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Status of the nuCARIBU Project at ATLAS

CARIBU (Californium Rare Isotope Breeder Upgrade) is a source of neutron-rich fission fragments from a plating of ^{252}Cf . Operating for over a decade, CARIBU has provided unique beams for stopped and reaccelerated experiments. Unfortunately, consistently generating a thin plating of Cf has proved very difficult. To eliminate this risk and increase the overall intensity of n-rich ions, ATLAS started the nuCARIBU project to convert the fission fragment creation to a mechanism of neutron induced fission of actinide foils. The system will be driven by a 6 MeV, 0.5 mA proton cyclotron, and use a ^7Li target for neutron production. This paper will present the details of the reconfiguration of the CARIBU area, the cyclotron installation and commissioning, the process to incorporate this fundamentally new source into operation, and the subsystems needed to make the transition successful.

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