

# NOvA Experiment Status

## All Experimenter's Meeting

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Jul 21, 2014

# FD: Detector Assembly Progress

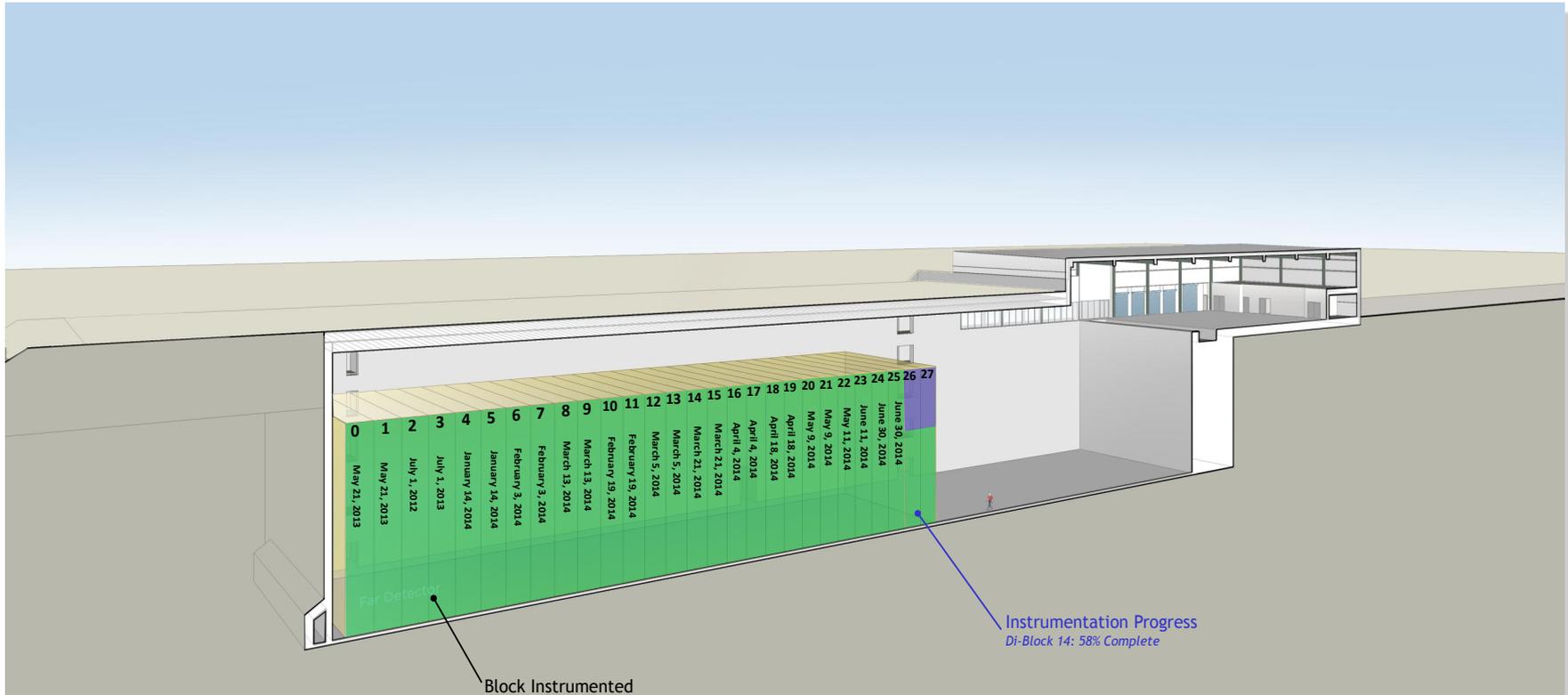


The Intensity Frontier



## NOVA Far Detector Assembly Progress

Status Date: 21JUL14



Instrumentation Progress  
Di-Block 14: 58% Complete

Block Instrumented

**93% cooled down**

**14 kilotons = 28 NOvA Blocks**  
28 blocks of PVC modules are assembled and installed in place  
28 blocks are filled with liquid scintillator  
27.16 blocks are outfitted with electronics

