

SPEAR DOWNTIME: Aug - Oct 2011

5/27/2011

ID	CATER or ID	Task Name	Notes	Priority	Working Duration	Resource / Shop	#P	Project Manager	Task Person	% Complete	Start	Finish	decess	ccess	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13
															Jul 25	Aug 1	Aug 8	Aug 15	Aug 22	Aug 29	Sep 5	Sep 12	Sep 19	Sep 26	Oct 3	Oct 10	Oct 17
1		<b>Planning Schedule for Aug - Sep 2011 Downtime</b>																									
2		<b>Shutdown Dates</b>			80 d					0%	7/25/2011	11/14/2011															
3		<b>SPEAR</b>			79 d					0%	7/25/2011	11/14/2011															
4		AP			0 d					0%	7/25/2011	7/25/2011															
5		START DOWN			0 d					0%	7/26/2011	7/26/2011															
6		LOCKUP - tentative			0 d					0%	10/18/2011	10/18/2011															
7		STARTUP			15 d					0%	10/18/2011	11/7/2011															
8		BEAM LINE COMMISSIONING			5 d					0%	11/7/2011	11/11/2011															
9		BEAM TO USERS			0 d					0%	11/14/2011	11/14/2011															
10		<b>INJECTOR</b>			53 d					0%	7/26/2011	10/7/2011															
11		START DOWN			1 d					0%	7/26/2011	7/26/2011															
12		INJECTOR STARTUP			10 d					0%	9/26/2011	10/7/2011															
13		<b>Utility Outages</b>			0 d					0%	8/1/2011	8/1/2011															
14		<b>Lighting:</b>			0 d					0%	8/1/2011	8/1/2011															
15		South arc			0 d					0%	8/1/2011	8/1/2011															
16		<b>Area Access:</b>			34 d?					0%	8/1/2011	9/16/2011															
17		<b>SPEAR:</b>	basis - G-P sched 5/24		31 d?					0%	8/1/2011	9/13/2011															
18		<b>Old BL4 &amp; BL3</b>			23 d					0%	8/5/2011	9/7/2011															
19		Remove roof block	Dedicate trestle & PL		3 d					0%	8/5/2011	8/9/2011															
20		Remove cap blocks	Dedicate trestle & PL		1 d					0%	8/10/2011	8/10/2011	19	21													
21		Wall block demo	Access to bk door B131		3 d					0%	8/11/2011	8/15/2011	20														
22		Excavate FTG, inner wall	Dedicate trstl/PL spec days		10 d					0%	8/11/2011	8/24/2011															
23		Rebar at FTG	Share access for deliveries		10 d					0%	8/18/2011	8/31/2011															
24		Pour FTG	Ded. trstl/PL on 2 pour days		9 d					0%	8/25/2011	9/7/2011															
25		<b>B131</b>			16 d					0%	8/16/2011	9/7/2011															
26		Rebar	Share access - matl deliveries		5 d					0%	8/16/2011	8/22/2011															
27		Form	Share access - matl deliveries		3 d					0%	8/23/2011	8/25/2011	26	28													
28		Pour concrete	Ded. Trstl/PL on pour days		2 d					0%	8/26/2011	8/29/2011	27														
29		<b>New Rolling Door delivery</b>			5 d					0%	8/31/2011	9/7/2011															
30		Delivery	Loop rd to B120		1 d					0%	8/31/2011	8/31/2011															
31		Install			4 d					0%	9/1/2011	9/7/2011															
32		Install new roof blocks	Ded. Trestl/PL		4 d					0%	9/8/2011	9/13/2011															
33		<b>Contractor electr safety</b>			1 d?					0%	8/1/2011	8/1/2011															
34		Install HV blankets - south arc			1 d?					0%	8/1/2011	8/1/2011															
35		Install HV blankets - north arc ?			1 d?					0%	8/1/2011	8/1/2011															
36		<b>Booster Ring</b>			34 d					0%	8/1/2011	9/16/2011															
37		Install roof anchors			30 d					0%	8/1/2011	9/12/2011															
38		Install waterproofing			5 d					0%	9/12/2011	9/16/2011															
