n-3He Work List

Seppo

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DAQ:

* Data Array – get working – who
* “Clean” and “Dirty” racks are in cave
  + 1. cable strain reliefs for preamp-ADC cables–by Eric
* Trigger pulses from “Dirty” rack to “Clean” through optical isolation

Preamp:

* Build a 36-ch current injection box – mountable to Preamps -Irakli
* Get all preamps and boxes ready – all tested?
* Get preamps powered – test parallel powering? – needs N2 cooling
* Mount preamp power supplies to “Clean” rack – in process
* Temp monitoring in cave – length of sensor wires need to be checked
* Test preamps in cave with LN2 cooling and DAQ

Test HV supply

* Have T for HV distribution to two connectors – done – test with 0.5 atm 3He

Monitor 1

* Check battery
* Check preamplifier functioning – cable through “Dirty” rack patch panel
* Test with DAQ
* M1 will be used to integrate neutron current on ion chamber

Monitor 4

* Check battery
* Check functioning of the preamp – cable – signal through patch panel

Spin flipper

* + Mount electronics to spin flipper rack and test
  + Test controls – need the trigger
  + Connect He supply and return lines to spin flipper
  + Test donate current reading with DAQ
  + Test RF generator with spin flipper
  + Fix the twinax-BNC cable

Laser

* + Ready but will be taken done for IRR

Ion Chamber:

* Mount and test rope guards
* Mount the preamp boxes
* Mount ion chamber to beam for IRR with robs
* HV test in 0.5 atm 3He
* Testing ion chamber with Preamps

Beam scanners

* Status
* Testing with M4 and preamp
* Software to read monitor signal and/or ion chamber signal
* Scanning plan – Mac stat
* Mount both for IRR

Slow Control

identify tasks; sensor and what needs to be done

* + B-field. Two Bartington MAG-03 DAM flux gates. Communication via RS-232.
  + Fixing of the 2nd flux gate in process
  + Pressure transducer for N2 cooling – analog signal
  + Flow indicator for N2 cooling – analog signal
  + Four temperature sensors on preamplifiers – communication via RS-232.
  + Pressure transducer for the SF He flow – analog
  + Flow indicator for SF He flow - analog.
  + Many of these signals need to be set to give an alert and alarm
  + Install instrumentation to “Dirty” rack
  + Additional reading like; proton current reading

Tritium:

* Contract with SRNL maybe in place ☺
* A draft for the Tritium safety plan with SRNL – in process
* Procedure for handling tritium manifold – in process with SRNL
* Design of tritium manifold – in process - consultation with SRNL
* Build tritium manifold – component identification in process

IRR

* Get items ready for IRR
  + We have electrical safety issues
  + Tritium handling/safety is doing a slow progress
  + Everything else ready