P0D Weekly Status Report and Plans

On site: Glenn, Kevin, Ian, Norm, Melanie, James and Istvan

• Water target slow controls issues over past week(s)
  • pressure sensor failures discovered weeks after failure
    • should have been discoveredreported earlier – P0D expert needs to be more careful
    • P0D expert duties have been modified
  • Current failed/unreliable sensors
    • Depth (bag#) – 6, 50, 31, 40, 49, 20 22, 13, 21, 1, 36
    • Level (bag#:height) – 22:all, 6:184cm, 25:0.5cm, 30:14.4cm, 11:126cm, 50:98cm, 34:98cm
    • Meeting dedicated to rectifying this situation on Wednesday
  • Depth sensor alarms required tuning to prevent false alarms
  • Temperature (water bag) sensors began giving false alarms today
    • I have disabled them in the GSC for the time being

Proper protocol must be used for making changes to the GSC, or any other system during the period where we are taking physics data

Changes affect everyone – we are not an isolated system

All changes to the P0D such as enabling or disabling alarm reporting needs to be approved by the run coordination group. The protocol is to give the request to the P0D expert who will raise the request at the 16:30 ND280 run coordination meeting.
• Light Injection System Issues (Bob may have more details)
  • Bob and Dan investigated why ¾ of the system died
    • found/replaced blown fuses
    • upon power-up ¼ of system continuously firing at max output level
    • this portion of the system was powered down
  • Also found evidence that during the past week or so there was one run where the LI was firing in time slices other than it’s own
    • Appears to be isolated, but still very scary since it isn’t understood
    • After gathering several hours of data for LI team to look at it was removed from the run and powered down
    • Potential fallout from LI flashes over-layed with beam events would be ugly
    • Can do studies between beam operation periods

• Temperature affect on gain
  • If there is concern of temp lowered gains falling below turn-on people should be thinking about a request to adjust HV levels