

BSSB PULSE SHIFT SCENARIOS (NOVA ERA) - DRAFT																															
Beam Destination	BSSB S#	Description (24 Total)	Beam Permits															Beam Switches								Necessary [& Rltd] Events		Notes			
			LU	LD	NT	MT	BO	L3	BDS	MB	MI	RR	MN	P1	P2	SW	NM	MS	MTS	L	MT	B	MB	R	MN	MI	SW	NM			
400 MeV Dump	L1	Linac 400 MeV Studies	1	1	0	x	x	x	x	x	x	x	x	x	x	x	x	1	0	1	x	x	x	x	x	x	x	11 0A	Linac Studies - non-HEP Pulse Shift		
MTA	L2	MTA 400 MeV Studies	1	1	0	1	x	x	x	x	x	x	x	x	x	x	x	1	1	x	1	x	x	x	x	x	x	11 EA 04 03	MTA Linac Studies - non-HEP Pulse Shift		
		Booster Study Scenarios																													
Booster Dump	B1	Booster Studies	1	1	0	x	1	x	x	x	x	x	x	x	x	x	x	1	x	x	x	1	x	x	x	x	x	x	17	Beam to Booster Dump.	
Booster Dump	B2	Booster Studies	1	1	0	x	1	1	0	x	x	x	x	x	x	x	x	1	x	x	x	1	x	x	x	x	x	x	13+14+15+16+19+1C+1D	Beam to Booster Dump.	
MB TGT	B3	Protons B->MB	1	1	0	x	1	0	1	1	x	x	x	x	x	x	x	1	x	x	x	x	1	x	x	x	x	x	x	1D	Beam to MiniBooNE
		RR Study Scenarios																													
RR ABT	R1	RR Studies: B->RR	1	1	0	x	1	0	1	x	x	1	x	x	x	x	x	1	x	x	x	x	x	1	x	x	x	x	E0 13+15+19+1C	Recycler Studies	
		\$2D Scenarios																													
MUON	MN2	Protons: B->MI->MN	1	1	0	x	1	0	1	x	1	x	1	1	1	x	x	1	x	x	x	x	x	x	1	x	x	x	2D 85 16	MUON via P1, P2, AP-1	
MI ABT	M5	MI 8 GeV Studies: B->MI	1	1	0	x	1	0	1	x	1	x	x	x	x	x	x	1	x	x	x	x	x	x	x	1	x	x	2D 13+14+16+19	Beam to Main Injector Abort.	
		\$29 Scenarios																													
MI ABT	M6	MI Studies: B->RR->MI	1	1	0	x	1	0	1	x	1	1	x	x	x	x	x	1	x	x	x	x	x	x	x	1	x	x	29 E1 13+15+19+1C	Beam via RR to Main Injector Abort.	
		\$2B Scenarios																													
MI ABT	M7	MI Studies: B->RR->MI	1	1	0	x	1	0	1	x	1	1	x	x	x	x	x	1	x	x	x	x	x	x	x	1	x	x	2B E1 13+15+19+1C	Beam via RR to Main Injector Abort.	
		\$2A Scenarios																													
MUON	MN1	Protons: B->RR->MN	1	1	0	x	1	0	1	x	x	1	1	1	1	1	x	1	x	x	x	x	x	x	1	x	x	(2A) E3 85 1C	Protons to MUON via RR, P1, P2, AP-1		
NuMI TGT	N1	Protons: B->RR->MI->NUMI	1	1	0	x	1	0	1	x	1	1	x	x	x	x	x	1	1	x	x	x	x	x	x	1	x	x	(2A) E3 19 A5	NUMI with RR slip stack	
MI ABT	M4	MI \$2A Studies: B->RR->MI	1	1	0	x	1	0	1	x	1	1	x	x	x	x	x	1	x	x	x	x	x	x	x	1	x	x	(2A) E3 19 /A5	Beam via RR to Main Injector Abort.	
		\$23 Scenarios																													
NuMI TGT	N2	Protons: B->MI->NUMI	1	1	0	x	1	0	1	x	1	x	x	x	x	x	x	1	1	x	x	x	x	x	x	1	x	x	23 19 A5	NUMI	
MI ABT	M3	MI \$23 Studies	1	1	0	x	1	0	1	x	1	x	x	x	x	x	x	1	x	x	x	x	x	x	x	1	x	x	23 19 /A5	Beam to Main Injector Abort.	
		\$21 Scenarios																													
SWYD	S1	Protons: B->MI->SWYD	1	1	0	x	1	0	1	x	1	x	x	1	1	1	x	1	x	x	x	x	x	x	x	1	x	x	21 13 30 /E2	120GeV FT - Long Flattop	
MI ABT	M1	Tune MI for FT	1	1	0	x	1	0	1	x	1	x	x	x	x	x	x	1	x	x	x	x	x	x	x	1	x	x	21 13 /30 /E2	Beam to Main Injector Abort.	
SWYD	S3	Protons: B->RR->MI->SWYD	1	1	0	x	1	0	1	x	1	1	x	1	1	1	x	1	x	x	x	x	x	x	x	1	x	x	21 13 30 E2	120GeV FT - Long Flattop	
MI ABT	M9	Tune MI for FT: B->RR->MI	1	1	0	x	1	0	1	x	1	1	x	x	x	x	x	1	x	x	x	x	x	x	x	1	x	x	21 13 /30 E2	Beam to Main Injector Abort.	
		\$20 Scenarios																													
SWYD	S2	Protons: B->MI->SWYD	1	1	0	x	1	0	1	x	1	x	x	1	1	1	x	1	x	x	x	x	x	x	x	1	x	x	20 13 32 /E2	120GeV FT - Short Flattop	
MI ABT	M2	Tune MI for FT	1	1	0	x	1	0	1	x	1	x	x	x	x	x	x	1	x	x	x	x	x	x	x	1	x	x	20 13 /32 /E2	Beam to Main Injector Abort.	
SWYD	S4	Protons: B->RR->MI->SWYD	1	1	0	x	1	0	1	x	1	1	x</td																		