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## Safety Assessment and up-grades executed and proposed at Dhruva Reactor Following the Accident at Fukushima Daiichi Nuclear Power Plant

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Dhruva is a 100 MW research reactor fuelled with natural uranium and cooled and moderated with heavy water. It is located in Bhabha Atomic Research Centre, Mumbai, it was commissioned in 1985. Following the Fukushima Daiichi nuclear accident a complete review of existing system configuration was undertaken to ascertain reactor's capabilities to withstand extreme natural event, like earthquakes, tsunamis, storm surges etc. Various safety up-grades have been undertaken or are proposed to be executed in order to address issues which have surfaced. Several measures for improving safety margins against BDBEs, availability of the reactor and its effective utilization have been taken.

After shutting down of the 'Cirus' reactor, it is the lone reactor which is meeting the isotope requirements of the nation. During the recent years, reactor has attained its highest availability and capacity factor, reactor utilization has also been enhanced, to meet the national requirement of radioisotopes in quality and quantity. The paper will highlight the changes implemented and proposed in Dhruva for meeting these requirements.

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