39		<b>B140 access restricted</b>			15 d					0%	8/2/2011	8/22/2011															
40		TBD During installation of ductsox			15 d					0%	8/2/2011	8/22/2011															
41		<b>Booster - contr electr safety</b>			1 d?					0%	8/1/2011	8/1/2011															
42		Install HV blankets - west portal			1 d?					0%	8/1/2011	8/1/2011															
43		<b>PPS Certification</b>			26 d					0%	7/25/2011	8/26/2011															
44																											
45		<b>Restart Operations</b>			7 d					0%	9/26/2011	10/4/2011															
46		<b>Vacuum</b>			7 d					0%	9/26/2011	10/4/2011															
47		Inj - pre-start checks			2 d					0%	9/26/2011	9/27/2011															
48		SP - pre-start checks			2 d					0%	10/3/2011	10/4/2011															
49																											
50		<b>Control System and Network Outages</b>			1 d					0%	7/25/2011	7/25/2011															
51																											
52		<b>B120</b>			26 d					0%	7/25/2011	8/26/2011															
53		Install windows			7 d	Sub-contractor				0%	7/26/2011	8/2/2011															
54		<b>DOWN PRELIMINARIES:</b>			57.5 d					0%	7/26/2011	10/13/2011															
55		<b>ZVV</b>			0.5 d					0%	7/26/2011	7/26/2011															
56		ZVV SPEAR			2 hrs					0%	7/26/2011	7/26/2011	57,60														
57		ZVV Injector			2 hrs					0%	7/26/2011	7/26/2011	56														
58		<b>Utilities:</b>			1 d					0%	7/26/2011	7/26/2011															
59		LCW - shutdown/LOTO/ZVV			1 d	MSG				0%	7/26/2011	7/26/2011															

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															Jul 25	Aug 1	Aug 8	Aug 15	Aug 22	Aug 29	Sep 5	Sep 12	Sep 19	Sep 26	Oct 3	Oct 10	Oct 17
															T TFSS	T TFSS	T TFSS	T TFSS	T TFSS	T TFSS	T TFSS	T TFSS	T TFSS	T TFSS	T TFSS	T TFSS	T TFSS
60		Open W. equipment access			4 hrs	FACR,MSG				0%	7/26/2011	7/26/2011	56														
61		Close W. equipment access			4 hrs	FACR,MSG				0%	10/13/2011	10/13/2011															
62		Open rolling block doors - BL 5, 9			1 d	Kerr				0%	7/27/2011	7/27/2011															
63		Close rolling block doors - BL 5, 9			1 d	Kerr				0%	10/12/2011	10/12/2011															
64		<b>Vacuum Systems:</b>			<b>1 d</b>					<b>0%</b>	<b>7/26/2011</b>	<b>7/26/2011</b>															
65		Vent systems - SP-zones 3, 4, BTS			1 d	Vac				0%	7/26/2011	7/26/2011															
66	<b>B140</b>				<b>95 d?</b>					<b>0%</b>	<b>6/1/2011</b>	<b>10/12/2011</b>															
67		<b>B140 HVAC</b>			<b>26 d</b>	<b>FAC</b>		<b>Wu, Cad:</b>		<b>0%</b>	<b>7/26/2011</b>	<b>8/29/2011</b>															
68		Remove existing AC and disconnect ductwork			5 d	Sub-contract				0%	7/26/2011	7/30/2011															
69		Install new exterior ductwork, part 2 of 2			5 d	Sub-contract				0%	8/1/2011	8/5/2011	68														
70		Install new interior air plenum			4 d	Sub-contract				0%	8/3/2011	8/8/2011															
71		Install new ductsox	in B140		8 d	Sub-contract				0%	7/29/2011	8/8/2011	73														
72		Install DDC			4 d	Sub-contract				0%	8/9/2011	8/12/2011															
73		Commission new system			5 d					0%	8/23/2011	8/29/2011	71														
74																											
75		<b>Diagnostics Room</b>			<b>3 d</b>					<b>0%</b>	<b>7/25/2011</b>	<b>7/27/2011</b>															
76		Install on/off switch for overhead lights			3 d					0%	7/25/2011	7/27/2011															
77																											
