American Bridge / FLUOR
A JOINT VENTURE

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03-Oct-2008

ABF-CAL-LTR-000700

Mr. Gary Pursell
Resident Engineer
California Department of Transportation
333 Burma Road,
Oakland, CA 94607, USA

PROJECT: **San Francisco Oakland Bay SAS Bridge Superstructure**
Caltrans Contract No. 04-0120F4
ABF Job No: 660110

SUBJECT: **Protest of WSWD Report No. 112 - Notice of Potential Claim # 8**

REFERENCE: **Department Letter No. 05.03.01-002698 Dated September 18, 2008**

Gentlemen:

American Bridge/Fluor Enterprises, Inc., A Joint Venture (ABFJV) hereby submits, pursuant to Section 9-1.04, Notice of Potential Claim, of the Standard Specifications as modified by the Special Provisions and Section 5-1.12, Dispute Review Board, of the Special Provisions, ABFJV's written reply to Department Letter No. 05.03.01-002698 dated September 18, 2008 provided by the Department in response to ABFJV letter ABF-CAL-LTR-000648, Supplemental Notice of Potential Claim No. 8 dated August 29, 2008.

The Department, in its latest response, determined that ABFJV's claim has no basis under the Contract.

ABFJV disagrees.

The Issue

Is American Bridge/Fluor Enterprises, Inc., Joint Venture entitled to a non-compensable time adjustment due to delayed Work activities that arose from an unforeseeable event that completely halted the work of Shanghai Zhenhua Port Machinery Company Ltd, (ZPMC), ABFJV's steel fabricator?

The Event

On July 02, 2008 the anchor of an unknown vessel, navigating the Yangtze River struck and severed a submerged power cable that carries primary electrical service to Changxing Island, China. As a result thereof, a power outage occurred throughout Changxing Island from July 02, 2008 through July 04, 2008. This power outage resulted in a three (3) day delay, during which time ZPMC was shut down and unable to progress the Work.

This event was beyond the control and without the fault or negligence of ABFJV or ZPMC, or any ABFJV or ZPMC subcontractors or suppliers, at any tier.

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Contract Provisions and California Civil Code Sections

The following provisions of the Contract and the California Civil Code support ABFJV's claim and provide the basis for ABFJV's entitlement to a time extension as claimed in Notice of Potential Claim No. 8.

- 10-1.13 Progress Schedule, Critical Path Method, Time Impact Analysis, Special Provisions
- 8-1.07 Liquidated Damages, Standard Specifications
- 8-1.05 Temporary Suspension Of Work, Standard Specifications
- California Civil Code Section 1654 - "in cases of uncertainty ...the language of a contract should be interpreted most strongly against the party who caused the uncertainty to exist."
- California Civil Code Section 1641 - "The whole of a contract is to be taken together... each clause helping to interpret the other"

Contract, Section 10-1.13 Progress Schedule (Critical Path Method), Time Impact Analysis

Section 10-1.13 Progress Schedule (Critical Path Method), Time Impact Analysis of the Contract Special Provisions provides that ABFJV may request a time adjustment due to delayed activities.

In the event a time adjustment for delayed activities is sought by ABFJV, Section 10-1.13 requires ABFJV to submit to the Department a written Time Impact Analysis that illustrates the impact of the delay to the current Contract Completion Date utilizing the current accepted schedule.

In order to qualify for the "Section 10-1.13 Time Adjustment" the following criteria must be met:

A. The delay is beyond the control and without the fault or negligence of the Contractor and its subcontractors or suppliers, at any tier; and

B. The delay extends the actual performance of the work beyond the currently approved contract completion date.

C. The delay impacts a fabrication or construction activity – delays to the Contractor's submittal or shop drawing process must impact a successor fabrication or construction activity. The Time Impact Analysis shall be based on the impact to fabrication or construction activities.

ABFJV meets all "Section 10-1.13 Time Adjustment" requirements for a time adjustment due to delayed activities.

Time Impact Analysis

During the time period, July 02, 2008 through July 04, 2008, the work performed by ZPMC was along the Contract Schedule Critical Path of activities. For this reason the power outage will delay and extend the actual performance of ABFJV's Work activities beyond the currently approved Contract Completion Date.

A copy of the Time Impact Analysis is attached.

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Contract, Section 8-1.07 Liquidated Damages

Contract Section 8-1.07 Liquidated Damages of the Standard Specifications provides examples of various situations when ABFJV will be granted an extension of time. These include the following: acts of God or of the public enemy, fire, floods, tsunamis, earthquakes, epidemics, quarantine restrictions, strikes, labor disputes, shortage of materials and freight embargoes.

The definition of the term "acts of God" is ambiguous. "Ambiguity" is defined as doubtfulness, doubleness of meaning, indistinctness, uncertainty of meaning of an expression used in a written instrument, want of clearness or definiteness; or difficult to comprehend or distinguish. As a result of this ambiguity, reasonable parties can not determine those situations that qualify for Section 8-1.07 consideration.

U.S. Courts have determined; where a Government contract contains a latent ambiguity, the Court will construe the ambiguous term against the Government as drafter of the contract, provided that the contractor's interpretation was reasonable. The Courts' determinations are consistent with California Civil Code Section 1654 which provides, "in cases of uncertainty ...the language of a contract should be interpreted most strongly against the party who caused the uncertainty to exist."

Additionally, the events listed in Contract Section 8-1.07 are not meant to be all inclusive. Other events that require the granting of a Contract time extension by the Department are identified throughout the Contract Special Provisions. The bulleted items below are examples.

- Delays due to Asbestos or Hazardous Substances
- Delays due to the Department delays in Working Drawing reviews
- Delays due to Coast Guard interference
- Delays due to floodway restrictions
- Delays due to migratory birds
- Delays due to American Peregrine Falcon, Double-Crested Cormorant, Western Gulls, California Least Tern, and California Brown Pelican nesting
- Delays due to harbor seals within the safety zone
- Delays due to California Sea Lions within the safety zone
- Delays due to delays due to spawning herring
- Delays due to delays due to Department ordered suspensions in accordance with Section 8-1.05 Temporary Suspension of Work

There is no distinction between a power outage and a shortage of materials, or a freight embargo or a labor dispute or the discovery of asbestos and as such, there is no legitimate reason why a power outage, sustained as described herein, should be treated differently, than one of the events listed above, for Contract purposes.

Force Majeure

The Department, in defense of its position not to grant a time extension, advises that events resulting from "human actions" are not "acts of God" and for this reason, a time extension is not allowable.

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The term "acts of God" is not defined in the Contract, however, in the construction industry the terms "acts of God" and "force majeure" are sometimes used interchangeably. If there is a difference between the two terms, the subtle difference is that "acts of God" exclude the concept of human agency, whereas "force majeure" does not.

The Contract, as drafted, does not make this distinction. Section 8-1.07 identifies floods, tsunamis, and earthquakes as separate and distinct from "acts of God", although there is clearly no human agency involved in the creation of these events. Section 8-1.07 also conspicuously commingles events derived from human agency; strikes, labor disputes, shortage of materials, and freight embargoes with floods, tsunamis and earthquakes, events not derived from human agency, as events that merit the allowance of time extensions.

Under international law force majeure refers to an irresistible force or unforeseen event beyond the control of a State making it materially impossible to fulfill an obligation. The understanding of force majeure in French law is similar to that of international law. For a claimant to invoke force majeure in French or international law, the event proposed as force majeure must pass three tests:

A. Externality: The claimant must have nothing to do with the event's happening

B. Unpredictability: The event is unforeseeable.

C. Irresistibility: The consequences of the event must have been unpreventable.

Note how closely the three international law "force majeure" requirements resemble the requirements for a time extension identified in Special Provisions Section 10-1.13 Progress Schedule, Critical Path Method.

Contract Section 8-1.07, Liquidated Damages, of the Standard Specifications is in-fact a force majeure clause. Therefore, because ABFJV passes the three tests identified above, ABFJV is entitled to a non-compensable, Contract time extension.

8-1.05 Temporary Suspension of Work, Standard Specifications

The Department has the authority to suspend the work as it deems necessary, due to unsuitable weather or other conditions considered unfavorable for the suitable prosecution of the work.

If the Department suspends a portion of the work which is the current controlling operation, due to unsuitable weather or other conditions considered unfavorable to the suitable prosecution of the work, the days on which the suspension is in effect shall not be considered working days as defined in Section 8-1.06, "Time of Completion."

Conclusion

California Civil Code Section 1641 requires that "the whole of a contract is to be taken together, so as to give effect to every part, if reasonably practicable, each clause helping to interpret the other". When the whole of the Contract is taken together, it is apparent that ABFJV, when delayed without its fault or negligence, by events beyond its control and the delay extends the actual performance of the Work beyond the currently approved Contract Completion Date, it is the intent of the Contract that the Department grant ABFJV an equitable time extension.

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The requirements for an equitable time adjustment pursuant to Section 10-1.13 Progress Schedule (Critical Path Method), Time Impact Analysis of the Special Provisions of the Contract are clear and unambiguous. ABFJV, having met all of the requirements of Section 10-1.13 is entitled to a non-compensable, Contract time extension.

Unless ABFJV is contacted by the Department on or before October 8, 2008 it is our intent to submit this matter to the Dispute Review Board. Should you have any questions, or wish to discuss this matter further, please contact our office.

