

- **Summary**

- By 5:45am on Tuesday, we transferred and then stacked and held onto pbars for the entire day shift awaiting the HEP shot. Recycler already had $260e10+$.
- We didn't transfer to Recycler until 21:54, and even then it was a partial transfer since the Tevatron quenched during the evening shift shot setup and the Run Co only wanted $100e10$ in the Recycler for the owl shift shot.. The Accumulator started with $175mA$ and ended with $118mA$. Recycler started at 52 and ended with $100mA$.
- After that it was back to normal iterations of stack to $50mA$ and transfer

- **Stacking Numbers:**

- Stacked $245.3e10$ from 7:30am until 7:30am.
- Ran 8 Booster turns with $5.9e12$ to $6.2e12$ on target.
- Productions were 14-17s with 2.4 second cycle time, and low 20s with a 4.4 second cycle time.
- Stack rates were 10-12mA/hr with the larger stack sizes. Overnight stack rates were in the 13-15mA/hr range as a result of the more normal stack sizes.

- **Transfers:**

- Sent $236.61e10$ to the Recycler in 13 transfers over three sets.
- Efficiency averaged only 74 percent
 - Two transfers from large stacks
 - Emittance blowup from 1.2π to 3π on transfer 6511, which was the transfer from $146e10$.

- **Studies:**

- Tuned on stacking during the day shift.
- Destructive D/A studies on the evening shift (<http://www-bd.fnal.gov/cgi-mach/machlog.pl?nb=pbar07&action=view&page=375&scroll=false&load=>)
 - Transverse Bands 3 and 4 aren't doing much
 - Beam has uniform structure in all three planes....would expect a gaussian distribution in the transverse planes.