Program:	Description:
NOVA	NOvA Project
Run Date:	Status Date:
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Control Ac	CT(	WP	BE		MAY07	JUN07	JUL07	AUG07	SEP07	OCT07	NOV07	DEC07
1.0.3 NUMI Upgrades												
	1.0.3.1 ANU NUMI Upgrades R&D											
		1.0.3.1.2.1 Test 3Q120 Quads to be Recovered										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.1.4.1 Profile Monitors Upgrade Review										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.1.4.2 Follow-up to Profile Monitor Upgrade Review										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.2.1.1.1 Review of IHEP ME Target Design Study 1										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.2.1.1.3 Assess IHEP ME Target Design Study 2										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.2.1.3.1 Analyze Baffle for Higher Heat Loads										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.2.2.1 Analyze Current Hadron Monitor Design for Higher Beam Powe										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.2.3 Design Hadron Monitor Beam Abort										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.2.4.1 Target, Baffle & Carrier Initial Design Review										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.2.4.2 Target, Baffle & Carrier Design Review										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.2.4.3 Hadron Monitor Design Review										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.3.3.1.1 MARs Simulations for Energy Deposition										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	139	57	0	0	0	0	0	0
		1.0.3.3.3.2.1 Analyze Horn 1 Chase Stripline for Higher Heat Loads (FE										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.3.3.2.3 Design Forced Air Cooling for Horn 1 Chase Stripline										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.3.4.2 Target Hall Space Planning & Horn 2 Reconfiguration & Equi										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.3.4.4 Target Hall Chase Cooling Iniital Design Review										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.3.4.5 Final Target Hall Chase Cooling Design Review										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.3.4.6 Target Hall Space Planning & Horn 2 Reconfiguration & Equi										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0

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Control Ac	CT(	WP	BE		FEB09	MAR09	APR09	MAY09	JUN09	JUL09	AUG09	SEP09
1.0.3 NUMI Upgrades												
	1.0.3.1 ANU NUMI Upgrades R&D											
		1.0.3.1.2.1 Test 3Q120 Quads to be Recovered										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.1.4.1 Profile Monitors Upgrade Review										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	32	8	0	0	0	0
		1.0.3.1.4.2 Follow-up to Profile Monitor Upgrade Review										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.2.1.1.1 Review of IHEP ME Target Design Study 1										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	18	5	0	0	0	0	0
		1.0.3.2.1.1.3 Assess IHEP ME Target Design Study 2										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.2.1.3.1 Analyze Baffle for Higher Heat Loads										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	56	0	0	0	0	0	0	0
		1.0.3.2.2.1 Analyze Current Hadron Monitor Design for Hig										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	160	0	0	0	0	0	0	0
		1.0.3.2.3 Design Hadron Monitor Beam Abort										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.2.4.1 Target, Baffle & Carrier Initial Design Review										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.2.4.2 Target, Baffle & Carrier Design Review										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.2.4.3 Hadron Monitor Design Review										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	40	0	0	0	0	0	0
		1.0.3.3.3.1.1 MARs Simulations for Energy Deposition										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.3.3.2.1 Analyze Horn 1 Chase Stripline for Higher He										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	35	32	35	35	6	0
		1.0.3.3.3.2.3 Design Forced Air Cooling for Horn 1 Chase										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.3.4.2 Target Hall Space Planning & Horn 2 Reconfig										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	8	72	0	0	0	0
		1.0.3.3.4.4 Target Hall Chase Cooling Iniital Design Revie										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.3.4.5 Final Target Hall Chase Cooling Design Revie										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.3.4.6 Target Hall Space Planning & Horn 2 Reconfig										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0