Sincerely,

AMERICAN BRIDGE/FLUOR ENTERPRISES, INC. A JOINT VENTURE

Michael Flowers
Project Director

Encl: Time Impact Analysis

File: 01.07.8
02.01

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1 Introduction

1.1 Project Schedule Data Date

The Project Update Schedule that this Time Impact Analysis is based on is Revision No. 4 which has a Data Date that is set at 01/20/08.

1.2 Background Information

A power outage at ZPMC's main fabrication facility located on Changxing Island from 02 July 2008 up to and including 04 July 2008 caused the Contractor to be unable to perform any work on activities forming the Project Controlling Operation.

1.3 Activities Potentially Impacted

All activities that were planned to take place at ZPMC's main fabrication facility during the days of the power outage were impacted, along with their relevant successor activities.

2 Methodology

2.1 Changes to Project Schedule

In order to accurately reflect the negative effect of the power outage, the following steps were taken:

- A new Calendar was created in Primavera (P6) by copying the Calendar "6D-CH" and changing 02 July 2008 to 04 July 2008 inclusive to non-work days. For ease of identification, the new Calendar was titled "TIA4"

- The newly created "TIA4" Calendar was allocated to each activity that was planned to be worked on in the relevant time period (see attachment "TIA 4 - T1FAB Affected Activities as planned in January 08 Revision.pdf").

- The Schedules were recalculated and the resources leveling calculations were carried out in Primavera (P6) using the same settings as per Revision No. 4.

3 Results

3.1 Impact to Project Critical Path

After performing the recalculation of the Schedule, it was noted that the Project Critical Path and Total Float values had been impacted, as had the overall final Phase 1, 2 and 3 target handover dates. The following table indicates the target Phase 1, 2 and 3 dates prior to the Time Impact Analysis (Date Rev4), and the dates after the impact of the Time Impact Analysis are taken into consideration:

	Date U21	TF Rev4	Date TIA 4	TF TIA 4	Impact
Phase 1	04/13/12	+2d	04/19/12	-4d	-6d
Phase 2	12/20/12	-69d	12/27/12	-76d	-7d
Phase 3	05/01/13	-21d	05/07/13	-27d	-6d

The following listings of all of the activities in the logic path both before and after the Impact are being submitted as part of this submittal:

- "TIA 4 - T1FAB Affected Activities as planned in January 08 Revision.pdf"
- "TIA 4 - T1FAB Affected Activities as planned in January 08 Revision IMPACTED.pdf"
- "TIA 4 - Full Critical Path Activities in January 08 Revision.pdf"
- "TIA 4 - Full Critical Path Activities in January 08 Revision IMPACTED.pdf"

Based on this analysis of this excusable delay, ABFJV is entitled to an equitable non-compensable time extension, per the above noted impacts, of 6 days, 7 days and 6 days for Phase 1, Phase 2, and Phase 3 respectively.

4 Potential Mitigation Measures

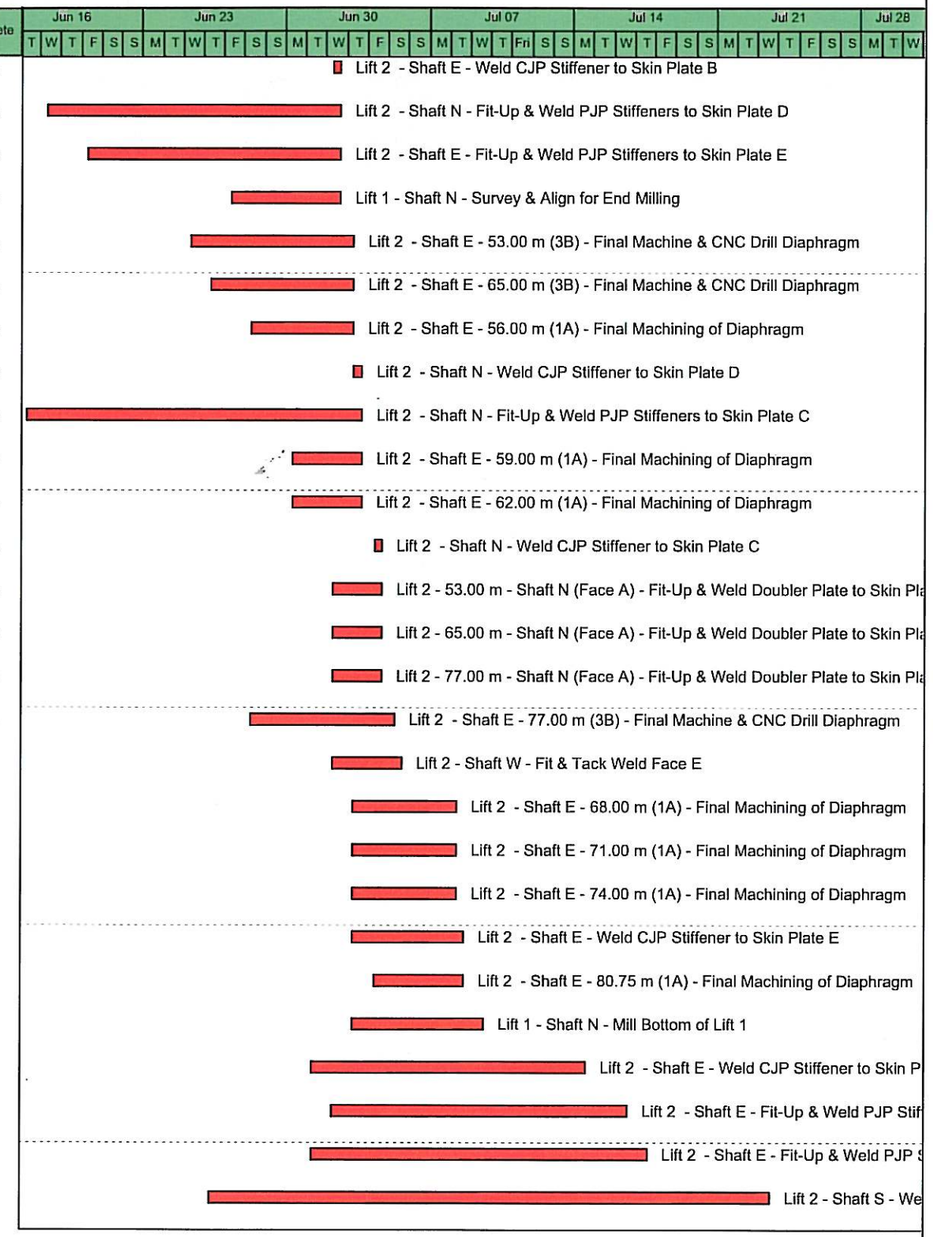
4.1 Suggested Mitigation Measures

The following are suggested potential mitigation measures that could be carried out in order to counter the negative effects and schedule impacts caused by the three (3) day power outage at the Shanghai Zhenhua Port Machinery Company Ltd, steel fabrication facility on Changxing Island, China:

- Implement second shifts to the affected erection / construction activities.
- Implement additional resources to accelerate the affected erection / construction activities of the T1 Tower.