78		<b>Booster Klystron - replace with spare</b>			<b>6 d</b>			<b>Park</b>		<b>0%</b>	<b>8/1/2011</b>	<b>8/8/2011</b>															
79		Disconnect utilities			2 hrs	MSG				0%	8/1/2011	8/1/2011	80														
80		Disconnect vacuum			2 hrs	Vac				0%	8/1/2011	8/1/2011	79	81													
81		Move klystron offline			2 hrs	MSG				0%	8/1/2011	8/1/2011	80	82													
82		Install replacement klystron			4 d	MSG,Vac				0%	8/1/2011	8/5/2011	81	3,182													
83		Connect utilities			2 hrs	MSG				0%	8/5/2011	8/5/2011	82	84													
84		Move Kly to Test Lab			1 d	FACR,MSG				0%	8/8/2011	8/8/2011	83														
85																											
86		<b>PCD Morris</b>			<b>20 d</b>	<b>PCD</b>		<b>Morris</b>		<b>0%</b>	<b>9/6/2011</b>	<b>10/3/2011</b>															
87		InJector - K2, K3 Maintenance			3 d	PCD				0%	9/6/2011	9/8/2011															
88		Interlock checks K2, K3			1 d	PCD				0%	10/3/2011	10/3/2011															
89		<b>PCD Beuker</b>			<b>20 d</b>	<b>PCD</b>		<b>Beukers</b>		<b>0%</b>	<b>9/2/2011</b>	<b>9/30/2011</b>															
90		booster kickers mechanical in the ring.			20 d	PCD				0%	9/2/2011	9/30/2011															
91		pulsed septum charging supply upgrade			10 d	PCD				0%	9/2/2011	9/16/2011															
92		<b>PCD de Lira</b>			<b>28 d</b>	<b>PCD</b>		<b>Johnson</b>		<b>0%</b>	<b>7/25/2011</b>	<b>8/30/2011</b>															
93		ZVV BOO Mag PS	Several		0 d	PCD		de Lira		0%	7/26/2011	7/26/2011															
94		Install DCCT tray for PS systems in rack B140	Several		1 d	PCD		de Lira		0%	7/25/2011	7/25/2011															
95		PM on BOO WC Bias PS	WC Bias PS		4 d	PCD		de Lira		0%	8/8/2011	8/11/2011															
96		PM on BOO WC Pulser PS	WC Pulser PS		4 d	PCD		de Lira		0%	8/15/2011	8/18/2011															
97		PM on BOO WC Enclosure	WC		1 d	PCD		de Lira		0%	8/24/2011	8/24/2011															
98		PM on WC cap bank cells	WC		9 d	PCD		de Lira		0%	8/8/2011	8/18/2011															
99		Install sliding rails on 4 CEBAF bulk PS	Linac, LTB, BOO, BTS		9 d	PCD		de Lira		0%	8/8/2011	8/18/2011															
100		Test & Calibrate CEBAF modules	CEBAFs		21 d	PCD		de Lira		0%	8/2/2011	8/30/2011															
101		Remove Booster Copley PS systems	Copleys		14 d	PCD		de Lira		0%	8/8/2011	8/25/2011															
102		<b>PCD de Lira</b>			<b>4 d</b>	<b>PCD</b>		<b>Johnson</b>		<b>0%</b>	<b>8/1/2011</b>	<b>8/4/2011</b>															
103		PM on BTS-B2B6 PS	B2B6 PS		4 d	PCD		de Lira		0%	8/1/2011	8/4/2011															
104		<b>B140 - Martin</b>			<b>95 d?</b>	<b>EE</b>		<b>Martin</b>		<b>0%</b>	<b>6/1/2011</b>	<b>10/12/2011</b>															
105		Power down I&C equipment			1 d?	EE				0%	7/26/2011	7/26/2011															
106		Cable clean-up rack B140-102			9 d	EE				0%	7/27/2011	8/5/2011															
107		Install rack fans & filters B140			45 d	EE				0%	6/1/2011	8/2/2011															
108		Cable stabilization (Linac/Boo), production chas			5 d	EE				0%	8/17/2011	8/23/2011															
109		Cable stabilization (SPEAR/Boo), production ch			5 d	EE				0%	8/15/2011	8/19/2011															
110		Cable clean-up rack B140-102			9 d	EE				0%	7/27/2011	8/5/2011															
111		Install rack fans & filters B140			45 d	EE				0%	6/1/2011	8/2/2011															
112		Install Linac 2856 Master Oscillator			4 d	EE				0%	8/1/2011	8/4/2011															
