

# CR3 Outage Containment Repair Project - Level 3 Schedule

Row	Activity	Description	Early Start	Early Finish	Rem Dur	WBS	Dec		Jan			Feb			Mar			Apr		
							28	04	11	18	25	01	08	15	22	01	08	15	22	29
<b>Containment Repair Action Items</b>																				
2	DELECT010	-Issue Level 2 Schedule That Includes Input from Engineering & EPC Contractor	11/17/09 07	01/07/10 12	34	C13300	2 -Issue Level 2 Schedule That Includes Input from 11/17/09 07 01/07/10 12													
3	DELECT012	-Ensure the Installation of Containment Equip Hatch is Factored into CRT Sch	11/17/09 07	01/07/10 12	34	C13300	3 -Ensure the Installation of Containment Equip Hatch is 11/17/09 07 01/07/10 12													
4	DELECT009	-Prepare & Issue SGT Containment Repair Scope of Work Document	12/01/09 07	01/06/10 12	22	C13300	4 -Prepare & Issue SGT Containment Repair Scope 12/01/09 07 01/06/10 12													
5	DELECT005	-Prepare & Issue SGT Staffing & Mobilization Plan / Task Plans	12/01/09 07	01/09/10 12	58	C13300	5 -Prepare & Issue SGT Staffing & Mobilization Plan / 12/01/09 07 01/09/10 12													
6	DELECT008	-Establish When SGT Takes Control of Schedule Function.	12/01/09 07	01/13/10 12	94	C13300	6 -Establish When SGT Takes Control of Schedule Function 12/01/09 07 01/13/10 12													
<b>Containment Repair Logistics</b>																				
8	DELLOG008	-Tent # 39 Move Tent From MTF to MLY & Repower	12/18/09 07	01/06/10 17	23	C62100	8 -Tent # 39 Move Tent From MTF to MLY & Repower 12/18/09 07 01/06/10 17													
9	DELLOG005	-Move P. Ingersol Crew From Trailer #24 to Trailer #5	12/18/09 07	01/06/10 17	23	C62100	9 -Move P. Ingersol Crew From Trailer #24 to Trailer #5 12/18/09 07 01/06/10 17													
10	DELLOG011	-Tent # 80 Move Tent From MTF to MLY & Repower	01/04/10 14	01/25/10 08	144	C62100	10 -Tent # 80 Move Tent From MTF to MLY & Repower 01/04/10 14 01/25/10 08													
11	DELLOG014	-P. Fagan Crew Move Personnel & Their Items from Trailer # 1 to Trailer # 24	01/04/10 14	01/25/10 08	144	C62100	11 -P. Fagan Crew Move Personnel & Their Items 01/04/10 14 01/25/10 08													
12	DELLOG017	-Take Physical Ownership of SGR Fab Tent # 46	01/11/10 07	01/22/10 17	100	C62100	12 -Take Physical Ownership of SGR Fab Tent # 46 01/11/10 07 01/22/10 17													
13	DELLOG020	-Trailer # 24 Demob to Trailers 16 & 18	01/11/10 07	01/29/10 17	150	C62100	13 -Trailer # 24 Demob to Trailers 16 & 18 01/11/10 07 01/29/10 17													
14	DELLOG023	-Restore the Parking in The Main Parking Lot	01/18/10 07	01/29/10 17	100	C62100	14 -Restore the Parking in The Main Parking Lot 01/18/10 07 01/29/10 17													
15	DELLOG026	-Take Physical Ownership of SGR Decon Tent # 86	02/01/10 07	02/12/10 17	100	C62100	15 -Take Physical Ownership of SGR Decon Tent # 86 02/01/10 07 02/12/10 17													
<b>Containment Repair Root Cause Analysis</b>																				
17	DELCA058	-PE Develop Root Cause Document (AR 358724)	10/21/09 07	01/24/10 19	245	C45500	17 -PE Develop Root Cause Document (AR 358724) 10/21/09 07 01/24/10 19													

Legend:  Milestones  In-Progress  Activity

January 04, 2010 05:16:37 PM

P/119

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Row	Activity	Description	Early Start	Early Finish	Rem Dur	WBS	Schedule																											
							Dec 28	04	11	18	25	01	08	15	22	01	08	15	22	29	05													
18	DELCA060	-PII Develop Support/Refute Root Cause Analysis Documentation	10/25/09 07	01/12/10 19	88	C45500																												
19	DELCA056	-PII Analyze, Develop & Issue Final Root Cause Analysis Report	11/15/09 16	01/21/10 19	197	C45500																												
20	DELCA061	-PE Perform Owners Review of Support/Refute Root Cause Analysis Documentation	11/24/09 07	01/14/10 19	112	C45500																												
21	DELCA086	PII Tune Abaqus Model w/ Creep Test Results, Creep Gradient, ASR	12/23/09 14	01/08/10 14	96	C45500																												
22	DELCA082	-PII Expand Nastran Model	12/23/09 14	01/06/10 02	36	C45500																												
23	DELCA080	-PII Procure Super Computer Use	12/23/09 14	01/06/10 02	36	C45500																												
24	DELCA084	PII Load Expand Model on Abaqus	01/06/10 02	01/08/10 02	48	C45500																												
25	DELCA057	-PII Analyze, Analysis of MPR Detension Scope & Sequence	01/08/10 07	01/11/10 19	48	C45500																												
26	DELCA088	PII Cross Check Abaqus & Merlin Models	01/08/10 14	01/10/10 14	48	C45500																												
27	DELCA071	PII Perform FEM Analysis with Lab Test Results	01/10/10 14	01/10/10 19	5	C45500																												
28	DELCA056C	PE Perform Owners Review of Final Root Cause Analysis Report	01/22/10 07	01/23/10 19	24	C45500																												
29	DELCA059	PNSC Review & Approve Root Cause Determination	01/25/10 07	01/27/10 19	36	C45500																												
30	DELCA059M	Root Cause Analysis Complete/Approved MILESTONE	01/27/10 19	01/27/10 19	0	C45500																												
<b>Containment Repair Design Basis Analysis</b>																																		
32	DELDBA-3M	Design Basis Analysis Complete MILESTONE	02/05/10 13	02/05/10 13	0	C45100																												
33	DELDBA-0030	EC 63016: Revise EC Based on Tendon Tension Calc to support Fuel Load	01/25/10 18	01/28/10 18	72	C43200																												