TIME IMPACT ANALYSIS 4 - AFFECTED T1 FABRICATION ACTIVITIES IN JANUARY 08 REVISION

Activity ID	Activity Description	Start	Finish	OD	AD	RD	Cal	TF	% Complete
T1FABCB0194	Lift 2 - Shaft E - Weld CJP Stiffener to Skin Plate B	02-Jul-08	02-Jul-08	1	0	1	6D-CH	-32	0%
T1FABCB0128	Lift 2 - Shaft N - Fit-Up & Weld PJP Stiffeners to Skin Plate D	18-Jun-08	02-Jul-08	13	0	13	6D-CH	-45	0%
T1FABCB0160	Lift 2 - Shaft E - Fit-Up & Weld PJP Stiffeners to Skin Plate E	20-Jun-08	02-Jul-08	11	0	11	6D-CH	-44	0%
T1FABCB4288	Lift 1 - Shaft N - Survey & Align for End Milling	27-Jun-08	02-Jul-08	5	0	5	6D-CH	-57	0%
T1FABCB0994	Lift 2 - Shaft E - 53.00 m (3B) - Final Machine & CNC Drill Diaphragm	25-Jun-08	03-Jul-08	7	0	7	6D-CH	-52	0%
T1FABCB0996	Lift 2 - Shaft E - 65.00 m (3B) - Final Machine & CNC Drill Diaphragm	26-Jun-08	03-Jul-08	6	0	6	6D-CH	-52	0%
T1FABCB6004	Lift 2 - Shaft E - 56.00 m (1A) - Final Machining of Diaphragm	28-Jun-08	03-Jul-08	4	0	4	6D-CH	-48	0%
T1FABCB0168	Lift 2 - Shaft N - Weld CJP Stiffener to Skin Plate D	03-Jul-08	03-Jul-08	1	0	1	6D-CH	-45	0%
T1FABCB0126	Lift 2 - Shaft N - Fit-Up & Weld PJP Stiffeners to Skin Plate C	17-Jun-08	03-Jul-08	15	0	15	6D-CH	-46	0%
T1FABCB6006	Lift 2 - Shaft E - 59.00 m (1A) - Final Machining of Diaphragm	30-Jun-08	03-Jul-08	4	0	4	6D-CH	-49	0%
T1FABCB6008	Lift 2 - Shaft E - 62.00 m (1A) - Final Machining of Diaphragm	30-Jun-08	03-Jul-08	4	0	4	6D-CH	-49	0%
T1FABCB0166	Lift 2 - Shaft N - Weld CJP Stiffener to Skin Plate C	04-Jul-08	04-Jul-08	1	0	1	6D-CH	-46	0%
T1FABCB0226	Lift 2 - 53.00 m - Shaft N (Face A) - Fit-Up & Weld Doubler Plate to Skin Plate	02-Jul-08	04-Jul-08	3	0	3	6D-CH	-58	0%
T1FABCB0234	Lift 2 - 65.00 m - Shaft N (Face A) - Fit-Up & Weld Doubler Plate to Skin Plate	02-Jul-08	04-Jul-08	3	0	3	6D-CH	-58	0%
T1FABCB0242	Lift 2 - 77.00 m - Shaft N (Face A) - Fit-Up & Weld Doubler Plate to Skin Plate	02-Jul-08	04-Jul-08	3	0	3	6D-CH	-58	0%
T1FABCB0998	Lift 2 - Shaft E - 77.00 m (3B) - Final Machine & CNC Drill Diaphragm	28-Jun-08	05-Jul-08	6	0	6	6D-CH	-50	0%
T1FABCB1584	Lift 2 - Shaft W - Fit & Tack Weld Face E	02-Jul-08	05-Jul-08	4	0	4	6D-CH	-59	0%
T1FABCB6010	Lift 2 - Shaft E - 68.00 m (1A) - Final Machining of Diaphragm	03-Jul-08	08-Jul-08	4	0	4	6D-CH	-48	0%
T1FABCB6012	Lift 2 - Shaft E - 71.00 m (1A) - Final Machining of Diaphragm	03-Jul-08	08-Jul-08	4	0	4	6D-CH	-48	0%
T1FABCB6014	Lift 2 - Shaft E - 74.00 m (1A) - Final Machining of Diaphragm	03-Jul-08	08-Jul-08	4	0	4	6D-CH	-48	0%
T1FABCB0200	Lift 2 - Shaft E - Weld CJP Stiffener to Skin Plate E	03-Jul-08	08-Jul-08	5	0	5	6D-CH	-44	0%
T1FABCB6016	Lift 2 - Shaft E - 80.75 m (1A) - Final Machining of Diaphragm	04-Jul-08	08-Jul-08	4	0	4	6D-CH	-49	0%
T1FABCB4296	Lift 1 - Shaft N - Mill Bottom of Lift 1	03-Jul-08	09-Jul-08	6	0	6	6D-CH	-57	0%
T1FABCB0192	Lift 2 - Shaft E - Weld CJP Stiffener to Skin Plate A	01-Jul-08	14-Jul-08	12	0	12	6D-CH	-57	0%
T1FABCB0158	Lift 2 - Shaft E - Fit-Up & Weld PJP Stiffeners to Skin Plate D	02-Jul-08	16-Jul-08	13	0	13	6D-CH	-45	0%
T1FABCB0156	Lift 2 - Shaft E - Fit-Up & Weld PJP Stiffeners to Skin Plate C	01-Jul-08	17-Jul-08	15	0	15	6D-CH	-46	0%
T1FABCB1602	Lift 2 - Shaft S - Weld Shaft Assembly	26-Jun-08	23-Jul-08	24	0	24	6D-CH	-56	0%



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Sheet 1 of 1

American Bridge / Fluor, A Joint Venture

SFOBB Self Anchored Suspension Bridge

20-January-2008 Revision Schedule

Run Date: 03-Oct-08 14:12

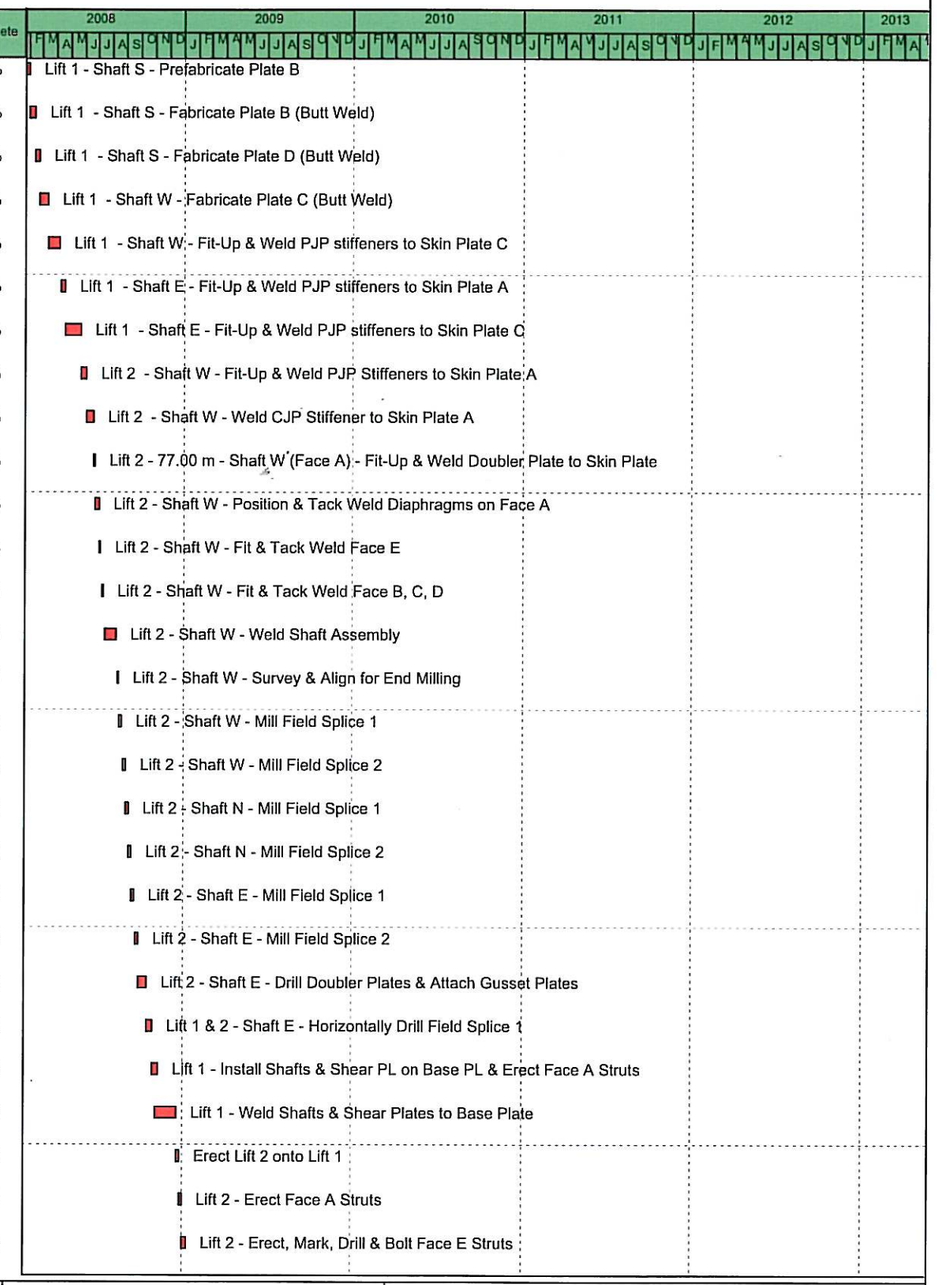
Data Date: 20-Jan-08

SUBMITTAL No.: ABF-SUB-000680-R2

- Remaining Level of Effort
- Actual Work
- Remaining Work
- Critical Remaining Work
- Milestone

