

Summary of RTCH06, 07 and 10 Conditioning

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Status

- RTCH06 was fully conditioned (as of 7/05/11) to operate with a forward power of 27.5 kW, a pulse width of 3 ms and a rep rate of 2 Hz.
- RTCH10: 7/20/2011, 31 kW, 3 ms, 2 Hz
- RTCH07: 8/15/2011, 31 kW, 3 ms, 2 Hz

Baking

- The cavities were not baked.

Vacuum

Initial (before RF was applied) and final pressure in cavities, with ion pump and turbo pump, are listed below.

Note that the amount of time the cavities were pumped on before applying RF varied.

Note also that values are approximate and pressure fluctuates throughout the day even in the absence of RF (see Figure 4).

Format: initial / final with RF / final without RF (torr)

- CH06 – 1.4e-07 / 1.5e-06 / 1.5e-07
- CH10 – 3e-07 / 1.5e-06 / 2e-07
- CH07 – 1.7e-07 / 5e-06 / 9e-08

Details

- In the interest of time, we did not wait as long (as we had in the past) for the cavities to pump down.
- See <http://dbweb4.fnal.gov:8080/ECL/hins/E/index>

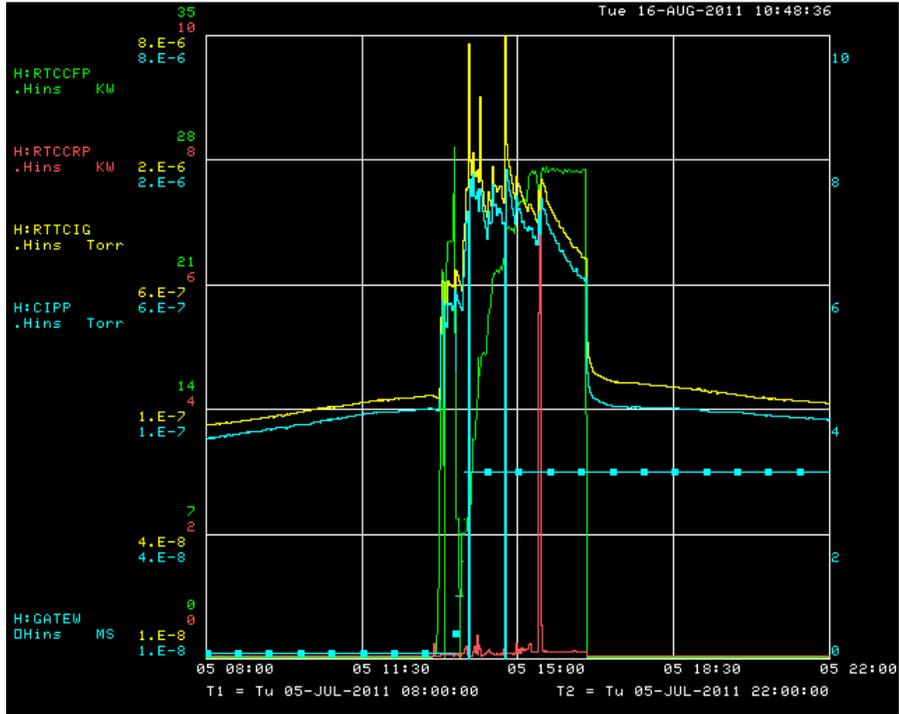


Figure 1: Forward/reverse power (green /red) and pressure (yellow – ion gauge, blue –ion pump) during the final hours of conditioning of CH06