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Control Ac	CT(	WP	BE		OCT09	NOV09	DEC09	JAN10	FEB10	MAR10	APR10	MAY10
1.0.3 NUMI Upgrades												
	1.0.3.1 ANU NUMI Upgrades R&D											
		1.0.3.1.2.1 Test 3Q120 Quads to be Recovered										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.1.4.1 Profile Monitors Upgrade Review										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.1.4.2 Follow-up to Profile Monitor Upgrade Review										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	8	0	0	0
		1.0.3.2.1.1.1 Review of IHEP ME Target Design Study 1										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.2.1.1.3 Assess IHEP ME Target Design Study 2										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	55	55	29	0	0	0	0	0
		1.0.3.2.1.3.1 Analyze Baffle for Higher Heat Loads										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.2.2.1 Analyze Current Hadron Monitor Design for Hig										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.2.3 Design Hadron Monitor Beam Abort										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.2.4.1 Target, Baffle & Carrier Initial Design Review										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	30	0
		1.0.3.2.4.2 Target, Baffle & Carrier Design Review										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.2.4.3 Hadron Monitor Design Review										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.3.3.1.1 MARs Simulations for Energy Deposition										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.3.3.2.1 Analyze Horn 1 Chase Stripline for Higher He										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.3.3.2.3 Design Forced Air Cooling for Horn 1 Chase										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	4	8	0	0	0
		1.0.3.3.4.2 Target Hall Space Planning & Horn 2 Reconfigu										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.3.4.4 Target Hall Chase Cooling Iniital Design Revie										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	60	0	0	0	0
		1.0.3.3.4.5 Final Target Hall Chase Cooling Design Revie										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	33	67
		1.0.3.3.4.6 Target Hall Space Planning & Horn 2 Reconfigu										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	67

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Control Ac	CT(	WP	BE		JUN10	NOV10	DEC10	FEB11	AUG11	SEP11	OCT11	NOV11
1.0.3 NUMI Upgrades												
	1.0.3.1 ANU NUMI Upgrades R&D											
		1.0.3.1.2.1 Test 3Q120 Quads to be Recovered										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.1.4.1 Profile Monitors Upgrade Review										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.1.4.2 Follow-up to Profile Monitor Upgrade Review										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.2.1.1.1 Review of IHEP ME Target Design Study 1										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.2.1.1.3 Assess IHEP ME Target Design Study 2										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.2.1.3.1 Analyze Baffle for Higher Heat Loads										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.2.2.1 Analyze Current Hadron Monitor Design for Hig										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.2.3 Design Hadron Monitor Beam Abort										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	20	0	0	0	0	0	0
		1.0.3.2.4.1 Target, Baffle & Carrier Initial Design Review										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.2.4.2 Target, Baffle & Carrier Design Review										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	90	0	0	0	0
		1.0.3.2.4.3 Hadron Monitor Design Review										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.3.3.1.1 MARs Simulations for Energy Deposition										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.3.3.2.1 Analyze Horn 1 Chase Stripline for Higher He										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.3.3.2.3 Design Forced Air Cooling for Horn 1 Chase										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.3.4.2 Target Hall Space Planning & Horn 2 Reconfigu										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.3.4.4 Target Hall Chase Cooling Iniital Design Revie										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.3.4.5 Final Target Hall Chase Cooling Design Revie										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.3.4.6 Target Hall Space Planning & Horn 2 Reconfigu										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	33	0	0	0	0	0	0	0

