

LArFCS Cryogenic System Progress

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LArFCS Construction

► Preparation for the purity run

- LArFCS purifier assembly

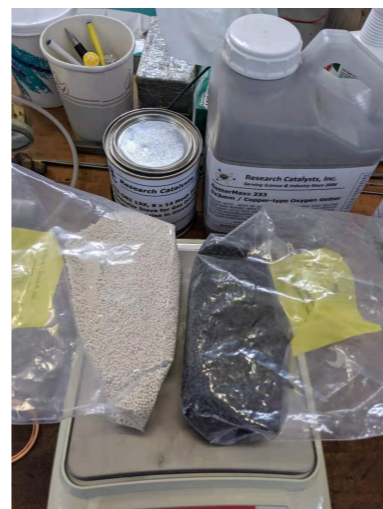
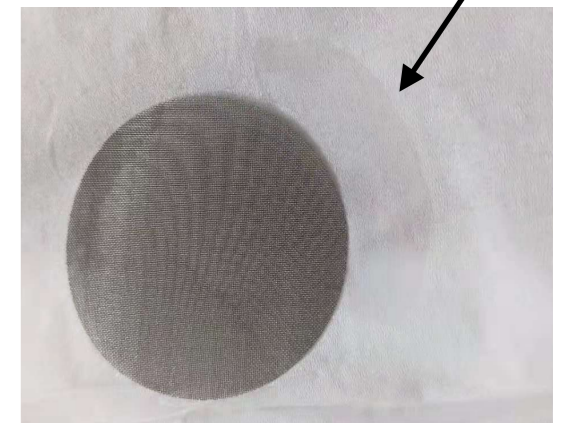
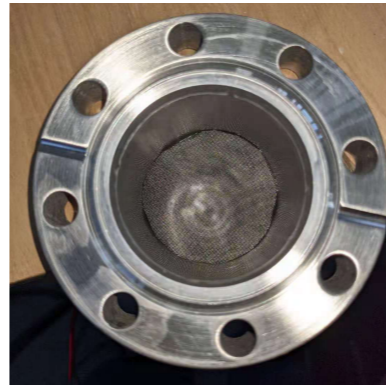
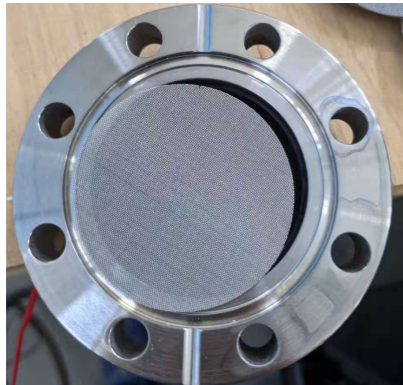
- Rust found observed on the copper gasket, a signature for water in the system
- The purifier cylinder inner surface found dirty
- Inner surface wiped down



LArFCS Construction

▸ LArFCS purifier assembly (contd.)

