

Phase II update 3/28/2017

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Previously....

- Full liquid test
- LN fast cooling
- Xe bottle pack and compressor recovery
- Shared heat exchange tower with P1
- Complicated breakout through vacuum space
- On the East side of the hut

Now

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Now

Gas tests only!

Cryo Implications

- No Cryo!
- No LN needed
- No TS needed
- No temperature sensors needed
- No heat exchange needed, so don't need to monopolize the P1 heat exchange tower
 - Can run simultaneously with P1

Vessel Implications

- No superinsulation required
- No vacuum vessel needed, only inner Xenon vessel
- Complicated breakout not necessary, one or two crosses with feedthroughs should be fine

Recovery Implications

- No LUX compressor or bottle pack needed for storage.
- SRV could be convenient storage mechanism since it can now handle all of the Xenon

Location Implications

- No longer tied to being in the hut
 - Way lighter
 - doesn't need to be beneath thermosyphons anymore.
- May still be there since that has the most space
 - But don't need to remove the roof to get it in, now that we don't need OV