Legend:  Milestones  Activity

Page 2 of 16

January 04, 2010 05:16:37 PM

# CR3 Outage Containment Repair Project - Level 3 Schedule

Row	Activity	Description	Early Start	Early Finish	Rem Dur	WBS	Schedule (Dec to Apr)																							
							Dec 28	04	11	18	25	01	08	15	22	01	08	15	22	29	05									
34	DELOUT-0200	Interface - Complete Design Requirements Prior to Fuel Load Start	01/28/10 18	01/28/10 18	0	C45100																								
35	DELDBA-0004	-Detensioning Calc - Incorporate Additional Elements (Eq Htch)	12/02/09 21	01/08/10 10	92	C43200																								
36	DELDBA-0009	-Detensioning Calc - Include Results of Analysis in Calc & Release for Review	12/23/09 17	01/08/10 07	89	C43200																								
37	DELDBA-0018	-Detensioning Calc-Conduit Local Stress Analysis (MPR Calc 0102-0135-05)	12/27/09 07	01/11/10 13	167	C43200																								
38	DELDBA-0010	-Detensioning Calc-Concrete Reinforcement Ratios (MPR Calculation 0102-0135-01)	12/27/09 07	01/06/10 13	47	C43200																								
39	DELDBA-0012	-Detensioning Calc-Concrete Strength & Elastic Modulus (MPR Calc 0102-0135-02)	12/27/09 07	01/10/10 13	143	C43200																								
40	DELDBA-0016	-Detensioning Calc-Finite Element Model Description(MPR Calc 0102-0135-04)	12/27/09 07	01/13/10 13	215	C43200																								
41	DELDBA-0014	-Detensioning Calc-Tendon Tension (MPR Calculation 0102-0135-03)	12/27/09 07	01/10/10 13	143	C43200																								
42	DELDBA-0006	-Detensioning Calc - Perform Revised Calc Owners Review	01/08/10 07	01/12/10 07	96	C43200																								
43	DELDBA-0020	-Detensioning Calc-Tendon Detensioning Evaluation (MPR Calc 0102-0135-06)	01/09/10 13	01/14/10 13	120	C43200																								
44	DELDBA-0005	-Detensioning Calc - Approve Calc	01/13/10 13	01/15/10 13	48	C43200																								
45	DELDBA-1M	Detensioning Calculation Complete MILESTONE	01/15/10 13	01/15/10 13	0	C43200																								
46	DELDBA-0202	-Containment Delam Calc - S&L Perform Final Analysis	12/22/09 13	01/20/10 09	379	C43200																								
47	DELDBA-0204	-Containment Delam Calc - Perform Owners Review of S&L Calc	01/20/10 09	01/23/10 18	81	C43200																								
48	DELDBA-0203	Containment Delam Calc - S&L Issue Draft Calc for PE Review	01/20/10 09	01/20/10 09	0	C43200																								
49	DELDBA-0205	-Containment Delam Calc - Resolve Owners Review Comments on S&L Calc	01/23/10 18	01/25/10 18	48	C43200																								

Legend:	Milestones	In-Progress	Activity

January 04, 2010 05:16:37 PM

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							28	04	11	18	25	01	08	15	22	01	08	15	22	29	05		
50	DELDBA-0206	Containment Delam Calc - Issue Final S & L Calc	01/25/10 18	01/25/10 18	0	C43200					18	25	01	08	15	22	01	08	15	22	29	05	
51	DELDBA-0100	-Containment Bldg Calc - Finalize Computer Analysis	01/15/10 13	01/22/10 13	168	C43200					18	25	01	08	15	22	01	08	15	22	29	05	
52	DELDBA-0104	-Containment Bldg Calc - Incorp Eq Htch Model Details	01/15/10 13	01/29/10 13	336	C43200					18	25	01	08	15	22	01	08	15	22	29	05	
53	DELDBA-0101	-Containment Bldg Calc - Compile Calc to be Ready for Review/Verification	01/22/10 13	01/29/10 13	168	C43200					18	25	01	08	15	22	01	08	15	22	29	05	
54	DELDBA-0102	-Containment Bldg Calc - Owners Review/Verification	01/29/10 13	02/03/10 13	120	C43200					18	25	01	08	15	22	01	08	15	22	29	05	
55	DELDBA-0103	-Containment Bldg Calc - Incorporate Review Comments & Approve	02/03/10 13	02/05/10 13	48	C43200					18	25	01	08	15	22	01	08	15	22	29	05	
56	DELDBA-2M	Containment Bldg Calc Compl MILESTONE	02/05/10 13	02/05/10 13	0	C43200					18	25	01	08	15	22	01	08	15	22	29	05	
<b>Containment Repair Implementation Design</b>																							
58	DELDES1M	EC Implementation Design Complete MILESTONE	02/14/10 07	02/14/10 07	0	C45100																	
59	DELDES11710	-EC 75000 PH 1 Concrete Cut: Planning Prepare W/O 01652765 Packages Complete	12/26/09 10	01/15/10 07	257	C47100	12/26/09 10																
60	DELDES21020M	EC 75218 PH 2 Detension: Develop 70% Pkg	12/30/09 14	01/11/10 20	25	C45100	12/30/09 14																
61	DELDES21025	EC 75218 PH 2 Detension: Distribute 70% Pkg for Review	01/11/10 20	01/12/10 04	8	C45100					20												
62	DELDES2111M	EC 75218 PH 2 Detension: Develop Final EC "Pkg for final DRB"	01/11/10 20	01/16/10 20	120	C45100					20												
63	DELDES21027	EC 75218 PH 2 Detension: Review 70% Pkg	01/12/10 04	01/13/10 04	24	C45100					04												
64	DELDES21030	EC 75218 PH 2 Detension: 70% Package Meeting	01/13/10 02	01/13/10 04	2	C45100					04												
65	DELDES2120Z	EC 75218 PH 2 Detension: MILESTONE - 70% Pkg Mtg Cplt	01/13/10 04	01/13/10 04	0	C45100					04												
Row	Activity	Description	Early Start	Early Finish	Rem Dur	WBS	Dec	Jan	Feb	Mar	Apr												