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Control Ac	CT(	WP	BE		DEC11	JAN12	FEB12	Cumulative
1.0.3 NUMI Upgrades								
	1.0.3.1 ANU NUMI Upgrades R&D							
		1.0.3.1.2.1 Test 3Q120 Quads to be Recovered						
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	6	0	0	6
		1.0.3.1.4.1 Profile Monitors Upgrade Review						
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	40
		1.0.3.1.4.2 Follow-up to Profile Monitor Upgrade Review						
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	8
		1.0.3.2.1.1.1 Review of IHEP ME Target Design Study 1						
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	23
		1.0.3.2.1.1.3 Assess IHEP ME Target Design Study 2						
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	138
		1.0.3.2.1.3.1 Analyze Baffle for Higher Heat Loads						
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	56
		1.0.3.2.2.1 Analyze Current Hadron Monitor Design for Hig						
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	160
		1.0.3.2.3 Design Hadron Monitor Beam Abort						
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	20
		1.0.3.2.4.1 Target, Baffle & Carrier Initial Design Review						
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	30
		1.0.3.2.4.2 Target, Baffle & Carrier Design Review						
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	90
		1.0.3.2.4.3 Hadron Monitor Design Review						
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	40
		1.0.3.3.3.1.1 MARs Simulations for Energy Deposition						
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	196
		1.0.3.3.3.2.1 Analyze Horn 1 Chase Stripline for Higher He						
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	144
		1.0.3.3.3.2.3 Design Forced Air Cooling for Horn 1 Chase						
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	12
		1.0.3.3.4.2 Target Hall Space Planning & Horn 2 Reconfigu						
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	80
		1.0.3.3.4.4 Target Hall Chase Cooling Iniital Design Revie						
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	60
		1.0.3.3.4.5 Final Target Hall Chase Cooling Design Revie						
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	100
		1.0.3.3.4.6 Target Hall Space Planning & Horn 2 Reconfigu						
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	100

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Control Ac	CT	WP	BE		MAY07	JUN07	JUL07	AUG07	SEP07	OCT07	NOV07	DEC07
		1.0.3.4.1.2.1 Analyze horn 1 & horn 2 RAW system capacities										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.4.1.5.1 Document Hadron Absorber for Full Beam Accident Conditio										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.4.1.5.2 Analyze Hadron Absorber for normal long term operation a										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.4.2.1.1 Analyze LCW capacity-1										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	1	10	9
		1.0.3.4.2.1.3 Analyze LCW capacity-2										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.4.2.2.1 Analyze CUB chilled water capacity-1										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	3	3
		1.0.3.4.2.2.3 Analyze CUB chilled water capacity-2										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.4.2.3.1 Analyze NuMI Sump Cooling Water System Capacity-1										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	3	3
		1.0.3.4.2.3.3 Analyze NuMI Sump Cooling Water System Capacity-2										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.4.2.4.1 Analyze Secondary Chilled Water Capacity-1										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	3	3
		1.0.3.4.2.4.3 Analyze Secondary Chilled Water Capacity-2										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.4.4.1 Decay Pipe & Absorber Initial Design Review										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.4.4.2 NuMI Cooling Systems Initial Design Review										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.4.4.3 NuMI Utilities Systems & RAW Design Review										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
	CTC[21] Totals:			BCWS	139	57	0	0	0	3	19	18
	1.0.3.2 ANU NUMI Upgrades Op											
		1.0.3.1.2.2.1 Recover A1 Line 3Q120 Quads										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.1.2.2.2 3Q120 Quads Disconnect Water										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.1.2.2.3 Components Alignment as Found Old										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.1.2.2.4 Disconnect Cables for 5 Quads to be Replaced										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0

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Control Ac	CT	WP	BE		FEB09	MAR09	APR09	MAY09	JUN09	JUL09	AUG09	SEP09
		1.0.3.4.1.2.1 Analyze horn 1 & horn 2 RAW system capaci										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	5	5	5	5	5	5	0	0
		1.0.3.4.1.5.1 Document Hadron Absorber for Full Beam Ac										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	28	0	0	0	0	0	0	0
		1.0.3.4.1.5.2 Analyze Hadron Absorber for normal long ter										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	52	0	0	0	0	0	0	0
		1.0.3.4.2.1.1 Analyze LCW capacity-1										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.4.2.1.3 Analyze LCW capacity-2										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	7	8	8	7	8	8	7	7
		1.0.3.4.2.2.1 Analyze CUB chilled water capacity-1										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.4.2.2.3 Analyze CUB chilled water capacity-2										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	2	3	3	2	3	3	2	2
		1.0.3.4.2.3.1 Analyze NuMI Sump Cooling Water System (										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.4.2.3.3 Analyze NuMI Sump Cooling Water System (										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	2	3	3	2	3	3	2	2
		1.0.3.4.2.4.1 Analyze Secondary Chilled Water Capacity-1										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.4.2.4.3 Analyze Secondary Chilled Water Capacity-2										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	2	3	3	2	3	3	2	2
		1.0.3.4.4.1 Decay Pipe & Absorber Initial Design Review										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	40	0	0	0	0	0	0
		1.0.3.4.4.2 NuMI Cooling Systems Initial Design Review										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.4.4.3 NuMI Utilities Systems & RAW Design Review										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
	CTC[21] Totals:			BCWS	315	119	101	131	56	56	22	15
	1.0.3.2 ANU NUMI Upgrades Op											
		1.0.3.1.2.2.1 Recover A1 Line 3Q120 Quads										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.1.2.2.2 3Q120 Quads Disconnect Water										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.1.2.2.3 Components Alignment as Found Old										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.1.2.2.4 Disconnect Cables for 5 Quads to be Replac										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0

