Draft

WATCHMAN DAQ WG Pre-Meeting

Hawaii Jan 2019

Charges:

1. Determine milestones and deliverables, and their schedule, for all proposed DAQ systems leading up to CDR and PDR. (See below for brief description of CDR & PDR.)
2. Decide on suite of performance tests to be performed on all systems. Establish performance criteria. Define assumed waveform compression factors.
3. Produce initial block diagrams of each proposed DAQ system.
4. Define boundaries of system for cost comparison purposes.

8:00-9:30	*System Status Reports*	
8:00-8:30	CAEN	Tyler A./Penn State
8:30-9:00	ANNIE/K0TO	TBD/U. Iowa
9:00-9:30	TARGET	TBD/U. Hawaii
9:30-10:00	*Coffee break*	
10:00-3:00	*Preparation for CDR and PDR*	
10:00-10:15	Purpose of CDR/PDR	Doug
10:15-10:45	CDR: known system risks, challenges	All; Note taker:
10:45-12:00	PDR: Common and specific performance milestones & schedule; re-evaluate requirements	All; Note taker:
12:00-1:00	*Lunch break*	
1:00-1:30	PDR: Test procedures, performance criteria	All; Note taker:
1:30-1:45	PDR: System bandwidths (define assumed compression factors)	All; Note taker:
1:45-2:00	PDR: Cost estimation (define DAQ HW boundary)	All; Note taker:
2:00-2:30	Interfaces of DAQ with other systems	
2:30-3:00	*Coffee break*	
3:00-4:00	Interfaces (jointly with HV, REBAM, Site...)	

System status reports should include

- system block diagram

CDR:

- Demonstrate that our concept for the DAQ will meet mission requirements.
- List and describe interfaces (with HV, REBAM, HVAC,...)
- List requirements, showing how they flow from upper level requirements
- Describe our three candidate systems. Explain how each maps against requirements. Explain downselect criteria and process.

PDR:

- Implement downselect
- Present final system design
- Show that final system design satisfies requirements
- Demonstrate functionality of final system design
- Tighten up interfaces