113		Upgrade ACM trigger cables to SRS			3 d	EE				0%	8/4/2011	8/8/2011															
114		Install top-entry panels B140 racks			5 d	EE				0%	8/8/2011	8/12/2011															
115		Terminate B140 Heliac cables			5 d	EE				0%	8/8/2011	8/12/2011															
116		Upgrade TL/BPM trigger cables to SRS			3 d	EE				0%	8/4/2011	8/8/2011															
117		Power-Up I&C equipment			2 d	EE				0%	9/19/2011	9/20/2011															
118		Certify/Cal Linac ACM (SAPE-77,78,158)			5 d	EE				0%	9/26/2011	9/30/2011															
119		Certify/Cal BTS ACM (SAPE-97,98,158)			3 d	EE				0%	9/28/2011	9/30/2011															
120		Linac Diagnostic Check List (SAPE-140)			3 d	EE				0%	10/3/2011	10/5/2011															
121		Booster Diagnostic Check List (SAPE-141)			2 d	EE																					

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															T	TFSS	T	TFSS	T	TFSS	T	TFSS	T	TFSS	T	TFSS	T	TFSS	T	TFSS	T	TFSS	T	TFSS	T	TFSS
123																																				
124		<b>RF - Wachter</b>			<b>54 d</b>					<b>0%</b>	<b>7/26/2011</b>	<b>10/7/2011</b>																								
125		Power down I&C and RF Equipment			1 d					0%	7/26/2011	7/26/2011																								
126		Cable clean up Rack 106A, 106B and 111			3 d					0%	7/27/2011	7/29/2011	126	128																						
127		K2 output coupler WG02 test and			6 d					0%	8/1/2011	8/8/2011	126	133																						
128		install fan and filter rack 111			6 d					0%	8/1/2011	8/8/2011	126	129																						
129		clean up cable tray rack 105 - 111			1 d					0%	8/9/2011	8/9/2011	128																							
130		Inspect and EEIP Diode temp. chamber			36 d					0%	8/1/2011	9/20/2011																								
131		Inspect and EEIP Phase/Gain Chassis			36 d					0%	8/1/2011	9/20/2011																								
132		Inspect and EEIP K3 VSWR chassis*			36 d					0%	8/1/2011	9/20/2011																								
133		Upgrade Peaking strip processor			3 d					0%	8/9/2011	8/11/2011	127																							
134		Install new K2 LINEAR Driver Amp.& Interlock*			36 d					0%	8/1/2011	9/20/2011																								
135		Install new K2 & K3 VSWR Chassis*			36 d					0%	8/1/2011	9/20/2011																								
136		power up system			1 d					0%	9/19/2011	9/19/2011																								
137		LINAC interlock pre-check sape-127			10 d					0%	9/26/2011	10/7/2011																								
138																																				
139		<b>Vacuum</b>			<b>1 d?</b>					<b>0%</b>	<b>7/25/2011</b>	<b>7/25/2011</b>																								
140		Booster klystron IP PS upgrade			1 d?					0%	7/25/2011	7/25/2011																								
141		Hist plot readout - all Inj IP PS			1 d?					0%	7/25/2011	7/25/2011																								
142		330 IG upgrade (12 controller/driver)			1 d?					0%	7/25/2011	7/25/2011																								
143		Leak chck entire Inj and Gun			1 d?					0%	7/25/2011	7/25/2011																								
144		Phase shifter inspection			1 d?					0%	7/25/2011	7/25/2011																								
145		Rem BTS manifold and install shielding			1 d?					0%	7/25/2011	7/25/2011																								
146																																				
147		<b>INJECTOR</b>			<b>34 d?</b>					<b>0%</b>	<b>7/25/2011</b>	<b>9/8/2011</b>																								
148		<b>Injector:</b>			<b>34 d?</b>					<b>0%</b>	<b>7/25/2011</b>	<b>9/8/2011</b>																								