Program:	Description:
NOVA	NOvA Project
Run Date:	Status Date:
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Control Ac	CT	WP	BE		OCT09	NOV09	DEC09	JAN10	FEB10	MAR10	APR10	MAY10
		1.0.3.4.1.2.1 Analyze horn 1 & horn 2 RAW system capaci										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.4.1.5.1 Document Hadron Absorber for Full Beam Ac										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.4.1.5.2 Analyze Hadron Absorber for normal long ter										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.4.2.1.1 Analyze LCW capacity-1										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.4.2.1.3 Analyze LCW capacity-2										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	8	7	7	7	7	8	8	1
		1.0.3.4.2.2.1 Analyze CUB chilled water capacity-1										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.4.2.2.3 Analyze CUB chilled water capacity-2										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	3	2	2	2	2	3	3	0
		1.0.3.4.2.3.1 Analyze NuMI Sump Cooling Water System (										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.4.2.3.3 Analyze NuMI Sump Cooling Water System (										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	3	2	2	2	2	3	3	0
		1.0.3.4.2.4.1 Analyze Secondary Chilled Water Capacity-1										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.4.2.4.3 Analyze Secondary Chilled Water Capacity-2										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	3	2	2	2	2	3	3	0
		1.0.3.4.4.1 Decay Pipe & Absorber Initial Design Review										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.4.4.2 NuMI Cooling Systems Initial Design Review										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.4.4.3 NuMI Utilities Systems & RAW Design Review										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
	CTC[21] Totals:			BCWS	70	68	43	77	30	16	79	136
	1.0.3.2 ANU NUMI Upgrades Op											
		1.0.3.1.2.2.1 Recover A1 Line 3Q120 Quads										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.1.2.2.2 3Q120 Quads Disconnect Water										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.1.2.2.3 Components Alignment as Found Old										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.1.2.2.4 Disconnect Cables for 5 Quads to be Replac										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0

Program:	Description:
NOVA	NOvA Project
Run Date:	Status Date:
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Control Ac	CT(	WP	BE		JUN10	NOV10	DEC10	FEB11	AUG11	SEP11	OCT11	NOV11
		1.0.3.4.1.2.1 Analyze horn 1 & horn 2 RAW system capaci										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.4.1.5.1 Document Hadron Absorber for Full Beam Ac										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.4.1.5.2 Analyze Hadron Absorber for normal long ter										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.4.2.1.1 Analyze LCW capacity-1										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.4.2.1.3 Analyze LCW capacity-2										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.4.2.2.1 Analyze CUB chilled water capacity-1										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.4.2.2.3 Analyze CUB chilled water capacity-2										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.4.2.3.1 Analyze NuMI Sump Cooling Water System (										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.4.2.3.3 Analyze NuMI Sump Cooling Water System (										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.4.2.4.1 Analyze Secondary Chilled Water Capacity-1										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.4.2.4.3 Analyze Secondary Chilled Water Capacity-2										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.4.4.1 Decay Pipe & Absorber Initial Design Review										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.4.4.2 NuMI Cooling Systems Initial Design Review										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	80	0	0	0	0	0
		1.0.3.4.4.3 NuMI Utilities Systems & RAW Design Review										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	9	93	18	0
	CTC[21] Totals:			BCWS	33	20	80	90	9	93	18	0
	1.0.3.2 ANU NUMI Upgrades Op											
		1.0.3.1.2.2.1 Recover A1 Line 3Q120 Quads										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.1.2.2.2 3Q120 Quads Disconnect Water										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.1.2.2.3 Components Alignment as Found Old										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.1.2.2.4 Disconnect Cables for 5 Quads to be Replac										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0

