**HL LHC CMS Detector Upgrade Project**

**Purchase Authorization**

**TFPX Gantry**

**December 5th , 2019**

CMS-doc-13934

This document provides the authorization to proceed with procurement for items associated with the HL LHC CMS Detector Upgrade Project. It is required for items larger than the thresholds set out in the Project Execution Plan, Project Management Plan, and Procurement plan.

This particular document is in regard to the purchase of and Aerotech robotic Gantry system to assemble Forward Pixel Modules, WBS 402.7 The total cost of this purchase is estimated to be $155,870, from a recent quote. This work is to be carried out by the University of Nebraska using funds from NSF. A purchase of this magnitude must be authorized by the Project Managers.

We hereby authorize this purchase.



Steve Nahn 12/5/2019

HL LHC CMS Detector Upgrade Project Manager

Fermilab



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Anders Ryd 12/5/2019

HL LHC CMS Detector Upgrade Deputy Project Manager

Cornell University