TIME IMPACT ANALYSIS 4 - FULL PROJECT CRITICAL PATH ACTIVTIES IN JANUARY 08 REVISION

Activity ID	Activity Description	Start	Finish	OD	AD	RD	Cal	TF	% Complete
T1FABCB1800	Lift 1 - Shaft S - Prefabricate Plate B	22-Jan-08	01-Feb-08	10	0	10	6D-CH	-30	0%
T1FABCB1840	Lift 1 - Shaft S - Fabricate Plate B (Butt Weld)	02-Feb-08	14-Feb-08	7	0	7	6D-CH	-30	0%
T1FABCB1844	Lift 1 - Shaft S - Fabricate Plate D (Butt Weld)	15-Feb-08	22-Feb-08	7	0	7	6D-CH	-41	0%
T1FABCB1832	Lift 1 - Shaft W - Fabricate Plate C (Butt Weld)	23-Feb-08	11-Mar-08	15	0	15	6D-CH	-54	0%
T1FABCB1874	Lift 1 - Shaft W - Fit-Up & Weld PJP stiffeners to Skin Plate C	12-Mar-08	07-Apr-08	23	0	23	6D-CH	-54	0%
T1FABCB1890	Lift 1 - Shaft E - Fit-Up & Weld PJP stiffeners to Skin Plate A	08-Apr-08	18-Apr-08	10	0	10	6D-CH	-59	0%
T1FABCB1894	Lift 1 - Shaft E - Fit-Up & Weld PJP stiffeners to Skin Plate C	19-Apr-08	22-May-08	23	0	23	6D-CH	-55	0%
T1FABCB0132	Lift 2 - Shaft W - Fit-Up & Weld PJP Stiffeners to Skin Plate A	23-May-08	04-Jun-08	11	0	11	6D-CH	-59	0%
T1FABCB0172	Lift 2 - Shaft W - Weld CJP Stiffener to Skin Plate A	05-Jun-08	18-Jun-08	12	0	12	6D-CH	-59	0%
T1FABCB0244	Lift 2 - 77.00 m - Shaft W (Face A) - Fit-Up & Weld Doubler Plate to Skin Plate	19-Jun-08	21-Jun-08	3	0	3	6D-CH	-59	0%
T1FABCB1576	Lift 2 - Shaft W - Position & Tack Weld Diaphragms on Face A	23-Jun-08	01-Jul-08	8	0	8	6D-CH	-59	0%
T1FABCB1584	Lift 2 - Shaft W - Fit & Tack Weld Face E	02-Jul-08	05-Jul-08	4	0	4	6D-CH	-59	0%
T1FABCB1592	Lift 2 - Shaft W - Fit & Tack Weld Face B, C, D	07-Jul-08	12-Jul-08	6	0	6	6D-CH	-59	0%
T1FABCB1600	Lift 2 - Shaft W - Weld Shaft Assembly	14-Jul-08	09-Aug-08	24	0	24	6D-CH	-59	0%
T1FABCB4462	Lift 2 - Shaft W - Survey & Align for End Milling	11-Aug-08	15-Aug-08	5	0	5	6D-CH	-59	0%
T1FABCB4470	Lift 2 - Shaft W - Mill Field Splice 1	16-Aug-08	22-Aug-08	6	0	6	6D-CH	-59	0%
T1FABCB4478	Lift 2 - Shaft W - Mill Field Splice 2	23-Aug-08	29-Aug-08	6	0	6	6D-CH	-59	0%
T1FABCB4468	Lift 2 - Shaft N - Mill Field Splice 1	30-Aug-08	05-Sep-08	6	0	6	6D-CH	-59	0%
T1FABCB4476	Lift 2 - Shaft N - Mill Field Splice 2	06-Sep-08	12-Sep-08	6	0	6	6D-CH	-59	0%
T1FABCB4474	Lift 2 - Shaft E - Mill Field Splice 1	13-Sep-08	19-Sep-08	6	0	6	6D-CH	-59	0%
T1FABCB4482	Lift 2 - Shaft E - Mill Field Splice 2	20-Sep-08	26-Sep-08	6	0	6	6D-CH	-59	0%
T1FABCB4489	Lift 2 - Shaft E - Drill Doubler Plates & Attach Gusset Plates	27-Sep-08	15-Oct-08	10	0	10	6D-CH	-59	0%
T1FABCB4388	Lift 1 & 2 - Shaft E - Horizontally Drill Field Splice 1	16-Oct-08	27-Oct-08	10	0	10	6D-CH	-59	0%
T1FABCB4362	Lift 1 - Install Shafts & Shear PL on Base PL & Erect Face A Struts	28-Oct-08	10-Nov-08	12	0	12	6D-CH	-59	0%
T1FABCB4364	Lift 1 - Weld Shafts & Shear Plates to Base Plate	04-Nov-08	19-Dec-08	40	0	40	6D-CH	-59	0%
T1FABCB4396	Erect Lift 2 onto Lift 1	20-Dec-08	26-Dec-08	6	0	6	6D-CH	-59	0%
T1FABCB4398	Lift 2 - Erect Face A Struts	27-Dec-08	31-Dec-08	4	0	4	6D-CH	-59	0%
T1FABCB4400	Lift 2 - Erect, Mark, Drill & Bolt Face E Struts	01-Jan-09	09-Jan-09	8	0	8	6D-CH	-59	0%



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SFOBB Self Anchored Suspension Bridge