Program:	Description:
NOVA	NOvA Project
Run Date:	Status Date:
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Control Ac	CT(	WP	BE		DEC11	JAN12	FEB12	Cumulative
		1.0.3.4.1.2.1 Analyze horn 1 & horn 2 RAW system capaci						
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	31
		1.0.3.4.1.5.1 Document Hadron Absorber for Full Beam Ac						
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	28
		1.0.3.4.1.5.2 Analyze Hadron Absorber for normal long ter						
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	52
		1.0.3.4.2.1.1 Analyze LCW capacity-1						
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	20
		1.0.3.4.2.1.3 Analyze LCW capacity-2						
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	112
		1.0.3.4.2.2.1 Analyze CUB chilled water capacity-1						
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	7
		1.0.3.4.2.2.3 Analyze CUB chilled water capacity-2						
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	37
		1.0.3.4.2.3.1 Analyze NuMI Sump Cooling Water System (						
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	7
		1.0.3.4.2.3.3 Analyze NuMI Sump Cooling Water System (						
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	37
		1.0.3.4.2.4.1 Analyze Secondary Chilled Water Capacity-1						
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	7
		1.0.3.4.2.4.3 Analyze Secondary Chilled Water Capacity-2						
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	37
		1.0.3.4.4.1 Decay Pipe & Absorber Initial Design Review						
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	40
		1.0.3.4.4.2 NuMI Cooling Systems Initial Design Review						
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	80
		1.0.3.4.4.3 NuMI Utilities Systems & RAW Design Review						
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	120
	CTC[21] Totals:			BCWS	6	0	0	1,917
	1.0.3.2 ANU NUMI Upgrades Op							
		1.0.3.1.2.2.1 Recover A1 Line 3Q120 Quads						
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	13	0	13
		1.0.3.1.2.2.2 3Q120 Quads Disconnect Water						
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	3	0	3
		1.0.3.1.2.2.3 Components Alignment as Found Old						
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	8	0	0	8
		1.0.3.1.2.2.4 Disconnect Cables for 5 Quads to be Replac						
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	3	0	3

Program:		Description:										
NOVA		NOvA Project										
Run Date:		Status Date:										
11/12/2009		9/30/2009										
Control Ac	**CT**	**WP**	**BE**		**MAY07**	**JUN07**	**JUL07**	**AUG07**	**SEP07**	**OCT07**	**NOV07**	**DEC07**
		1.0.3.1.2.2.5 Bleed up Vacuum & Disconnect Flanges for Component Repla										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.1.2.2.6 3Q120 Quads: Remove 5 Old Magnets										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.3.1.2.1 Overall Target Hall Layout for Operations-1										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	27	26	26	29	24	29	25	22
		1.0.3.3.1.2.2 Overall Target Hall Layout for Operations-2										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.3.3.4 NuMI - Review & Revise Shielding Assessment										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
	CTC[21] Totals:			BCWS	27	26	26	29	24	29	25	22
Control Acct[10] Totals:				BCWS	166	84	26	29	24	32	44	40
Grand Totals:												
				BCWS	166	84	26	29	24	32	44	40

