Cost Center: 9417
Job Number: 8200 8210
Job Title: Installation of Coil Support System
Job Manager: Mike Viola
Project Start Date: 6/20/2011

task numb	P3 cross ref (optinal)		TASK DESCRIPTION	Responsible	DURATION in WorkDays	CREW SIZE	Logical Pre-requisites (one task numbers in each column ,any order)	User Input Start Date (optional)	START DATE	FINISH DATE	actual= A	M&S (41) 1.178	CREDIT CARD (43) 1.178	OTHER (39) 1.714	TRAVEL (35) 1.271	OVERTIME (31) 1.971	EA** EM (analysis engr) 193	EA** EM (Designer) 128	EA** EM (Drafting) 133	EE** EM (Elctr Engr) 131	EE** SB (Electr Tech) 160	EE** TB (Electr Tech) 127	EM** EM (FO&M Engr) 91	EM** SM Senior Tech) 165	EM** SB (FO&M Tech) 155	EM** TB (FO&M Tech) 123	OM** SB/TB (HP Tech) 96	R** RM (Researcher) 130	174	1	1	COST CONTINGENCY %	%	Names of req'd skills if known
																																		0
	New numbe	Original numbers																																0
1	8200-0000	WORK PL/	Milestone dates																															0
2	8200-0002	8200-0002	Designs complete	Mark Smith	-				6/20/11	#######																								0
3	8200-0003	8200-0003	Assembly Sequence complete	Mark Smith	-				6/20/11	#######																								0
4	8200-0004	8200-0005	Start procedural development	Mark Smith	-				6/20/11	#######																								0
5	8200-0005	8200-0004	Parts arrived	Mark Smith	-			4/1/12	4/1/12	4/1/2012																								0
6	8200-0006	8200-0006	Mobilize crews	Viola	-			4/1/12	4/1/12	4/1/2012																								0
7	8200-0007	8200-0007	Center Stack available	Perry	-			4/11/14	4/11/14	#######																								0
																																		0
	8200-0010	WORK PL/	Management LOE																															0
																																		0
			FY10/FY11 oversight (@ 3 md /month) 5/1/10-9/30/11																				408											408
			Opening Duration	Viola	430		6		4/1/12	#######																								0
10	8200-0010	8200-0010	Shop Fabrication oversight 20% FTE for duratic	Viola	430	0.2	6		4/1/12	#######													688									10		688
11	8200-0011	8200-0011	Shop Fabrication support 2 FTE for duration	Simmonds/Manny	430	2.0	6		4/1/12	#######															6880							20		6880
12	8200-0012	8200-0012	Assembly oversight .6 FTE	Viola	430	0.6	6		4/1/12	#######													###									10		2064
13	8200-0013	8200-0013	Assembly oversight 1 FTE	Gifford	430	1.0	6		4/1/12	#######														3440								10		3440
14	8200-0014	NEW	Title 3 Support Electrical	Jones	430	0.2	6		4/1/12	#######														688								10		688
15	8200-0015	8200-0014	Title 3 Support Mechanical Engineers	Smith/Atnafu/Raftc	430	0.6	6		4/1/12	#######							2064															10		2064
16	8200-0016	8200-0015	Title 3 Support Drafting	Designer	430	0.2	6		4/1/12	#######								688														10		688
17	8200-0017	8200-0016	OT for efficiency (3 crews 1 weekend a month)	Techs	430		6		4/1/12	#######															1032							20		1032
18	8200-0018	8200-0017	MISC M&S $250 per day* 3 crews	Techs	430		6		4/1/12	#######		$323																				10		0
																																		0
	8210-0020	WORK PL/	Documentation																															0
																																		0
20	8210-0020	8200-0020	PREPARE WORK PLANNING FORM	Viola	3	1.0			6/20/11	#######													24									50		24
21	8210-0021	8200-0021	Fab/AssyInstallation Procedure	Mark Smith	20	1.0			6/20/11	#######													160									50		160
22	8210-0022	8200-0028a	RF Line catalog, mark, develop as-built drawing	Alba	30	1.0			6/20/11	8/1/2011	60	$1					80	240					320									50		640
23	8210-0023	NEW	Fiducial Photogrammetry	Dodson	10	1.0			6/20/11	7/4/2011		$4											80		80							50		160
																																		0
		UPGRADE	(MACHINE ACCESS REQUIRED FOR ALL ACTIVITIES!)																															0
	8210-0030	WORK PL/	DIAGNOSTIC CATALOGUE AND PROCEDURES																															0
																																		0
30	8210-0030	8210-0026	Perform bay by bay catalogue and label Elect	SM Elec designer	12	1.0			6/20/11	7/6/2011														96								40		96
31	8210-0031	8210-0027	Perform bay by bay catalogue and label Mech	EM**SM	12	1.0			6/20/11	7/6/2011														96								40		96
32	8210-0032	8210-0028	Write Mechanical removal procedures	EM Raftopoulos	40	1.0			6/20/11	#######							320															40		320
33	8210-0033	8210-0030	Write Electrical cable tray Removal & Installatic	SM Elec designer	35	1.0	30		7/6/11	#######														280								40		280
34	8210-0034	NEW	Write Electrical CHERS Procedures	SM Elec designer	5	2.0	33		8/24/11	#######														80								10		80
35	8210-0035	NEW	Write Electrical MSE Bay B Procedures	SM Elec designer	5	2.0	34		8/31/11	9/7/2011														80								10		80
36	8210-0036	NEW	Write Electrical MSE-LIF Bay G Procedures	SM Elec designer	5	2.0	35		9/7/11	#######														80								40		80
37	8210-0037	NEW	Write Fiber FIDA Procedures	SM Elec designer	5	2.0	36		9/14/11	#######														80								40		80
38	8210-0038	NEW	Write Electrical TF coil tiewrap Procedures	SM Elec designer	15	1.0	37		9/21/11	#######								240						120								10		360
39	8210-0039	NEW	Write Electrical General Procedures	SM Elec designer	40	1.0	38		10/12/11	#######								320						280								40		600
																																		0
	8210-0040	WORK PL/	PREP and EQUIPMENT REMOVALS																															0
																																		0
40	8210-0040	NEW	Design and Fabricate TF Coil Handling fixture	Viola/Techs W1	20	3.0		8/1/11	8/1/11	#######		$30						150							480							10		630
41	8210-0041	NEW	Design and Fabricate Umbrella Leg Handling fi	Smith/Techs W1	20	3.0	40		8/29/11	#######		$30						150							480							10		630
42	8210-0042	NEW	Fabricate crates and set up areas for storage	Techs M1	20	3.0		10/1/11	10/1/11	#######		$15													480							10		480
43	8210-0043	8200-0029	Remove RF pipes	RF EE/SB/TB	20	5.0	6		4/1/12	#######															800							30		800
44	8210-0044	NEW	Blow out hoses	Techs M1	5	2.5	6		4/1/12	4/8/2012															100							10		100
45	8210-0045	NEW	Lower Hoses relocate	Techs M1	10	2.5	6		4/1/12	#######		$5													200							10		200
46	8210-0046	NEW	Photogrammetry Coil and Vacuum vessel	Dodson	5	1.0	6		4/1/12	4/8/2012		$2											40		40							30		80
47	8210-0047	8200-0031	Pull back cables	Techs E/Powers1	20	2.5	6		4/1/12	#######		$20													400							30		400
48	8210-0048	8200-0032	Upper Tray remove Elect	Techs E/Powers2	5	2.5	47		4/29/12	5/6/2012		$10													100							30		100
49	8210-0049	8200-0048	Umbrella Lids Remove existing	Rigger Techs	1	5.0	6		4/1/12	4/2/2012		$2													40							30		40
50	8210-0050	NEW	Remove upper flex joints	Techs M3	5	2.5	49		4/2/12	4/9/2012															100							30		100
51	8210-0051	8200-0034	Remove and store Upper port eqpt	Techs M2	10	2.5	50		4/9/12	#######		$3													200							30		200
52	8210-0052	NEW	Remove lower flex joints	Techs M3	5	2.5	49		4/2/12	4/9/2012															100							30		100
53	8210-0053	NEW	Lower Tray remove and store Elect	Techs E/Powers2	10	2.5	48		5/6/12	#######		$10													200							10		200
54	8210-0054	8200-0034	Remove and store Lower port eqpt	Techs M2	6	2.5	52	51	4/23/12	5/1/2012		$3													120							30		120
55	8210-0055	NEW	Perform Electrical CHERS Procedures	Techs E/Powers1	2	2.0	48		5/6/12	5/8/2012														32								10		32
56	8210-0056	8200-0033	Remove and store midplane Mech	Techs M1/M2	15	5.0	55	45	5/8/12	#######		$10													600							40		600
57	8210-0057	NEW	Perform Electrical MSE Bay B Procedures	Techs E/Powers1	2	2.0	55		5/8/12	#######														32								10		32
58	8210-0058	NEW	Perform Electrical MSE-LIF Bay G Procedures	Techs E/Powers2	5	2.0	53		5/20/12	#######														80								40		80
59	8210-0059	NEW	Perform Fiber FIDA Procedures	Techs E/Powers2	4	2.0	58		5/27/12	6/1/2012														64								40		64
60	8210-0060	8200-0036	Fiducialize Coil and Vacuum vessel	Raftopolous+Tech	10	1.0	56		5/29/12	#######		$2											80		80							40		160
61	8210-0061	8200-0039	Remove insulation	Techs M1	15	2.5	56		5/29/12	#######															300							30		300
62	8210-0062	8200-0040	Remove Gas Injection System	Techs M2	8	2.5	56		5/29/12	#######															160							30		160
63	8210-0063	8200-0043	Clear Bay G platform and area to remove bad T	Techs E/M3	20	6.0	52		4/9/12	5/7/2012															960							30		960
64	8210-0064	8200-0035	Remove section of platform	Techs M3	5	5.0	63		5/7/12	#######		$2													200							30		200
65	8210-0065	8200-0044	Remove bad TF	Techs M3	3	5.0	64		5/14/12	#######															120							30		120
66	8210-0066		Upgrade Passive plate Hardware	Techs M3	20	2.5	65		5/18/12	#######															400							30		400
67	8210-0067	8200-0045	Replace LLD with tiles	Techs M3	20	4.0	66		6/15/12	#######															640							30		640
																																		0
	8210-0070	WORK PL/	TOP																															0
																																		0
			2 week delay contingency for rework																															0
70	8210-0070	8200-0048a	Umbrella legs cut existing	Techs W3	10	2.5	69	51	7/13/12	#######		$2													200							30		200
71	8210-0071	NEW	Umbrella VV legs remove exisitng hardware	Techs M3	4	2.5	70		7/27/12	8/2/2012															80							30		80
72	8210-0072	8200-0048c	Umbrella legs weld new	Techs W3	22	2.5	71		8/2/12	8/7/2012		$2													80							30		80
73	8210-0073	NEW	Umbrella legs measure Shim EDC1149-1	Techs M3	4	1.0	72		8/7/12	9/7/2012		$2													176							30		176
74	8210-0074	NEW	Umbrella legs machine Shim EDC1149-1	Techs M3	12	1.0	73		9/7/12	#######		$2													32							30		32
75	8210-0075	NEW	Umbrella legs Install Shim EDC1149-1	Techs M3	6	2.5	74		9/13/12	#######		$2													240							30		240
76	8210-0076	8200-0050	Umbrella VV legs replace exisitng hardware	Techs M3	5	2.5	75		9/30/12	#######															100							30		100
77	8210-0077	NEW	TF EDC1455 weld Inner AL Block reinforcemer	Techs W3	12	2.5	76		10/7/12	#######		$1													240							30		240
78	8210-0078	NEW	TF EDC1478 bolt Outer AL Block reinforcemen	Techs W3	6	2.5	77		10/23/12	#######															120							30		120
79	8210-0079	8200-0060	PF2 Replace existing hardware (bolted)	Techs M3	1	2.5	78		11/1/12	#######															20							30		20
80	8210-0080	8200-0061	PF2 Install New clamps (bolted)	Techs M3	4	2.5	79		11/2/12	#######															80							30		80
81	8210-0081	8200-0065	PF3 remove bolted supports & bus	Techs M3	4	2.5	80		11/8/12	#######															80							30		80
82	8210-0082	8200-0064	PF3 lift and support	Rigger Techs	2	2.5	81		11/13/12	#######															40							30		40
83	8210-0083	8200-0067	PF3 weld reinforcement	Techs W3	18	2.5	82		11/16/12	#######															360							30		360
84	8210-0084	8200-0068	PF3 Lower and align	Rigger Techs	3	2.5	83		12/11/12	#######															60							30		60
85	8210-0085	8200-0066	PF3 Install new bolted hardware	Techs M3	8	2.5	84		12/16/12	#######															160							30		160
86	8210-0086	NEW	PF3 Reconnect Bus	Techs M3	4	2.5	85		12/27/12	1/1/2013															80							30		80
																																		0
	8210-0100	WORK PL/	MIDPLANE EXPANDED FOR FIRST BAY																															0
																																		0
100	8210-0100	NEW	Electrical mark and relocate fibers	Powers/Techs E	10	3.0	60		6/12/12	#######															240							30		240
101	8210-0101	8200-0052	TF Verify datums and remove turnbuckles	Techs M	1	2.5	100		6/26/12	#######															20							30		20
102	8210-0102	8200-0069	PF5 U&L Remove existing midplane columns	Techs M	1	2.5	101		6/28/12	#######															20							30		20
103	8210-0103		UPPER																						0							30		0
104	8210-0104	NEW	PF5 U Cut off Clevis supports	Techs W	1	1.0	102		6/29/12	7/1/2012															8							30		8
105	8210-0105	NEW	PF5 U Weld studs supports	Techs W	1	2.5	104		7/1/12	7/2/2012															20							30		20
106	8210-0106	8200-0052a	TF U Remove/grind existing clevis bolts	Techs M	1	1.0	105		7/2/12	7/3/2012															8							30		8
107	8210-0107	8200-0052b	TF U weld new clevis	Techs W	1	2.5	106		7/3/12	7/5/2012															20							30		20
108	8210-0108	NEW	PF4&5 U Install new intersticial clamps	Techs M	2	2.5	107		7/5/12	7/8/2012															40							30		40
109	8210-0109	8200-0071	PF4&5 U Replace existing bolts	Techs M	1	2.5	108		7/8/12	7/9/2012															20							30		20
110	8210-0110	8200-0052c	TF U Install 2 new TF clamps	Techs M	4	2.5	109		7/9/12	#######															80							30		80
111	8210-0111	8200-0053	TF U Install Vessel ties and align	Techs M	1	2.5	110		7/15/12	#######															20							30		20

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												Estimate (user input)																		
					SCHEDULE USER INPUT				Calculated			FY10$K					HOURS (priced at FY10 rates)											%	%	
112	8210-0112	8200-0054	TF U Install new ring weldment	Techs M	1	2.5	111		7/16/12	#######														20				30		20
113	8210-0113	8200-0055	TF U Measure new ring splice	Techs M	1	1.0	112		7/17/12	#######														8				30		8
114	8210-0114	NEW	TF U Machine new ring splice	Techs M	2	2.5	113		7/19/12	#######														40				30		40
115	8210-0115	NEW	TF U Weld new ring splice	Techs W	1	2.5	114		7/22/12	#######														20				30		20
116	8210-0116	8200-0056	TF U Align and match drill new ring splice	Techs M	1	2.5	115		7/23/12	#######														20				30		20
117	8210-0117	NEW	TF U Shim (meas,mach,inst) new ring weldmer	Techs M	5	2.5	116		7/24/12	#######														100				30		100
118	8210-0118	8200-0057	TF U Install and torque all bolts	Techs M	1	1.0	117		7/31/12	8/2/2012														8				30		8
119	8210-0119		LOWER																					0				30		0
120	8210-0120	NEW	PF5 L Cut off Clevis supports	Techs W	1	1.0	118		8/2/12	8/3/2012														8				30		8
121	8210-0121	NEW	PF5 L Weld studs supports	Techs W	1	2.5	120		8/3/12	8/5/2012														20				30		20
122	8210-0122	8200-0052a	TF L Remove/grind existing clevis bolts	Techs M	1	1.0	121		8/5/12	8/6/2012														8				30		8
123	8210-0123	8200-0095a	TF L weld new clevis	Techs W	1	2.5	122		8/6/12	8/7/2012														20				30		20
124	8210-0124	NEW	PF4&5 L Install new intersticial clamps	Techs M	1	2.5	123		8/7/12	8/9/2012														20				30		20
125	8210-0125	NEW	PF5 U&L Install new column DC1568	Techs W	2	2.5	124		8/9/12	#######														40				30		40
126	8210-0126	8200-0094	PF4&5 L Replace existing bolts	Techs M	1	2.5	125		8/12/12	#######														20				30		20
127	8210-0127	8200-0095	PF5 U&L Replace existing column with new	Techs W	2	2.5	126		8/13/12	#######														40				30		40
128	8210-0128	NEW	PF5 U&L Shim (meas,mach,inst) new column	Techs W	5	2.5	127		8/16/12	#######														100				30		100
129	8210-0129	8200-0093	PF4&5 U&L Torque all bolts	Techs M	0.5	2.5	128		8/23/12	#######														10				30		10
130	8210-0130	8200-0077	TF L Install 2 new TF clamps	Techs M	4	2.5	129		8/23/12	#######														80				30		80
131	8210-0131	8200-0078	TF L Install Vessel ties and align	Techs M	0.5	2.5	130		8/29/12	#######														10				30		10
132	8210-0132	8200-0079	TF L Install new ring weldment	Techs M	1	2.5	131		8/30/12	#######														20				30		20
133	8210-0133	8200-0055	TF L Measure new ring splice	Techs M	0.5	1.0	132		8/31/12	9/1/2012														4				30		4
134	8210-0134	NEW	TF L Machine new ring splice	Techs M	2	2.5	133		9/1/12	9/4/2012														40				30		40
135	8210-0135	NEW	TF L Weld new ring splice	Techs W	1	2.5	134		9/4/12	9/5/2012														20				30		20
136	8210-0136	8200-0080	TF L Align and match drill new ring splice	Techs M	1	2.5	135		9/5/12	9/6/2012														20				30		20
137	8210-0137	8200-0081	TF L Install and torque all bolts	Techs M	0.5	1.0	136		9/6/12	9/7/2012														4				30		4
138	8210-0138	NEW	Metrology verify coil positions	Raftopolous+Tech	3	1.0	137		9/7/12	#######							24							24				30		48
139	8210-0139	NEW	Fiber and electrical reinstall	Powers/Techs E	5	3.0	138		9/11/12	#######														120				30		120
																								0				30		0
	8210-0150	WORK PL/	MIDPLANE SEQUENCED BY CRISS-CROSS BAYS																					0				30		0
																								0				30		0
150	8210-0150	NEW	Bay A (ABOVE)	CREW 1	70	0.0	60		6/12/12	#######														0				30		0
151	8210-0151	NEW	Bay G Electrical and Metrology not on critical p	CREW 2	52	0.0	118		8/2/12	#######							24							1340				30		1364
152	8210-0152	NEW	Bay B	CREW 1	52	0.0	150		9/18/12	#######							24							1340				30		1364
153	8210-0153	NEW	BAY H	CREW 2	52	0.0	151		10/14/12	#######							24							1340				30		1364
154	8210-0154	NEW	Bay C	CREW 1	52	0.0	152		11/30/12	#######							24							1340				30		1364
155	8210-0155	NEW	BAY I	CREW 2	52	0.0	153		12/25/12	3/8/2013							24							1340				30		1364
156	8210-0156	NEW	Bay D	CREW 1	52	0.0	154		2/11/13	#######							24							1340				30		1364
157	8210-0157	NEW	BAY J	CREW 2	52	0.0	155		3/8/13	#######							24							1340				30		1364
158	8210-0158	NEW	Bay E	CREW 1	52	0.0	156		4/25/13	7/7/2013							24							1340				30		1364
159	8210-0159	NEW	BAY K	CREW 2	52	0.0	157		5/20/13	8/1/2013							24							1340				30		1364
160	8210-0160	NEW	BAY F	CREW 1	52	0.0	158		7/7/13	#######							24							1340				30		1364
161	8210-0161	NEW	BAY L	CREW 2	52	0.0	159		8/1/13	#######							24							1340				30		1364
162	8210-0162	NEW	Move NB2 from Erik		110	0.0		9/1/13	9/1/13	2/2/2014																				0
																														0
	8210-0170	WORK PL/	BOTTOM																											0
																														0
			2 week delay contingency for rework																					0						0
170	8210-0170	8200-0076	Umbrella Lid remove existing	Rigger Techs	1	5.0	85		12/27/12	#######														40				30		40
171	8210-0171	NEW	Umbrella legs cut existing	Techs W3	10	2.5	170		12/28/12	#######														200				30		200
172	8210-0172	NEW	Umbrella VV legs remove exisitng hardware	Techs M3	4	2.5	171		1/11/13	#######														80				30		80
173	8210-0173	NEW	Umbrella legs weld new	Techs W3	30	2.5	172		1/17/13	#######														600				30		600
174	8210-0174	NEW	Umbrella legs measure Shim EDC1149-1	Techs M3	4	1.0	173		2/28/13	3/5/2013		$2												240				30		240
175	8210-0175	NEW	Umbrella legs machine Shim EDC1149-1	Techs M3	12	1.0	174		3/5/13	#######		$2												32				30		32
176	8210-0176	NEW	Umbrella legs Install Shim EDC1149-1	Techs M3	6	2.5	175		3/22/13	#######		$2												240				30		240
177	8210-0177	8200-0097	Umbrella VV legs replace exisitng hardware	Techs M3	5	2.5	176		3/31/13	4/7/2013														100				30		100
178	8210-0178	NEW	TF EDC1455 weld Inner AL Block reinforcemer	Techs W3	12	2.5	177		4/7/13	#######		$1												240				30		240
179	8210-0179	NEW	TF EDC1478 bolt Outer AL Block reinforcemen	Techs W3	6	2.5	178		4/23/13	5/2/2013														120				30		120
180	8210-0180	8200-0083	PF2 Replace existing hardware (bolted)	Techs M3	1	2.5	179		5/2/13	5/3/2013														20				30		20
181	8210-0181	8200-0084	PF2 Install New clamps (bolted)	Techs M3	4	2.5	180		5/3/13	5/9/2013														80				30		80
182	8210-0182	8200-0088	PF3 remove bolted supports & bus	Techs M3	4	2.5	181		5/9/13	#######														80				30		80
183	8210-0183	8200-0087	PF3 lower and support	Rigger Techs	2	2.5	182		5/14/13	#######														40				30		40
184	8210-0184	8200-0090	PF3 weld reinforcement	Techs W3	18	2.5	183		5/17/13	#######														360				30		360
185	8210-0185	8200-0091	PF3 Reinstall and align	Rigger Techs	3	2.5	184		6/11/13	#######														60				30		60
186	8210-0186	8200-0089	PF3 Install new bolted support	Techs M3	8	2.5	185		6/16/13	#######														160				30		160
187	8210-0187	NEW	Reconnect Bus	Techs M3	4	2.5	186		6/27/13	7/2/2013														80				30		80
188	8210-0188	8200-0099	TF Install New Coil	Techs M3	5	5.0	187		7/2/13	7/9/2013		$50												200				30		200
189	8210-0189	8200-0102	Reinstall platform section for safety	Techs M3	8	5.0	188		7/9/13	#######		$10												320				30		320
190	8210-0190	8200-0101	VV Legs Reinforcement plate	Techs M3	8	2.5	189		7/21/13	8/1/2013														160				30		160
191	8210-0191	8200-0115	Replace lower Hoses	Techs M3	10	2.5	190		8/1/13	#######		$5												200				30		200
																														0
	8210-0200	WORK PL/	ALIGNMENT VERIFICATION COIL AND VACUUM VESSEL																											0
																														0
200	8210-0200	8200-0105	Map internal targets to external	Raftopolous+Tech	10	2.5	189	##	10/13/13	#######												80		200				30		280
201	8210-0201	8200-0106	Verify Vessel Alignemnt targets	Raftopolous+Tech	10	2.5	200		10/27/13	#######												80		200				30		280
202	8210-0202	8200-0107	Verify Coil Alignment Targets	Raftopolous+Tech	10	2.5	201		11/10/13	#######												80		200				30		280
203	8210-0203	8200-0108	Adjust vessel Internals	Raftopolous+Tech	15	2.5	202		11/24/13	#######												120		300				30		420
204	8210-0204	8200-0109	Adjust TF Coils	Raftopolous+Tech	4	2.5	203		12/15/13	#######												32		80				30		112
205	8210-0205	8200-0110	Adjust PF Coils	Raftopolous+Tech	6	2.5	204		12/20/13	#######												48		120				30		168
																														0
																														0
	8210-0210	WORK PL/	REINSTALL EQUIPMENT																											0
																														0
210	8210-0210	8200-0121	Reinstall insulation	Techs M1	10	2.5	205	##	12/29/13	#######														200				30		200
211	8210-0211	8200-0122	Platform areas reinstall	Techs M1	40	5.0	210		1/12/14	3/9/2014		$10												1600				30		1600
212	8210-0212	8200-0123	Heating Manifold Reconfigure	Techs M2	10	2.5	211		3/9/14	#######		$25												200				30		200
213	8210-0213	8200-0124	Reinstall RF pipes	Techs RF	30	2.5	211		3/9/14	#######							80	60		400				1200				30		1740
214	8210-0214	8200-0125	Install New electrical Tray	Techs E	40	2.5	212	##	3/23/14	#######		$35												800				30		800
215																														
DO NOT USE OR MOVE THIS ROW - USED FOR CALCULATIONS ABOVE																														
		TOTALS										$625	#	#	#	#	2544	2136		400	0	4304	5528	42272						
	TOTAL Preliminary Cost Estimate ($k)=				$8,327							$736	#	#	#	$0	492	274		51	0	711	858	5207	0	0	0	0	0	