



# RunCo Operations Report

for

# ~April 2024

by [Joshua Barrow](#)

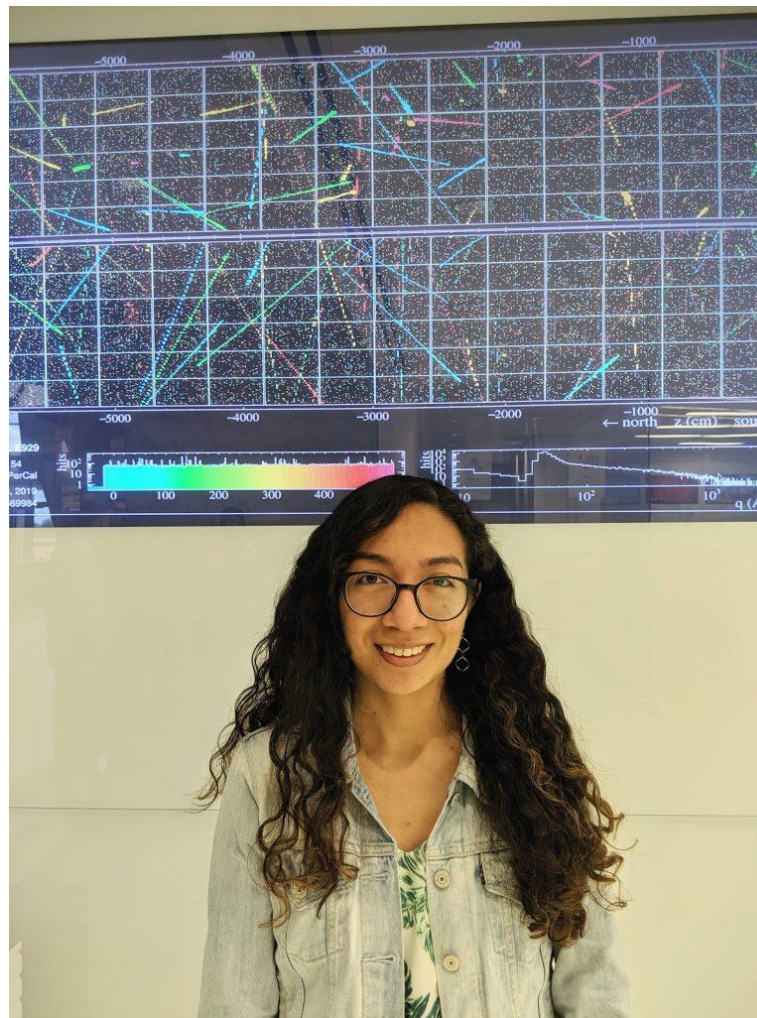
with Maria Casales

The University of Minnesota

May 2<sup>nd</sup>, 2024

# Welcome New NOvA RunCo, Maria Martinez-Casales!

Maria started May 1<sup>st</sup>!



# NOvA Operations Highlights

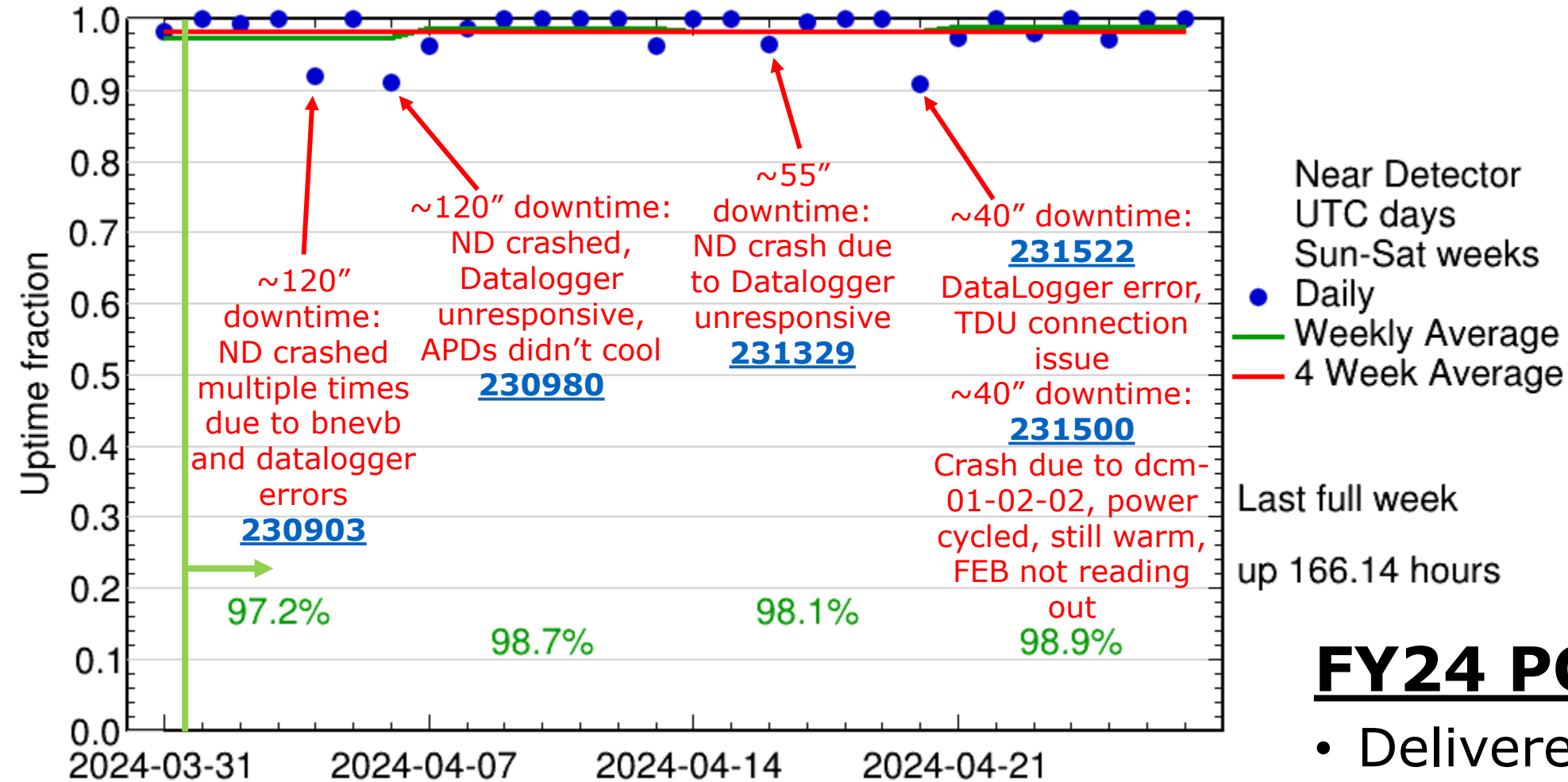
- Thanks to all the shifters & experts for their hard work!
  - Some MCR contact issues...
  - Giving name, institution, & contact phone # (preferably anonymized institutional #) to MCR
  - New contact sheet shared with MCR
- Maria on as RunCo through May 31<sup>st</sup> at 11:59pm! Welcome!
- Ceph migration for web servers largely successful, continues today
- MINOS elevator 2<sup>nd</sup> inspection completed, personnel basket in play for FNAL employees
- Want to restart ND refurbishment work: vacuum testing APDs, making new ones
  - APDs still in LArTF—will be looking into getting things back up and running soon, ~1 month!
- Uptime very high for detectors, very few crashes!
  - ND crashed  $\gtrsim 10$  times, some interesting SNEWs issues
  - FD operating pretty well, crashed ~3 times

# Near Detector Summary

~Monthly Average Livetime Fraction: 98.25%

## Total POT recorded

- Total:  $40.40 \times 10^{20}$
- FHC:  $26.80 \times 10^{20}$
- RHC:  $13.59 \times 10^{20}$



## FY24 POT

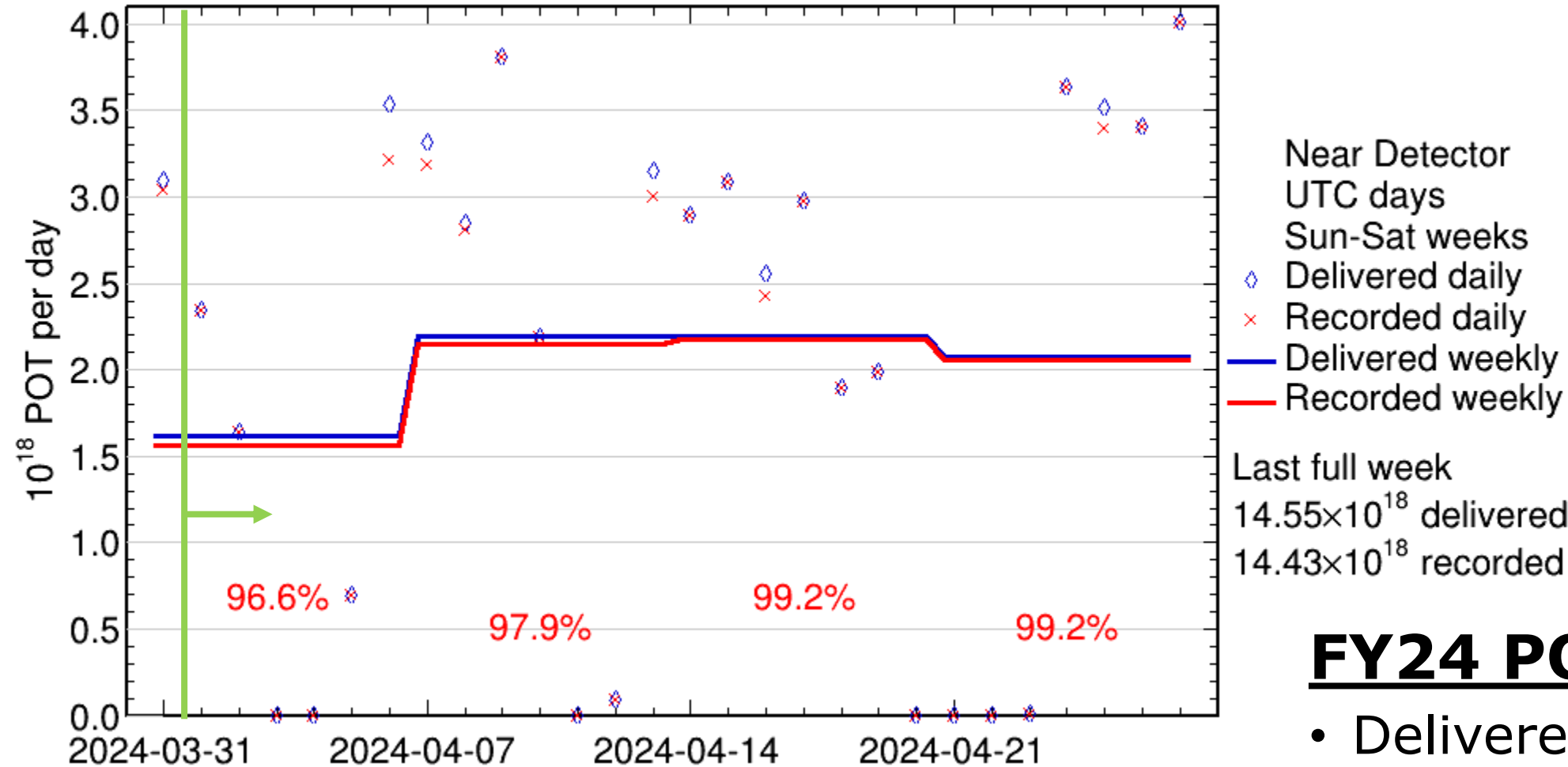
- Delivered:  $8.43 \times 10^{19}$
- Recorded:  $8.29 \times 10^{19}$
- 98.36%