Legend: Milestones In-Progress Activity

January 04, 2010 05:16:37 PM

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							28	04	11	18	25	01	08	15	22	01	08	15	22	29
66	DELDES2120	EC 75218 PH 2 Detension: Inter-Departmental Reviews	01/16/10 20	01/18/10 20	48	C45100														
67	DELDES2190Z	EC 75218 PH 2 Detension: Milestone - Issued for Final Review	01/16/10 20	01/16/10 20	0	C45100														
68	DELDES2115M	EC 75218 PH 2 Detension: Mech / Struc - DV	01/16/10 20	01/18/10 20	48	C45100														
69	DELDES2117	EC 75218 PH 2 Detension: Incorp Verification Comments	01/18/10 20	01/19/10 20	24	C45100														
70	DELDES2123	EC 75218 PH 2 Detension: Incorp Review Comments	01/18/10 20	01/19/10 20	24	C45100														
71	DELDES2125	EC 75218 PH 2 Detension: Supv Review Prior to Final DRB	01/19/10 20	01/20/10 00	4	C45100														
72	DELDES2125D	EC 75218 PH 2 Detension: Distrib Final DRB Pkg for Review	01/20/10 00	01/20/10 01	1	C45100														
73	DELDES2125R	EC 75218 PH 2 Detension: Review Final DRB Pkg	01/20/10 01	01/21/10 01	24	C45100														
74	DELDES21205	EC 75218 PH 2 Detension: Final DRB Meeting	01/21/10 01	01/21/10 03	2	C45100														
75	DELDES21215	EC 75218 PH 2 Detension: Incorporate Final DRB Comments	01/21/10 03	01/22/10 03	24	C45100														
76	DELDES21220	EC 75218 PH 2 Detension: Obtain Supervisor Approval	01/22/10 03	01/22/10 11	8	C45100														
77	DELDES2130Z	EC 75218 PH 2 Detension: MILESTONE - All Reviews Complete	01/22/10 03	01/22/10 03	0	C45100														
78	DELDES21225	EC 75218 PH 2 Detension: Obtain PGM Approval	01/22/10 11	01/23/10 11	24	C45100														
79	DELDES21710	EC 75218 PH 2 Detension: Planning Prepare EC Work Packages	01/23/10 11	01/26/10 11	72	C47100														
80	DELDES2140Z	EC 75218 PH 2 Detension: MILESTONE -OK to Start Field Work	01/23/10 11	01/23/10 11	0	C45100														
81	DELDES3115N	-EC 75218 PH 3 Detension: Revise IWE/IWL Repair Plans	12/30/09 18	01/13/10 15	20	C45100														

81 -EC 75218 PH 3 Detension: Revise IWE/IWL Repair Plans  
 12/30/09 18 01/13/10 15

Legend:

Milestones

In-Progress

Activity



January 04, 2010 05:16:37 PM

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Row	Activity	Description	Early Start	Early Finish	Rem Dur	WBS	Gantt Chart																											
							Dec 28	04	11	18	25	01	08	15	22	01	08	15	22	29	05													
82	DELDES31027	EC 75219 PH 3 Removal: Review 30% Design Pkg	01/04/10 00	01/06/10 14	48	C45100	82 EC 75219 PH 3 Removal: Review 30% Design Pkg 01/04/10 00 01/06/10 14																											
83	DELDES3111M	-EC 75219 PH 3 Removal: Develop Final EC "Pkg for final DRB"	01/06/10 14	01/19/10 16	158	C45100	83 -EC 75219 PH 3 Removal: Develop Final EC "Pkg for 01/06/10 14 01/19/10 16																											
84	DELDES31030	EC 75219 PH 3 Removal: 30% Design Review Meeting	01/07/10 09	01/07/10 11	2	C45100	84 EC 75219 PH 3 Removal: 30% Design Review Meeting 01/07/10 09 01/07/10 11																											
85	DELDES3120Z	EC 75219 PH 3 Removal: MILESTONE - 30% Design Review Complete	01/07/10 11	01/07/10 11	0	C45100	85 EC 75219 PH 3 Removal: MILESTONE - 30% Design 01/07/10 11 01/07/10 11																											
86	DELDES3115M	-EC 75219 PH 3 Removal: Mech / Struc - DV	01/19/10 16	01/25/10 16	144	C45100	86 -EC 75219 PH 3 Removal: Mech / Struc - DV 01/19/10 16 01/25/10 16																											
87	DELDES3120	-EC 75219 PH 3 Removal: Inter-Departmental Reviews	01/19/10 16	01/25/10 16	144	C45100	87 -EC 75219 PH 3 Removal: Inter-Departmental Reviews 01/19/10 16 01/25/10 16																											
88	DELDES3117	EC 75219 PH 3 Removal: Incorp Verification Comments	01/25/10 16	01/27/10 13	45	C45100	88 EC 75219 PH 3 Removal: Incorp Verification Comment 01/25/10 16 01/27/10 13																											
89	DELDES3123	EC 75219 PH 3 Removal: Incorp Review Comments	01/25/10 18	01/27/10 15	45	C45100	89 EC 75219 PH 3 Removal: Incorp Review Comments 01/25/10 18 01/27/10 15																											
90	DELDES3190Z	EC 75219 PH 3 Removal: Milestone - Issued for Final Review	01/25/10 18	01/25/10 18	0	C45100	90 EC 75219 PH 3 Removal: Milestone - Issued for Final R 01/25/10 18 01/25/10 18																											
91	DELDES3125	EC 75219 PH 3 Removal: Supv Review Prior to Final DRB	01/27/10 15	01/27/10 19	4	C45100	91 EC 75219 PH 3 Removal: Supv Review Prior to Final D 01/27/10 15 01/27/10 19																											
92	DELDES3125D	EC 75219 PH 3 Removal: Distrib Final DRB Pkg for Review	01/27/10 19	01/27/10 20	1	C45100	92 EC 75219 PH 3 Removal: Distrib Final DRB Pkg for Re 01/27/10 19 01/27/10 20																											
93	DELDES3125R	EC 75219 PH 3 Removal: Review Final DRB Pkg	01/27/10 20	01/30/10 14	66	C45100	93 EC 75219 PH 3 Removal: Review Final DRB Pkg 01/27/10 20 01/30/10 14																											
94	DELDES31205	EC 75219 PH 3 Removal: Final DRB Meeting	01/30/10 14	01/30/10 16	2	C45100	94 EC 75219 PH 3 Removal: Final DRB Meeting 01/30/10 14 01/30/10 16																											
95	DELDES31215	EC 75219 PH 3 Removal: Incorporate Final DRB Comments	01/30/10 16	02/01/10 16	48	C45100	95 EC 75219 PH 3 Removal: Incorporate Final DRB Com 01/30/10 16 02/01/10 16																											
96	DELDES3130Z	EC 75219 PH 3 Removal: MILESTONE - All Reviews Complete	02/01/10 16	02/01/10 16	0	C45100	96 EC 75219 PH 3 Removal: MILESTONE - All Reviews C 02/01/10 16 02/01/10 16																											
97	DELDES31220	EC 75219 PH 3 Removal: Obtain Supervisor Approval	02/01/10 16	02/02/10 16	24	C45100	97 EC 75219 PH 3 Removal: Obtain Supervisor Approval 02/01/10 16 02/02/10 16																											

