

RESPONSIBILITY ASSIGNMENT MATRIX (RAM)		LUSI PROJECT OBS																
		1A - Tom Fornek	1B - Nadine Kurita	1C - Cindy Lowe	2A - David Fritz	2B - J Langton	3A - Sebastien Boutet	3B - Paul Montanez	4A - Aymeric Robert	4B -Eric Bong	5A - Yiping Feng	5B - Eliazar Ortiz	6A - Gunther Haller	6B - Yiping Feng	BNL - Niels van Bakel			
LUSI PROJECT WBS																		
<b>1</b>	<b>LUSI PROJECT MAJOR ITEM OF EQUIPMENT</b>																	
1.1	PROJECT MANAGEMENT																	
1.1.01	ES&H																	
1.1.01.01	ES&H	X																
1.1.02	Project Management																	
1.1.02.01	Management Office	X																
1.1.02.02	Project Support	X																
1.1.03	Technical Support																	
1.1.03.01	Technical Support	X																
1.1.03.02	Reviews	X																
1.1.03.03	Collaboration	X																
<b>1.2</b>	<b>X-RAY PUMP PROBE (XPP)</b>																	
1.2.01	XPP System Integration & Design				X													
1.2.02	XPP X-ray Optics & Support Table																	
1.2.02.01	Support Table, Supports & Shielding				X													
1.2.02.02	Optics Support Table & Supports				X													
1.2.03	XPP Laser System																	
1.2.03.01	Ti:Sapphire Laser				X													
1.2.03.02	Optics, Optomechanics & Diagnostics				X													
1.2.04	XPP Detector System (BNL)																	
1.2.04.01	Detector Support and Integration															X		
1.2.04.02	Detector Sensor															X		
1.2.04.03	Detector Application Specific Integrated Circuits (ASIC)															X		
1.2.04.04	Detector Controls, Electronics and DAQ															X		
1.2.05	XPP Sample Environment & Diffractometer System																	
1.2.05.01	XPP Diffractometer System				X													
1.2.06	XPP Facilities																	
1.2.06.01	XPP Hutch Specification				X													
1.2.06.02	XPP Utilities & Hutch Equipment				X													
1.2.07	XPP Vacuum System																	
1.2.07.01	XPP Vacuum Equipment				X													
1.2.07.02	XPP Vacuum Hardware				X													
1.2.08	XPP Installation																	
1.2.08.01	XPP Installation				X													
<b>1.3</b>	<b>COHERENT X-RAY IMAGING (CXI)</b>																	
1.3.01	CXI System Integration & Design							X										
1.3.02	CXI X-ray Optics																	
1.3.02.01	CXI KB System (0.1 micron)							X										
1.3.02.02	CXI KB System (1 micron)							X										
1.3.03	CXI Lasers																	
1.3.03.01	CXI Reference laser							X										
1.3.04	CXI Coherent Imaging Injector																	
1.3.04.01	Coherent Imaging Injector System							X										
1.3.05	CXI Sample Environment																	
1.3.05.01	CXI Room Temperature Environment							X										
1.3.06	CXI Hutch Facilities																	
1.3.06.01	CXI Hutch Specification							X										
1.3.06.02	CXI Utilities & Hutch Equipment							X										
1.3.07	CXI Vacuum System																	
1.3.07.01	CXI Vacuum Equipment							X										
1.3.07.02	CXI Vacuum Hardware							X										
1.3.08	CXI Installation																	
1.3.08.01	CXI Installation Phase							X										
<b>1.4</b>	<b>X-RAY CORRELATION SPECTROSCOPY (XCS)</b>																	
1.4.01	XCS System Integration & Design								X									
1.4.02	XCS X-ray Optics & Girder																	
1.4.02.01	XCS XRT Supports, Tables and Shielding								X									
1.4.02.02	XCS Hutch Supports, Tables and Shielding								X									
1.4.02.03	XCS Stoppers								X									
1.4.03	XCS Detector System (BNL)																	
1.4.03.01	Detector Support and Integration															X		
1.4.03.02	Detector Sensor															X		
1.4.03.03	Detector Application Specific Integrated Circuits (ASIC)															X		
1.4.03.04	Detector Controls, Electronics and DAQ															X		
1.4.04	XCS Sample Environment & Diffractometer System																	
1.4.04.01	XCS Diffractometer System								X									
1.4.04.03	XCS Large Angle Mover & Chamber								X									
1.4.05	XCS Hutch Facilities																	
1.4.05.01	XCS Hutch Specification								X									
1.4.05.03	XCS Utilities and Hutch Equipment								X									
1.4.06	XCS Vacuum System																	
1.4.06.01	XCS XRT Vacuum System								X									
1.4.06.02	XCS Hutch Vacuum System								X									
1.4.07	XCS Installation																	
1.4.07.01	XCS XRT Installation Phase								X									
1.4.07.02	XCS Hutch Installation Phase								X									

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LUSI PROJECT WBS															
<b>1.5</b>	<b>DIAGNOSTICS &amp; COMMON OPTICS</b>														
1.5.01	Diagnostics & Common Optics System Integration & Design										X				
<b>1.5.02</b>	<b>Diagnostics</b>														
1.5.02.01	Pop-in Profile/Wavefront Monitor										X				
1.5.02.02	Pop-In Intensity Monitor										X				
1.5.02.03	Intensity-Position Monitor										X				
<b>1.5.03</b>	<b>Common Optics</b>														
1.5.03.01	Monochromator										X				
1.5.03.02	X-Ray Focusing Lenses										X				
1.5.03.03	Slit System										X				
1.5.03.04	Attenuators / Filters										X				
1.5.03.05	Pulse Picker										X				
1.5.03.06	Harmonic Rejection Mirrors										X				
<b>1.6</b>	<b>CONTROLS AND DATA ACQUISITION</b>														
1.6.01	Controls and Data Acquisition System Integration & Design											X			
<b>1.6.02</b>	<b>LUSI Common Controls</b>														
1.6.02.01	Photon Beam Feedback											X			
1.6.02.02	Electron Beam Feedback											X			
1.6.02.03	Hutch Environmental Controls											X			
1.6.02.04	FEH DAQ Data Storage											X			
1.6.02.05	DAQ Data Processing											X			
1.6.02.06	Racks & Cabling (Common)											X			
<b>1.6.03</b>	<b>X-ray Pump Probe Hutch 3 (NEH)</b>														
1.6.03.01	XPP H3 Requirements, Design, Setup											X			
1.6.03.02	XPP H3 Standard Hutch Controls											X			
1.6.03.03	XPP H3 Specific Controls											X			
<b>1.6.04</b>	<b>Coherent X-ray Imaging Hutch 5 (FEH)</b>														
1.6.04.01	CXI Requirements, Design, Setup											X			
1.6.04.02	CXI Standard Hutch Controls											X			
1.6.04.03	CXI Specific Controls											X			
<b>1.6.05</b>	<b>X-ray Correlation Spectroscopy Hutch 4 (FEH)</b>														
1.6.05.01	XCS Requirements, Design, Setup											X			
1.6.05.02	XCS Standard Hutch Controls											X			
1.6.05.03	XCS Specific Controls											X			
1.6.05.04	Beam Transport to FEH											X			
<b>1.6.06</b>	<b>Offline Data Management</b>														
1.6.06.01	Data Format and API											X			
1.6.06.02	Data Catalog / Metadata Management											X			
1.6.06.03	Processing Framework / Workflow / Pipeline											X			