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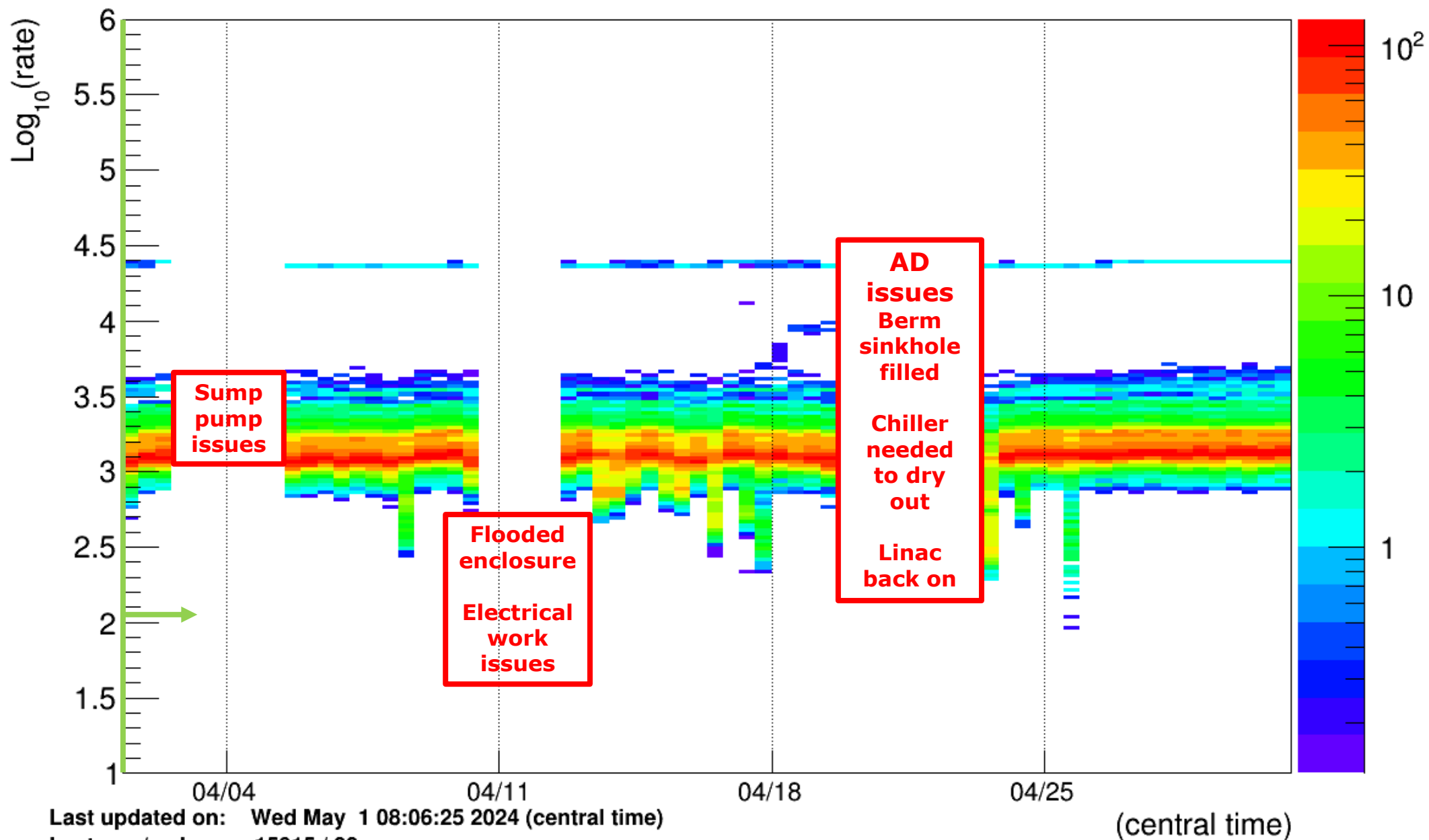
## FY24 POT

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NuMI FEB Hit Rate Spectra vs. Time - partition 1



Last updated on: Wed May 1 08:06:25 2024 (central time)

