

QPS Individual System Analysis





Outline

- 1. PM data flow
- 2. Data file verification and individual system analysis
- 3. Data viewer and analyser
- 4. Status



PMA: Data flow





PMA: Four levels of analysis



- 4. Event analysis
 - Transient + logging + alarms
 - Generate event report
- 3. Interactions analysisSequence of eventsDelays
- 2. Individual system analysis•Status flags
 - •Time stamps/sync
 - Waveform analysis
- Data format verification
 Header
 - Data structure



PMA: QPS Info file





PMA: Analogue and digital graphs





PMA: Multi-graph



Two analogue graphs with different scales and one digital for faster visual inspection.



PMA: Data file details

Columns to show Columns to show Columns to show All Act Sel(#1) Data File: POST_MORTEM_0_2005_08_18_15_10_36.txt MILESTAMP Clip (1) Clip (2) All Act Sel(#1) Clip (1) Clip (1) Clip (2) Clip (PM_TableT_Snow										
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20.019 1124270627 672121000 16 05265 22 1 1124270620 010		013	1124370620	1	33	30200	10	673131000	11243/063/	20.013	
20.010 1124070607 0703131000 16 33203 33 1 1124370620 815 20.833 1124070637 673131000 16 05565 23 2 1104270520 233		010	1124370620	2	33	90200	10	673131000	11243/003/	20.010	
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20.644 1124370637 673370000 16 95266 37 2 1124370620 844	T	844	1124370620	2	37	95266	16	873370000	1124370637	20.844	

Table view of data file with quick selection of columns of interest (Selected in graphs, external signals, ...)





•Logging data will be accessed from the PMA program by an Oracle interface in C within LabVIEW (Alessandro and Alastair).

•Alarm data will be accessed through a SDDS dump file produced by the LASER system (Niall).



PMA: Status



- 4. Event analysis
 - Transient + logging + alarms
 - Generate event report
- 3. Interactions analysisSequence of eventsDelays
- 2. Individual system analysis•Status flags
 - •Time stamps/sync
 - Waveform analysis
- Data format verification
 Header
 - Data structure