



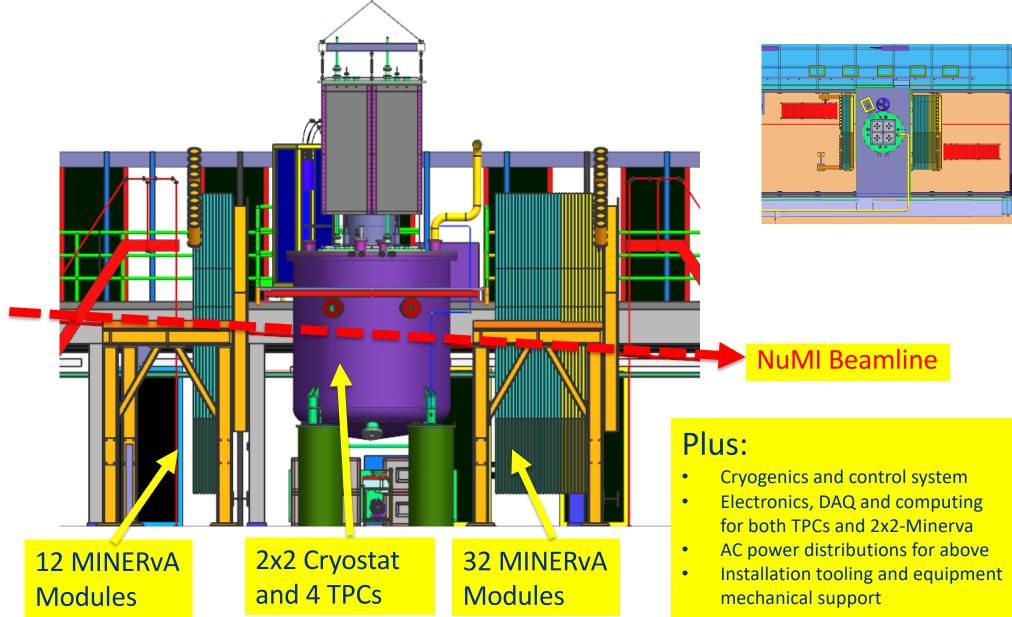


2x2 Installation Status

November 10, 2022

2x2 Installation Scope

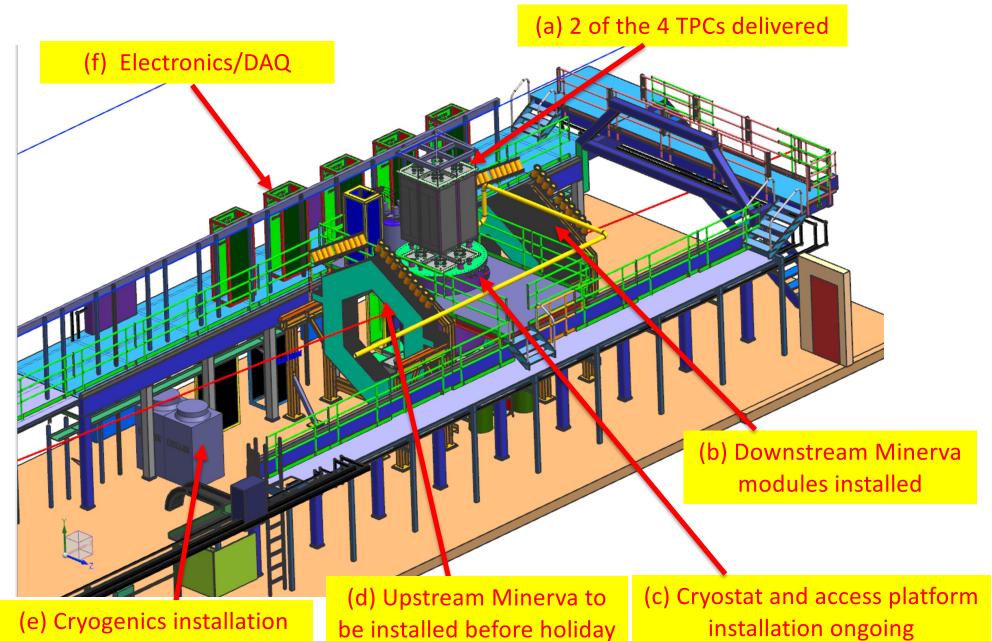




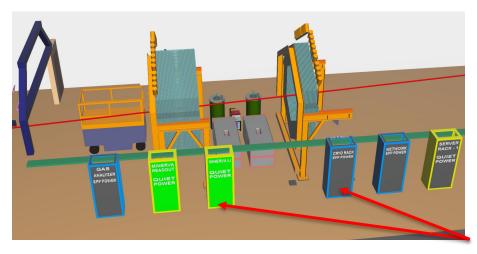
2x2 Installation Status



‡ Fermilab



2x2-Minerva Installation



Layout of 2x2-Minerva



ORC for readout electronics (Needed for PMT/FEB checkout)

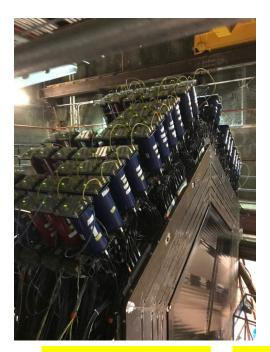


Module placement



ENTS 4832

PMT/FEB installation and cabling



Module PMT/FEB

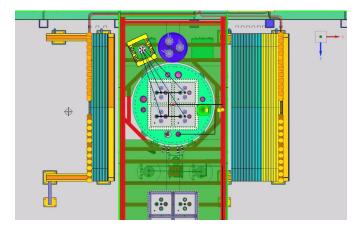


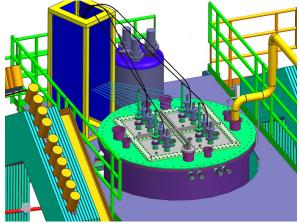
Safety review of PMT repair scheme

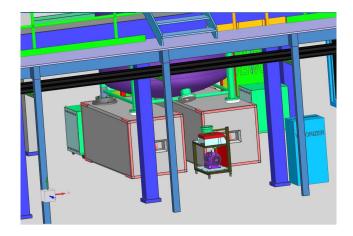