Legend:

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January 04, 2010 05:16:37 PM

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							Dec 28	04	11	18	25	01	08	15	22	01	08	15	22	29	05													
98	DELDES31225	EC 75219 PH 3 Removal: Obtain PGM Approval	02/02/10	02/03/10	07	15 C45100	<div style="position: absolute; top: 0px; left: 600px; font-size: 8px;">                     98 EC 75219 PH 3 Removal: Obtain PGM Approval                      02/02/10 16 02/03/10 07                 </div>																											
99	DELDES31710	EC 75219 PH 3 Removal: Planning Prepare EC Work Packages	02/03/10	02/06/10	07	72 C47100	<div style="position: absolute; top: 0px; left: 600px; font-size: 8px;">                     99 EC 75219 PH 3 Removal: Planning Prepare EC Work P                      02/03/10 07 02/06/10 07                 </div>																											
100	DELDES3140Z	EC 75219 PH 3 Removal: MILESTONE - PGM Approval	02/03/10	02/03/10	07	0 C45100	<div style="position: absolute; top: 0px; left: 600px; font-size: 8px;">                     100 EC 75219 PH 3 Removal: MILESTONE - PGM Approv                      02/03/10 07 02/03/10 07                 </div>																											
101	DELDES41008D	EC 75220 PH 4 Replacement: 30% Design Challenge Pkg Review	12/30/09	01/07/10	09	67 C45100	<div style="position: absolute; top: 0px; left: 400px; font-size: 8px;">                     101 EC 75220 PH 4 Replacement: 30% Design                      12/30/09 14 01/07/10 09                 </div>																											
102	DELDES4111M	EC 75220 PH 4 Replacement: Develop 70% EC "Pkg for Design Challenge	01/13/10	01/22/10	15	216 C45100	<div style="position: absolute; top: 0px; left: 500px; font-size: 8px;">                     102 EC 75220 PH 4 Replacement: Develop 70%                      01/13/10 15 01/22/10 15                 </div>																											
103	DELDES4-0011	EC 75220 PH 4 Replacement: AREVA Review & Revise Calc S06-0007 for Liner Plate	01/15/10	01/31/10	23	398 C45100	<div style="position: absolute; top: 0px; left: 500px; font-size: 8px;">                     103 EC 75220 PH 4 Replacement: AREVA                      01/15/10 09 01/31/10 23                 </div>																											
104	DELDES4-0010	EC 75220 PH 4 Replacement: AREVA Issue Reinforcement Calc/Dwgs	01/15/10	01/31/10	23	398 C45100	<div style="position: absolute; top: 0px; left: 500px; font-size: 8px;">                     104 EC 75220 PH 4 Replacement: AREVA Issue                      01/15/10 09 01/31/10 23                 </div>																											
105	DELDES4-0014	EC 75220 PH 4 Replacement: AREVA/MPR Revise Calc S06-0004	01/15/10	01/31/10	23	398 C45100	<div style="position: absolute; top: 0px; left: 500px; font-size: 8px;">                     105 EC 75220 PH 4 Replacement: AREVA/MPR                      01/15/10 09 01/31/10 23                 </div>																											
106	DELDES4-0013	EC 75220 PH 4 Replacement: Void Calc S09-0025	01/15/10	02/03/10	23	470 C45100	<div style="position: absolute; top: 0px; left: 500px; font-size: 8px;">                     106 EC 75220 PH 4 Replacement: Void Calc S09                      01/15/10 09 02/03/10 23                 </div>																											
107	DELDES4-0008	EC 75220 PH 4 Replacement: AREVA Design Additional Reinforcement for Delam Area	01/15/10	01/20/10	23	134 C45100	<div style="position: absolute; top: 0px; left: 500px; font-size: 8px;">                     107 EC 75220 PH 4 Replacement: AREVA                      01/15/10 09 01/20/10 23                 </div>																											
108	DELDES4-0006	EC 75220 PH 4 Replacement: AREVA Design Radial Reinforcement	01/15/10	01/20/10	23	134 C45100	<div style="position: absolute; top: 0px; left: 500px; font-size: 8px;">                     108 EC 75220 PH 4 Replacement: AREVA                      01/15/10 09 01/20/10 23                 </div>																											
109	DELDES4-0009	EC 75220 PH 4 Replacement: AREVA Revise Existing & Create New Reinforcement Dwgs	01/15/10	01/20/10	23	134 C45100	<div style="position: absolute; top: 0px; left: 500px; font-size: 8px;">                     109 EC 75220 PH 4 Replacement: AREVA                      01/15/10 09 01/20/10 23                 </div>																											
110	DELDES4-0022	EC 75220 PH 4 Replacement: MPR Revise Calc S09-0048	01/15/10	01/31/10	23	398 C45100	<div style="position: absolute; top: 0px; left: 500px; font-size: 8px;">                     110 EC 75220 PH 4 Replacement: MPR Revise                      01/15/10 09 01/31/10 23                 </div>																											
111	DELDES4-0021	EC 75220 PH 4 Replacement: Void Calc S08-0008	01/15/10	02/09/10	04	595 C45100	<div style="position: absolute; top: 0px; left: 500px; font-size: 8px;">                     111 EC 75220 PH 4 Replacement: Void Calc S08                      01/15/10 09 02/09/10 04                 </div>																											
112	DELDES4-0024	EC 75220 PH 4 Replacement: AREVA Revise Calc S09-0044	01/15/10	01/31/10	23	398 C45100	<div style="position: absolute; top: 0px; left: 500px; font-size: 8px;">                     112 EC 75220 PH 4 Replacement: AREVA                      01/15/10 09 01/31/10 23                 </div>																											
113	DELDES4-0018	EC 75220 PH 4 Replacement: AREVA/MPR Revise Calc S06-0005	01/15/10	01/31/10	23	398 C45100	<div style="position: absolute; top: 0px; left: 500px; font-size: 8px;">                     113 EC 75220 PH 4 Replacement: AREVA/MPR                      01/15/10 09 01/31/10 23                 </div>																											

