

**Hall C work from June to October 2008, SANE Installation and HKS/HES Prep. Rev. 4**

ID	Task Name	Status	Duration	Start	Finish	Risk Code #	Task Hazard Analysis
1	<b>2008 Jun. to Oct. Hall-C SANE installation and HHS/HES Prep.</b>		<b>85 days</b>	<b>Tue 6/10/08</b>	<b>Mon 10/6/08</b>		
2							
3	<u>Meeting: C Staff, RADCON, ALIGN, ACC, EH&amp;S, Target group</u>		<u>0.1 days</u>	<u>Mon 6/9/08</u>	<u>Mon 6/9/08</u>		
4							
5	<u>Beam line and target Radiation cool down</u>		<u>5 days</u>	<u>Tue 6/10/08</u>	<u>Mon 6/16/08</u>		
6							
7	<u>Prepare safety / work documentation for this schedule</u>		<u>5 days</u>	<u>Tue 6/10/08</u>	<u>Mon 6/16/08</u>		
8							
9							
10	<u>GEP decommissioning June 9 to July 3</u>		<u>13 days</u>	<u>Tue 6/10/08</u>	<u>Thu 6/26/08</u>		
11	Clear truck ramp, move in areal platforms, tools and equipment into Hall	Completed	1 day	Tue 6/10/08	Tue 6/10/08	1	ITHA Req'd
12	RADCON support required	Completed	1 day	Tue 6/10/08	Tue 6/10/08	0	ITHA Req'd
13	Crane HES dipole sections to beam left side	Delayed	1 day	Tue 6/17/08	Tue 6/17/08	1	C-08-025-T
14	Move HMS to 45 deg.	Completed	1 day	Tue 6/17/08	Tue 6/17/08	2	ITHA Req'd
15	Crane BIG CAL close to wall (to clear space)	Completed	1 day	Tue 6/17/08	Tue 6/17/08	2	ITHA Req'd
16	Crane 45' JLG and 45' Groove to downstream beam line	Completed	1 day	Fri 6/20/08	Fri 6/20/08	2	ITHA Req'd
17	Disassemble beam line from pivot to dump and store in Hall	Completed	2 days	Mon 6/23/08	Tue 6/24/08	2	C-08-022-T
18	RADCON support required	Completed	2 days	Mon 6/23/08	Tue 6/24/08	0	C-08-022-T
19							
20							
21	<u>Install and commission Secondary emission monitor</u>		<u>8 days</u>	<u>Mon 7/7/08</u>	<u>Wed 7/16/08</u>		
22	Disconnect and remove up stream girder		1 day	Mon 7/7/08	Mon 7/7/08	1	ITHA Req'd
23	RADCON support required		1 day	Mon 7/7/08	Mon 7/7/08	0	ITHA Req'd
24	Mount SEM onto new girder and bolt girder assembly into position		2 days	Tue 7/8/08	Wed 7/9/08	2	ITHA Req'd
25	Connect girder beam line and cables		2 days	Thu 7/10/08	Fri 7/11/08	1	ITHA Req'd
26	Align and secure girder		2 days	Mon 7/14/08	Tue 7/15/08	2	ITHA Req'd
27	Test cables		1 day	Wed 7/16/08	Wed 7/16/08	0	ITHA Req'd
28							
29							
30	<u>FPP removal and standard HMS detector reinstallation</u>		<u>16 days</u>	<u>Mon 6/16/08</u>	<u>Mon 7/7/08</u>		
31	Move all 4 wire chamber boxes from storage Bid to Hall C HMS side	Completed	1 day	Mon 6/16/08	Mon 6/16/08	0	ITHA Req'd
32	Crane 45' JLG's into position	Completed	1 day	Tue 6/17/08	Tue 6/17/08	2	ITHA Req'd
33	Crane HMS shield house wall sections down and secure to frame	Completed	1 day	Wed 6/18/08	Wed 6/18/08	2	C-08-021-T
34	Disconnect and remove FPP Electronic racks	Completed	1 day	Thu 6/19/08	Thu 6/19/08	1	THA Req'd
35	RADCON support required	Completed	1 day	Thu 6/19/08	Thu 6/19/08	0	ITHA Req'd
36	Disconnect and remove HMS trigger electronics	Completed	1 day	Thu 6/19/08	Thu 6/19/08	1	ITHA Req'd