149		<b>Refurbish TCW system.</b>			<b>7 d</b>	<b>MSG</b>		<b>Ernst</b>		<b>0%</b>	<b>8/2/2011</b>	<b>8/10/2011</b>																								
150		Replace piping insulation.			2 d	MSG				0%	8/2/2011	8/3/2011	151																							
151		Replace UDC controller.			1 d	MSG				0%	8/4/2011	8/4/2011	150	152																						
152		Install new wetted TC near heater for bette			1 d	MSG				0%	8/5/2011	8/5/2011	151	153																						
153		System (Flush) Water change.			1 d	MSG				0%	8/8/2011	8/8/2011	152	154																						
154		Touch up system surface rust.			2 d	MSG				0%	8/9/2011	8/10/2011	153																							
155		Reroute collector LCW hoses on Booster 358 M			2 d	MSG				0%	9/2/2011	9/6/2011	156																							
156		Rebuild leaky quick disconnects Booster 358 M			2 d	MSG				0%	9/7/2011	9/8/2011	155																							
157		<b>Injector Preventive Maintenance</b>			<b>8 d?</b>	<b>MSG</b>		<b>Ernst</b>		<b>0%</b>	<b>8/29/2011</b>	<b>9/8/2011</b>																								
158		Service Linac E-gun chiller units.			3 d	MSG				0%	8/29/2011	8/31/2011	159																							
159		Replace All LCW filters.			2 d	MSG				0%	9/1/2011	9/2/2011	158	160																						
160		Clean all LCW strainers.			2 d	MSG				0%	9/6/2011	9/7/2011	159	161																						
161		Rebuild Injector stopper pneumatics			1 d?	MSG				0%	9/8/2011	9/8/2011	160	169																						
162		Screens - install digital cameras (6)			1 d?					0%	7/25/2011	7/25/2011																								
163		<b>LINAC:</b>			<b>30 d</b>					<b>0%</b>	<b>8/1/2011</b>	<b>9/12/2011</b>																								
164		<b>Repair WG02 leak - simple repair</b>			<b>5.5 d</b>	<b>Vac</b>		<b>Nalls</b>		<b>0%</b>	<b>8/1/2011</b>	<b>8/8/2011</b>																								
165		Vent Linac			4 hrs	Vac				0%	8/1/2011	8/1/2011	166																							
166		Dis-assamble waveguide			8 hrs	Vac				0%	8/1/2011	8/2/2011	165	167																						
167		Attempt flange repair			2 d	Vac				0%	8/2/2011	8/4/2011	166	168																						
168		Re-assemble and pumpdown			2 d	Vac				0%	8/4/2011	8/8/2011	167																							
169		Test Cryoquip SF-6 system			2 d	MSG		<b>Ernst</b>		0%	9/9/2011	9/12/2011	161	171																						
170		<b>LTB:</b>			<b>7 d</b>					<b>0%</b>	<b>9/6/2011</b>	<b>9/14/2011</b>																								
171		<b>PM LTB Stopper mechanism</b>			<b>2 d</b>	<b>MSG</b>		<b>Ernst</b>		<b>0%</b>	<b>9/13/2011</b>	<b>9/14/2011</b>	<b>169</b>																							
172		Check linear bearings			2 d					0%	9/13/2011	9/14/2011																								
173		Install LTB sextupole - TBD			4 d	MSG		<b>Dellorco</b>		0%	9/6/2011	9/9/2011																								
174		<b>Booster:</b>			<b>36.25 d?</b>					<b>0%</b>	<b>8/1/2011</b>	<b>9/21/2011</b>																								
175		<b>Seismic Upgrade</b>			<b>36 d</b>	<b>FAC</b>		<b>Stetson</b>		<b>0%</b>	<b>8/1/2011</b>	<b>9/20/2011</b>																								
176		Install accel equipment cover - visqueene			2 d	SSRL Fac				0%	8/1/2011	8/2/2011	177																							
177		Install Roof Anchors			29 d	Contractor				0%	8/3/2011	9/13/2011	176	178																						
178		Waterproof Roof Anchors			5 d	Contractor				0%	9/14/2011	9/20/2011	177																							
179		<b>Magnet Alignment</b>			<b>10 d</b>					<b>0%</b>	<b>8/8/2011</b>	<b>8/19/2011</b>																								
