XB2 Summary

• Was at ≈ 21MW in Structure B and flat running.

• Last week a HVPS failed when I attempted restarting it, believed to be the ACDC converter. A contactor was also damaged.

• Spare one is with ScandiNova and currently being repaired.

• Additionally, last week a circuit breaker on the XB2 rack tripped three days in a row at 5:30pm. We have now switched plugs around to draw less current from this rail and have had no problem since.
LAST WEEK:

• XB3AB:
  • Continued conditioning with 200ns pulse length
  • Line 1 – 34.23 MW
  • Line 2 – 36.78 MW
  • Relaxed conditioning algorithm
  • No radiation problems

• XB3CD:
  • Continued at 33MW at same 150ns pulse length.
  • Lots of PC and hybrid breakdowns.

THIS WEEK:

• XB3AB:
  • Continued conditioning with 200ns pulse length
  • Line 1 - 36.3MW
  • Line 2 – 38.3MW
  • Increased Klystron Pulse to 2.3E-6 from 2E-6

• XB3CD:
  • Continued at 33MW at same 150ns pulse length.
  • Can do kly pulse experiment now?
  • Down to 100ns?
Week History

Breakdowns in Hybrid.

Due to saturation.

Klystron pulse increased from 2.0us to 2.3us.
Week history

No breakdowns in Hybrid.

This line saturated too.

Klystron pulse increased from 2.0us to 2.3us.
Week history

Weird artifact mid week.

Lots of room to do klystron pulse length experiment.
Week History

Weird artifact mid week.
BDR4: 23 BDs in $2.16 \times 10^8$
@ $33.00$ MW, $150$ ns max power

Line 4-TD24-BO
Line3&Line4 BDR

Mean power BDR

Max power BDR
XBOX3 Line 2 – T24_N4

LAST WEEK
Week history
LAST WEEK
Week history