Legend: Milestones In-Progress Activity

January 04, 2010 05:16:37 PM







## CR3 Outage Containment Repair Project - Level 3 Schedule

Row	Activity	Description	Early Start	Early Finish	Rem Dur	WBS	Dec	Jan	Feb	Mar	Apr							
							28	04	11	18	25	01	08	15	22	01	08	15
146	DELDES41215	EC 75220 PH 4 Replacement: Incorporate Final DRB Comments	02/11/10 23	02/12/10 23	24	C45100				146 EC 75220 PH 4 Replacement: Incorporate 02/11/10 23 02/12/10 23								
147	DELDES4130Z	EC 75220 PH 4 Replacement: MILESTONE - All Reviews Complete	02/12/10 23	02/12/10 23	0	C45100				147 EC 75220 PH 4 Replacement: MILESTONE - 02/12/10 23 02/12/10 23								
148	DELDES41220	EC 75220 PH 4 Replacement: Obtain Supervisor Approval	02/12/10 23	02/13/10 07	8	C45100				148 EC 75220 PH 4 Replacement: Obtain 02/12/10 23 02/13/10 07								
149	DELDES41225	EC 75220 PH 4 Replacement: Obtain PGM Approval	02/13/10 07	02/14/10 07	24	C45100				149 EC 75220 PH 4 Replacement: Obtain PGM A 02/13/10 07 02/14/10 07								
150	DELDES4140Z	EC 75220 Replacement MILESTONE - PGM Approval	02/14/10 07	02/14/10 07	0	C45100				150 EC 75220 Replacement MILESTONE - PGM Approv 02/14/10 07 02/14/10 07								
151	DELDES41710	EC 75220 PH 4 Replacement: Planning Prepare EC Work Packages	02/14/10 07	02/17/10 07	72	C47100				151 EC 75220 PH 4 Replacement: Planning 02/14/10 07 02/17/10 07								
152	DELDES510Z	EC 75221 PH 5 Retension: MILESTONE - "Start Project"	01/15/10 07	01/15/10 07	0	C45100			152 EC 75221 PH 5 Retension: MILESTONE - "Start Project" 01/15/10 07 01/15/10 07									
153	DELDES51005	EC 75221 PH 5 Retension: Prep / Cplt Validation Plan w/Supv	01/15/10 07	01/15/10 09	2	C45100			153 EC 75221 PH 5 Retension: Prep / Cplt Validation Plan w/ 01/15/10 07 01/15/10 09									
154	DELDES51008	EC 75221 PH 5 Retension: Develop Project Tm / Kick-Off Mtg	01/15/10 09	01/15/10 11	2	C45100			154 EC 75221 PH 5 Retension: Develop Project Tm / 01/15/10 09 01/15/10 11									
155	DELDES51020M	EC 75221 PH 5 Retension: Develop Draft Pkg for Conceptual DRB	01/15/10 11	01/21/10 00	133	C45100			155 EC 75221 PH 5 Retension: Develop Draft Pkg for 01/15/10 11 01/21/10 00									
156	DELDES51600	EC 75221 PH 5 Retension: ID Long Lead material to Procurement	01/20/10 20	01/21/10 00	4	C45100			156 EC 75221 PH 5 Retension: ID Long Lead material to Pro 01/20/10 20 01/21/10 00									
157	DELDES5111M	EC 75221 PH 5 Retension: Develop Final EC "Pkg for final DRB"	01/21/10 00	01/22/10 12	36	C45100			157 EC 75221 PH 5 Retension: Develop Final EC "Pkg for 01/21/10 00 01/22/10 12									
158	DELDES51025	EC 75221 PH 5 Retension: Distribute Conceptual DRB Pkg for Review	01/21/10 00	01/21/10 08	8	C45100			158 EC 75221 PH 5 Retension: Distribute Conceptual DRB 01/21/10 00 01/21/10 08									
159	DELDES51027	EC 75221 PH 5 Retension: Review Conceptual DRB Pkg	01/21/10 08	01/22/10 08	24	C45100			159 EC 75221 PH 5 Retension: Review Conceptual DRB Pk 01/21/10 08 01/22/10 08									
160	DELDES51030	EC 75221 PH 5 Retension: Conceptual DRB Meeting	01/22/10 06	01/22/10 08	2	C45100			160 EC 75221 PH 5 Retension: Conceptual DRB Meeting 01/22/10 06 01/22/10 08									
161	DELDES5120Z	EC 75221 PH 5 Retension: MILESTONE - Conceptual DRB Mtg Cplt / Waived	01/22/10 08	01/22/10 08	0	C45100			161 EC 75221 PH 5 Retension: MILESTONE - Conceptual 01/22/10 08 01/22/10 08									