Last run / subrun: 15815 / 22

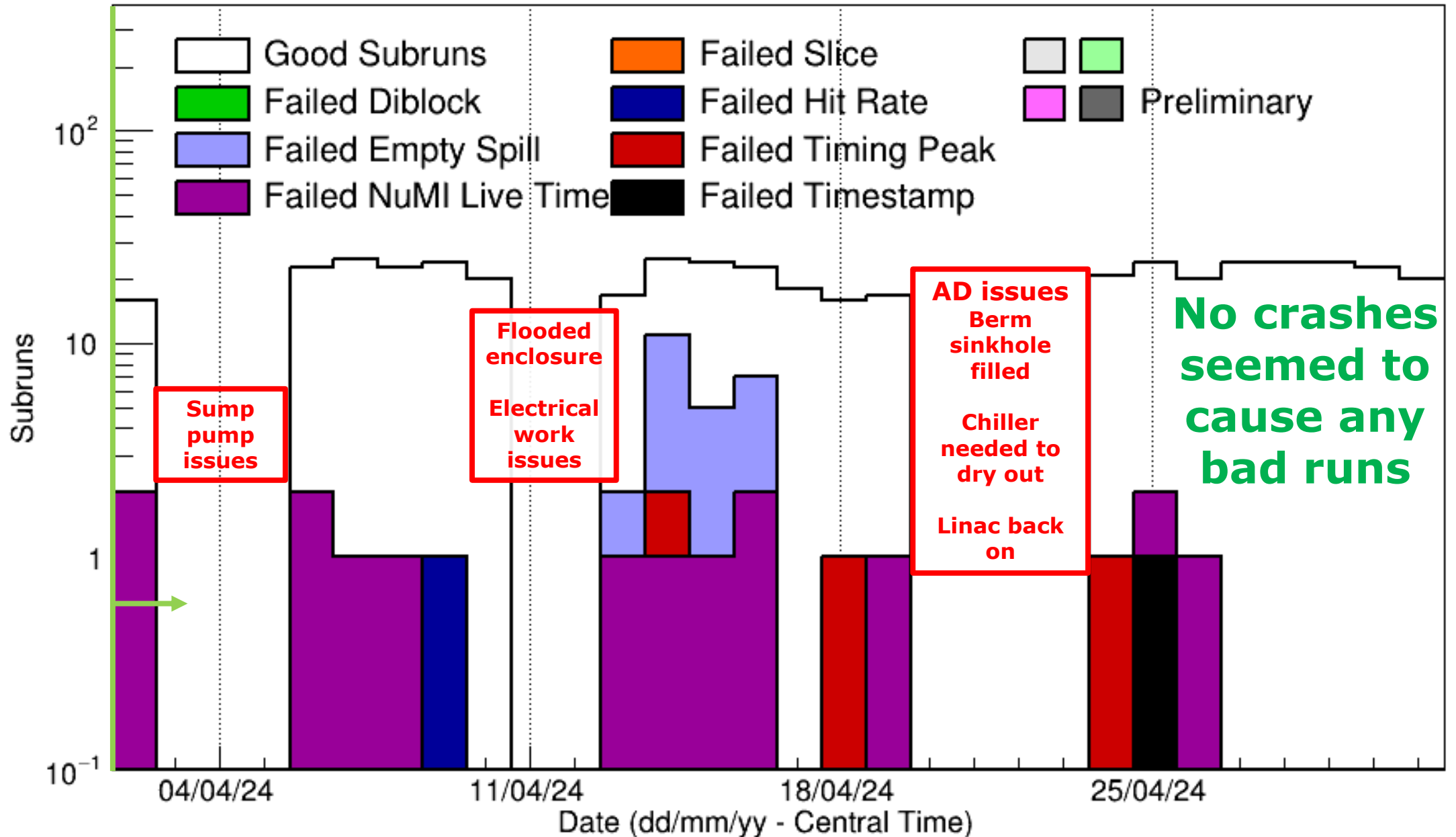
(central time)