Cryostat and Access Platform

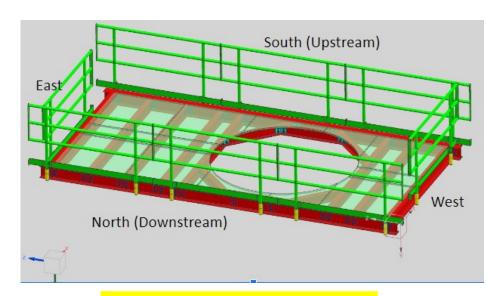




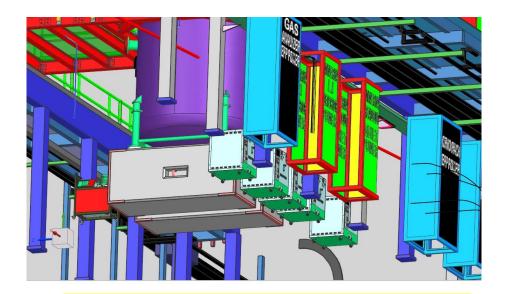




Cryostat placement and support



Access platform assembly



Cryostat support and other equipment



Cryostat Transfer through MINOS Shaft/Tunnel









Cryostat to MINOS Hall









Summary of 2x2 Installation Progress



- Major 2x2 component to be installed before Christmas
 - Downstream 2x2-MINERvA installation completed;
 - Cryostat and access platform installation ongoing;
 - Upstream 2x2-Minerva installation to start right after.
- Cryocooler system in hand; Installation to start soon