37	RADCON support required	Completed	1 day	Thu 6/19/08	Thu 6/19/08	0	ITHA Req'd
38	Remove small scintillator assembly in front of exit window	Completed	1 day	Fri 6/20/08	Fri 6/20/08	1	ITHA Req'd
39	Position and connect installation fixtures 67502-00019	Completed	2 days	Mon 6/23/08	Tue 6/24/08	2	THA Req'd
40	Disconnect and remove wire chambers	Completed	2 days	Mon 6/23/08	Tue 6/24/08	2	C-08-023-T
41	Place chambers in shipping crate and cover	Completed	2 days	Mon 6/23/08	Tue 6/24/08	2	C-08-023-T
42	RADCON support required	Completed	2 days	Mon 6/23/08	Tue 6/24/08	0	ITHA Req'd
43	Set up and align installation fixtures for CH2 blocks	Completed	2 days	Wed 6/25/08	Thu 6/26/08	1	ITHA Req'd
44	RADCON support required	Completed	2 days	Wed 6/25/08	Thu 6/26/08	0	ITHA Req'd

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ID	Task Name	Status	Duration	Start	Finish	Risk Code #	Task Hazard Analysis
45	Unbolt and slide out all CH2 blocks then crane out storage	Completed	2 days	Wed 6/25/08	Thu 6/26/08	2	THA Req'd
46	<b>RADCON support required</b>	Completed	2 days	Wed 6/25/08	Thu 6/26/08	0	ITHA Req'd
47	Remove installation fixture	Completed	1 day	Thu 6/26/08	Thu 6/26/08	1	ITHA Req'd
48	Unbolt and remove wire chamber ALU support frame	Completed	1 day	Thu 6/26/08	Thu 6/26/08	1	ITHA Req'd
49	Restore position for first hodoscope plane	Completed	1 day	Thu 6/26/08	Thu 6/26/08	1	ITHA Req'd
50	Reinstall Cerenkov detector	Completed	1 day	Thu 6/26/08	Thu 6/26/08	2	THA Req'd
51	Align Cerenkov detector and secure	Completed	1 day	Fri 6/27/08	Fri 6/27/08	0	ITHA Req'd
52	Reinstall aerogell chamber	Completed	1 day	Mon 6/30/08	Mon 6/30/08	2	THA Req'd
53	Install 2nd hodoscopes plane	Completed	1 day	Mon 6/30/08	Mon 6/30/08	1	THA Req'd
54	HMS detector hut light bulbs	Completed	1 day	Tue 7/1/08	Tue 7/1/08	1	ITHA Req'd
55	Reinstall HMS hut shield wall	Completed	1 day	Thu 7/3/08	Thu 7/3/08	2	C-08-21-T
56							
57	<b><u>BIG CAL glass anneal</u></b>		<b><u>54 days</u></b>	<b><u>Tue 6/17/08</u></b>	<b><u>Fri 8/29/08</u></b>		
58	Uncover and prepare lead glass detector stack	Completed	2 days	Tue 6/17/08	Wed 6/18/08	1	
59	Crane and install and connect UV lights	Completed	1 day	Wed 6/18/08	Wed 6/18/08	2	
60	<b>Reposition UV lights during anneal as required</b>	Active	50 days	Wed 6/18/08	Tue 8/26/08	1	
61	Disconnect UV lights and crane of BIG CAL		1 day	Tue 8/26/08	Tue 8/26/08	1	
62	<b>Cover and seal lead glass stack</b>		3 days	Wed 8/27/08	Fri 8/29/08	1	
63							
64							
65	<b><u>Cryo Target disassembly and removal (from Dave Meekins)</u></b>		<b><u>17 days</u></b>	<b><u>Tue 6/10/08</u></b>	<b><u>Wed 7/2/08</u></b>		
66	Warm up Cryo Target an vent scatting chamber	Completed	2 days	Tue 6/10/08	Wed 6/11/08	2	
67	Target Radiation cool down period	Completed	5 days	Tue 6/10/08	Mon 6/16/08		
68	Install pivot extensions and railing	Completed	1 day	Tue 6/17/08	Tue 6/17/08	2	THA Req'd
