# 2020-11-03 Detector Planning Meeting notes

### Date

03 Nov 2020

### Attendees

- McKelvey, Mark E
- Philip Hart
- Kazutaka Nakahara
- Zimmerman, Kayla
- Rebecca Armenta
- Conny HanssonBhavna Nayak

### Goals

• Set and status planning activities for detector development and deployment.

### Discussion items

Time Item	Who	Notes						
0 min Beamti me support update		<ul> <li>Updates since Monday?</li> <li>Baseline JF and 2M 'traveller' pages on Confluence.</li> <li>Collect and analyze any remaining in-lab test data.</li> </ul>						
0 min Prioriti es Review	All	Group priorities review:  In-House proposal writing (due 11/6):  Hi-Z  PhiXHR  tixel  UXI  HEXITEC (MHz?)  Testing  Setup ePix10k, ePix100, JF smalls for test in lab  Characterize: Noise vs. temp, response vs. bias, stitching in transition regions, charge injection, timing window vs noise, bad pixel maps, constants  UED testing  RIXS-CCD cooler  RIXS-CCD noise vs. temp  Analysis  Gather and process relevant commissioning data for Mp travellers on Confluence.  Solid pedestals  Noise map  Response uniformity (mini-X cu-fluorescence)  Bootstrap gain (sealed source)  Linearity (signal injection)  Documentation  Complete on-line travellers for Mp detectors  Development  RIXS-CCD, review draft Project Plan w/NEH 2.2  RIXS-CCD Concept Design quote in hand (\$58k)  Anton project at UCB/SSL underway, biweekly meetings  SXR Downselect prep (Peter says 2/1, checking w/TID)  Lab 'commissioning'  DAQ  Storage nodes  LCLS VII compatibility  Table seismic  Biof for racks in chase  DP node purchase						

Status	In-person tags in 1050??
	CH: (Are we ready to fix dashed line issue in the hutches?)
	Attending conference this week, Hi_Z meeting tmrw.
	RA: (Are we on track for Lin tests, and when to schedule him?)
	<ul> <li>Loan stages to CXIensure return.</li> <li>Meet re cooling conceptsmet with Jim re outside space: not much.</li> </ul>
	KP: JSA summary list circulated
	<ul> <li>XPP/MFX/XCS fibers due this week, other wise need ugly solution.</li> <li>Small Rayonix testing can be done by others.</li> <li>XPP/XCS power cable pinout (controls needs to tell us MPOD working)</li> </ul>
	KN:
	<ul> <li>UED Quad now running on our DAQ (LCLS-II)no 2m when quad testing going on due to PDU channel limit.</li> <li>Replace PDU and cable in XPP to address 10A draw on Pix100</li> <li>XCS IOC: Immediately trips when IOC is running, suspect software problem but not fully isolated.</li> </ul>
	PH:
	<ul> <li>ePix100 readout issues persisthow do we isolate? Wait until after vac break.</li> <li>UXI loC update</li> <li>MEC Laser-only tests</li> <li>w? Bhavna &amp; Frederic regarding commissioning data</li> <li>Learning NERSC interface</li> </ul>
	Status

5 min	Budget Update	mmck	M&S Status (Through July)					
						Values KCST		Remaining
			DA Proj Act	DA Activity Dosc	LSTM Desc 🏋		ACTUALS	Balance
			PA Proj_Act 10918-A4001	PA Activity_Desc  DET Dist Exp Support	M&S	\$7	\$7	(\$0)
			16152-A4001	1 11	M&S	\$105	\$107	
				ePix Support	M&S		-	(\$2)
			16158-A4001	Other Detector Support		\$30	\$2 \$3	\$28 \$1
			16287-A4001	DET Department Management	M&S M&S	\$5	\$3	•
			16826-A4001	DET Department Research	M&S	\$47		\$44 \$11
			16159-A4001 17341-A4001	DET Dept Infrastruct & Dev	M&S	\$112	\$101 \$6	(\$6)
			17439-A4001	Detector Program Management DET Department OIP Projects	M&S	\$22	ŞU	\$22
			17433-A4001	DET Department OF Projects	IVIOCO	<b>322</b>		322
						328	229	\$99
			Labor snapshot (June actuals):					
						Values		
						KCST		Remaining
			PA Proj_Act	▼ PA Activity_Desc	▼ LSTM Desc	: ■ BA 1.2	ACTUAL	S Balance
			16152-A400		Shop Serv	ices	\$87 \$8	6 \$1
			16152-A400	1 ePix Support	SLAC Labo	r	\$1 \$	(\$0)
			16158-A400	1 Other Detector Support	Shop Serv	ices	\$10 \$4	
			16158-A400	1 Other Detector Support	SLAC Labo	r \$	110 \$8	1 \$28
			16253-A400	1 C-S PAD Support	Shop Serv	ices	\$3	\$3
			16253-A400	1 C-S PAD Support	SLAC Labo	r	\$0 \$	0 <b>\$0</b>
			18303-A400	1 Jungfrau Support	Shop Serv	ices	\$3	\$3
			16287-A400	DET Department Management	Shop Serv	ices	\$52 \$4	4 \$8
			16287-A400	1 DET Department Management	SLAC Labo	r \$:	209 \$21	5 (\$6)
			16826-A400	1 DET Department Research	Shop Serv	ices	\$28	\$28
			16826-A400	1 DET Department Research	SLAC Labo	r \$	208 \$17	6 \$32
			16159-A400	DET Dept Infrastruct & Dev	Shop Serv	ices	\$72 \$13	6 (\$64)
			16159-A400	DET Dept Infrastruct & Dev	SLAC Labo	r \$	164 \$16	9 (\$5)
			19775-A400:	1 Commissioning - DET	SLAC Labo	r :	\$23 \$	57 <b>\$16</b>
			17341-A400	1 Detector Program Management	SLAC Labo	r \$	327 \$27	6 \$51
			17800-A400	1 Jungfrau Detectors	SLAC Labo	r		(\$0)
			19453-A400	ePixM Shingle-Tiling Concept	Shop Serv			66 (\$5)
			18836-A400	1 L2S-I-DET - Planning	Shop Serv	ices	20	\$20
			18836-A400		SLAC Labo		\$9	\$9
			19733-A400	, ,	SLAC Labo			8 (\$6)
			19734-A400		SLAC Labo		-	(\$0)
			17439-A400		Shop Serv			2 \$24
			17439-A400	1 DET Department OIP Projects	SLAC Labo	r :	\$78 \$7	5 \$3
						1	511 13	34 <b>\$177</b>
			1		i	i		•
15 min	Review ASC First Projects	all	Coordinate/update	lab schedule.				
10 min	Any other busine ss							

## Action items: