Primary Beamline Radio-Activated Water (RAW) Peliminary Design Review

Target Hall RAW - General Overview

Karlton E. Williams, II February 19 & 20, 2020

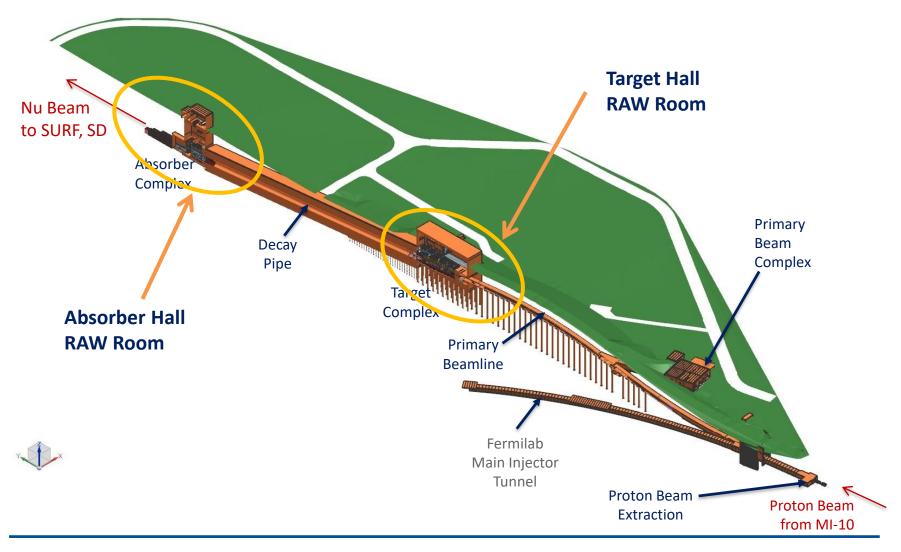








RAW System - Preliminary Design Review ISO Section View of Near Site – MI-10 to LBNF-30 Absorber Complex



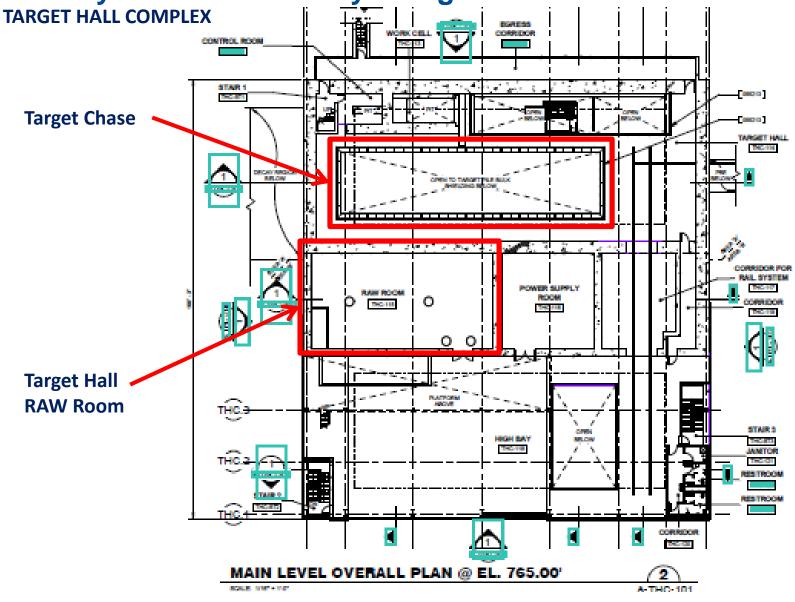
RAW System - Preliminary Design Review Target Hall RAW Systems