69	<b>RADCON support required</b>	Completed	1 day	Tue 6/17/08	Tue 6/17/08	1	ITHA Req'd
70	Remove scatting chamber windows	Completed	1 day	Wed 6/18/08	Wed 6/18/08	1	ITHA Req'd
71	<b>RADCON support required</b>	Completed	1 day	Wed 6/18/08	Wed 6/18/08	1	ITHA Req'd
72	Post run survey of target cells	Completed	2 days	Thu 6/19/08	Fri 6/20/08	1	ITHA Req'd
73	Crane in and place Groove 45' areal platform in place (beam left)		1 day	Mon 6/23/08	Mon 6/23/08	2	ITHA Req'd
74	Place 60' JLG (beam right) for U-tube operation		1 day	Mon 6/23/08	Mon 6/23/08	2	ITHA Req'd
75	With Cryo group support, unsting target valve box from distribution can		1 day	Mon 6/23/08	Mon 6/23/08	1	ITHA Req'd
76	Disconnect plumbing and electronics from top of target		1 day	Tue 6/24/08	Tue 6/24/08	2	ITHA Req'd
77	Disconnect the refrigeration transfer lines and store on top of cable tray		1 day	Wed 6/25/08	Wed 6/25/08	1	ITHA Req'd
78	Tie back the plumbing and electrical lines for target		1 day	Wed 6/25/08	Wed 6/25/08	1	ITHA Req'd
79	Use lifting fixture and crane to remove target from pivot		1 day	Thu 6/26/08	Thu 6/26/08	2	ITHA Req'd
80	Disconnect cells and cell blocks and transfer them to the EEL Rad area.		1 day	Fri 6/27/08	Fri 6/27/08	1	ITHA Req'd
81	<b>RADCON support required</b>		1 day	Thu 6/26/08	Thu 6/26/08	1	ITHA Req'd
82	Place target on forklift and transfer it to EEL target group area		1 day	Mon 6/30/08	Mon 6/30/08	1	ITHA Req'd
83							
84							
85	<b><u>Polarized Target installation and commissioning</u></b>		<b><u>52 days</u></b>	<b><u>Tue 7/15/08</u></b>	<b><u>Wed 9/24/08</u></b>		
86	Transport target equipment deck, pivot and upper ALU deck to Hall C		2 days	Tue 7/8/08	Wed 7/9/08	1	ITHA Req'd
87	Relocate signal cables between shield hut and pivot to clear platform install.		2 days	Thu 7/10/08	Fri 7/11/08	2	THA Req'd
88	Layout and bolt equipment deck support legs to the floor		1 day	Mon 7/14/08	Mon 7/14/08	1	ITHA Req'd
89	Crane in and bolt deck onto support legs		1 day	Mon 7/14/08	Mon 7/14/08	2	THA Req'd

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ID	Task Name	Status	Duration	Start	Finish	Risk Code #	Task Hazard Analysis
90	Weld end flanges to the pivot deck		1 day	Tue 7/15/08	Tue 7/15/08	1	ITHA Req'd
91	<b>RADCON support required</b>		1 day	Tue 7/15/08	Tue 7/15/08	1	ITHA Req'd
92	Install staircase, weld to deck then bolt to floor		1 day	Tue 7/15/08	Tue 7/15/08	2	THA Req'd
93	Install scattering chamber base on pivot		1 day	Wed 7/16/08	Wed 7/16/08	1	ITHA Req'd
94	Crane in scattering chamber and bolt to base		1 day	Wed 7/16/08	Wed 7/16/08	1	THA Req'd
95	Place LHE dewer and electronics racks onto equipment deck		2 days	Thu 7/17/08	Fri 7/18/08	1	ITHA Req'd
96	Install target control systems		11 days	Fri 7/18/08	Fri 8/1/08	1	ITHA Req'd
97	Place target into chamber		1 day	Mon 7/21/08	Mon 7/21/08	2	ITHA Req'd
98	Connect to vacuum system		3 days?	Tue 7/22/08	Thu 7/24/08	1	ITHA Req'd
99	Connect cryogenic system, U-tubes etc.		1 day	Thu 7/24/08	Thu 7/24/08	2	ITHA Req'd
100	Pump out scattering chamber and leak check		4 days	Wed 7/23/08	Mon 7/28/08	2	ITHA Req'd
101							
102	Target test cool down		6 days?	Tue 9/23/08	Tue 9/30/08	3	ITHA Req'd
103							
104							
105	<b><u>G-0 Magnet move from Hall C to long term storage (52 tons)</u></b>		<b><u>22 days</u></b>	<b><u>Mon 7/7/08</u></b>	<b><u>Tue 8/5/08</u></b>		
106	Move HMS to large angle to max floor space	delayed	1 day	Mon 7/7/08	Mon 7/7/08	2	ITHA Req'd
107	Clear floor space, move beam line and RAD parts to a secure location	Completed	1 day	Mon 7/7/08	Mon 7/7/08	1	ITHA Req'd
108	<b>RADCON support required</b>	Completed	1 day	Mon 7/7/08	Mon 7/7/08	0	ITHA Req'd
109	Move HKS magnets and FW close to the wall	Completed	1 day	Tue 7/8/08	Tue 7/8/08	2	THA Req'd
110	Assure BIG CAL and cable train are safe	Completed	1 day	Wed 7/9/08	Wed 7/9/08	1	ITHA Req'd
111	Move G-0 magnet into position and secure	Completed	1 day	Wed 7/9/08	Wed 7/9/08	1	ITHA Req'd
112	Remove 22" lead pipe, pack into box and move to lead storage Bld.	Active	1 day	Wed 7/9/08	Wed 7/9/08	2	ITHA Req'd
113	<b>RADCON support required</b>	Active	1 day	Wed 7/9/08	Wed 7/9/08	0	ITHA Req'd
114	Remove downstream end cap and lay onto cribbing	Active	1 day	Mon 7/7/08	Mon 7/7/08	2	ITHA Req'd
115	<b>RADCON support required</b>	Active	2 days	Wed 7/9/08	Thu 7/10/08	0	ITHA Req'd
116	Remove upstream end cap and lay onto cribbing	Active	1 day	Wed 7/9/08	Wed 7/9/08	2	ITHA Req'd
117	<b>RADCON support required</b>	Active	2 days	Wed 7/9/08	Thu 7/10/08	0	ITHA Req'd
118	Unbolt lead, pack into containers and move lead storage Bld.		2 days	Wed 7/9/08	Thu 7/10/08	1	ITHA Req'd
119	<b>RADCON support required</b>		1 day	Thu 7/10/08	Thu 7/10/08	0	ITHA Req'd
120	Remove all 8 titanium windows and place into storage box		1 day	Thu 7/10/08	Thu 7/10/08	0	ITHA Req'd
121	<b>RADCON support required</b>		1 day	Fri 7/11/08	Fri 7/11/08	0	ITHA Req'd
122	Bolt both end caps together, seal and move to lead storage Bld.		1 day	Fri 7/11/08	Fri 7/11/08	2	THA Req'd
123	<b>RADCON support required</b>		1 day	Fri 7/11/08	Fri 7/11/08	0	ITHA Req'd
124	Install shipping frame onto magnet, torque bolts and seal gaps		3 days	Tue 7/15/08	Thu 7/17/08	2	ITHA Req'd
125	Truck cribbing mats and rails into Hall and lay out for position 1		2 days	Mon 7/21/08	Tue 7/22/08	1	ITHA Req'd
126	Move 2 hydraulic towers, pump, H beam and swivel in and setup		1 day	Wed 7/23/08	Wed 7/23/08	2	THA Req'd
127	Lineup towers, connect magnet to swivel and takeout slack		1 day	Thu 7/24/08	Thu 7/24/08	1	ITHA Req'd
128	Unbolt magnet from base, lift, rotate and move to the Hall center		1 day	Thu 7/24/08	Thu 7/24/08	2	ITHA Req'd
129	Set magnet on cribbing, disconnect and remove hydraulic towers.		1 day	Fri 7/25/08	Fri 7/25/08	2	ITHA Req'd
130	Move cribbing mats and rails to position 2		1 day	Mon 7/28/08	Mon 7/28/08	1	ITHA Req'd
131	Set up 2 pairs of hydraulic towers with H beams		1 day	Mon 7/28/08	Mon 7/28/08	2	ITHA Req'd
132	Lift and rotate magnet 90 derg. then onto rollers and secure		1 day	Tue 7/29/08	Tue 7/29/08	2	ITHA Req'd
133	Pull magnet up the truck ramp and into position for loading		1 day	Tue 7/29/08	Tue 7/29/08	2	ITHA Req'd
134	Load magnet onto trailer, secure and move lead storage Bld.		1 day	Wed 7/30/08	Wed 7/30/08	2	ITHA Req'd

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ID	Task Name	Status	Duration	Start	Finish	Risk Code #	Task Hazard Analysis
135	RADCON support required		1 day	Wed 7/30/08	Wed 7/30/08	0	ITHA Req'd
136	Unload magnet and roll into lead storage Bld.		1 day	Wed 7/30/08	Wed 7/30/08	2	ITHA Req'd
137	RADCON support required		1 day	Wed 7/30/08	Wed 7/30/08	0	ITHA Req'd
138	Remove all Lockwood equipment from Hall C		1 day	Wed 7/30/08	Wed 7/30/08	1	ITHA Req'd
139	Shrink-wrap G-0 magnet		1 day	Fri 8/1/08	Fri 8/1/08	1	ITHA Req'd
140	Setup N2 flow from CHL through magnet		2 days	Mon 8/4/08	Tue 8/5/08	1	ITHA Req'd
141							
142							
143	<b>HES / HKS preparation (concrete, magnet assembly etc)</b>		<b>23 days</b>	<b>Wed 8/6/08</b>	<b>Fri 9/5/08</b>		
144	Drill and tap for hoist rings, then place 7/8" steel under new HES base		2 days	Wed 8/6/08	Thu 8/7/08	1	ITHA Req'd
145	Assemble HES magnets base with hilman rollers and hydraulic system		2 days	Thu 8/7/08	Fri 8/8/08	2	THA Req'd
146	Place lower dipole half in position and bolt down		1 day	Mon 8/11/08	Mon 8/11/08	2	ITHA Req'd
147	Move upper dipole half on top and torque down		1 day	Tue 8/12/08	Tue 8/12/08	2	ITHA Req'd
148	Crane Q1 into position next to dipole, align and torque down		1 day	Tue 8/12/08	Tue 8/12/08	2	ITHA Req'd
149	Crane Q2 into position next to dipole, align and torque down		1 day	Wed 8/13/08	Wed 8/13/08	2	ITHA Req'd
150	Connect vacuum chambers and leak check		4 days	Thu 8/14/08	Tue 8/19/08	1	ITHA Req'd
151	Fiducialize magnet assembly		2 days	Wed 8/20/08	Thu 8/21/08	1	ITHA Req'd
152	Layout of 9.5" concrete pad extension for new location of the HKS dipole		1 day	Fri 8/22/08	Fri 8/22/08	1	ITHA Req'd
153	Roll HES magnet assembly and HKS dipole close to the wall to clear space		1 day?	Fri 8/22/08	Fri 8/22/08	1	ITHA Req'd
154	Brake open and remove concrete over the SOS rail section		2 days	Mon 8/25/08	Tue 8/26/08	1	ITHA Req'd
155	Unbolt and remove SOS rail section and transport to bone yard		1 day	Wed 8/27/08	Wed 8/27/08	2	THA Req'd
156	RADCON support required		1 day	Wed 8/27/08	Wed 8/27/08	0	ITHA Req'd
157	Remove all bolts and nuts from the SOS rail base plate		1 day	Wed 8/27/08	Wed 8/27/08	0	ITHA Req'd
158	Place plastic sheeting over the base plate, then temporary cove gap		1 day	Wed 8/27/08	Wed 8/27/08	0	ITHA Req'd
159	Build concrete forms as marked for new HKS dipole position and place rebar		4 days	Thu 8/28/08	Tue 9/2/08	1	THA Req'd
160	Fill SOS rail base gap with concrete and level		1 day	Thu 9/4/08	Thu 9/4/08	1	ITHA Req'd
161	Pore concrete into HKS extension forms, level and finish		2 days	Thu 9/4/08	Fri 9/5/08	2	THA Req'd
162							
163	<b>SANE beam line and low power dump installation</b>		<b>25 days</b>	<b>Tue 9/2/08</b>	<b>Mon 10/6/08</b>		
164	Remove only necessary railing and pivot extensions to fit detector platform		1 day	Tue 9/2/08	Tue 9/2/08	2	ITHA Req'd
165	Install and align Cerenkov detector platform		2 days	Tue 9/2/08	Wed 9/3/08	1	ITHA Req'd
166	Crane in and bolt down support beam and post for lead shielding boxes		1 day	Tue 9/2/08	Tue 9/2/08	1	ITHA Req'd
167	Align and weld box beam security brackets to pivot acc. to drwg.		1 day	Wed 9/3/08	Wed 9/3/08	1	ITHA Req'd
168	RADCON support required		1 day	Wed 9/3/08	Wed 9/3/08	0	ITHA Req'd
169	Weld security brackets for lead ALU shield boxes (SOS side) to pivot		1 day	Wed 9/3/08	Wed 9/3/08	1	ITHA Req'd
170	RADCON support required		1 day	Wed 9/3/08	Wed 9/3/08	0	ITHA Req'd
171	Place and secure ALU shield boxes on box beam and bolt down		1 day	Wed 9/3/08	Wed 9/3/08	1	ITHA Req'd
172	Place and bolt down lead shield boxes on the SOS side		1 day	Thu 9/4/08	Thu 9/4/08	1	ITHA Req'd
173	Assemble target chamber exit beam line section and support		1 day	Thu 9/4/08	Thu 9/4/08	1	ITHA Req'd
174	Assemble He beam line unistrud support frame on the floor (dwg. 6750400050)		3 days	Fri 9/5/08	Tue 9/9/08	2	THA Req'd
175	Layout anchor hole pattern for unistrud support frame		1 day	Tue 9/9/08	Tue 9/9/08	1	ITHA Req'd
176	Lift up beam line support frame with 25' spreader bar and bolt to floor		1 day	Wed 9/10/08	Wed 9/10/08	2	ITHA Req'd
177	Roll out He beam line bag and hang onto frame with crane (dwg. 6750400050)		1 day	Wed 9/10/08	Wed 9/10/08	2	THA Req'd
178	Align and secure entire beam line		1 day	Wed 9/10/08	Wed 9/10/08	1	ITHA Req'd
179	RADCON support required for work in beam dump area		1 day	Wed 9/10/08	Wed 9/10/08	0	ITHA Req'd

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180	Install CAMAC crates near the pivot for tracker electronics		1 day	Thu 9/11/08	Thu 9/11/08	1	ITHA Req'd
181	Install ribbon cables from CAMAC crates to GEP electronic hut (use JLG)		2 days	Thu 9/11/08	Fri 9/12/08	1	ITHA Req'd
182	Install tracker holder stand on pivot		1 day	Fri 9/12/08	Fri 9/12/08	1	ITHA Req'd
183	Align tracker stand		1 day	Fri 9/12/08	Fri 9/12/08	1	ITHA Req'd
184	Place shileding boxes for tracker PMT's		1 day	Mon 9/15/08	Mon 9/15/08	1	ITHA Req'd
185	Fill shield boxes and install		1 day	Mon 9/15/08	Mon 9/15/08	1	ITHA Req'd
186	Install cables for Lucite and for Cherenkov detectors		1 day	Tue 9/16/08	Tue 9/16/08	1	ITHA Req'd
187	Align Cerenkov detector mirrors (on the floor)		3 days	Thu 9/4/08	Mon 9/8/08	1	ITHA Req'd
188	Place Cerenkov detector on platform		1 day	Mon 9/8/08	Mon 9/8/08	2	THA Req'd
189	Align Cerenkov detector and secure		1 day	Tue 9/9/08	Tue 9/9/08	1	ITHA Req'd
190	Connect all cables and detector gas system		1 day	Wed 9/10/08	Wed 9/10/08	1	ITHA Req'd