# FarDet: Data-Taking



Jul 18 at 8pm

Partition 1

Hit rate recorded by FEB in Hz



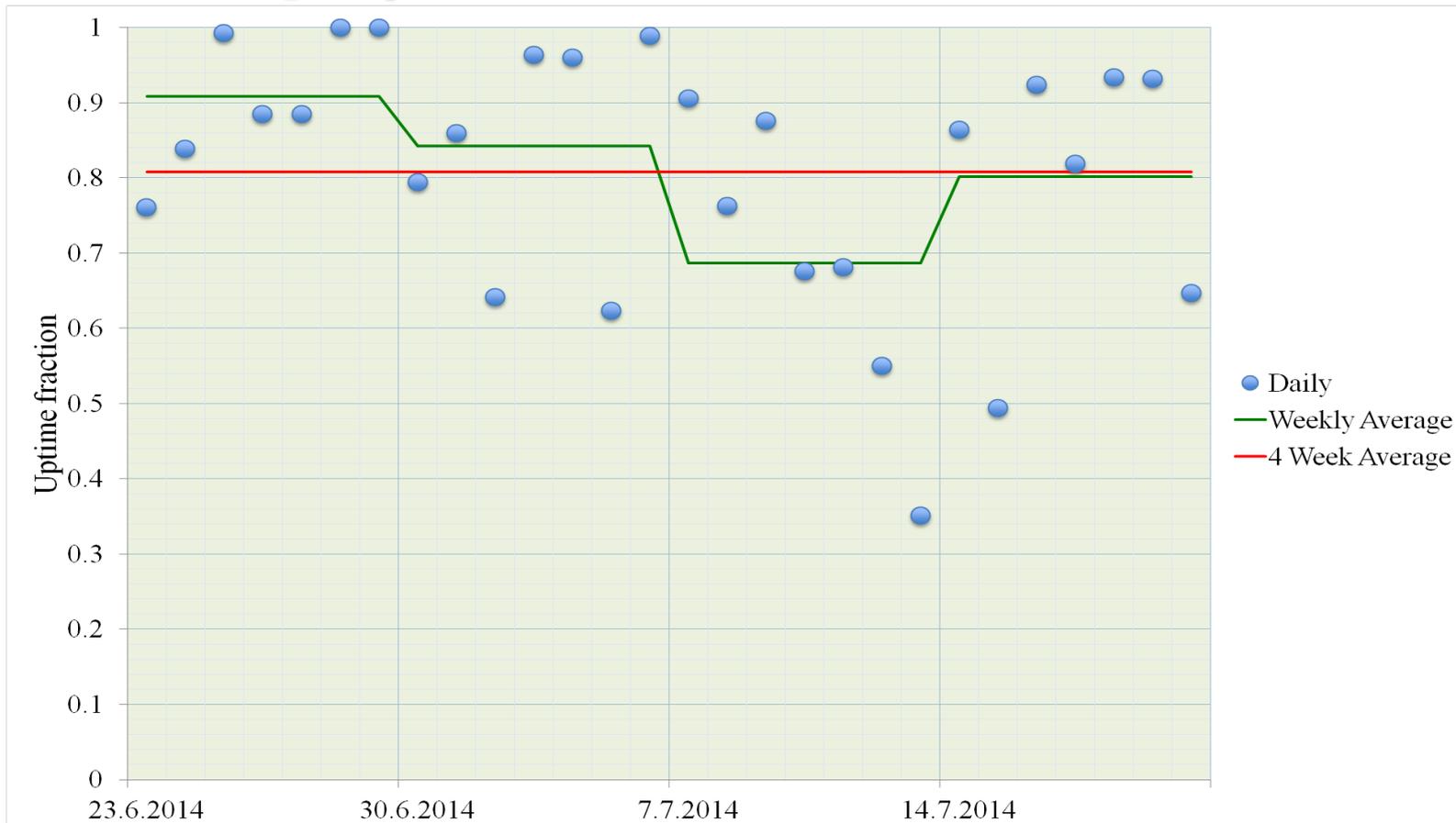
FEBHitRateMap : source = FD01.shm  
EventID: 16287 / 6 / 24253  
Fri Jul 18 20:33:53 2014 (UTC)

## Partition 1

- diblocks 1 – 13 over weekend
- Running ~99% active,
- Cooled APDs, HV at full gain values.
- Top half of di-block 12 from today