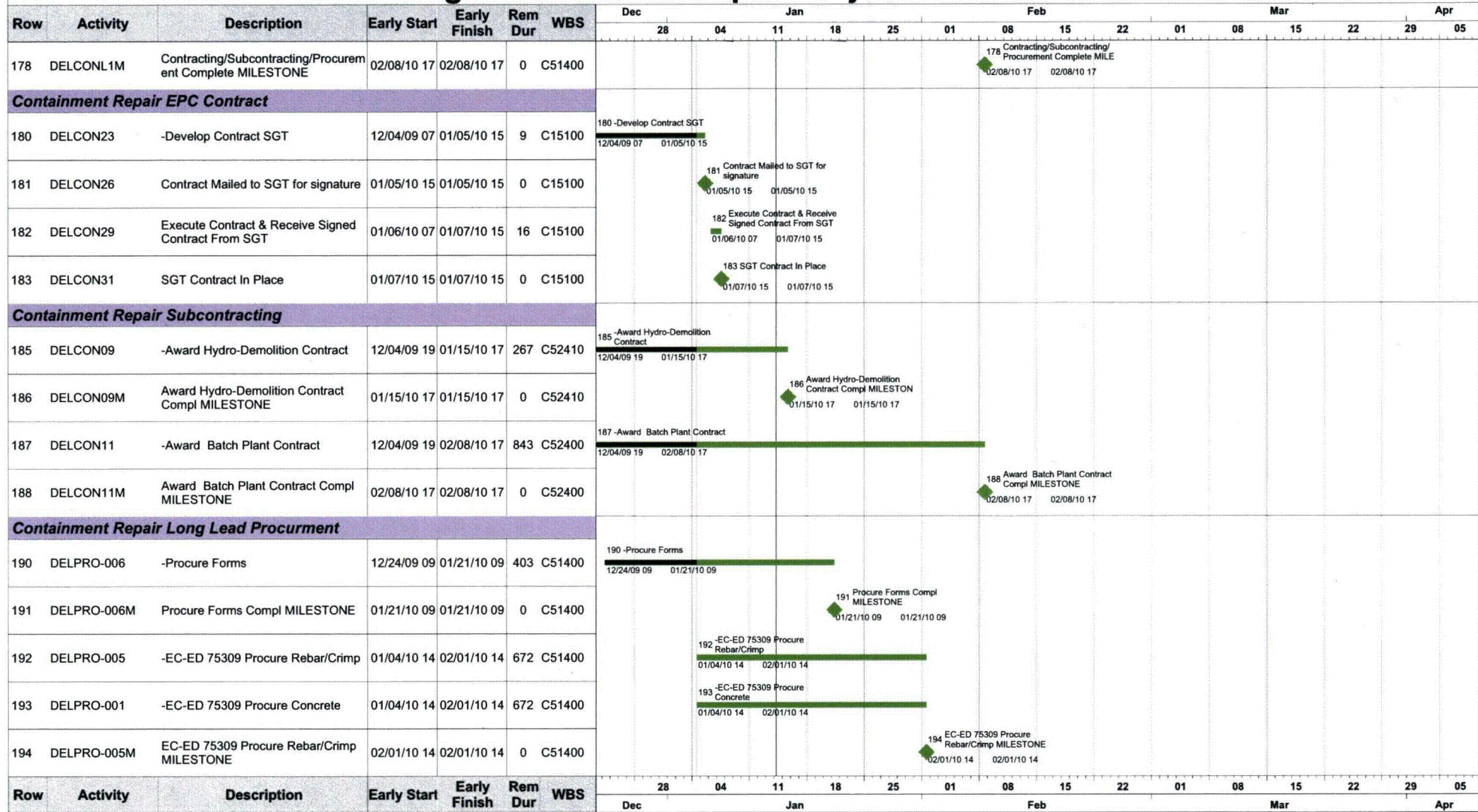
Legend: Milestones In-Progress Activity

January 04, 2010 05:16:37 PM

## CR3 Outage Containment Repair Project - Level 3 Schedule

Row	Activity	Description	Early Start	Early Finish	Rem Dur	WBS	Schedule Gantt Chart																												
							Dec 28	04	11	18	25	01	08	15	22	01	08	15	22	29	05														
162	DELDES5190Z	EC 75221 PH 5 Retension: Milestone - Issued for Final Review	01/22/10	12/01/22/10	12	0	C45100	162 EC 75221 PH 5 Retension: Milestone - Issued for Final R 01/22/10 12 01/22/10 12																											
163	DELDES5115M	EC 75221 PH 5 Retension: Mech / Struc - DV	01/22/10	12/01/26/10	12	96	C45100	163 EC 75221 PH 5 Retension: Mech / Struc - DV 01/22/10 12 01/26/10 12																											
164	DELDES5120	EC 75221 PH 5 Retension: Inter-Departmental Reviews	01/22/10	12/01/26/10	12	96	C45100	164 EC 75221 PH 5 Retension: Inter-Departmental Reviews 01/22/10 12 01/26/10 12																											
165	DELDES5117	EC 75221 PH 5 Retension: Incorp Verification Comments	01/26/10	12/01/29/10	13	73	C45100	165 EC 75221 PH 5 Retension: Incorp Verification Comment 01/26/10 12 01/29/10 13																											
166	DELDES5123	EC 75221 PH 5 Retension: Incorp Review Comments	01/26/10	12/01/29/10	13	73	C45100	166 EC 75221 PH 5 Retension: Incorp Review Comments 01/26/10 12 01/29/10 13																											
167	DELDES5125	EC 75221 PH 5 Retension: Supv Review Prior to Final DRB	01/29/10	13/01/29/10	17	4	C45100	167 EC 75221 PH 5 Retension: Supv Review Prior to Final D 01/29/10 13 01/29/10 17																											
168	DELDES5125D	EC 75221 PH 5 Retension: Distrib Final DRB Pkg for Review	01/29/10	17/01/29/10	18	1	C45100	168 EC 75221 PH 5 Retension: Distrib Final DRB Pkg for Re 01/29/10 17 01/29/10 18																											
169	DELDES5125R	EC 75221 PH 5 Retension: Review Final DRB Pkg	01/29/10	18/01/30/10	18	24	C45100	169 EC 75221 PH 5 Retension: Review Final DRB Pkg 01/29/10 18 01/30/10 18																											
170	DELDES51205	EC 75221 PH 5 Retension: Final DRB Meeting	01/30/10	18/01/30/10	20	2	C45100	170 EC 75221 PH 5 Retension: Final DRB Meeting 01/30/10 18 01/30/10 20																											
171	DELDES51215	EC 75221 PH 5 Retension: Incorporate Final DRB Comments	01/30/10	20/01/31/10	20	24	C45100	171 EC 75221 PH 5 Retension: Incorporate Final DRB Com 01/30/10 20 01/31/10 20																											
172	DELDES5130Z	EC 75221 PH 5 Retension: MILESTONE - All Reviews Complete	01/31/10	20/01/31/10	20	0	C45100	172 EC 75221 PH 5 Retension: MILESTONE - All Reviews C 01/31/10 20 01/31/10 20																											
173	DELDES51220	EC 75221 PH 5 Retension: Obtain Supervisor Approval	01/31/10	20/02/01/10	04	8	C45100	173 EC 75221 PH 5 Retension: Obtain Supervisor Approval 01/31/10 20 02/01/10 04																											
174	DELDES51225	EC 75221 PH 5 Retension: Obtain PGM Approval	02/01/10	04/02/02/10	04	24	C45100	174 EC 75221 PH 5 Retension: Obtain PGM Approval 02/01/10 04 02/02/10 04																											
175	DELDES5140Z	EC 75221 PH 5 Retension: MILESTONE - PGM Approval	02/02/10	04/02/02/10	04	0	C45100	175 EC 75221 PH 5 Retension: MILESTONE - PGM Approv 02/02/10 04 02/02/10 04																											
176	DELDES51710	EC 75221 PH 5 Retension: Planning Prepare EC Work Packages	02/02/10	04/02/05/10	04	72	C47100	176 EC 75221 PH 5 Retension: Planning Prepare EC Work P 02/02/10 04 02/05/10 04																											
<b>Containment Repair Contracting / Subcontracting / Procurement</b>																																			
Row	Activity	Description	Early Start	Early Finish	Rem Dur	WBS	Legend																												
							<div style="display: flex; justify-content: space-around;"> <span>◆ Milestones</span> <span>▬ In-Progress</span> <span>▬ Activity</span> </div>																												

# CR3 Outage Containment Repair Project - Level 3 Schedule



Legend: Milestones (diamond), In-Progress (black bar), Activity (green bar)

