

A0 Abort System Power

AGAIN!

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Power Loss “Signature”

◆ Same as last December

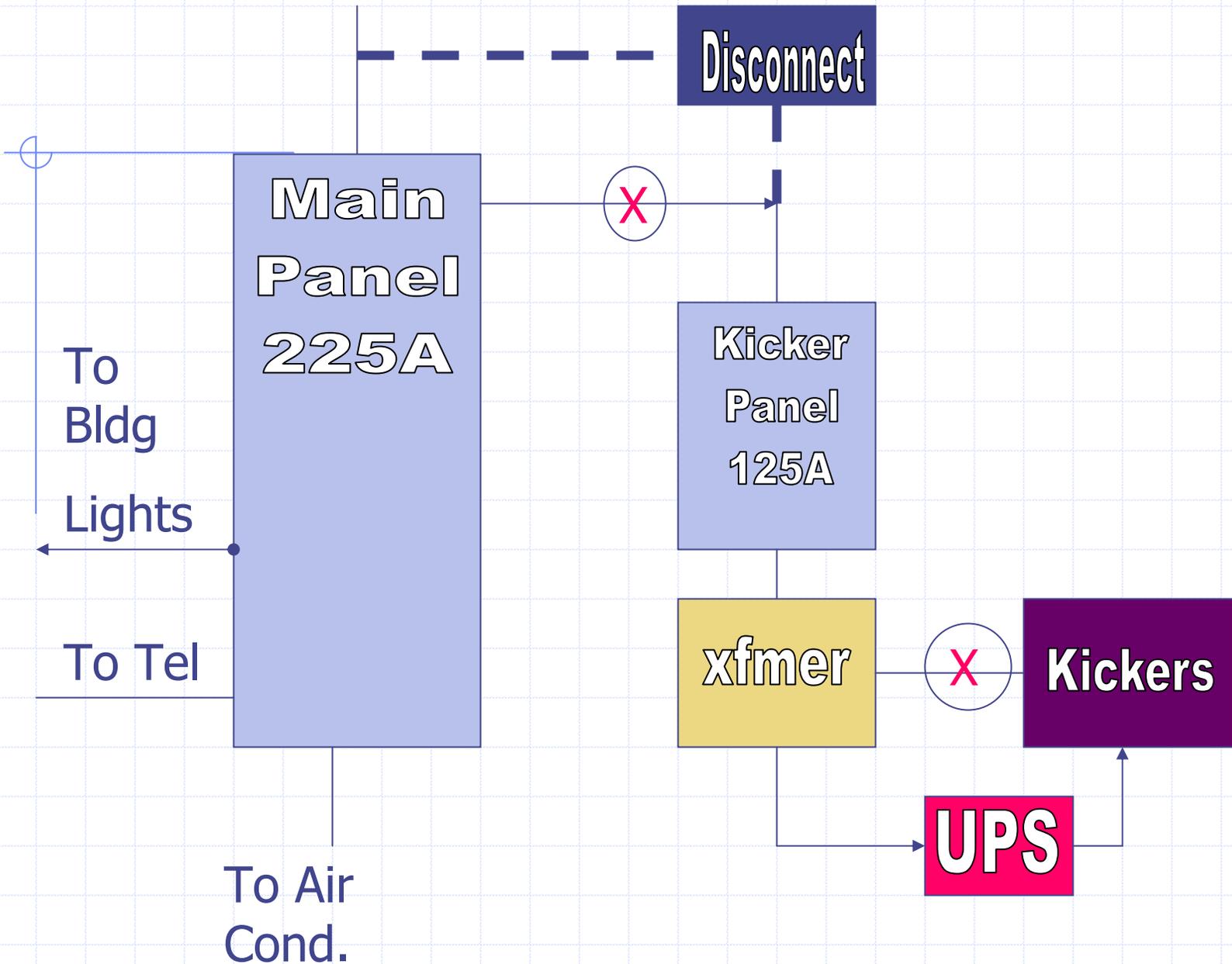
- Crew found TEL breaker tripped and the main breaker tripped.
- Main Breaker is 225 Amp Unit.
 - ◆ Was replaced after last “event” with new breaker.
 - ◆ Old breaker was re-certified by Manufacturer and met all performance specs. I.e. good breaker

Power Distribution

- ◆ After the last event the TEL was run at maximum current for a few hours to verify its operation. No problems were found.
- ◆ This time the problem on the power supply became obvious from the damage. Probably the cause last time too. (can invent plausible scenario)

What are we doing?

- ◆ We are moving the kickers to a separate power feed so problems in the Main panel don't bother the kickers.
- ◆ We will be adding UPS to the ten kicker systems, the timing fan out rack and the Abort timing generator.



Abort Marker Spec. In place NOW and will be battery backed up.

3. Channel Function

1) Channel 0

- Channel 0 arms on either of 2 conditions:

1) TCLK \$4B

2) Falling edge of Tevatron BP/ABT, only if BP/ABT has been high for more than 100 mSec.

- timer 0 then is triggered on the next TVBS \$AA

2) Channel 1

- Channel 1 arms on one of 4 conditions:

1) TCLK \$4B with TVBS \$AA not present

2) Falling edge of Tevatron BP/ABT with TVBS \$AA not present, only if BP/ABT has been high for more than 100 mSec.

3) TVBS missing for 2 full turns

4) TVBS \$AA missing for 5 turns

- timer 1 is triggered on synthetic marker that is synchronized to last TVBS \$AA

4. Synthetic Marker

- internally generated marker equivalent to TVBS \$AA, synchronized to TVBS \$AA