



PREX-II/CREx Experiment Readiness Review

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Charge Items 1, 9 & 10 – Equipment
Installation Plan

Disclaimers...

1. Dates on the current schedule are only place holders.
2. Predecessor experiment is currently undetermined
3. Schedule is based on current manpower (5 technicians)
4. Schedule was generated under the assumption that Hall A will remain cold for the installation.

4 Major Components

- Preliminaries
- De-Installation of Previous Experiment Equipment (?)
- PREX-II/CREx Equipment Installation
- Final Preparations

Preliminaries

- Post beam surveys and checklist
- Move PREX-II/CREx equipment Hall A
- Bleed-up spectrometers and beamline components
- Move both HRS into position



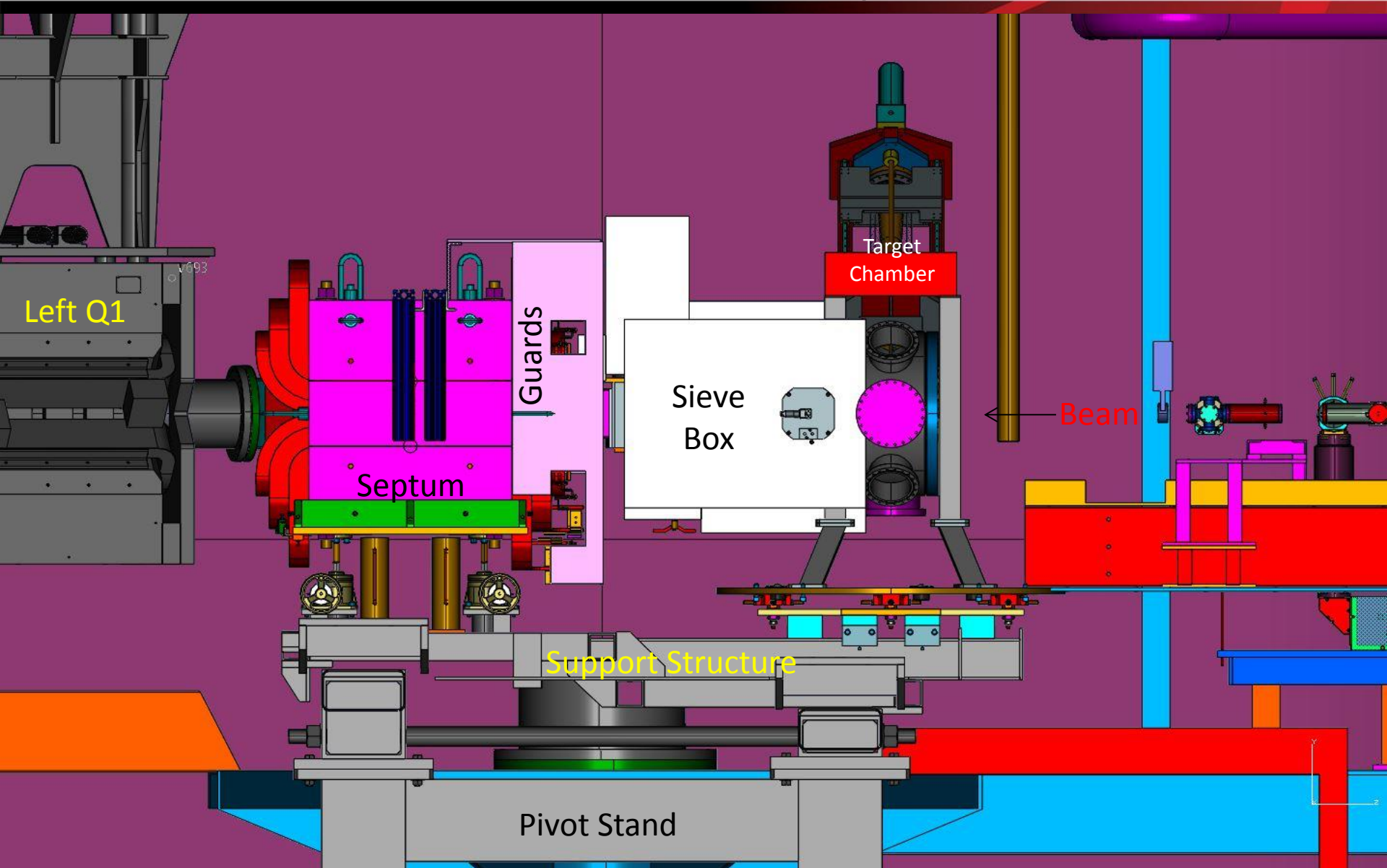
De-Installation???

As of today, there is no confirmation on which experiment PREX will follow. From my previously gained knowledge and research I have "ESTIMATED" that an "AVERAGE" de-installation will add approximately 2 week to PREX installation time.

Installation of PREX-II/CREx

- ✓ Install pivot stand and support structures
- ✓ Install target chamber, collimators, sieve box, etc.....
- ✓ Install septum magnet, chiller and associated equipment
- ✓ Detector package change out
- ✓ Install Moller Polarimeter
- ✓ Install radiation shielding

Pivot Area Layout



Final Preparations

Final Preparations – These are routine activities that we would typically perform at the end of most installation period.

Examples: cooldown, dial-in and stabilize cryogenic system; pump down & leak check vacuum systems, power supply testing, etc....

Unknowns (?)

I have identified two unknowns that have the potential to affect the installation of this experiment...

1. Predecessor experiment (****minimum impact*)

- Depending on what experiment PREX follows, I have estimated that de-installation will take anywhere from 1 – 3 weeks to remove. For PREX scheduling purposes I've used a 2 weeks (average) as an estimate.

2. Type, amount and placement of radiation shielding

- Type - Will help me to determine what kind of PPE is necessary for installation.
- Amount – This will help me to determine man-hours needed.
- Placement – Will help me to determine scheduling (i.e. can shielding installation be done in parallel with other items or does it need to be done in series?)

****Please note: This unknown has the potential to have the biggest impact on schedule performance...*

Conclusion...

- Installation schedule is estimated to take ~14 weeks
- There are several unknowns that need to be discussed
- The installation schedule has the potential to change
- We will continue to look for ways to mitigate “schedule creep”. (ex. Assemble and test equipment beforehand as well as solicit manpower help from SSG for power supply testing, detector package change out and shielding installation)

Any Questions?

