Topics:

- In cryostat instrumentation responsibilities
- Who uses DUNE and/or cryogenics controls
- Flange allocations (are there issues)
- Signal processing & data-acquisition
- Data access and presentation immediate and longer term
- Outside cryostat responsibilities

Would like to identify questions and issues

Reference documents: see DUNE doc 1957 (contents will change)

NP-04 Cryogenics Instrumentation Reference Documents:

Document #: DUNE-doc-1957-v2 Document type: **DUNE** document Submitted by: Stephen Pordes Updated by: David Montanari **Document Created:** 23 Nov 2016, 09:56 Contents Revised: 23 Nov 2016, 11:14 DB Info Revised: 23 Nov 2016, 11:14 Update Document Update DB Info Add Files Username: Password:

Abstract:

as of November 23 2016

Set of documents relevant to working group activities.

Files in Document:

- NP-04 Piping&Instrumentation schematic as of Nov 10 2016 (NP-04 P&ID Nov 10 2016 AD.pdf, 1.2 MB)
- NP-04 map of penetrations and assignments as of Nov 2 2016 (NP-04 Penetrations Nov 2 2016 BL.pdf, 344.3 kB)
- Spreadsheet based on feedthroughs identified in P&ID AD Oct 13 (protoDUNE_cryo_instrumentation_SP_DM.pdf, 22.3 kB)
- email with reference to google-doc of anselmo cervera (protoDUNESP_instrumentation_google_doc .pdf, 52.9 kB)

Get all files as tar.gz, zip.

Topics:

- Prototyping:ProtoDUNE
- DUNE Collaboration: Technical Board: Cryogenics WG

Authors:

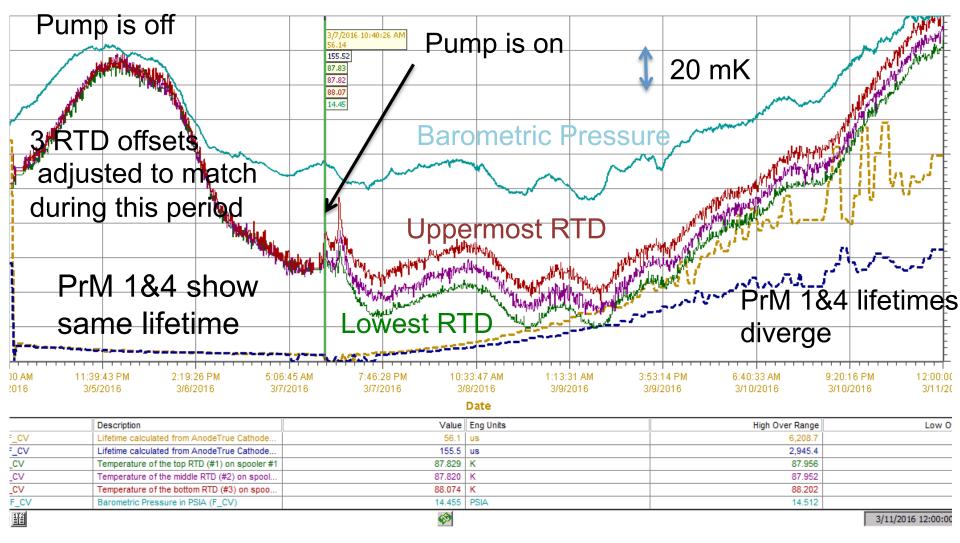
David Montanari

Notes and Changes:

Updated uploaded P&ID and map of penetrations.

http://docs.dunescience.org:8080/cgi-bin/ShowDocument?docid=1957

Example from incident at 35t where pump turned off...



NP-04 Cryogenics Instrumentation `Co-ordination Meeting' Example shows:

- Working instrumentation
- All data in one place (cryogenics system data base)
- Can be accessed remotely
- Can be plotted therefrom
- Some measurements (drift-lifetimes) processed in standalone systems and transferred to common cryogenics system data-base
- Other measurements (temperatures) processed by cryogenics system
- Atmospheric pressure is useful.

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