Program:		Description:										
NOVA		NOvA Project										
Run Date:		Status Date:										
11/12/2009		9/30/2009										
Control Ac	**CT**	**WP**	**BE**		**FEB09**	**MAR09**	**APR09**	**MAY09**	**JUN09**	**JUL09**	**AUG09**	**SEP09**
		1.0.3.1.2.2.5 Bleed up Vacuum & Disconnect Flanges for (										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.1.2.2.6 3Q120 Quads: Remove 5 Old Magnets										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.3.1.2.1 Overall Target Hall Layout for Operations-1										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.3.1.2.2 Overall Target Hall Layout for Operations-2										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	291	29	0	0	0	0	0	0
		1.0.3.3.3.4 NuMI - Review & Revise Shielding Assessmen										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
	CTC[21] Totals:			BCWS	291	29	0	0	0	0	0	0
Control Acct[10] Totals:				BCWS	606	148	101	131	56	56	22	15
Grand Totals:												
				BCWS	606	148	101	131	56	56	22	15

Program:		Description:										
NOVA		NOvA Project										
Run Date:		Status Date:										
11/12/2009		9/30/2009										
Control Ac	**CT**	**WP**	**BE**		**OCT09**	**NOV09**	**DEC09**	**JAN10**	**FEB10**	**MAR10**	**APR10**	**MAY10**
		1.0.3.1.2.2.5 Bleed up Vacuum & Disconnect Flanges for (										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.1.2.2.6 3Q120 Quads: Remove 5 Old Magnets										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.3.1.2.1 Overall Target Hall Layout for Operations-1										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.3.1.2.2 Overall Target Hall Layout for Operations-2										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.3.3.4 NuMI - Review & Revise Shielding Assessmen										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	65	69	65	69	79	14	0
	CTC[21] Totals:			BCWS	0	65	69	65	69	79	14	0
Control Acct[10] Totals:				BCWS	70	133	111	142	99	95	92	136
Grand Totals:												
				BCWS	70	133	111	142	99	95	92	136

Program:		Description:										
NOVA		NOvA Project										
Run Date:		Status Date:										
11/12/2009		9/30/2009										
Control Ac	**CT**	**WP**	**BE**		**JUN10**	**NOV10**	**DEC10**	**FEB11**	**AUG11**	**SEP11**	**OCT11**	**NOV11**
		1.0.3.1.2.2.5 Bleed up Vacuum & Disconnect Flanges for (										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.1.2.2.6 3Q120 Quads: Remove 5 Old Magnets										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.3.1.2.1 Overall Target Hall Layout for Operations-1										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.3.1.2.2 Overall Target Hall Layout for Operations-2										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
		1.0.3.3.3.4 NuMI - Review & Revise Shielding Assessmen										
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	0	0	0	0	0
	CTC[21] Totals:			BCWS	0	0	0	0	0	0	0	0
Control Acct[10] Totals:				BCWS	33	20	80	90	9	93	18	0
Grand Totals:												
				BCWS	33	20	80	90	9	93	18	0

Program:		Description:						
NOVA		NOvA Project						
Run Date:		Status Date:						
11/12/2009		9/30/2009						
Control Ac	**CT(**	**WP**	**BE**		**DEC11**	**JAN12**	**FEB12**	**Cumulative**
		1.0.3.1.2.2.5 Bleed up Vacuum & Disconnect Flanges for (						
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	3	0	3
		1.0.3.1.2.2.6 3Q120 Quads: Remove 5 Old Magnets						
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	14	2	16
		1.0.3.3.1.2.1 Overall Target Hall Layout for Operations-1						
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	208
		1.0.3.3.1.2.2 Overall Target Hall Layout for Operations-2						
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	320
		1.0.3.3.3.4 NuMI - Review & Revise Shielding Assessmen						
			L.FNAL.AD.SCI.PHY AD Physicist	BCWS	0	0	0	360
	CTC[21] Totals:			BCWS	8	36	2	934
Control Acct[10] Totals:				BCWS	14	36	2	2,851
Grand Totals:								
				BCWS	14	36	2	2,851