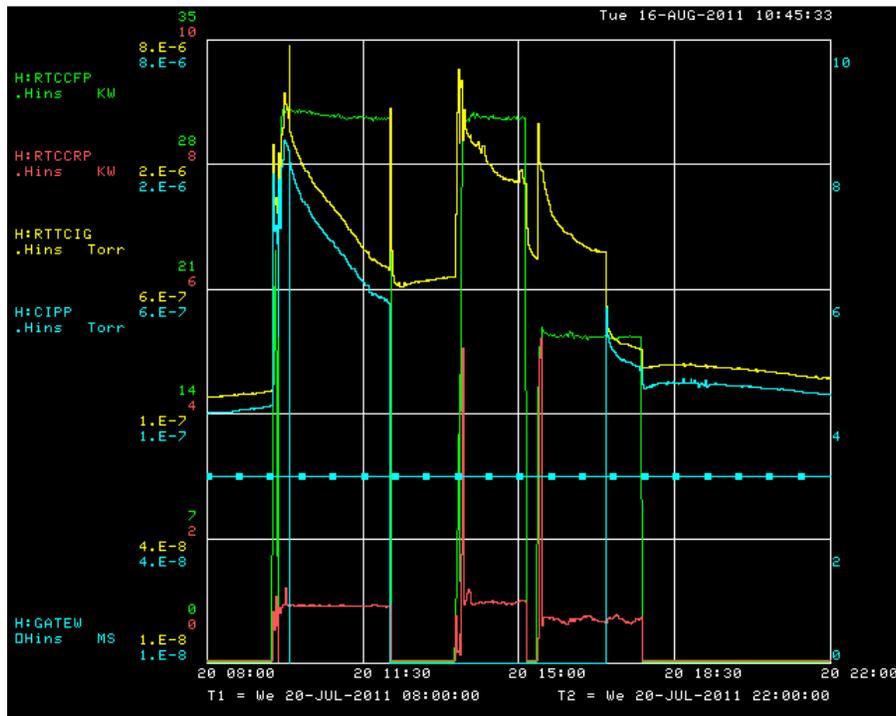


Figure 2: Forward/reverse power (green /red) and pressure (yellow – ion gauge, blue –ion pump) during the final hours of conditioning of CH10

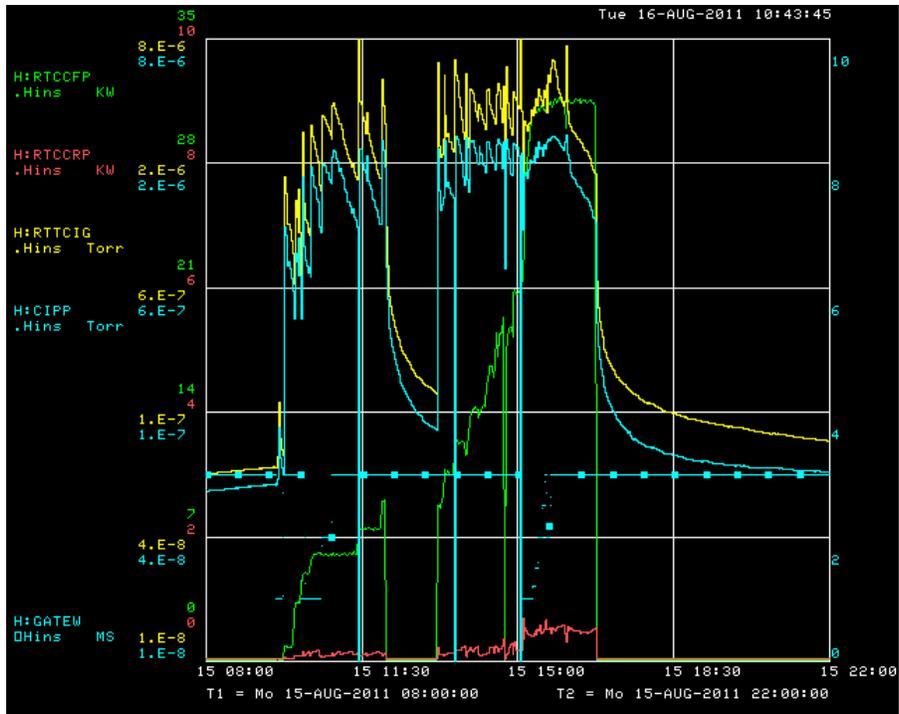


Figure 3: Forward/reverse power (green /red) and pressure (yellow – ion gauge, blue –ion pump) during the final hours of conditioning of CH07

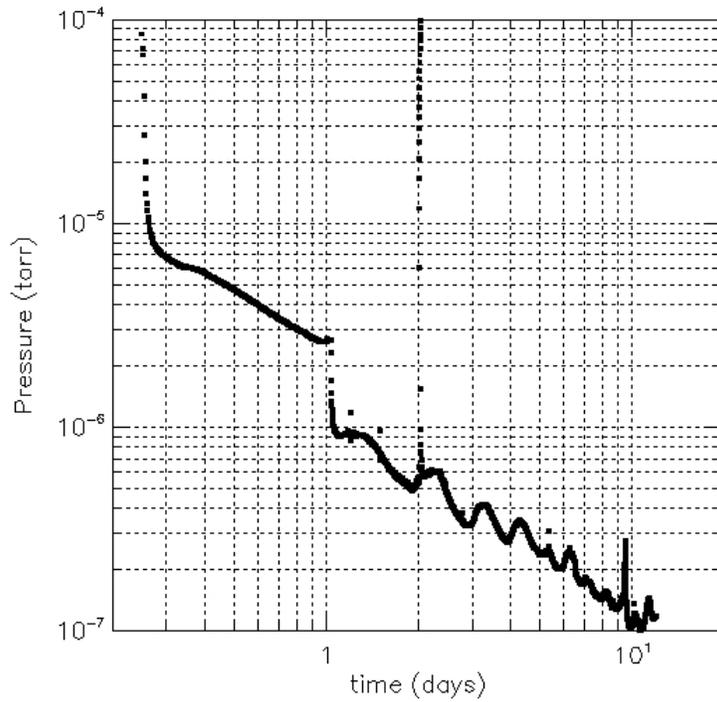


Figure 4: Pumpdown behavior of CH6, starting on 6/15/2011