20-January-2008 Revision Schedule

Run Date: 03-Oct-08 15:11

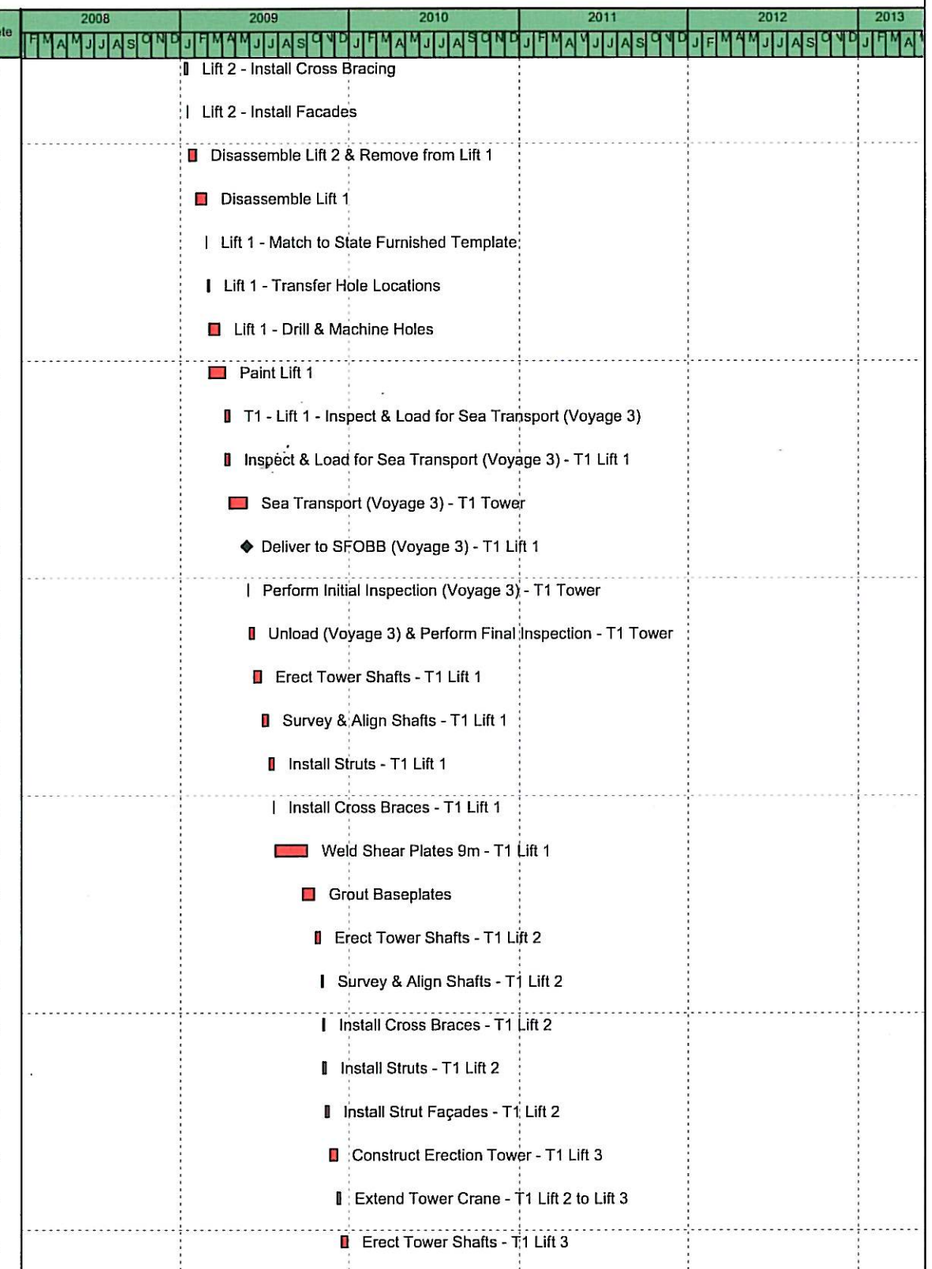
Data Date: 20-Jan-08

SUBMITTAL No.: ABF-SUB-000680-R2

Remaining Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

TIME IMPACT ANALYSIS 4 - FULL PROJECT CRITICAL PATH ACTIVTIES IN JANUARY 08 REVISION

Activity ID	Activity Description	Start	Finish	OD	AD	RD	Cal	TF	% Complete
T1FABCB4402	Lift 2 - Install Cross Bracing	10-Jan-09	16-Jan-09	6	0	6	6D-CH	-59	0%
T1FABCB4404	Lift 2 - Install Facades	17-Jan-09	17-Jan-09	1	0	1	6D-CH	-59	0%
T1FABCB4406	Disassemble Lift 2 & Remove from Lift 1	19-Jan-09	05-Feb-09	10	0	10	6D-CH	-59	0%
T1FABCB4408	Disassemble Lift 1	06-Feb-09	25-Feb-09	17	0	17	6D-CH	-59	0%
T1FABCB4410	Lift 1 - Match to State Furnished Template	26-Feb-09	27-Feb-09	2	0	2	6D-CH	-59	0%
T1FABCB4412	Lift 1 - Transfer Hole Locations	28-Feb-09	04-Mar-09	4	0	4	6D-CH	-59	0%
T1FABCB4484	Lift 1 - Drill & Machine Holes	05-Mar-09	27-Mar-09	20	0	20	6D-CH	-59	0%
T1FABCB4486	Paint Lift 1	05-Mar-09	08-Apr-09	30	0	30	6D-CH	-59	0%
T1FAB001170	T1 - Lift 1 - Inspect & Load for Sea Transport (Voyage 3)	09-Apr-09	17-Apr-09	8	0	8	6D-CH	-59	0%
T1FAB001170	Inspect & Load for Sea Transport (Voyage 3) - T1 Lift 1	09-Apr-09	17-Apr-09	8	0	8	6D-CH	-59	0%
T1FAB000240	Sea Transport (Voyage 3) - T1 Tower	18-Apr-09	25-May-09	38	0	38	7D	-68	0%
T1FAB000020	Deliver to SFOBB (Voyage 3) - T1 Lift 1		25-May-09	0	0	0	7D	-68	0%
T1FAB000250	Perform Initial Inspection (Voyage 3) - T1 Tower	26-May-09	28-May-09	3	0	3	5D-SH	-47	0%
T1FAB000260	Unload (Voyage 3) & Perform Final Inspection - T1 Tower	29-May-09	09-Jun-09	8	0	8	5D-SH	-47	0%
T1CON000180	Erect Tower Shafts - T1 Lift 1	10-Jun-09	23-Jun-09	10	0	10	5D-SH	-47	0%
T1CON000190	Survey & Align Shafts - T1 Lift 1	26-Jun-09	10-Jul-09	10	0	10	5D-SH	-47	0%
T1CON000210	Install Struts - T1 Lift 1	13-Jul-09	21-Jul-09	7	0	7	5D-SH	-47	0%
T1CON000220	Install Cross Braces - T1 Lift 1	22-Jul-09	23-Jul-09	2	0	2	5D-SH	-47	0%
T1CON000260	Weld Shear Plates 9m - T1 Lift 1	24-Jul-09	02-Oct-09	50	0	50	5D-SH	-47	0%
T1CON000280	Grout Baseplates	21-Sep-09	16-Oct-09	20	0	20	5D-SH	-47	0%
T1CON000360	Erect Tower Shafts - T1 Lift 2	19-Oct-09	30-Oct-09	10	0	10	5D-SH	-47	0%
T1CON000370	Survey & Align Shafts - T1 Lift 2	02-Nov-09	03-Nov-09	2	0	2	5D-SH	-47	0%
T1CON000380	Install Cross Braces - T1 Lift 2	04-Nov-09	09-Nov-09	4	0	4	5D-SH	-47	0%
T1CON000390	Install Struts - T1 Lift 2	06-Nov-09	10-Nov-09	3	0	3	5D-SH	-47	0%
T1CON000400	Install Strut Façades - T1 Lift 2	11-Nov-09	18-Nov-09	6	0	6	5D-SH	-47	0%
T1CON000050	Construct Erection Tower - T1 Lift 3	19-Nov-09	04-Dec-09	10	0	10	5D-SH	-47	0%
T1CON000090	Extend Tower Crane - T1 Lift 2 to Lift 3	07-Dec-09	11-Dec-09	5	0	5	5D-SH	-47	0%
T1CON000480	Erect Tower Shafts - T1 Lift 3	14-Dec-09	28-Dec-09	10	0	10	5D-SH	-47	0%



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SFOBB Self Anchored Suspension Bridge

20-January-2008 Revision Schedule

Run Date: 03-Oct-08 15:11

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SUBMITTAL No.: ABF-SUB-000680-R2

- Remaining Level of Effort
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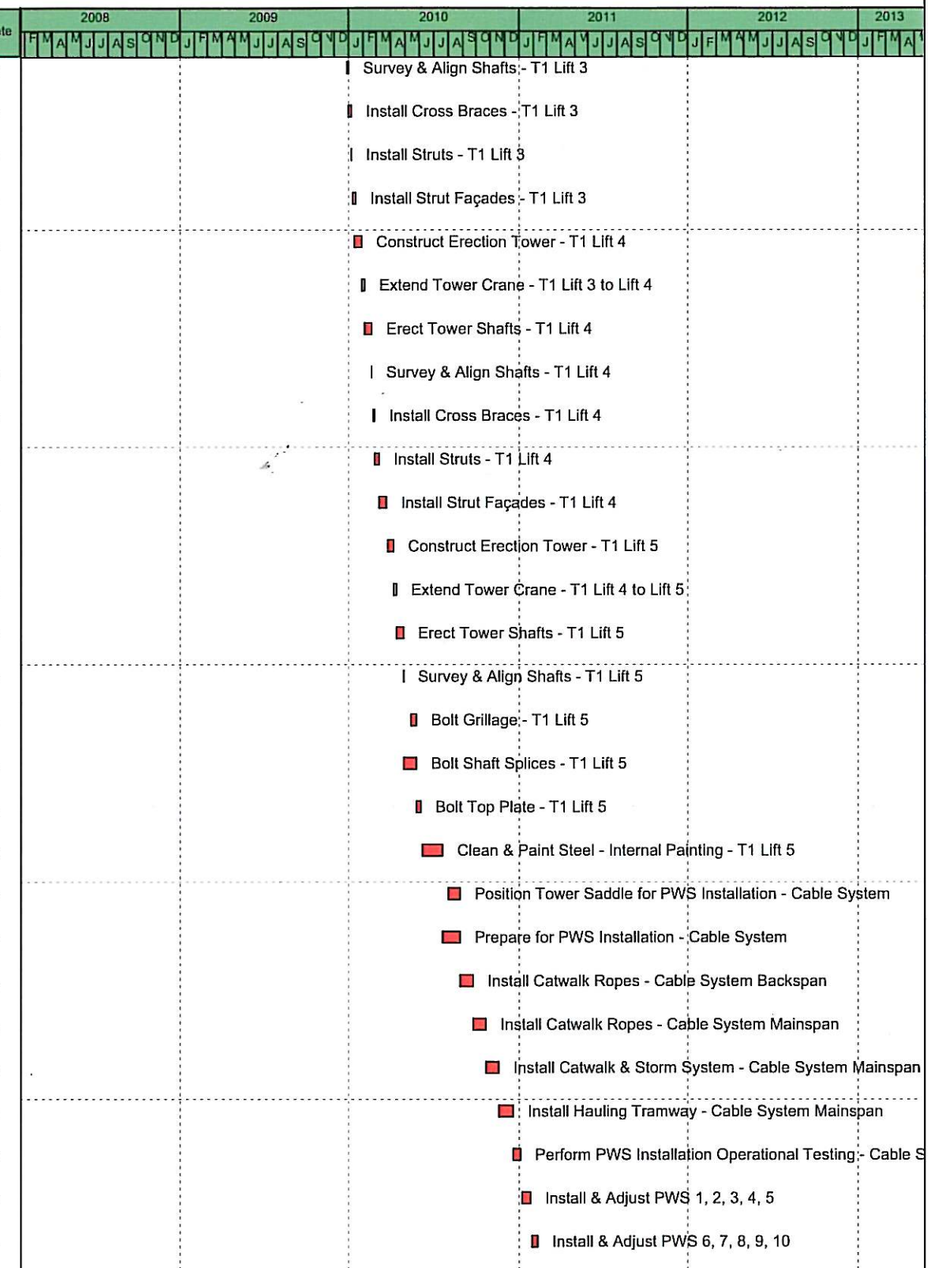
TIME IMPACT ANALYSIS 4 - FULL PROJECT CRITICAL PATH ACTIVTIES IN JANUARY 08 REVISION

Activity ID	Activity Description	Start	Finish	OD	AD	RD	Cal	TF	% Complete
T1CON000490	Survey & Align Shafts - T1 Lift 3	29-Dec-09	30-Dec-09	2	0	2	5D-SH	-47	0%
T1CON000500	Install Cross Braces - T1 Lift 3	31-Dec-09	06-Jan-10	4	0	4	5D-SH	-47	0%
T1CON000510	Install Struts - T1 Lift 3	05-Jan-10	07-Jan-10	3	0	3	5D-SH	-47	0%
T1CON000520	Install Strut Façades - T1 Lift 3	08-Jan-10	15-Jan-10	6	0	6	5D-SH	-47	0%
T1CON000060	Construct Erection Tower - T1 Lift 4	13-Jan-10	26-Jan-10	10	0	10	5D-SH	-47	0%
T1CON000100	Extend Tower Crane - T1 Lift 3 to Lift 4	27-Jan-10	02-Feb-10	5	0	5	5D-SH	-47	0%
T1CON000600	Erect Tower Shafts - T1 Lift 4	03-Feb-10	17-Feb-10	10	0	10	5D-SH	-47	0%
T1CON000610	Survey & Align Shafts - T1 Lift 4	18-Feb-10	19-Feb-10	2	0	2	5D-SH	-47	0%
T1CON000620	Install Cross Braces - T1 Lift 4	22-Feb-10	25-Feb-10	4	0	4	5D-SH	-47	0%
T1CON000630	Install Struts - T1 Lift 4	24-Feb-10	04-Mar-10	7	0	7	5D-SH	-47	0%
T1CON000640	Install Strut Façades - T1 Lift 4	05-Mar-10	22-Mar-10	12	0	12	5D-SH	-47	0%
T1CON000070	Construct Erection Tower - T1 Lift 5	23-Mar-10	05-Apr-10	10	0	10	5D-SH	-47	0%
T1CON000110	Extend Tower Crane - T1 Lift 4 to Lift 5	06-Apr-10	12-Apr-10	5	0	5	5D-SH	-47	0%
T1CON000720	Erect Tower Shafts - T1 Lift 5	13-Apr-10	26-Apr-10	10	0	10	5D-SH	-47	0%
T1CON000730	Survey & Align Shafts - T1 Lift 5	27-Apr-10	28-Apr-10	2	0	2	5D-SH	-47	0%
T1CON000750	Bolt Grillage - T1 Lift 5	13-May-10	24-May-10	8	0	8	5D-SH	-47	0%
T1CON000740	Bolt Shaft Splices - T1 Lift 5	29-Apr-10	26-May-10	20	0	20	5D-SH	-47	0%
T1CON000760	Bolt Top Plate - T1 Lift 5	25-May-10	04-Jun-10	8	0	8	5D-SH	-47	0%
T1CON000770	Clean & Paint Steel - Internal Painting - T1 Lift 5	07-Jun-10	21-Jul-10	32	0	32	5D-SH	-47	0%
CACON000040	Position Tower Saddle for PWS Installation - Cable System	03-Aug-10	25-Aug-10	17	0	17	5D-SH	-47	0%
CACON000070	Prepare for PWS Installation - Cable System	22-Jul-10	25-Aug-10	25	0	25	5D-SH	-47	0%
CACON000050	Install Catwalk Ropes - Cable System Backspan	26-Aug-10	23-Sep-10	20	0	20	5D-SH	-47	0%
CACON000060	Install Catwalk Ropes - Cable System Mainspan	24-Sep-10	21-Oct-10	20	0	20	5D-SH	-47	0%
CACON000090	Install Catwalk & Storm System - Cable System Mainspan	22-Oct-10	18-Nov-10	20	0	20	5D-SH	-47	0%
CACON000110	Install Hauling Tramway - Cable System Mainspan	19-Nov-10	20-Dec-10	20	0	20	5D-SH	-47	0%
CACON000120	Perform PWS Installation Operational Testing - Cable System	21-Dec-10	05-Jan-11	10	0	10	5D-SH	-47	0%
CACON000150	Install & Adjust PWS 1, 2, 3, 4, 5	07-Jan-11	27-Jan-11	15	0	15	5D-SH	-47	0%
CACON000160	Install & Adjust PWS 6, 7, 8, 9, 10	28-Jan-11	10-Feb-11	10	0	10	5D-SH	-47	0%