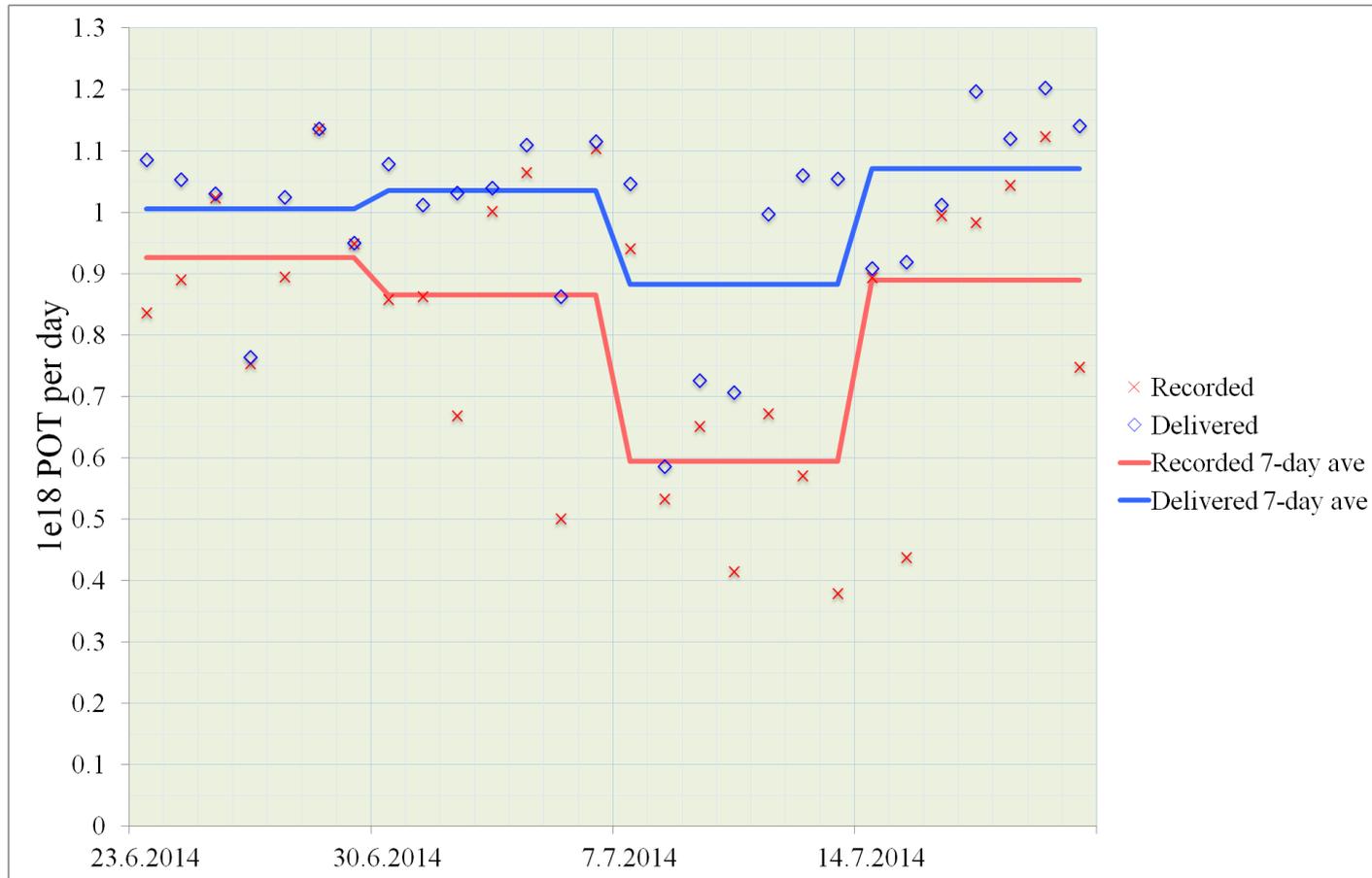
## Partition 2 – Diblocks 14

# FD: DAQ Uptime



- Last week was better than previous week, we reached 80%.
- Mon/Tue: late evening water leak followed other issues (detector not cooled, VNC server crashes, some misunderstanding of shifters what to do)
- Thu: usual maintenance /repair day.
- Sat evening and Sun we had two water leaks with total down-time of 10 hours.

# FD: POTs delivered/recorded



- Last week was better on both number of delivered and recorded POTs.
- We recorded in average 0.89 e18 (from 1.07) pots/day with poor 83% efficiency.



# Reminder



## FarDet:

We have scheduled our far detector building power outage for tomorrow 7/22 starting at 08:00. Estimated time of the outage is 4-6 hours.

The electrical work done for this outage is:

- Switch the building UPS to be downstream of the building back up generator.
- Add electrical circuits in the far detector computing center to accommodate additional power needed for our complete complement of computers for the DAQ/trigger.

**NO beam is expected at that time  
(the beam shutdown plan for 7/22-23)**

# Summary



## FarDet:

- **27.5** of 28 blocks (98%) of FarDet fully-instrumented, running with full gain.
- **26** of 28 (93%) blocks successfully cooled down.
- We tried to run the contiguous 13-diblock physics partition over weekend, nevertheless still had 2 water leaks with about 12 hours of down time for the leak and recovery.
- Efficiency of data taking last week was significantly better than last week, we achieved (still below-average) 80%.

## NearDet:

- APDs installed on DiB-3, 4; continue on 2, total 54%.
- We started to run all partitions 24/7 using shift personnel.