current drive, position and shape control. Both the working current and the rate of working current change are high, and it works in the complex magnetic field environment in tokamak magnet system.

Before the series production manufacturing, the superconducting joint mechanical and electrical performance shall be tested and qualified. Two main samples has been designed and fabricated, one is dummy joint used for mechanical test, another is full size joint sample (FSJS) used for electrical test. This paper describes test plan and summarizes qualification though the samples. In 2017 ASIPP has started real series production manufacturing, some of manufacturing process are obtained based on the qualification.

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