

# 2011-01-05 Wednesday Morning Notes

Wednesday, January 05, 2011

12:34 PM

## **Tevatron Failures spurs downtime, studies, etc...**

- On Christmas Store 8388 ended when the vacuum at B21 went bad, causing a quench in the B22 cell.
- A leak was located on the downstream N2 bellows on the B21-1A spool.
  - The leak was on the downstream end of the spool piece on the bellows that connect the spool piece to the double turn around box. In the process of leak checking they also found several other minor issues on this spool piece, they believe the best course of action is to replace the entire spool piece. The leak was large enough that when the nitrogen line was pressurized with helium techs were able to feel the leak on as they brush their hand over the bellows assembly.
  - Spool was replaced
- A single phase leak was then found on B13-5.
  - The leak at the B-13-4 interface was localized to the upstream end of the B-13-5 magnet single phase pin weld. This is a pin that is socket welded into the single phase flange collar that holds and guides the internal anti squirm device.
  - In a last ditch attempt was made to fix the leak on the upstream end of the B-13-5 magnet single phase pin weld. This is a pin that is socket welded into the single phase flange collar that holds and guides the internal anti squirm device. Once opened and inspected it was determined by pressurizing the single phase and applying snoop that the pin weld on this device still leaks. A welder was called in again to re-weld the leaking interface. A new seal was installed.
- Had a leak on both BPMs at B12. Replaced the BPMs.
- Permission to cooldown happened yesterday at 1930.
- Cooldown is currently underway.