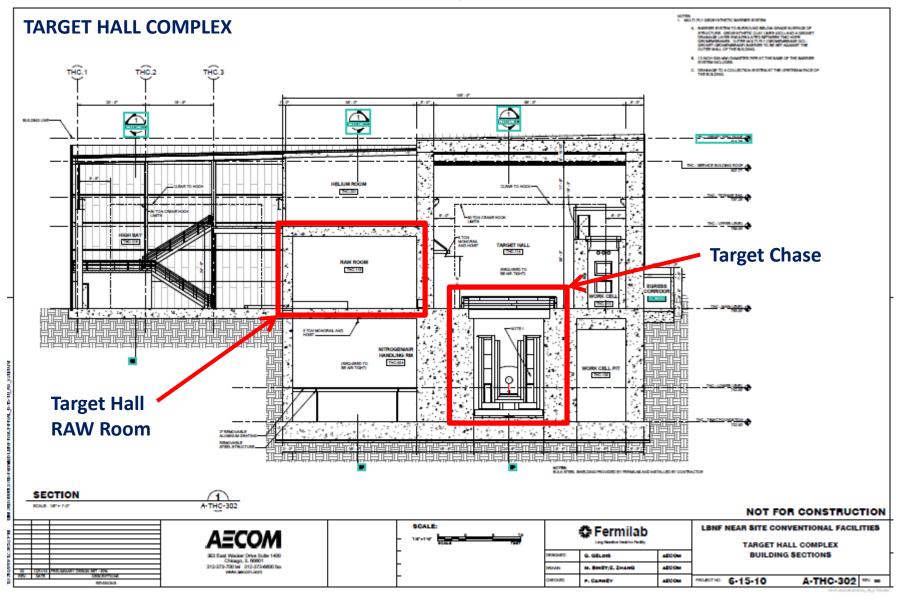
Systems located within the Target Hall RAW Room

- Target RAW
- Horn A RAW
- Horn B RAW
- Horn C RAW
- Shielding Panel RAW
- TH RAW Exchange
- TH Intermediate
- H+OH System

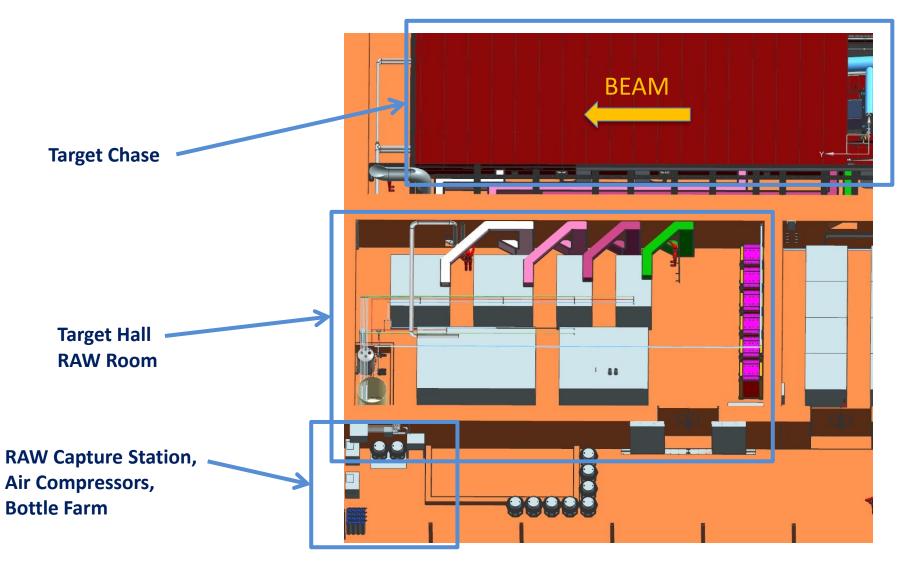
Other support equipment just outside the TH RAW Room

- RAW Capture Station
- Air Compressors
- Bottle Farm

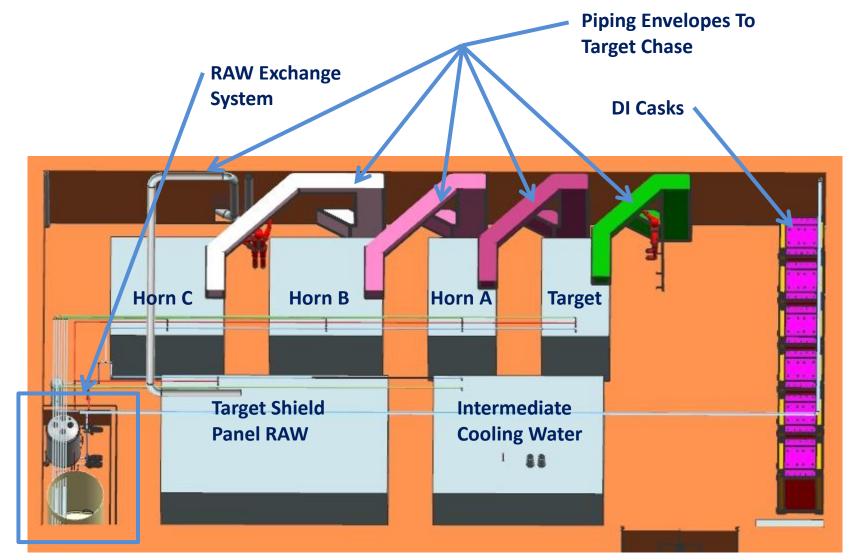




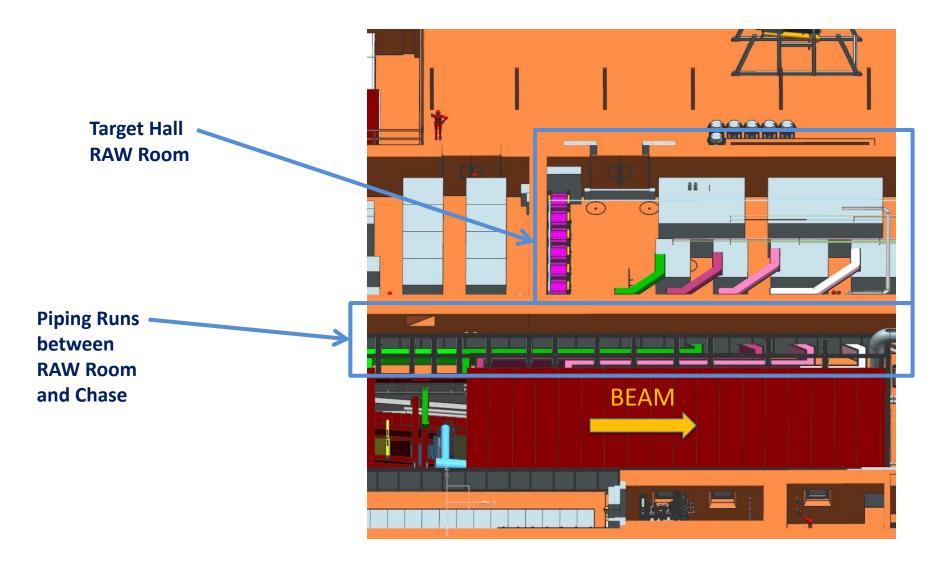
RAW System - Preliminary Design Review Target Hall RAW Room Arrangement



RAW System - Preliminary Design Review Target Hall RAW Room Arrangement, cont.



RAW System - Preliminary Design Review Target Hall RAW Room Arrangement, cont.