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SFOBB Self Anchored Suspension Bridge

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TIME IMPACT ANALYSIS 4 - FULL PROJECT CRITICAL PATH ACTIVTIES IN JANUARY 08 REVISION

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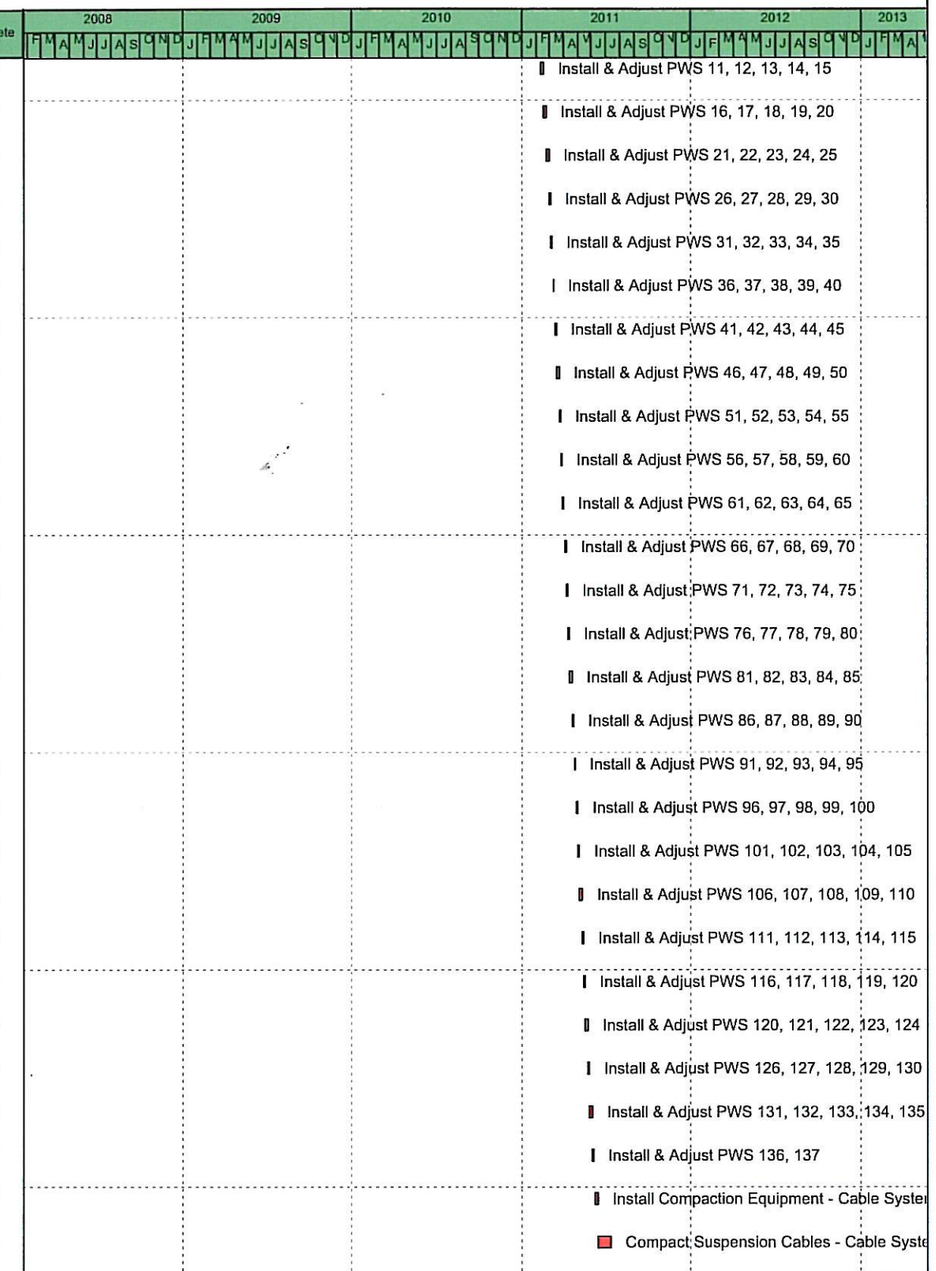
CACON000170	Install & Adjust PWS 11, 12, 13, 14, 15	11-Feb-11	17-Feb-11	5	0	5	5D-SH	-47	0%
CACON000180	Install & Adjust PWS 16, 17, 18, 19, 20	18-Feb-11	23-Feb-11	3	0	3	5D-SH	-47	0%
CACON000190	Install & Adjust PWS 21, 22, 23, 24, 25	24-Feb-11	28-Feb-11	3	0	3	5D-SH	-47	0%
CACON000200	Install & Adjust PWS 26, 27, 28, 29, 30	01-Mar-11	03-Mar-11	3	0	3	5D-SH	-47	0%
CACON000210	Install & Adjust PWS 31, 32, 33, 34, 35	04-Mar-11	08-Mar-11	3	0	3	5D-SH	-47	0%
CACON000220	Install & Adjust PWS 36, 37, 38, 39, 40	09-Mar-11	11-Mar-11	3	0	3	5D-SH	-47	0%
CACON000230	Install & Adjust PWS 41, 42, 43, 44, 45	14-Mar-11	16-Mar-11	3	0	3	5D-SH	-47	0%
CACON000240	Install & Adjust PWS 46, 47, 48, 49, 50	17-Mar-11	21-Mar-11	3	0	3	5D-SH	-47	0%
CACON000250	Install & Adjust PWS 51, 52, 53, 54, 55	22-Mar-11	24-Mar-11	3	0	3	5D-SH	-47	0%
CACON000260	Install & Adjust PWS 56, 57, 58, 59, 60	25-Mar-11	29-Mar-11	3	0	3	5D-SH	-47	0%
CACON000270	Install & Adjust PWS 61, 62, 63, 64, 65	30-Mar-11	01-Apr-11	3	0	3	5D-SH	-47	0%
CACON000280	Install & Adjust PWS 66, 67, 68, 69, 70	04-Apr-11	06-Apr-11	3	0	3	5D-SH	-47	0%
CACON000290	Install & Adjust PWS 71, 72, 73, 74, 75	07-Apr-11	11-Apr-11	3	0	3	5D-SH	-47	0%
CACON000300	Install & Adjust PWS 76, 77, 78, 79, 80	12-Apr-11	14-Apr-11	3	0	3	5D-SH	-47	0%
CACON000310	Install & Adjust PWS 81, 82, 83, 84, 85	15-Apr-11	19-Apr-11	3	0	3	5D-SH	-47	0%
CACON000320	Install & Adjust PWS 86, 87, 88, 89, 90	20-Apr-11	22-Apr-11	3	0	3	5D-SH	-47	0%
CACON000330	Install & Adjust PWS 91, 92, 93, 94, 95	25-Apr-11	27-Apr-11	3	0	3	5D-SH	-47	0%
CACON000340	Install & Adjust PWS 96, 97, 98, 99, 100	28-Apr-11	02-May-11	3	0	3	5D-SH	-47	0%
CACON000350	Install & Adjust PWS 101, 102, 103, 104, 105	03-May-11	05-May-11	3	0	3	5D-SH	-47	0%
CACON000360	Install & Adjust PWS 106, 107, 108, 109, 110	06-May-11	10-May-11	3	0	3	5D-SH	-47	0%
CACON000370	Install & Adjust PWS 111, 112, 113, 114, 115	11-May-11	13-May-11	3	0	3	5D-SH	-47	0%
CACON000380	Install & Adjust PWS 116, 117, 118, 119, 120	16-May-11	18-May-11	3	0	3	5D-SH	-47	0%
CACON000390	Install & Adjust PWS 120, 121, 122, 123, 124	19-May-11	23-May-11	3	0	3	5D-SH	-47	0%
CACON000400	Install & Adjust PWS 126, 127, 128, 129, 130	24-May-11	26-May-11	3	0	3	5D-SH	-47	0%
CACON000410	Install & Adjust PWS 131, 132, 133, 134, 135	27-May-11	01-Jun-11	3	0	3	5D-SH	-47	0%
CACON000420	Install & Adjust PWS 136, 137	02-Jun-11	06-Jun-11	3	0	3	5D-SH	-47	0%
CACON000430	Install Compaction Equipment - Cable System	07-Jun-11	13-Jun-11	5	0	5	5D-SH	-47	0%
CACON000440	Compact Suspension Cables - Cable System	14-Jun-11	12-Jul-11	20	0	20	5D-SH	-47	0%



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SFOBB Self Anchored Suspension Bridge

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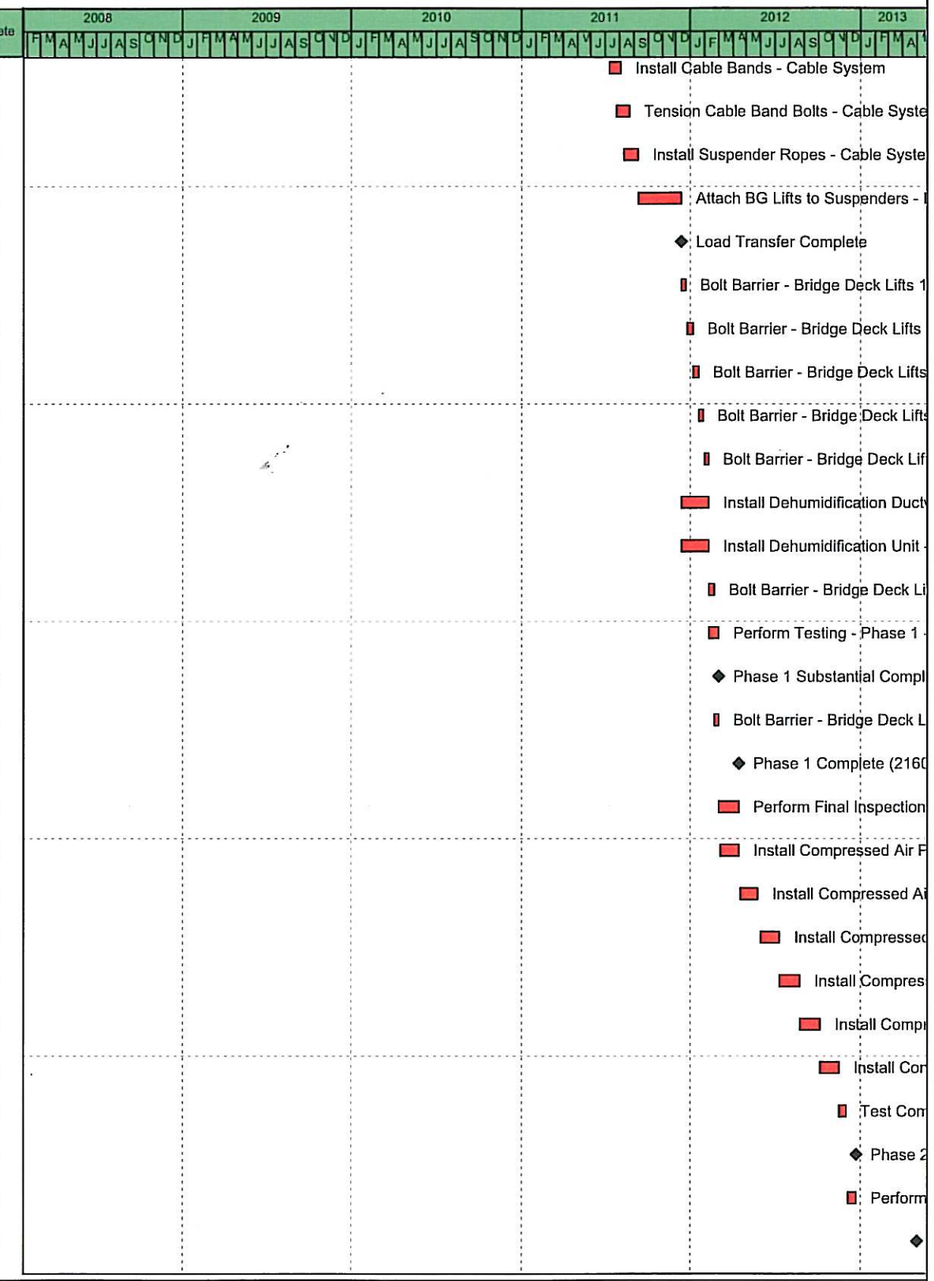
TIME IMPACT ANALYSIS 4 - FULL PROJECT CRITICAL PATH ACTIVTIES IN JANUARY 08 REVISION

Activity ID	Activity Description	Start	Finish	OD	AD	RD	Cal	TF	% Complete
CACON000450	Install Cable Bands - Cable System	08-Jul-11	04-Aug-11	20	0	20	5D-SH	-47	0%
CACON000460	Tension Cable Band Bolts - Cable System	26-Jul-11	22-Aug-11	20	0	20	5D-SH	-47	0%
CACON000530	Install Suspender Ropes - Cable System	11-Aug-11	08-Sep-11	20	0	20	5D-SH	-47	0%
CACON000540	Attach BG Lifts to Suspenders - Load Transfer	09-Sep-11	12-Dec-11	65	0	65	5D-SH	-47	0%
TTCON000030	Load Transfer Complete		12-Dec-11	0	0	0	7D	-69	0%
BDCON000220	Bolt Barrier - Bridge Deck Lifts 1W, 2W	13-Dec-11	22-Dec-11	8	0	8	5D-SH	-47	0%
BDCON000480	Bolt Barrier - Bridge Deck Lifts 3W, 4W	23-Dec-11	05-Jan-12	8	0	8	5D-SH	-47	0%
BDCON000760	Bolt Barrier - Bridge Deck Lifts 5W, 6W	06-Jan-12	17-Jan-12	8	0	8	5D-SH	-47	0%
BDCON001060	Bolt Barrier - Bridge Deck Lifts 7W, 8W	18-Jan-12	27-Jan-12	8	0	8	5D-SH	-47	0%
BDCON001360	Bolt Barrier - Bridge Deck Lifts 9W, 10W	30-Jan-12	08-Feb-12	8	0	8	5D-SH	-47	0%
MECON001080	Install Dehumidification Ductwork - W2 Cable Shroud - Mechanical	13-Dec-11	08-Feb-12	40	0	40	5D-SH	0	0%
MECON001120	Install Dehumidification Unit - W2 Cable Shroud - Mechanical	13-Dec-11	08-Feb-12	40	0	40	5D-SH	0	0%
BDCON001640	Bolt Barrier - Bridge Deck Lifts 11W, 12W	09-Feb-12	21-Feb-12	8	0	8	5D-SH	-47	0%
MECON000005	Perform Testing - Phase 1 - Mechanical	09-Feb-12	29-Feb-12	14	0	14	5D-SH	0	0%
PGCON000130	Phase 1 Substantial Completion	01-Mar-12		0	0	0	7D	0	0%
BDCON001930	Bolt Barrier - Bridge Deck Lifts 13W, 14W	22-Feb-12	02-Mar-12	8	0	8	5D-SH	-47	0%
PGCON000090	Phase 1 Complete (2160 Working Days)		13-Apr-12*	0	0	0	7D	2	0%
PGCON000140	Perform Final Inspection & Completion Work - Phase 1	01-Mar-12	13-Apr-12	32	0	32	5D-SH	0	0%
MECON001010	Install Compressed Air Piping (4 NPS), Valves & Components - Bridge Deck WB (sta 56+00 to 56+90) - Mechanical	05-Mar-12	13-Apr-12	30	0	30	5D-SH	-47	0%
MECON001020	Install Compressed Air Piping (4 NPS), Valves & Components - Bridge Deck WB (sta 56+90 to 58+03) - Mechanical	16-Apr-12	25-May-12	30	0	30	5D-SH	-47	0%
MECON001030	Install Compressed Air Piping (4 NPS), Valves & Components - Bridge Deck WB (sta 58+03 to 59+14) - Mechanical	29-May-12	10-Jul-12	30	0	30	5D-SH	-47	0%
MECON001040	Install Compressed Air Piping (4 NPS), Valves & Components - Bridge Deck WB (sta 59+14 to 60+30) - Mechanical	11-Jul-12	21-Aug-12	30	0	30	5D-SH	-47	0%
MECON001050	Install Compressed Air Piping (4 NPS), Valves & Components - Bridge Deck WB (sta 60+30 to 61+46) - Mechanical	22-Aug-12	03-Oct-12	30	0	30	5D-SH	-47	0%
MECON001060	Install Compressed Air Piping (4 NPS), Valves & Components - Bridge Deck WB (sta 61+46 to 62+08) - Mechanical	04-Oct-12	14-Nov-12	30	0	30	5D-SH	-47	0%
MECON000790	Test Compressed Air Piping WB - Mechanical	15-Nov-12	30-Nov-12	10	0	10	5D-SH	-47	0%
PGCON000100	Phase 2 Complete (2340 Working Days)		20-Dec-12*	0	0	0	7D	-69	0%
MECON000010	Perform Testing - Phase 2 - Mechanical	03-Dec-12	20-Dec-12	14	0	14	5D-SH	-47	0%
PGCON000110	Phase 3 Complete (2520 Working Days)		01-May-13*	0	0	0	7D	-21	0%



