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L1Cal Pulser Run Procedure

Logging in:

- 1. ssh d0cal@d0ol107.fnal.gov
- 2. cd/home/renkel/prod20/
- 3. ./PulserTool.sh

Running the Pulser:

- 1. Be sure, that there is no beam, and the pedestals are taken.
- 2. Ask DAQ shifter to take CAL and L1CAL crates out of run.
- 3. Start reading events by selecting on the "L1Cal Tool Pulser Diagnostics Main Menu" window: File/Read the Run. On prompt answer 'OK'. The window is shown in Figure 1).
- 4. Wait until see the log message in the "Diagnostics output" window (shown in Figure 2) below) and additional 10 seconds.
- 5. Start Pulser run:
 - a. Go to 'Taker'
 - b. Select 'Modify/Change trigger'
 - c. Go into (partly could be there)online/data/coor/configurations/commissioning/cal/ramps/run1/pulser_cal_runI-pat_withl1cal_low-1.0
 - d. 'OK'
 - e. Press'start'
 - f. Input the name and comments and then "OK" in the main 'taker' window
- 6. When the rampwatcher shows 32 patterns, first stop the taker (in taker, press "stop") and write comments. Then "OK".
- 7. Save the run by selecting on the "L1Cal Pulser Diagnostics Main Menu" window: Save (maybe type run number)
- 8. Free the trigger on Taker.



Figure 1) The Pulser Tool Diagnostics Main Menu window

Diagnostics output		
	Welcome to L1Cal Pulser Diagnostics Tool!!! Please, be sure, then there is no beam and the pedestals are taken!!! Select 'File/Read the run' and follow instructions Save the run (File/Save). You will be asked to enter the run number Read it from the taker. Then run the tool by selecting File/Analyze. After you are set, wait for 40 seconds until you get the 'Done!' message in this window. Meanwhile the analysis will be carried out and an e-mail to administrator will be sent.	
j	blue: failed for at least one, but less, than 6 patterns pink: failed for at least 6, but not all patterns red: failed for all patterns	

Figure 2) Diagnostics output window