180		Roll set Booster Quads (40 girders)	Rem poly sheet for access		10 d	AEG		<b>Dell'Orco</b>		0%	8/8/2011	8/19/2011																								
181		<b>Repair 14SD girder vacuum leak</b>			<b>17.5 d</b>			<b>Scott</b>		<b>0%</b>	<b>8/5/2011</b>	<b>8/31/2011</b>																								
182		Vent system			4 hrs	Vac				0%	8/5/2011	8/8/2011	82	183																						
183		Disconnect vac-chb			1 d	Vac				0%	8/8/2011	8/9/2011	182	184																						
184		Split dipole, quad magnets			4 d	MSG				0%	8/9/2011	8/15/2011	183	185																						

SPEAR DOWNTIME: Aug - Oct 2011

5/27/2011

ID	CATER or ID	Task Name	Notes	Priority	Working Duration	Resource / Shop	#P	Project Manager	Task Person	% Complete	Start	Finish	deces	ccess	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13		
															Jul 25	Aug 1	Aug 8	Aug 15	Aug 22	Aug 29	Sep 5	Sep 12	Sep 19	Sep 26	Oct 3	Oct 10	Oct 17		
															T TFSS	T TFSS	T TFSS	T TFSS	T TFSS	T TFSS	T TFSS	T TFSS	T TFSS	T TFSS	T TFSS	T TFSS	T TFSS	T TFSS	
185		Repair vac chb in shop			5 d	Vac				0%	8/15/2011	8/22/2011	184	186															
186		Re-install vac-chb			2 d	Vac				0%	8/22/2011	8/24/2011	185	187															
187		Replace upper magnets			4 d	MSG				0%	8/24/2011	8/30/2011	186	188															
188		Re-connect vac-chb			1 d	Vac				0%	8/30/2011	8/31/2011	187	190															
189		<b>Replace extraction septum vacuum chambe</b>			<b>14 d</b>			<b>Scott</b>		<b>0%</b>	<b>8/31/2011</b>	<b>9/21/2011</b>	<b>188</b>																
190		Remove shielding			1 d	MSG				0%	8/31/2011	9/1/2011	188	191															
191		Disconnect vac-chb			1 d	Vac				0%	9/1/2011	9/2/2011	190	192															
192		Split septum mag - remove front to Vac Shop			2 d	MSG				0%	9/2/2011	9/7/2011	191	193															
193		Install new chamber			4 d	Vac				0%	9/7/2011	9/13/2011	192	194															
194		Install front magnet/vac chb			2 d	MSG				0%	9/13/2011	9/15/2011	193	195															
195		Re-connect vac-chb			2 d	Vac				0%	9/15/2011	9/19/2011	194	196															
196		Replace shielding			1 d	MSG				0%	9/19/2011	9/20/2011	195	197															
197		Pumpdown			1 d	Vac				0%	9/20/2011	9/21/2011	196																
198		Girder mag dis-assembly procedure - write			1 d?	MSG				0%	8/29/2011	8/29/2011																	
199		<b>Vacuum</b>			<b>18 d</b>					<b>0%</b>	<b>8/22/2011</b>	<b>9/15/2011</b>																	
200		<b>IG Controllers</b>			<b>18 d</b>			<b>Nalls</b>		<b>0%</b>	<b>8/22/2011</b>	<b>9/15/2011</b>																	
201		Install controllers			5 d					0%	8/22/2011	8/26/2011		202															
202		Install cables w/long line drivers			10 d					0%	8/29/2011	9/12/2011		203															
203		MPS interface			3 d					0%	9/13/2011	9/15/2011		202															
204		<b>BTS:</b>			<b>3 d</b>					<b>0%</b>	<b>8/15/2011</b>	<b>8/17/2011</b>																	
205		<b>Seismic Upgrade:</b>			<b>3 d</b>					<b>0%</b>	<b>8/15/2011</b>	<b>8/17/2011</b>																	
206		Core drill wall			1 d	SSRL Fac				0%	8/15/2011	8/15/2011		207															
207		Pour cement foundation			2 d	Contractor				0%	8/16/2011	8/17/2011		206															
208		<b>B116, 117, 118, 132</b>			<b>59 d?</b>					<b>0%</b>	<b>7/26/2011</b>	<b>10/14/2011</b>																	