191	Mount lucite detectors onto BIG CAL		1 day	Tue 9/9/08	Tue 9/9/08	2	THA Req'd
192	Layout for 2nd beam line dump		1 day	Tue 9/9/08	Tue 9/9/08	0	ITHA Req'd
193	Crane in S4 steel blocks and place with 4 ton wall cane		3 days	Tue 9/9/08	Thu 9/11/08	2	ITHA Req'd
194	Install He-supply pipe for He bag (from gas Bld to beam dump)		2 days	Fri 9/12/08	Mon 9/15/08	1	ITHA Req'd
195							
196							
197	<u>SOS disassembly</u>		8 days?	Tue 9/16/08	Thu 9/25/08		
198	Remove SOS detectors from shield hut		5 days	Fri 9/19/08	Thu 9/25/08	2	THA Req'd
199	RADCON support required		4 days	Mon 9/22/08	Thu 9/25/08	0	ITHA Req'd
200							
201							
202	Place rail section to large angle and shim to level	Delayed	1 day?	Mon 9/29/08	Mon 9/29/08		ITHA Req'd
203	Place all toe-clamps	Delayed	1 day?	Mon 9/29/08	Mon 9/29/08		ITHA Req'd
204	shim level and align Rail, then torque down toe-clamps	Delayed	1 day?	Mon 9/29/08	Mon 9/29/08		ITHA Req'd
205	Move SOS to smaller angle	Delayed	1 day?	Mon 9/29/08	Mon 9/29/08		ITHA Req'd
206	Remove hydraulic fluid	Delayed	1 day?	Mon 9/29/08	Mon 9/29/08		ITHA Req'd
207	RADCON support required	Delayed	1 day?	Mon 9/29/08	Mon 9/29/08		ITHA Req'd
208	Remove hydraulic tank and pump	Delayed	1 day?	Mon 9/29/08	Mon 9/29/08		ITHA Req'd
209	RADCON support required	Delayed	1 day?	Mon 9/29/08	Mon 9/29/08		ITHA Req'd
210	Disconnect and remove A/C unit	Delayed	1 day?	Mon 9/29/08	Mon 9/29/08		ITHA Req'd
211	RADCON support required	Delayed	1 day?	Mon 9/29/08	Mon 9/29/08		ITHA Req'd
212	Remove SOS doors	Delayed	1 day?	Mon 9/29/08	Mon 9/29/08		ITHA Req'd
213	RADCON support required	Delayed	1 day?	Mon 9/29/08	Mon 9/29/08		ITHA Req'd

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**Hall C work from June to October 2008, SANE Installation and HKS/HES Prep. Rev. 4**

In Atlis	In HC List	Hot Work Permit	TOSP, RWP, Lift Plan	Risk Code #	Resource Names
	77		C-08-017	1	Hall C Tech's / Experim.
				0	RADCON tech's
				0	Hall C Tech's
				0	Hall C Tech's
				0	Hall C Tech's / Experim.
	78			1	Hall C Tech's
	78			0	Hall C Tech's / Experim.
	78			1	Hall C Tech's / Hamlet
	78			0	Hall C Tech's / Hamlet
	78			0	Hall C Tech's
				1	Hall C Tech's
	Req'd			0	Experimenters/ H C Tech's
	Req'd			0	Experimenters/ H C Tech's
	Req'd			0	Experimenters
	Req'd			0	Experimenters/ H C Tech's
	Req'd			0	Experimenters
	<b>63</b>				<b><u>Cryo Target Tech's</u></b>
	63		MCC-PR-06-006	0	Target Group / Experim.
					RADCON
				1	Hall C Tech's
	63			0	RADCON
	63			0	Cryo Target Tech's
	63			0	RADCON
	63			0	Alignment Group
			C-08-014-L	1	Hall C Tech's
			C-08-015-L	1	Hall C Tech's
	63			1	Target Group / Cryo group
	63			1	Cryo Target Tech's
	63			0	Cryo Target Tech's
	63			0	Cryo Target Tech's
	63			1	Cryo Target Tech's
	63			0	Cryo Target Tech's
				0	RADCON
	63			0	Cryo Target Tech's
					<b><u>Cryo Target Tech's</u></b>
				0	Hall C Tech's
	Req'd			0	Hall C Tech's / Experim.
