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Status of RF at Diamond Light Source and overview of upgrade plans

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Diamond Light Source has been operating for users since 2007 and presently operates with two CESR-B cavities supporting 300mA storage ring operation. RF reliability has been good in 2016 with RF MTBF approaching 200 hours for the year to date. Details are presented of the recovery from cavity failures in 2014 and 2015, particularly the repairs of the failed cryostat modules, including the first in-house cavity repair in an on-site cleanroom. Reliability and performance upgrades carried out in the last 12 months are presented and plans are given for the future introduction of two normal conducting cavities into the storage ring to support the operation of the two superconducting cavities.

Primary author: Dr CHRISTOU, Chris (Diamond Light Source)

Co-authors: Dr GU, Pengda (Diamond Light Source); Mr PANDE, Shivaji (Diamond Light Source)

Presenter: Dr CHRISTOU, Chris (Diamond Light Source)

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