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Upgrade and operational performance of EAST cryogenic system

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Since the first commissioning in February 2006, EAST cryogenic system has been in operation for eleven plasma experiment campaigns with high reliability. However, ten years have passed from the beginning of the system operation. With requirements of EAST physical experiment, new users of cryogenic system have been added such as cryopump, pellet inject and NBI. Some upgrades have been implemented to improve the reliability and availability of cryogenic system. New warm compressors, turbines and cryogenic distribution system haven been constructed. EAST cryogenic control system has been upgraded in 2015 and put into operation the 11th campaign. This paper presents the upgrade solutions of cryogenic system in detail. At same time, the operational performance has been analyzed with further purpose to improve the cryogenic system reliability so as to guarantee the success of high performance plasma experiments in future.

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