				0	Hall C Tech's
				1	Hall C Tech's

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In Atlls	In HC List	Hot Work Permit	TOSP, RWP, Lift Plan	Risk Code #	Resource Names
		Req'd		0	Hall C Tech's
				0	RADCON
		Req'd		0	Hall C Tech's
				0	Cryo Target Tech's
	Req'd			0	Cryo Target Tech's
				0	Hall C Tech's
				0	Cryo Target Tech's
	Req'd			1	Cryo Target Tech's
	Req'd			0	Cryo Target Tech's
Req'd				1	Target Group / Cryo group
	Req'd			1	Cryo Target Tech's
			TOSP Req'd	1	Cryo Target Tech's
				1	Design/Eng group
				0	Hall C Tech's / RADCON
				0	RADCON
				1	Hall C Tech's
				0	Hall C Tech's
	22			0	Hall C Tech's
	22		C-08-003-L	1	Hall C Tech's
	22			0	RADCON
	22		C-08-001-L	0	Hall C Tech's
	22			0	RADCON
	22		C-08-002-L	1	Hall C Tech's
	22			0	RADCON
	22			0	Hall C Tech's
	22			0	RADCON
	22			0	Hall C Tech's
	22			0	RADCON
	22			1	Hall C Tech's
	22			0	RADCON
	22		C-08-016-L	1	Hall C Tech's
				0	Lockwood / Hall C Tech's
				1	Lockwood / Hall C Tech's
				0	Lockwood
			C-08-016-L	1	Lockwood
			C-08-016-L	1	Lockwood
				0	Lockwood
			C-08-016-L	1	Lockwood
			C-08-016-L	1	Lockwood
			C-08-016-L	1	Lockwood
			C-08-016-L	1	Lockwood

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In Atlls	In HC List	Hot Work Permit	TOSP, RWP, Lift Plan	Risk Code #	Resource Names
				0	RADCON
			C-08-016-L	1	Lockwood
				0	RADCON
				0	Lockwood / Hall C Tech's
				0	Contractor
Req'd				0	Hall C Tech's
				0	Hall C Tech's
				1	Hall C Tech's
				1	Hall C Tech's
				1	Hall C Tech's
				1	Hall C Tech's
				1	Hall C Tech's
				0	Hall C Tech's
Req'd				0	Alignment Group
Req'd				0	Alignment Group
				0	Hall C Tech's
				0	Hall C Tech's
				1	Hall C Tech's
Req'd				0	RADCON
				0	Hall C Tech's
				0	Hall C Tech's
				0	Contractor
				0	Contractor
				1	Contractor
Req'd	Req'd			1	Hall C Tech's
				0	Hall C Tech's
				0	Hall C Tech's
		Yes		0	Hall C Tech's
				0	RADCON
		Yes		0	Hall C Tech's
				0	RADCON
				0	Hall C Tech's
				0	Hall C Tech's
				0	Hall C Tech's
				1	Hall C Tech's
Req'd				0	Alignment Group
			L Req'd	1	Hall C Tech's
				1	Hall C Tech's
				0	Alignment Group / Hall C Tech's
Req'd				0	RADCON

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In Atlis	In HC List	Hot Work Permit	TOSP, RWP, Lift Plan	Risk Code #	Resource Names
				0	Hall C Tech's / Experim.
				0	Hall C Tech's / Experim.
				0	Hall C Tech's / Experim.
Req'd				0	Alignment Group
				0	Hall C Tech's
				0	Hall C Tech's
				0	Experimenters
Req'd				0	Experimenters
				1	Hall C Tech's
				0	Alignment Group
				0	Hall C Tech's / Experim.
				1	Hall C Tech's / Experim.
				0	Hall C Tech's
				1	Hall C Tech's
				0	Hall C Tech's
				1	Hall C Tech's / Experim.
				0	RADCON
					Hall C Tech's
					Hall C Tech's
					Align. Group / Hall C Tech's
					Hall C Tech's
					Hall C Tech's
					RADCON
					Hall C Tech's
					RADCON
					Hall C Tech's / Electri.
					RADCON
					Hall C Tech's
					RADCON

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