



Technical Program Review

MSTS Support Activities FY 2020

February 23-25, 2021



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OVERVIEW



- NCSP funds ~\$4.6M/yr at the NNSC to support NCERC's critical infrastructure. MSTC provides site, facility, and operations support to ensure experiments are successfully executed as planned.
- MSTC Direct Funded Support to NCERC
 - Program Management
 - 11 FTEs Direct-funded operations support personnel to include:
 - 4 RCTs, 2 Operations Techs, 1.5 DAF Operations Supervisor, 1.0 MC&A, 1.0 Operations Controller, 0.5 Operations Coordinator, 0.5 RCT Supervisor, and 0.5 Teamster
- NCSP-/NCERC-specific support services
 - ESH&Q, EM, IH, Waste Management, Maintenance, Bioassay, Shipping & Receiving, P&T, Calibration, RADCON Materials & Supplies, CSEs, Fire watch, etc.
 - NCERC Laboratory Logistics
 - Non-NCSP Customers include MSTC Global Security, LANL & LLNL (~\$450K/yr)

FY20 FUNDING & EXPENDITURES



NCSP FY20 FUNDING	
Carryover into FY 2020	\$923,268
FY20 Funding Received	\$3,727,099
Total Allocated Funding	\$4,650,367
NCSP FY20 COSTS	
Project Management	\$480,717
Integral Experiment Support	\$1,720,526
Operations Support	\$1,240,983
Safety Basis	\$9,723
NCSP Total Cost	\$3,451,949
WORK FOR OTHERS FY20 FUNDING	
LANL ICOs	\$411,178
JTOT Measurements at DAF	37,904
Total WFO Funding	\$449,082
WORK FOR OTHERS FY20 COSTs	
LANL ICOs	\$144,707
LANL OSRP	\$6,282
JTOT Measurements at DAF	-\$4,269
WFO Total Cost	\$146,720

Integrated Experiments & Training



- Performed 35 NCSP IEs, 8 WFOs IERs (ICO), 1 WFOs (Direct Funded) including 2 Criticality Safety Training classes in FY20.

QUARTER	NCSP IERs	WFO IERs (ICO)	WFO IERs (Direct Funded)	CRIT SAFETY TRAINING
OCT - DEC	13	7	1	1
JAN - MAR	5*	1	0	1
APR - JUN	10*	0	0	0
JUL - SEPT	7	0	0	0
TOTALS	35	8	1	2

* Significant COVID-19 impacts to NCERC activities mid-March to mid-May. Work Performed involved more maintenance, and required surveillance and inspections.

FY 2020 ACCOMPLISHMENTS



- Conducted Program Integration Board (PgiB) meetings
- Prepared and submitted RABBIT Readiness Determination (FRM 2068) to NFO
- Shipped the remaining NASA equipment from KRUSTY and coordinated/conducted other required equipment moves
- Provided engineering review and comment resolution of RABBIT plate design
- Received approval for RABBIT safety basis change notice

FY 2020 ACCOMPLISHMENTS



- Conducted daily preoperational checks and pre-job briefings; performed FSS disablement and restoration as needed; and addressed any building issues identified
- Conducted recurring Critical Assembly Maintenance
- NCS Infraction Recovery
- Supported criticality training
- MSTS engineers and scientists successfully collaborated with LANL on GODIVA burst measurements during COVID travel restrictions.