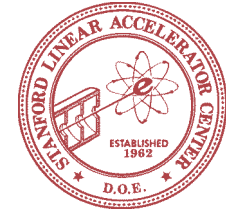


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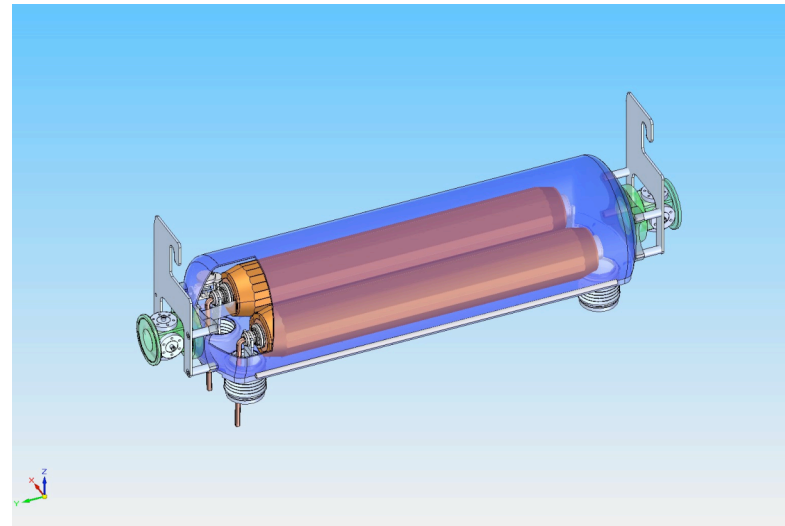


DRAFT

LARP Phase II Secondary Collimator RC-1

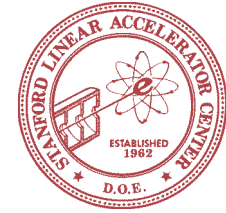
Collimator Development Status and Outlook

Revised 08/24/09

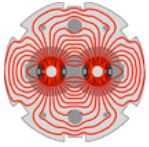




Outline

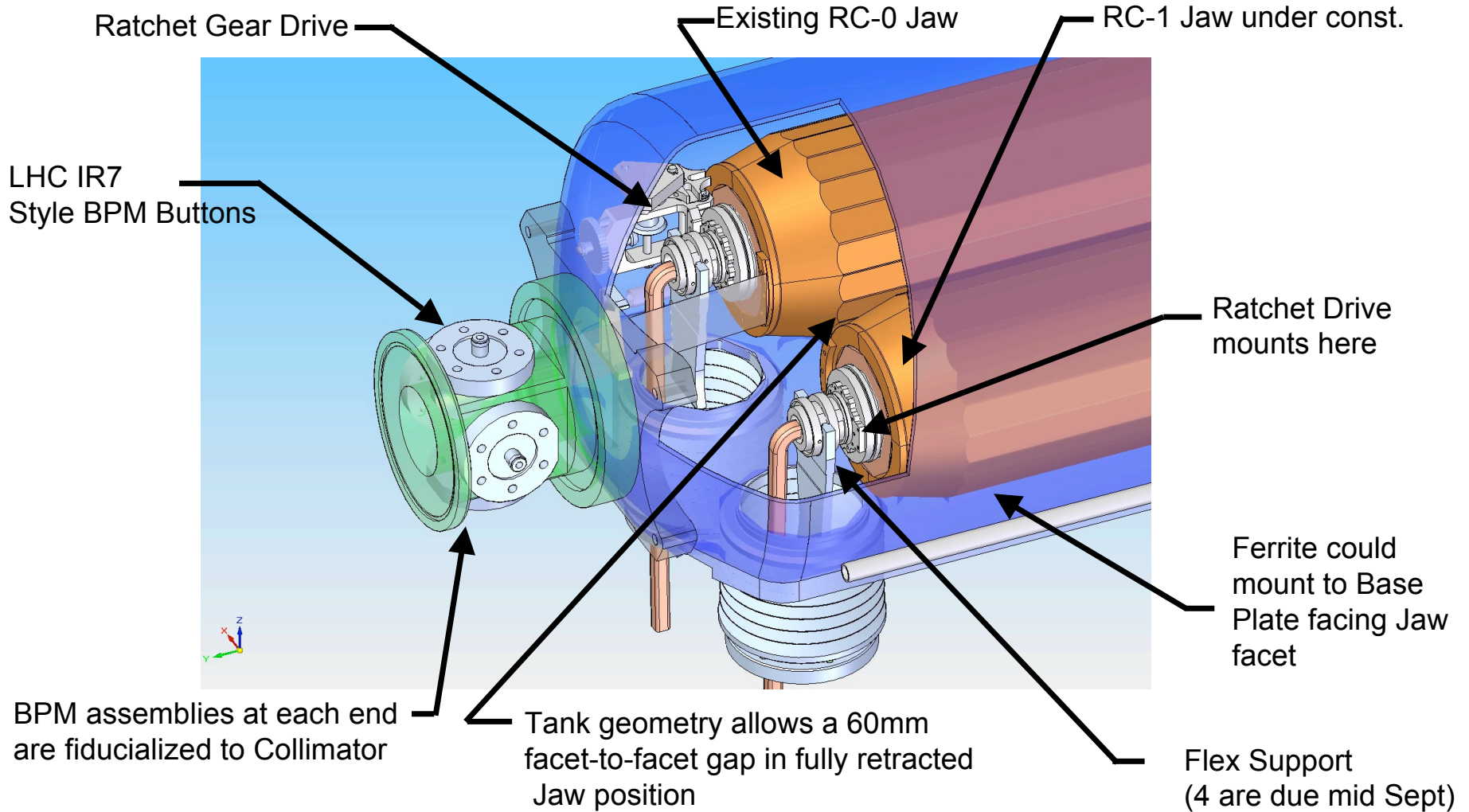
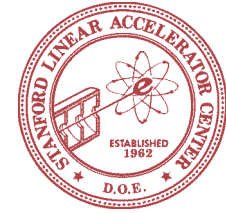