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American Bridge / Fluor, A Joint Venture

SFOBB Self Anchored Suspension Bridge

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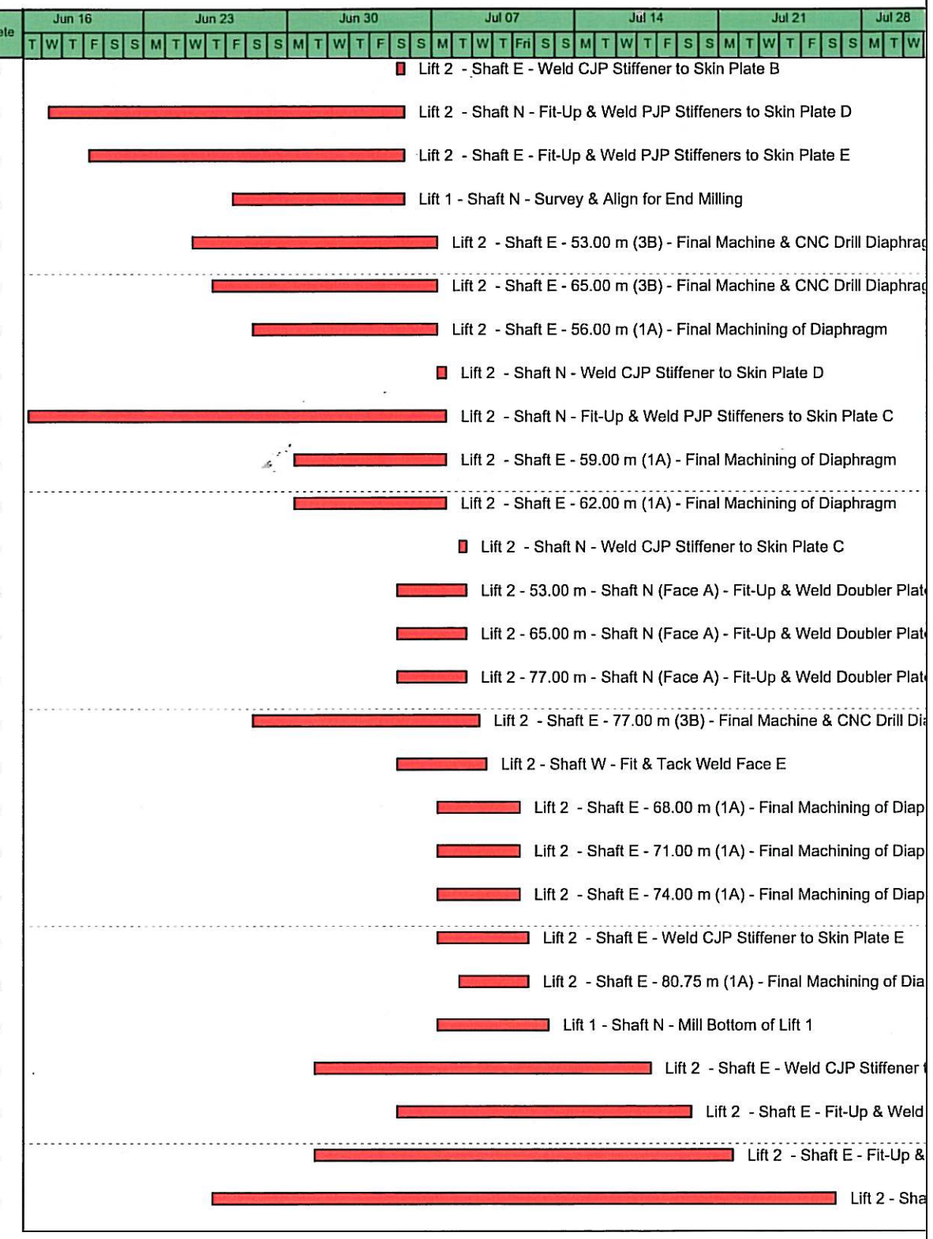
TIME IMPACT ANALYSIS 4 - AFFECTED T1 FABRICATION ACTIVITIES IN JANUARY 08 REVISION IMPACTED WITH 3 DAY DELAY

Activity ID	Activity Description	Start	Finish	OD	AD	RD	Cal	TF	% Complete
T1FABCB0194	Lift 2 - Shaft E - Weld CJP Stiffener to Skin Plate B	05-Jul-08	05-Jul-08	1	0	1	TIA4	-32	0%
T1FABCB0128	Lift 2 - Shaft N - Fit-Up & Weld PJP Stiffeners to Skin Plate D	18-Jun-08	05-Jul-08	13	0	13	TIA4	-45	0%
T1FABCB0160	Lift 2 - Shaft E - Fit-Up & Weld PJP Stiffeners to Skin Plate E	20-Jun-08	05-Jul-08	11	0	11	TIA4	-44	0%
T1FABCB4288	Lift 1 - Shaft N - Survey & Align for End Milling	27-Jun-08	05-Jul-08	5	0	5	TIA4	-57	0%
T1FABCB0994	Lift 2 - Shaft E - 53.00 m (3B) - Final Machine & CNC Drill Diaphragm	25-Jun-08	07-Jul-08	7	0	7	TIA4	-52	0%
T1FABCB0996	Lift 2 - Shaft E - 65.00 m (3B) - Final Machine & CNC Drill Diaphragm	26-Jun-08	07-Jul-08	6	0	6	TIA4	-52	0%
T1FABCB6004	Lift 2 - Shaft E - 56.00 m (1A) - Final Machining of Diaphragm	28-Jun-08	07-Jul-08	4	0	4	TIA4	-48	0%
T1FABCB0168	Lift 2 - Shaft N - Weld CJP Stiffener to Skin Plate D	07-Jul-08	07-Jul-08	1	0	1	TIA4	-45	0%
T1FABCB0126	Lift 2 - Shaft N - Fit-Up & Weld PJP Stiffeners to Skin Plate C	17-Jun-08	07-Jul-08	15	0	15	TIA4	-46	0%
T1FABCB6006	Lift 2 - Shaft E - 59.00 m (1A) - Final Machining of Diaphragm	30-Jun-08	07-Jul-08	4	0	4	TIA4	-49	0%
T1FABCB6008	Lift 2 - Shaft E - 62.00 m (1A) - Final Machining of Diaphragm	30-Jun-08	07-Jul-08	4	0	4	TIA4	-49	0%
T1FABCB0166	Lift 2 - Shaft N - Weld CJP Stiffener to Skin Plate C	08-Jul-08	08-Jul-08	1	0	1	TIA4	-46	0%
T1FABCB0226	Lift 2 - 53.00 m - Shaft N (Face A) - Fit-Up & Weld Doubler Plate to Skin Plate	05-Jul-08	08-Jul-08	3	0	3	TIA4	-58	0%
T1FABCB0234	Lift 2 - 65.00 m - Shaft N (Face A) - Fit-Up & Weld Doubler Plate to Skin Plate	05-Jul-08	08-Jul-08	3	0	3	TIA4	-58	0%
T1FABCB0242	Lift 2 - 77.00 m - Shaft N (Face A) - Fit-Up & Weld Doubler Plate to Skin Plate	05-Jul-08	08-Jul-08	3	0	3	TIA4	-58	0%
T1FABCB0998	Lift 2 - Shaft E - 77.00 m (3B) - Final Machine & CNC Drill Diaphragm	28-Jun-08	09-Jul-08	6	0	6	TIA4	-50	0%
T1FABCB1584	Lift 2 - Shaft W - Fit & Tack Weld Face E	05-Jul-08	09-Jul-08	4	0	4	TIA4	-59	0%
T1FABCB6010	Lift 2 - Shaft E - 68.00 m (1A) - Final Machining of Diaphragm	07-Jul-08	11-Jul-08	4	0	4	TIA4	-48	0%
T1FABCB6012	Lift 2 - Shaft E - 71.00 m (1A) - Final Machining of Diaphragm	07-Jul-08	11-Jul-08	4	0	4	TIA4	-48	0%
T1FABCB6014	Lift 2 - Shaft E - 74.00 m (1A) - Final Machining of Diaphragm	07-Jul-08	11-Jul-08	4	0	4	TIA4	-48	0%
T1FABCB0200	Lift 2 - Shaft E - Weld CJP Stiffener to Skin Plate E	07-Jul-08	11-Jul-08	5	0	5	TIA4	-44	0%
T1FABCB6016	Lift 2 - Shaft E - 80.75 m (1A) - Final Machining of Diaphragm	08-Jul-08	11-Jul-08	4	0	4	TIA4	-49	0%
T1FABCB4296	Lift 1 - