

## CHESS HMF Beamline Construction Project - effective 1/1/21 to 12/31/25

Section	Description	Code	WBS	Non-FAB	FAB	Approver
Project Office	Management and Oversight (Fontes)	520.1.1	HMF_01.1	U558817-H11-XXXX		Fontes
	Common Infrastructure (Fontes) M&S, Travel	520.1.2	HMF_01.2	U558817-H12-XXXX		Fontes
	Subaward: UPR Student Training - GRA	520.1.4		U558817-20051-XXXX		Fontes
	Subaward: UPR Student Training - Summer Salary	520.1.4		U558817-20051-XXXX		Fontes
	Subaward: UPR Student Training - Tuition/Fees	520.1.4		U558817-20051-XXXX		Fontes
	Subaward: UPR Student Training - Materials & Supplies	520.1.4		U558817-20051-XXXX		Fontes
	Subaward: UPR Student Training - IDC	520.1.4		U558817-20051-XXXX		Fontes
	Subaward: UPR Student Training - Domestic Travel	520.1.4		U558817-20051-XXXX		Fontes
	Subaward: NHMFL (FSU) Magnet System Advising - Summer Salary	520.1.5		U558817-20053-XXXX		Fontes
	Subaward: NHMFL (FSU) Magnet System Advising - IDC	520.1.5		U558817-20053-XXXX		Fontes
	Subaward: NHMFL (FSU) Magnet System Advising - Domestic Travel	520.1.5		U558817-20053-XXXX		Fontes
CESR, Tunnel Mods	Management and Oversight (Fontes)	520.2.1	HMF_02.1	U558817-H21-XXXX		Fontes
	Insertion Devices (Temnykh, Lyndaker)	520.2.4	HMF_02.4		U558818-H24-6290	Temnykh
	Undulator Control Devices (M&S only)	520.2.4	HMF_02.41		U558818-H241-6290	Temnykh
	Undulator Vacuum Chamber	520.2.4	HMF_02.42		U558818-H242-6290	Li
	Undulator Mount and Support	520.2.4	HMF_02.43		U558818-H243-6290	Conolly
	Undulator Drive and Controls Updates	520.2.4	HMF_02.44		U558818-H244-6290	Conolly
	Vacuum and Beampipes (Li)	520.2.5	HMF_02.5		U558818-H25-6290	Lushtak
	Shielding/Layout (Spurgin)	520.2.6	HMF_02.6		U558818-H26-6290	Spurgin
	S7 Control Rack Repairs	520.2.6	HMF_02.61	U558817-H261-XXXX		Conolly
	Instrumentation/Controls (Barley, Forster)	520.2.7	HMF_02.7		U558818-H27-6290	Barley
	CESR Mechanical Systems (Aboharb)	520.2.8	HMF_02.8		U558818-H28-6290	Aboharb
	CESR Utilities and Electrical Systems (MillerK)	520.2.9	HMF_02.9		U558818-H29-6290	Miller, K
	CESR Tunnel Cryogenics (Sabol)	520.2.10	HMF_02.10		U558818-H210-6290	Sabol
HMF Beamline	Management and Oversight (Fontes)	520.3.1	HMF_03.1	U558817-H31-XXXX		Fontes
	Front End Apertures (Lyndaker)	520.3.4	HMF_03.4		U558818-H34-6290	Lyndaker
	White Beam Slits (Lyndaker)	520.3.4	HMF_03.41		U558818-H341-6290	Lyndaker
	Primary Aperture (Lyndaker)	520.3.4	HMF_03.42		U558818-H342-6290	Lyndaker
	Front End Components (Lyndaker)	520.3.4	HMF_03.43		U558818-H343-6290	Lyndaker
	Tertiary Aperture (Lyndaker)	520.3.4	HMF_03.44		U558818-H344-6290	Lyndaker
	Enclosures/Shielding (Richter)	520.3.5	HMF_03.5		U558818-H35-6290	Richter
	Shielded Transport Pipe (Richter)	520.3.5	HMF_03.51		U558818-H351-6290	Richter
	Instrumentation/Controls (Edwards)	520.3.6	HMF_03.6		U558818-H36-6290	Edwards
	X-ray Heat-loaded Optics (Pauling)	520.3.7	HMF_03.7		U558818-H37-6290	Pauling
	Multi-Layer Mono (MLM) (Pauling)	520.3.7	HMF_03.71		U558818-H371-6290	Pauling
	Cryo DCM (Pauling)	520.3.7	HMF_03.72		U558818-H372-6290	Pauling
	HMF Mechanical Systems (Aboharb)	520.3.8	HMF_03.8		U558818-H38-6290	Aboharb
	HMF Utilities and Electrical Systems (MillerK)	520.3.9	HMF_03.9		U558818-H39-6290	Miller, K
	HMF Beamline Cryogenics (Sabol)	520.3.10	HMF_03.10		U558818-H310-6290	Sabol
Experimental Equipment	Management and Oversight (Fontes)	520.4.1	HMF_04.1	U558817-H41-XXXX		Fontes
	HMF Documentation	520.4.2	HMF_04.21		U558818-H421-6290	Fontes
	HMF Site Prep and Cleanup	520.4.2	HMF_04.22	U558817-H422-XXXX		Fontes
	Magnet/Cryogenics (Bird, Ruff)	520.4.4	HMF_04.4		U558818-H44-6290	Ruff
	Magnet/10T Activities (Bird, Ruff)	520.4.4	HMF_04.41		U558818-H441-6290	Ruff
	Magnet/SHUTTLE	520.4.4	HMF_04.42		U558818-H442-6290	Ruff
	Backscatter Chamber	520.4.4	HMF_04.43		U558818-H443-6290	Ruff
	Sample Positioning System (Flexure)	520.4.4	HMF_04.44		U558818-H444-6290	Ruff
	Magnet Flexure Fabrication	520.4.4	HMF_04.45		U558818-H445-6290	Ruff
	Diffractionmeter (Pauling)	520.4.5	HMF_04.5		U558818-H45-6290	Pauling
	Load Lock (Pauling)	520.4.5	HMF_04.51		U558818-H451-6290	Pauling
	High-energy Flight Path (He)	520.4.5	HMF_04.52		U558818-H452-6290	Pauling
	Low-energy Flight Path (UHV)	520.4.5	HMF_04.53		U558818-H453-6290	Pauling
	Custom X-ray Optics (Lyndaker)	520.4.6	HMF_04.6		U558818-H46-6290	Lyndaker
	Cave2 Mirrors	520.4.6	HMF_04.61		U558818-H461-6290	Lyndaker
	Detectors/Sensors (Ruff)	520.4.7	HMF_04.7		U558818-H47-6290	Ruff
	Detectors/Sensors (Ruff)	520.4.7	HMF_04.71	U558817-H471-XXXX		Ruff
	Computing/Controls (Sun)	520.4.8	HMF_04.8		U558818-H48-6290	Sun
	Commissioning Sector 5 (Ruff)	520.4.9	HMF_04.9		U558818-H49-6290	Ruff