January 04, 2010 05:16:37 PM

## CR3 Outage Containment Repair Project - Level 3 Schedule

Row	Activity	Description	Early Start	Early Finish	Rem Dur	WBS	Gantt Chart																											
							Dec 28	04	11	18	25	01	08	15	22	01	08	15	22	29	05													
195	DELPRO-001M	EC-ED 75309 Procure Concrete Mix Compl MILESTONE	02/01/10 14	02/01/10 14	0	C51400																												
196	DELPRO-004	-EC-ED 75308 Procure Grease	12/25/09 18	01/22/10 18	436	C51400																												
197	DELPRO-002	-EC-ED 75308 Procure Tendons	12/25/09 18	01/22/10 18	436	C51400																												
198	DELPRO-003	-EC-ED 75308 Procure Conduit	12/25/09 18	01/22/10 18	436	C51400																												
199	DELPRO-004M	EC-ED 75308 Procure Grease Compl MILESTONE	01/22/10 18	01/22/10 18	0	C51400																												
200	DELPRO-002M	EC-ED 75308 Procure Tendons Compl MILESTONE	01/22/10 18	01/22/10 18	0	C51400																												
201	DELPRO-003M	EC-ED 75308 Procure Conduit Compl MILESTONE	01/22/10 18	01/22/10 18	0	C51400																												
<b>Containment Repair Construction</b>																																		
203	DELRPI-0030	EC 74801: Remove 8 Displacement Gauges In S/G Opening & 2 in two 4" Cores 51&81A	02/19/10 07	02/19/10 19	12	C51400																												
204	DELRPI-0031	EC 74801: Remove 22 Strain Gauges In Five 8" Cores 6AA, 30, 57A, 84A & 92	02/20/10 07	02/20/10 19	12	C51400																												
205	DELRPI-0025	EC 74801: Dome: GPR, Prep, Form & Grout Repair at 7 Core Drill Locations	02/22/10 07	02/23/10 07	24	C51400																												
206	DELRPI-123A	EC 74801: Non-Delam Bays 5-6: GPR, Prep, Form & Grout Repair at 9 Core Locations	02/23/10 07	02/24/10 19	36	C51400																												
207	DELRPI-0026	EC 74801: Dome: Strip Forms at 7 Grout Repair Locations	02/24/10 01	02/24/10 07	6	C51400																												
208	DELRPI-121A	EC 74801: Non-Delam Bays 4-5: GPR, Prep, Form & Grout Repair at 9 Core Locations	02/24/10 19	02/26/10 07	36	C51400																												
209	DELRPI-123B	EC 74801: Non-Delam Bays 5-6: Strip Forms at 9 Grout Repair Locations	02/25/10 13	02/25/10 19	6	C51400																												
210	DELRPI-124A	EC 74801: Non-Delam Bays 6-1: GPR, Prep, Form & Grout Repair at 16 Core Location	02/26/10 07	02/28/10 19	60	C51400																												

Legend:

Milestones

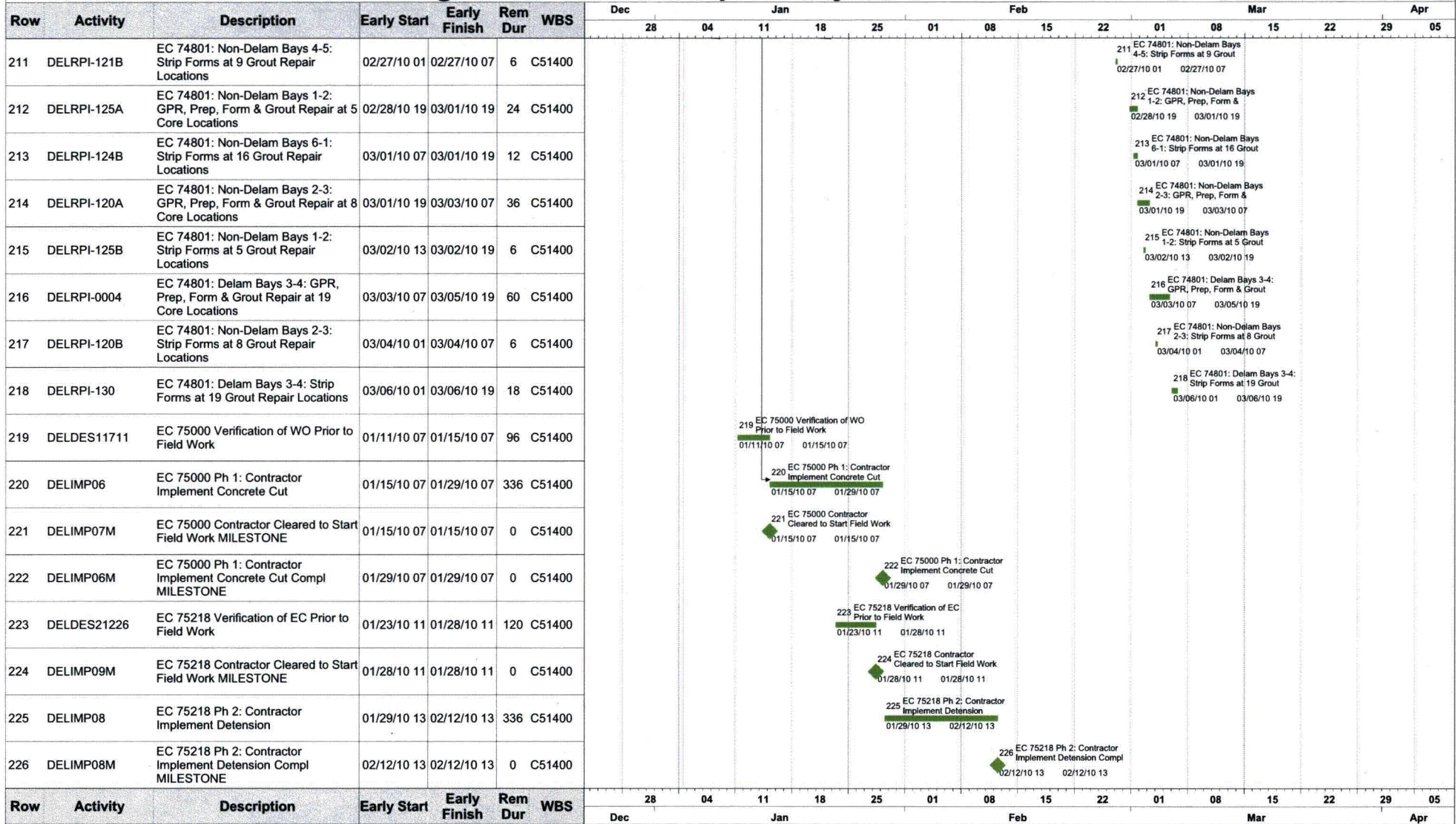
In-Progress

Activity



January 04, 2010 05:16:37 PM

## CR3 Outage Containment Repair Project - Level 3 Schedule



Legend:

Milestones

In-Progress

Activity



January 04, 2010 05:16:37 PM

# CR3 Outage Containment Repair Project - Level 3 Schedule

Row	Activity	Description	Early Start	Early Finish	Rem Dur	WBS	Schedule (Dec 28 - Apr 05)																											
							Gantt Chart Area																											
227	DELDES31226	EC 75219 Verification of EC Prior to Field Work	02/03/10 07	02/08/10 07	120	C51400	227 EC 75219 Verification of EC Prior to Field Work 02/03/10 07 02/08/10 07																											
228	DELIMP11M	EC 75219 Contractor Cleared to Start Field Work MILESTONE	02/08/10 07	02/08/10 07	0	C51400	228 EC 75219 Contractor Cleared to Start Field Work 02/08/10 07 02/08/10 07																											
229	DELIMP10	EC 75219 Ph 3: Contractor Implement Removal	02/12/10 13	02/19/10 13	168	C51400	229 EC 75219 Ph 3: Contractor Implement Removal 02/12/10 13 02/19/10 13																											
230	DELIMP10M	EC 75219 Ph 3: Contractor Implement Removal Compl MILESTONE	02/19/10 13	02/19/10 13	0	C51400	230 EC 75219 Ph 3: Contractor Implement Removal Compl 02/19/10 13 02/19/10 13																											
231	DELDES41226	EC 75220 Verification of EC Prior to Field Work	02/14/10 07	02/19/10 07	120	C51400	231 EC 75220 Verification of EC Prior to Field Work 02/14/10 07 02/19/10 07																											
232	DELIMP17M	EC 75220 Contractor Cleared to Start Field Work MILESTONE	02/19/10 07	02/19/10 07	0	C51400	232 EC 75220 Contractor Cleared to Start Field Work 02/19/10 07 02/19/10 07																											
233	DELIMP12	EC 75220 Ph 4: Contractor Implement Forming	02/19/10 13	02/27/10 13	192	C51400	233 EC 75220 Ph 4: Contractor Implement Forming 02/19/10 13 02/27/10 13																											
234	DELIMP12M	EC 75220 Ph 4: Contractor Implement Forming Compl MILESTONE	02/27/10 13	02/27/10 13	0	C51400	234 EC 75220 Ph 4: Contractor Implement Forming Compl M 02/27/10 13 02/27/10 13																											
235	DELIMP14	EC 75220 Ph 4: Contractor Implement Placement	02/27/10 13	03/09/10 13	240	C51400	235 EC 75220 Ph 4: Contractor Implement Placement 02/27/10 13 03/09/10 13																											
236	DELIMP16	EC 75220 Ph 4: Contractor Implement Cure	03/09/10 13	03/12/10 13	72	C51400	236 EC 75220 Ph 4: Contractor Implement Cure 03/09/10 13 03/12/10 13																											
237	DELIMP14M	EC 75220 Ph 4: Contractor Implement Placement Compl MILESTONE	03/09/10 13	03/09/10 13	0	C51400	237 EC 75220 Ph 4: Contractor Implement Placement Compl 03/09/10 13 03/09/10 13																											
238	DELIMP16M	EC 75220 Ph 4: Contractor Implement Cure Compl MILESTONE	03/12/10 13	03/12/10 13	0	C51400	238 EC 75220 Ph 4: Contractor Implement Cure Compl MILE 03/12/10 13 03/12/10 13																											
239	DELDES51226	EC 75221 Verification of EC Prior to Field Work	02/02/10 04	02/07/10 04	120	C45100	239 EC 75221 Verification of EC Prior to Field Work 02/02/10 04 02/07/10 04																											
240	DELCL0L2M	EC 75221 Contractor Cleared to Start Field Work MILESTONE	02/07/10 04	02/07/10 04	0	C45100	240 EC 75221 Contractor Cleared to Start Field Work 02/07/10 04 02/07/10 04																											
241	DELIMP18	EC 75221 Ph 5: Contractor Implement Tension	03/12/10 21	03/21/10 21	216	C51400	241 EC 75221 Ph 5: Contractor Implement Tension 03/12/10 21 03/21/10 21																											
242	DELIMP20	Demob Containment Repair Project	03/21/10 21	03/28/10 21	168	C75100	242 Demob Containment Repair Project 03/21/10 21 03/28/10 21																											

Legend:  Milestones  In-Progress  Activity

January 04, 2010 05:16:37 PM

## CR3 Outage Containment Repair Project - Level 3 Schedule

Row	Activity	Description	Early Start	Early Finish	Rem Dur	WBS	Schedule Gantt Chart																											
							Dec				Jan				Feb				Mar				Apr											
							28	04	11	18	25	01	08	15	22	01	08	15	22	29	05													
243	DELIMP18M	EC 75221 Ph 5: Contractor Implement Tension Compl MILESTONE	03/21/10 21	03/21/10 21	0	C51400																												
244	DELIMPL1M	Contractor Implement Construction Complete MILESTONE	03/21/10 21	03/21/10 21	0	C51400																												
245	DEL006	Containment Repair Project Contracts Closure	03/21/10 21	03/28/10 09	156	C82100																												
246	DEL003	EC Closure	03/23/10 21	03/27/10 05	80	C81100																												
247	DEL001M	Project Closeout Complete MILESTONE	03/28/10 21	03/28/10 21	0	C81000																												
<b>Containment Repair Testing</b>																																		
249	DELTST06	Perform Concrete Scan / Boring	03/21/10 21	03/23/10 21	48	C68100																												
250	DELTST03	Interface Perform ILRT Test	03/21/10 21	03/23/10 21	48	C68100																												
251	DELTSTL1M	Interface Testing/ILRT Complete MILESTONE	03/23/10 21	03/23/10 21	0	C68100																												
252	DEL0012M	Interface Plant Start-up Complete MILESTONE	03/30/10 21	03/30/10 21	0	C68100																												
<b>Containment Repair Plant Startup &amp; Testing</b>																																		
254	DELIMP2-0000	Interface Startup to Mode 4	03/23/10 21	03/25/10 21	48	C68100																												
255	DEL000-0000	Interface Startup to Mode 1/On-line	03/25/10 21	03/30/10 21	120	C68100																												

Row	Activity	Description	Early Start	Early Finish	Rem Dur	WBS	Legend																											
							28	04	11	18	25	01	08	15	22	01	08	15	22	29	05													
							Dec	Jan				Feb				Mar				Apr														
							Legend: Milestones In-Progress Activity																											

January 04, 2010 05:16:37 PM