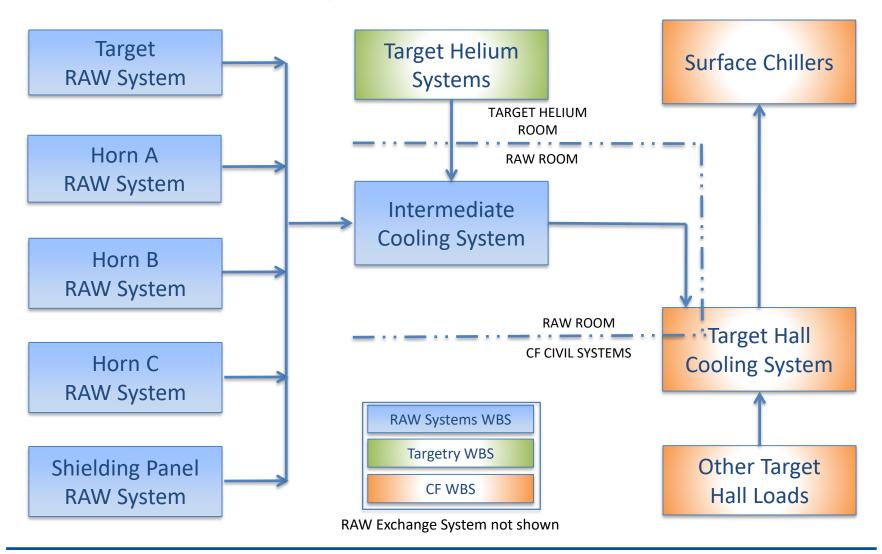


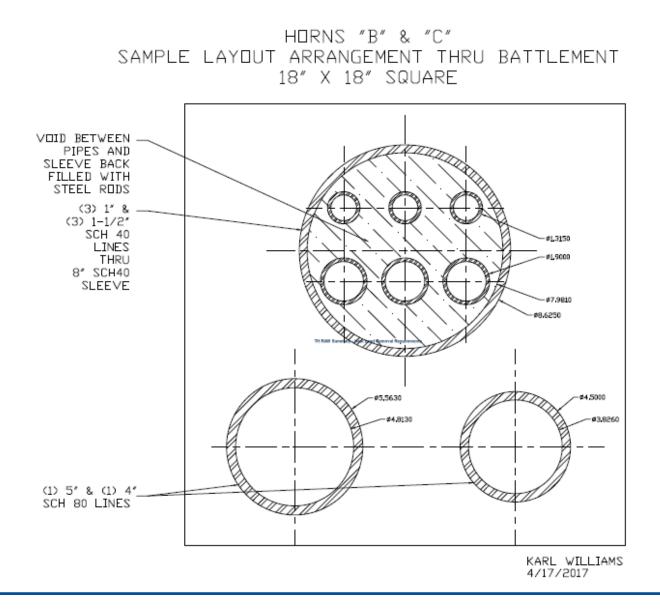
RAW System - Preliminary Design Review TH RAW Room - General Notes

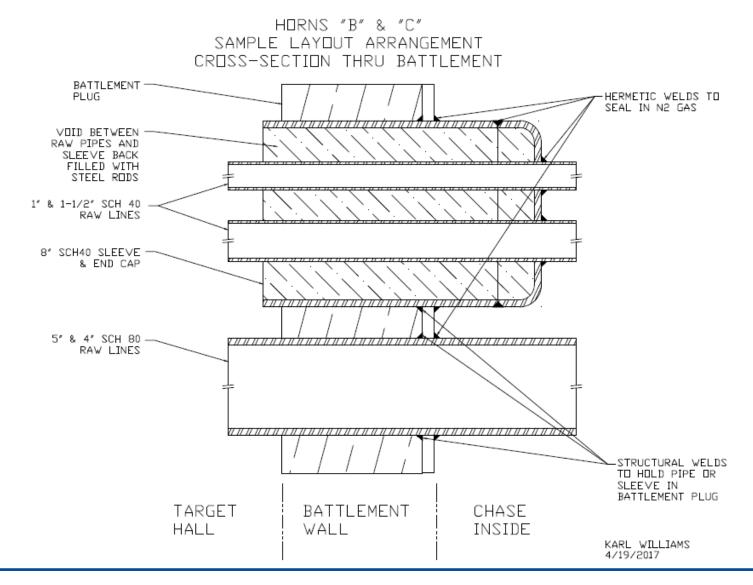
- NSCF reasonably certain about current layout, changes should be minimal
- On main level of THC, same as high bay
- Accessible only when beam is off
- Large room, 36' x 69' x 22' ceiling
 - Room for a mezzanine if expansion upward is required
- System outline boxes as shown are for area approximation only, not set in stone
- Has containment for each system, containment at the door, and floor drains to contained & controlled sump
- Fill for all systems is by 2" line from PB LCW

RAW System - Preliminary Design Review Target Hall RAW Systems Block Diagram

Arrow indicates direction of heat removal







RAW System - Preliminary Design Review Slide Title

- Click to edit Master text styles
 - Second level
 - Third level
 - Fourth level
 - Fifth level

Caption text for image.