P0D Water Update

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Update Quick Notes

- Replaced sensors under ladders 3 & 4 (16 total)
  - Team: ScottD, PaulR, AlexC, DamonH, JayJ, TianluY, PaulD, AaronB
- Of 18 sensors sent 2 were bad (refurbished, overheated)
- P0D currently filled
- Fill went well
- Currently monitoring water bags
Overheated Sensor

Current vs. Time

![Graph showing current vs. time for different sensors.](image)

- **Current (mA):** 9 to 10.4
- **Fraction of a Day:** 0 to 7
- **Sensor 15**
- **Sensor 13**
- **Sensor 14**
- **Sensor 16**
**Updated Sensor Status**

| L | 1 | 3 | 5 | 7 | 9 | 11 | 13 | 15 | 17 | 19 | 21 | 23 | 25 | 27 | 29 | 31 | 33 | 35 | 37 | 39 | 41 | 43 | 45 | 47 | 49 |
| H | CAL | BAD | BAD | OK | NEW | BAD | OK | OK | BAD | NEW | Q | BAD | OK | NEW | NEW | NEW | NEW | OK | Q | NEW | NEW | NEW | OK | OK | NEW | NEW | NEW | N/C |

- **Sensor replaced last year before run 4**
- **Sensor replaced Oct. 2013**
- **Location of sensor from bag 48**
- **Calibration may have drifted, seems stable, will continue to watch**

http://www.t2k.org/nd280/p0d/operations/p0d_target_water_operations_docs/water-expert-reference/sensormapOct2013/view

**New**

- Sensor replaced last year before run 4
- Sensor replaced Oct. 2013
- Location of sensor from bag 48
- Calibration may have drifted, seems stable, will continue to watch

**Cal**

- Stable, may need re-calibration

**Q**

- Questionable, drifting sensor

10/22/13
Fill

• Filled P0D on Friday 10/18 (PaulR and AlexC)
• No major problems during fill
• Some weird sensor behavior after fill
  • Level sensors went wet
  • After blow out, some level sensors went dry
  • Level sensors went back to wet over weekend → air bubbles from blow out causing sensor to go dry
• Topped off 49 and 50 (10/21)
Summary

- No leaks seen in bag 43
- All new sensors appear to be working properly

To Do

- Continue monitoring P0D water bags
- Plan to drain Nov. 2
- Make extra leak detector sensor boards (6; replace 3)

Departures

- ScottD: Oct. 31
- PaulR and AlexC: Nov. 4