

LCLS-II Cryogenic System  
Workshop on Commissioning of LCLS-II Cryoplant  
4-5 December, 2018, Bldg CEBAF CENTER, Rm F113  
Held at, Jefferson Lab, Newport News, VA

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AGENDA

**04-December-2018**

<b>Time</b>	<b>Topic</b>	<b>Discussion Lead</b>
08:30 AM	Introductions & Workshop Goals	J. Hogan
08:45 AM	SNS Cryoplant Commissioning – Past Experiences	D. Arenius
09:30 AM	LCLS-II Over Arching Commissioning Plan - High Level Flowchart	R. Bhattacharya (Commissioning Lead)
	<u>Discussion</u>	ALL
	<ul style="list-style-type: none"> <li>• Idealized sequencing of subsystem commissioning</li> <li>• Expected duration of each commissioning step</li> <li>• Installation contractor delivery sequence by subsystem</li> </ul>	
10:30 AM	Break	ALL
10:45 AM	Continue Over Arching Commissioning Plan Discussion	ALL
	<b>Sessions – By Subsystem</b>	
11:30 AM	<u>Detailed Discussions for ALL Subsystems</u>	R. Bhattacharya
	<ul style="list-style-type: none"> <li>• Overall Prerequisites: <ul style="list-style-type: none"> <li>○ Equipment and Piping Installation Verification Checks</li> <li>○ Equipment Specific Controls Checks</li> </ul> </li> </ul>	
	<u>Subsystem #1: Basic Utilities</u>	
	<ul style="list-style-type: none"> <li>• Preparation</li> <li>• Equipment Specific Controls Checkout</li> <li>• Commissioning Plan - Step-by-step equipment dependent</li> <li>• Duration</li> <li>• Acceptance Criteria</li> <li>• Required Reviews, <ul style="list-style-type: none"> <li>○ Pre and Post Commissioning– SLAC and JLab</li> </ul> </li> <li>• Duration and effort level</li> </ul>	
	<b>Repeat for each subsystem</b>	
12:15 PM	<i>Lunch</i>	ALL
12:45 PM	<u>Subsystem #2: System Utilities</u>	
	Continuation of morning session	
01:45 PM	<u>Subsystem #3: Purification</u>	ALL
	Purge pump backfill	
02:45 PM	<i>Tour CHL &amp; Workshop</i>	J. Creel/K. Dixon
04:00 PM	<u>Subsystem #4: Compressor System</u>	ALL
05:15 PM	<i>Adjourn for the day</i>	

## 05-December-2018

08:15 AM	<u>Subsystem #5: 4.5 K Cold Box</u>	ALL
09:15 AM	<u>Subsystem #6: 2 K Cold Box and Interface Box</u>	ALL
10:15 AM	<i>Break</i>	
10:30 AM	Reconcile Construction Schedule with Idealized Commissioning Sequence <ul style="list-style-type: none"><li>• Quick Review of Overall Commissioning Sequence</li><li>• Review of Construction Schedule with Anticipated Sub-system Availability Sequence (LN2, Gas He tanks,</li><li>• Reconciliation of Actual Delivery Sequence to Idealized Commissioning Sequence</li></ul>	R. Bhattacharya M. Bevins/V. Heloin ALL
12:00 AM	<i>Lunch</i>	
12:30 PM	Commissioning Staffing Experiences– Levels, Skills Types	J. Creel/ALL
01:00 PM	Onsite Training @ JLab – Experiences from SNS	J. Creel
01:30 PM	Documentation Preparation – Status/Allocation/Plan	R. Bhattacharya
02:30 PM	Review Action Items	J. Hogan
03:30 PM	<i>Adjourn</i>	

### Suggested Participants:

#### Jefferson Lab:

D. Arenius, R. Bhattacharya, M. Bevins, J. Creel, K. Dixon, J. Preble, W. Oren, J. Wilson, C. Scanlon, C. Kaufmann, J. Tschirhart, J. Hogan

#### SLAC: (recommended)

Eric Fauve, Vincent Heloin, Marc Ross, Andrew Burrill, John Schmerge, John Galayda, Vishy Ravindranath, Scott Kaminski, John Pucci, Antonio, DeLira, Dirk Pflueckhahn, John Seabury, Keith Jobe