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## Reliability of the GSI / FAIR Facility After a Long Shutdown Phase.

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The 'Facility for Anti-Proton and Ion Research' (FAIR) which is presently under construction, extends and supersedes the existing GSI. In July 2016 began longest shutdown GSI has ever seen. The main work package is the civil construction project GAF (GSI Anbindung an FAIR, Link of GSI to FAIR) which comprises additional shielding of SIS18, fire protection measures, as well as the connection of the new beam line between FAIR and the existing GSI facility. During construction work of the GAF project the SIS accelerator components are inaccessible. Therefore, maintenance and repair work on the kicker and on RF cavities was scheduled at the beginning of the shutdown and finished before the start of GAF. The modernization of the post stripper RF system which need regular test periods are in conflict with the refurbishment of the HVAC system (Heating, Ventilation and Air Conditioning). Another import project is the retrofitting of the FAIR control system to SIS18, ESR and HEST. Careful coordination of those projects is mandatory to finish in time for the beam time 2018. The planning and monitoring of the most important shutdown projects and the reliability of the system will be presented.

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