Checklist for TPC after long shutdown:	valid 7/14/2009
All tasks to be performed BEFORE pole tips are inserted.	
CABLES	
1. Check all cable connections on TPC face that were	
uncabled for maintenance work:	
Check labels	
Check ground sleeves	
Check ground sleeves	
ANODES	
1. Both VME processors boot and ARCNET OK	
2. Both serial sessions OK	
3. Ramp HV to 100 V (N2 in chamber)	
4. All channels draw ~500 nA on ramp up?	
5. No channels trip	
6. Check DC current at 100 V – any new high currents?	
7. Check hardware trip limit for all cards:	
Inner = 1210 V	
Outer = 1500 V	
8. Test interlock from PLC	
CATHODE & FIELD CACE	
<u>CATHODE & FIELD CAGE</u> 1 Field age gurrent and voltage read out by Kiethlau?	
1. Field cage current and voltage read out by Kiethley?	
2. Remote power switch turns Glassman on/off?	
3. Glassman turns on remotely? Slow controls)	
4. Ramp Glassman to 1000V (N2 in chamber)	
5. Check field cage currents and voltages.	
6. Test interlock from PLC	
GATED GRID	
1. Both crates (control & driver) OK?	
2. Check capacitance for each cable/sector – pin to pin & pi ground	ns to
2A. Check cable ground braid to platform ground	
3. Turn on GG – download setpoints	
4. Pulse GG with pulser – check monitor out for all sectors	
5. Calibrate outputs if needed.	
6. Check that ground sleeves in back of rack are in place.	
7. When done, ensure trigger cable from TCD is plugged in	
8. Test interlock from PLC	
GROUND PLANE PULSER	
1. Wavetek on and downloaded pulse selected?	
2. Downloaded pulse looks ok? (Parameters stored correctly	<i>v</i> ?)
3. Rate limiter plugged in?	
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 4. Check that rate limiter is working before plugging into fanouts 5. Trigger Wavetek with pulser – check all outputs from fanouts 6. Replace bad fanout modules. 7. Make sure trigger cable from TCD plugged into Wavetek 	
8. Check PLC interlock	
FEES & MWC FEES	
1. Check that all blowers in rack row 2B are running	
2. Turn on VME crate and boot processor	
3. Make sure all manual switches on LVPS are in remote position	
4. Turn on all FEEs and MWC FEEs remotely.5. Turn off TPC water skid – do all FEEs go off?	
6. TPCTEMP computer running and updating?	
LASER	
1. Power on both lasers – locally	
2. Beams aligned?	
3. Photodiode signal ok to TCD and cathode TDC?4. Check remote on/off of lasers (slow controls)	
5. Check remote viewing of lasers	
6. Test PLC interlock	
TPC & GLOBAL INTERLOCKS	
1. Check inner field cage air blower – on & flow switch ok?	
2. Wet, in turn, east and west TPC Tracetek – alarm & skid stops?	
3. Platform methane sniffer ok? Contact CAS if not	
GAS SYSTEM	
1. Close SV18 and do leak rate test with N2	
 Calibrate and test trips of Pioneer methane system Calibrate and test trip of gap methane detector 	
4. Calibrate CAI methane analyzers	
5. Check limits and test hardware & PC alarms.	
6. Bake out dryer & purifier	
7. Check two big compressors	
8. Test all gas pipe clamps and tighten	
ELECTRONICS	
1. Do a geometry run – compare to baseline	
2.Do a pulser run – compare to baseline	
3. Do a full pedestal run – check RMS offline	