209		<b>B116, 117, 118, 132 - Martin</b>			<b>57 d?</b>	<b>EE</b>		<b>Martin</b>		<b>0%</b>	<b>7/26/2011</b>	<b>10/12/2011</b>																	
210		Power down I&C equipment			1 d?	EE				0%	7/26/2011	7/26/2011																	
211		Protect equipment, SPEAR construction			45 d	EE				0%	7/26/2011	9/26/2011																	
212		Protect equipment, BTS construction			45 d	EE				0%	7/26/2011	9/26/2011																	
213		Cable stabilization (SPEAR/Boo), production ch			5 d	EE				0%	8/15/2011	8/19/2011																	
214		Reset Volt-Limits, BCS Magnet Interlocks			5 d	EE				0%	8/22/2011	8/26/2011																	
215		Clean air filters 116-101, 132-102, 117			5 d	EE				0%	9/6/2011	9/12/2011																	
216		Power-Up I&C equipment			2 d	EE				0%	9/19/2011	9/20/2011																	
217		<b>Certifications</b>			<b>17 d</b>					<b>0%</b>	<b>9/20/2011</b>	<b>10/12/2011</b>																	
218		Certify/Cal Stored Current Intlk (SAPE-099)			14 d	EE				0%	9/20/2011	10/7/2011																	
219		Certify/Cal DCCT (SAPE-115)			1 d	EE				0%	9/20/2011	9/20/2011																	
220		Certify/Cal BPM Curr Mon (SAPE-114)			2 d	EE				0%	9/21/2011	9/22/2011																	
221		Certify/Cal TOSCI (SAPE-230)			2 d	EE				0%	9/21/2011	9/22/2011																	
222		Certify BCS Top-Off Intlk (SAPE-229)			9 d	EE				0%	9/23/2011	10/5/2011																	
223		SPEAR Diagnostic Check List (SAPE-142)			3 d	EE				0%	10/10/2011	10/12/2011																	
224		<b>BL-Martin</b>			<b>25 d</b>	<b>EE</b>		<b>Martin</b>		<b>0%</b>	<b>9/12/2011</b>	<b>10/14/2011</b>																	
225		Terminate timing cables at hutches			5 d	EE				0%	9/12/2011	9/16/2011																	
226		Fiber-optic cable pull (pump-probe experiments)			10 d	EE				0%	10/3/2011	10/14/2011																	
227																													
228		<b>B118</b>			<b>57 d</b>					<b>0%</b>	<b>7/26/2011</b>	<b>10/13/2011</b>																	
229		<b>PCD Beuker</b>			<b>20 d</b>	<b>PCD</b>		<b>Beukers</b>		<b>0%</b>	<b>8/2/2011</b>	<b>8/29/2011</b>																	
230		SPEAR kicker connector upgrade (whole down)			20 d	PCD				0%	8/2/2011	8/29/2011																	
231																													
232		<b>PCD de Lira</b>			<b>57 d</b>	<b>PCD</b>		<b>Johnson</b>		<b>0%</b>	<b>7/26/2011</b>	<b>10/13/2011</b>																	
233		ZVV SP3 Mag PS	Several		0 d	PCD		de Lira		0%	7/26/2011	7/26/2011																	
234																													
235		PM & EEIP two EMHP 80V-375A	BTS-B7H		13 d	PCD		de Lira		0%	8/2/2011	8/18/2011																	
236		Check tightness of AC connections in B118 PS	B118 PS		9 d	PCD		de Lira		0%	8/29/2011	9/9/2011																	
237		PM & EEIP MCOR Bulk ESS 80V-125APS in EMCORs	EMCORs		14 d	PCD		de Lira		0%	8/29/2011	9/16/2011																	
238		PM & EEIP ESS 60V-165A PS in B118	09S-CD2, CD4		8 d	PCD		de Lira		0%	9/6/2011	9/15/2011																	
239		PM & EEIP ESS 40V-375A PS in B118	BTS-B8V-PS		8 d	PCD		de Lira		0%	9/6/2011	9/15/2011																	
240																													
241		PM on SP3 Mag Large PS (PS1-PS6), fan repl	Several		21 d	PCD		de Lira		0%	8/2/2011	8/30/2011																	
242		PM on SP3 Dipole PS, fan replacement, cleani	MS1-PS7		3 d	PCD		de Lira		0%	8/8/2011	8/10/2011																	
243																													
244		SP3 PS Inspection Checklist																											