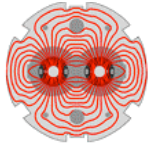
- Overview of SLAC design
- Fabrication update
- Outlook



LARP

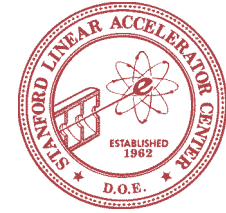
SLAC design



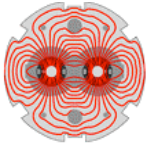


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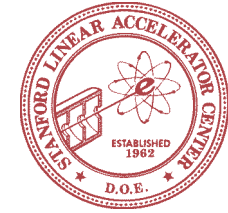
Overview (text)



- BPMs planned for each end of Tank
 - CERN Button Feedthroughs (LHCBPM_F0023) would be used
- The Heater Test Jaw (RC-0) pairs with RC-1 Jaw (under construction)
- Maximum Jaw separation increased to 60mm
- Ferrites for HOM damping
 - Simulations in progress to define ferrite details
 - Verified with bench testing @SLAC
 - Ferrites added then re-test done



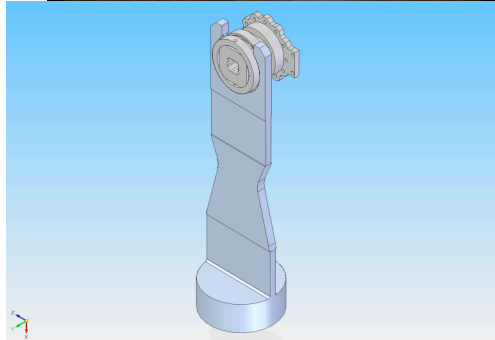
LARP



Fabrication status

Thru the bore twist test

Moly gear drive parts in house



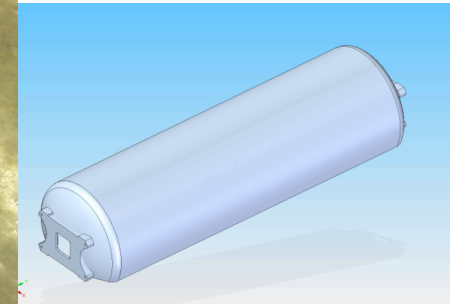
Flex Support Assy parts due mid September



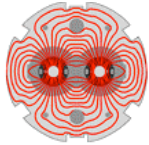
Inspecting the finished winding before adding the braze alloy



Glidcop for 3 more Jaws in house

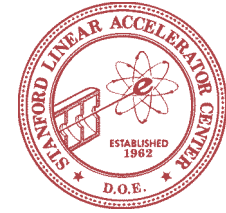


Tank dwgs complete early September

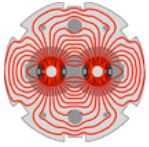


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Fabrication status (text)

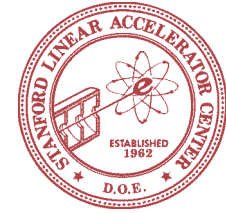


- Parts for 2 Rotation/Gear Drives are in house
- RC-1 Mandrel Assy is ready for braze preps
 - Through the center twist test successful
 - Test run of oven starts this morning
- 4 Flex Support Assemblies are due mid September
- RC-0 (Heater Test Jaw) modifications to mimic RC-1 are out to bid
- Vacuum Tank drawings complete first week of September

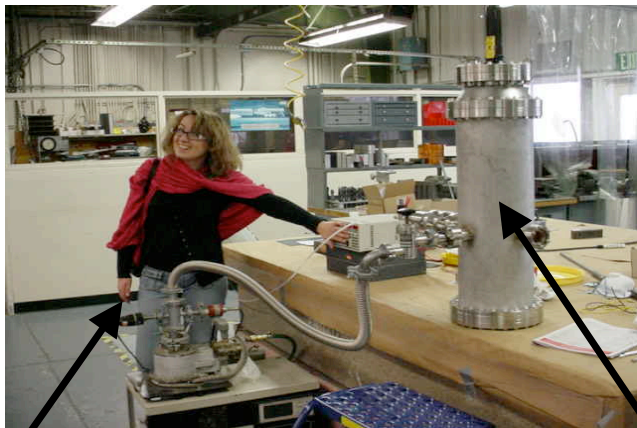


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Outlook



- Draft plans written for SLAC bench testing and possible SPS test
- Long term life-cycle testing of Ratchet drive (in a vacuum) starts soon
- Some parts for 2 additional Jaws have already been produced
- More details at next meeting



Gear Drive inside vacuum tank
Luisella is not



Remaining 4 Half Shafts
are now in house (2 shown)