# Near Detector Summary

~Monthly Average Livetime Fraction: 98.25%

Last updated on: Wed May 1 14:02:36 2024

## Near Detector

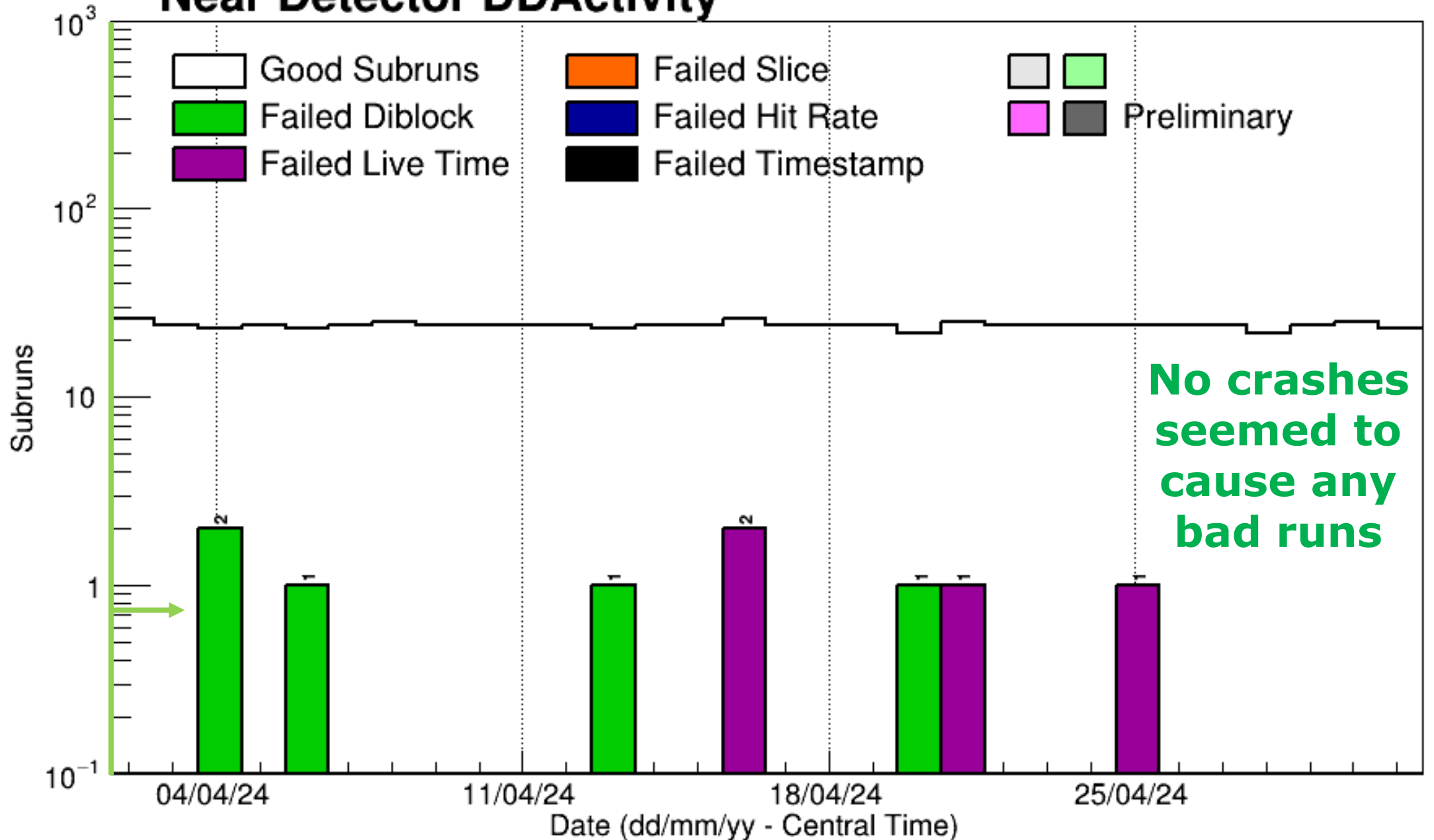


# Near Detector Summary

~Weekly Average Livetime Fraction: 98.25%

Last updated on: Wed May 1 13:47:12 2024

## Near Detector DDActivity



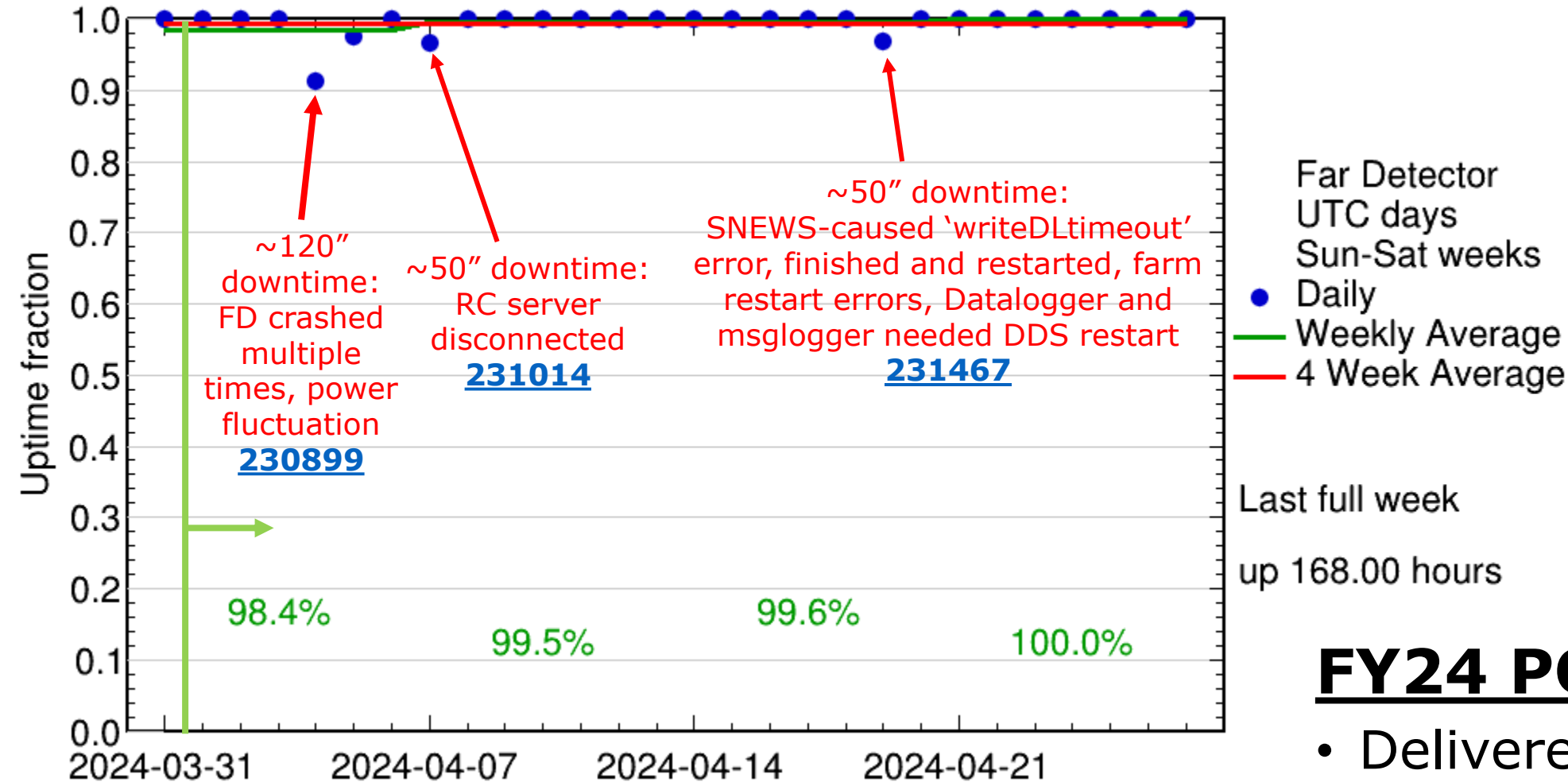


# Far Detector Summary

~Monthly Average Livetime Fraction: 99.35%

## Total POT recorded

- Total:  $42.94 \times 10^{20}$ 
  - FHC:  $29.42 \times 10^{20}$
  - RHC:  $13.53 \times 10^{20}$



## FY24 POT

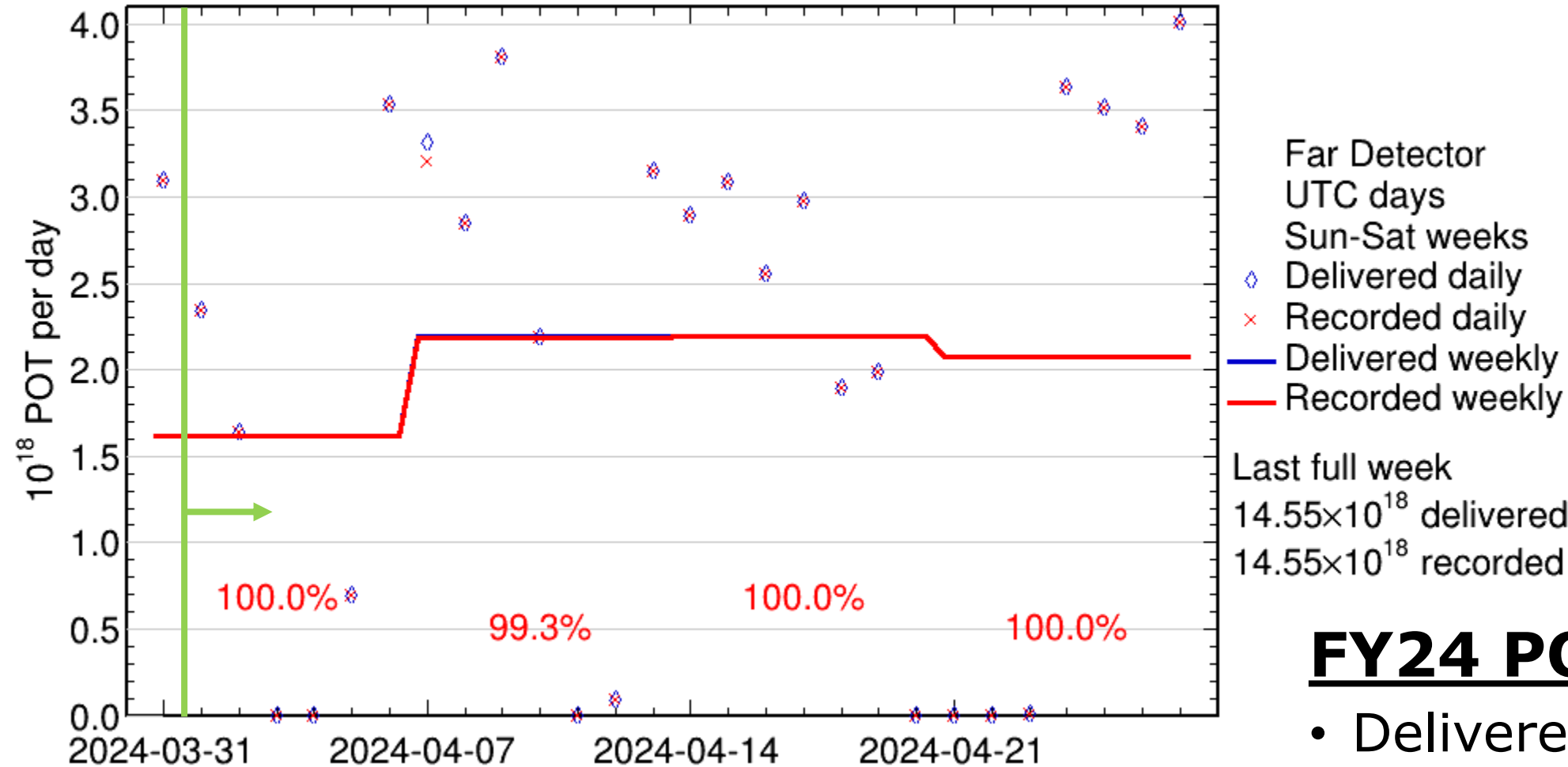
- Delivered:  $8.43 \times 10^{19}$
- Recorded:  $8.42 \times 10^{19}$ 
  - 99.83%

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## FY24 POT

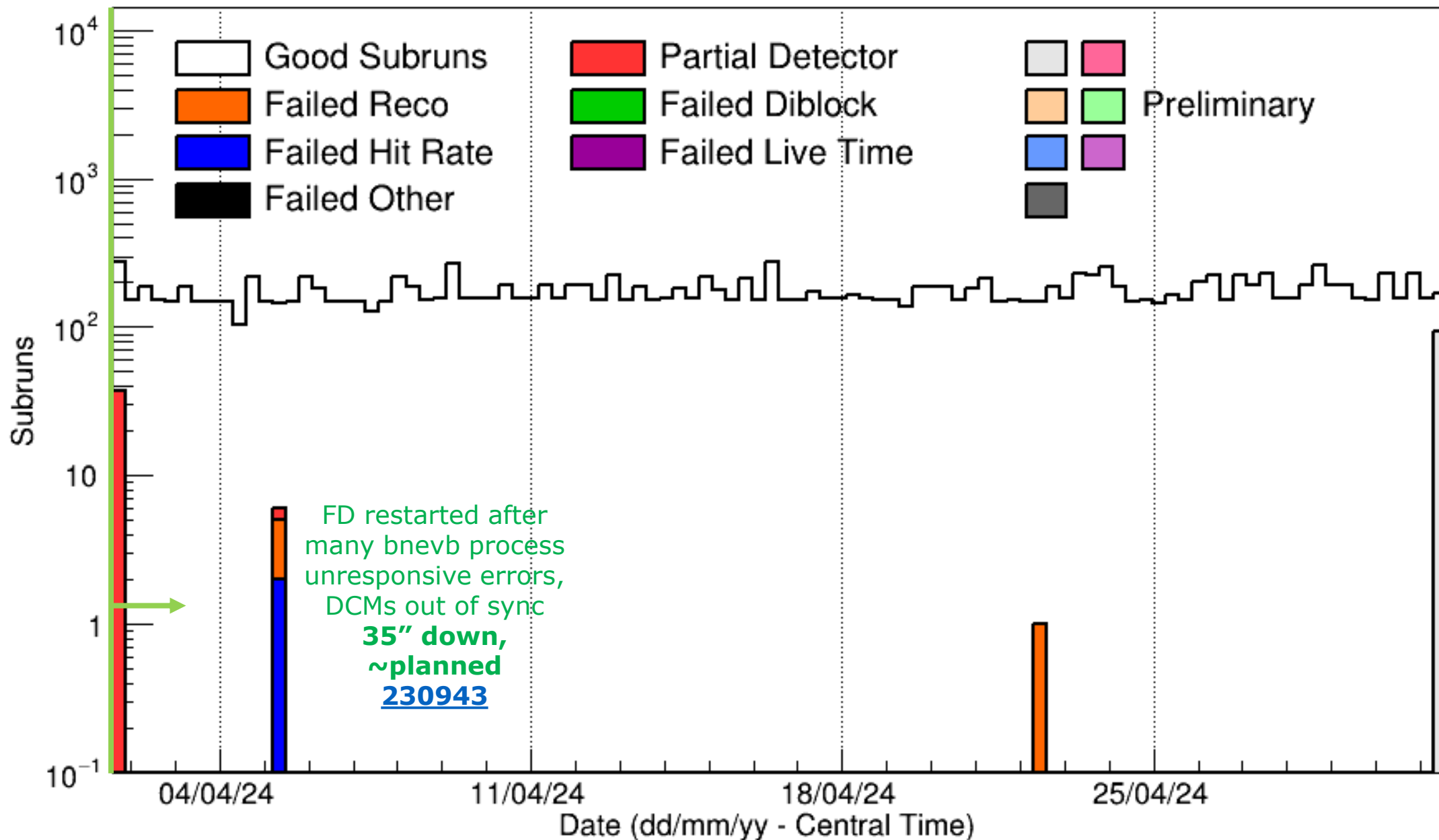
- Delivered:  $8.43 \times 10^{19}$
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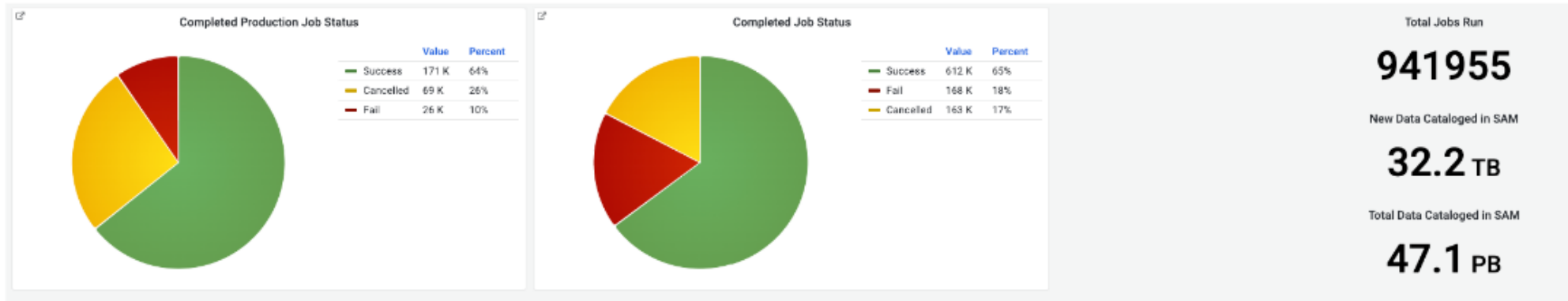
Last updated on: Wed May 1 14:06:40 2024

## Far Detector



# Latest $\nu$ Candidate

# NOvA Production



In April, NOvA ran a total of 612k jobs, of which 171 k were from production.

Production was affected by

- slow prestaging,
- jobs held because of a bug in Condor (shadows/limit),
- cosmic filtering jobs failures at ALCF and QMUL (under investigation), use Fermigrid meantime.

Prod5.1 samples:

- concats for several analysis groups,
- several full-scaled samples (Rock, CRY),
- investigated some bugs found in filtering.

Miniprod6.1:

- Completing the remaining samples and start thinking about new miniproduction and new big production campaign starting in autumn.

# NOvA

## Experiment Contact Flow for MCR Operators

### 1) NOvA Shifter Contact

- Shifter name
- Shifter institution
- Shifter contact number (ask/given)
  - Be sure to note the country code!

If no answer...

### 2) NOvA RunCo Contact

- Google Voice (preferred): +1 (331) 465-9875
- Josh Barrow Cell: +1 (423) 774-0745
- Maria Casales Cell: +1 (515) 441-1986

If  
no  
answer...

## LAST RESORT!

### 4) NOvA Spokespeople Contact

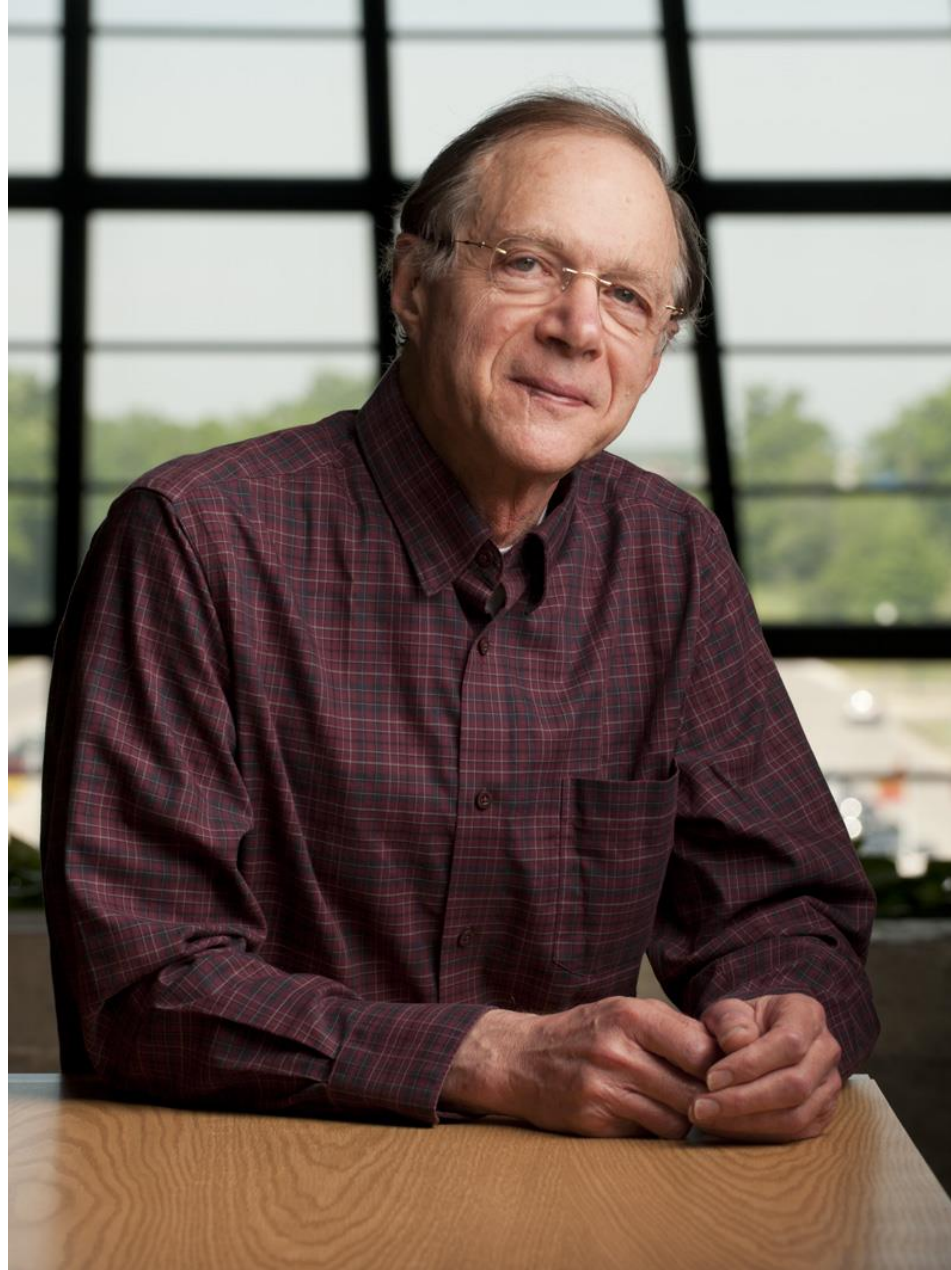
- Tricia Vahle Cell: +1 (757) 746-3462
- Alex Himmel Cell: +1 (310) 666-9426

If no answer...

### 3) NOvA Operations Manager Contact

- Yagmur Torun Cell: +1 (312) 420-5519

# Farewell, Boris



[Boris Kayser Obituary - West Chicago \(1938-2024\) \(chicagotribune.com\)](https://chicagotribune.com)  
<https://inside.fnal.gov/2024/04/boris-kayser-passed-away-on-april-13/>  
[https://youtu.be/NNFk7A7Ps9s?si=ak6o73\\_Aet3aGMkl](https://youtu.be/NNFk7A7Ps9s?si=ak6o73_Aet3aGMkl)  
<https://physics.tamu.edu/events/are-we-descended-from-heavy-neutrinos/>  
<https://npc.fnal.gov/wp-content/uploads/2017/06/2016-Boris-Kayser-NuMass.pdf>  
<https://www.amazon.com/s?k=9789971506629&i=stripbooks&linkCode=qs>