

The background is a dark blue gradient with a subtle pattern of white dots. On the left side, there are several concentric circles and a large circular scale with degree markings from 140 to 260. Some of the circles have arrows indicating a clockwise direction. The title text is positioned on the right side of the image.

# NPS SWEEP MAGNET STATUS AND TEST PLAN

CHARLES HYDE

# MAGNET ASSEMBLY

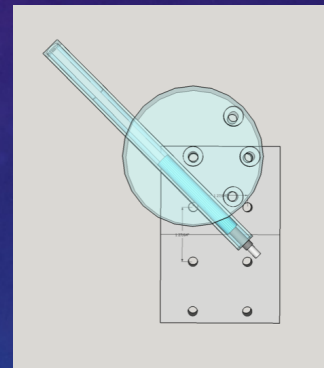
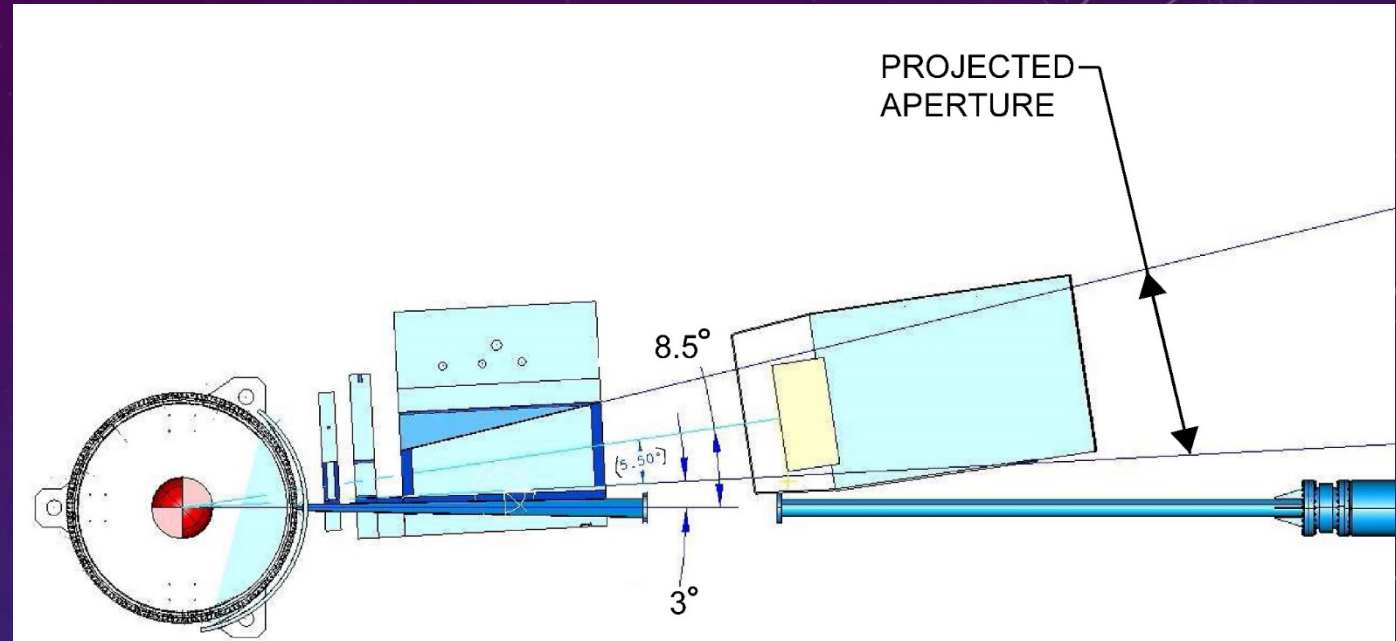
- Magnet in TESTLAB
  - Power : 10% of max, limited by cooling
- Mapper constructed and tested with software controls

Photos here

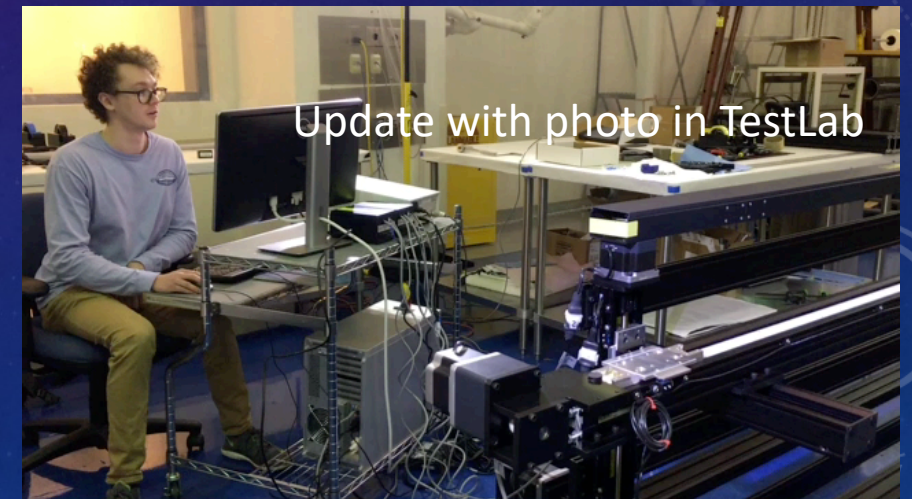


# MAGNET TESTING: PHASE I. IN TESTLAB

- OSP in progress
- Current limited to 200 Amp
- Mapper program to measure three-axis field components in 1 cm intervals in 3-D
  - Main Gap + fringe region. 2 meters total in z
  - Beam gap, midplane  $\pm 0.5$  cm vertical
- Complete in May 2020



Hall-probe holder  
for full access to  
minimum gap  
region



Update with photo in TestLab

# MAGNET TESTING: PHASE II. HALL C, ON FLOOR

- OSP in TBD
- Full Current
  - Needed for reliable measurement of fringe field in beam gap
- Mapper program to measure three-axis field components in 1 cm intervals in 3-D
  - Main Gap + fringe region. 2 meters total in z
  - Beam gap, midplane +/- 0.5 cm vertical