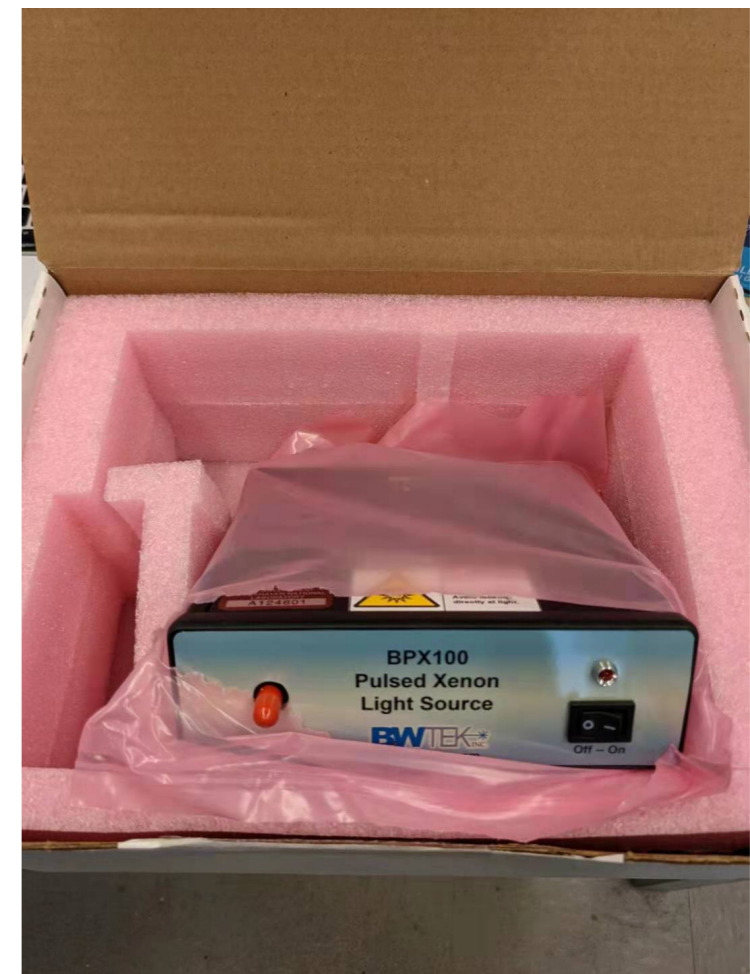
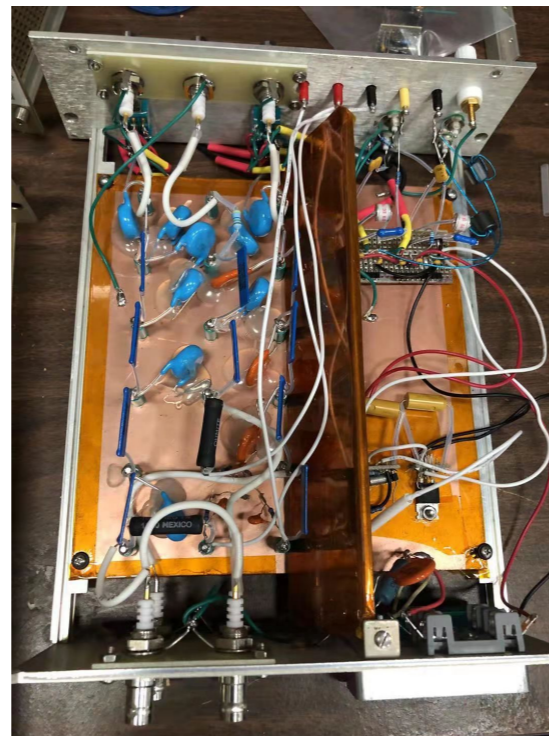
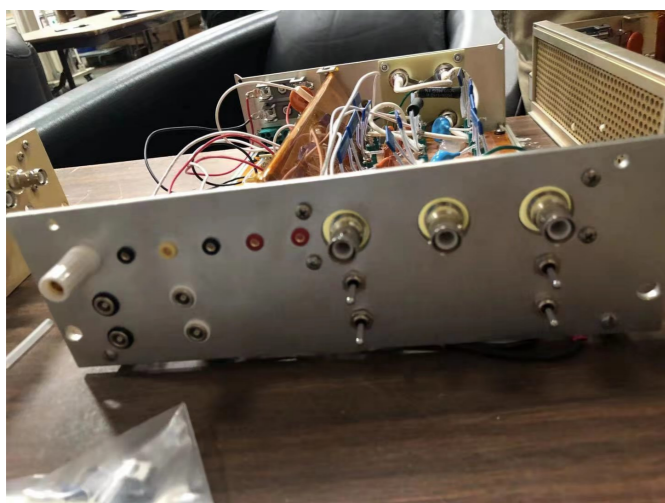
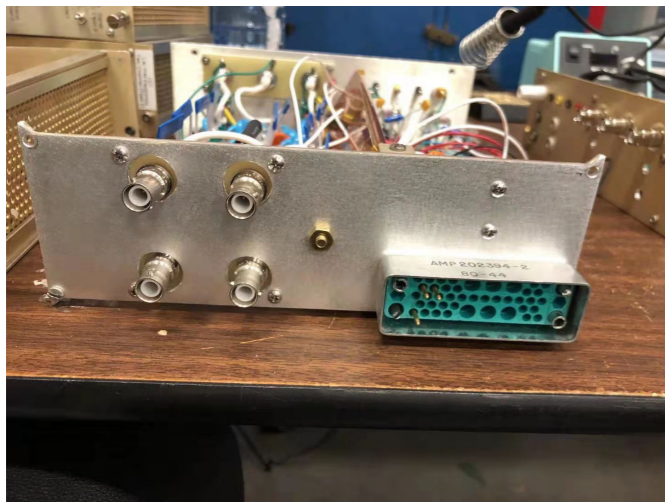
- Mesh trimmed down to match in the cylinder ID
- Stainless steel wool filled at the bottom
- Total available filling volume is about 660 ml
 - ~220ml, 180g 13X molecular sieve
 - ~440ml, 673g GetterMax 233 O2 getter
- Oil contamination on the mesh accidentally found
 - Going to do ultrasonic bath wash to the mesh and SS wool
- Heating tape mockup wrapping done, need to order shorter heating tape



LArFCS Construction

► PrM preparation

- PrM electronics box soldering and wiring completed
- Waiting for a technician to finish the shielding welding
- Xenon lamp received
- Optical fiber on quote



LArFCS Construction

- ▶ **6000 Gallon LN2 tank Preparations Painting the tank to white**
 - Paint just approved by chemical, ordered, painting expected to start soon
 - Airgas site survey
 - Vendor provides quote for the labor cost, est. cost \$1050 for 6hrs
 - Setting up the PO. Please approve the WebReq asap



Highbay RM 1-144 clean up

- ▶ **Highbay corner RM1-144 clean up**
 - Fetched most of the useful items from the room
 - Going over with Brandon for the next steps
- ▶ **Flexible cryogenic hose located in the basement**

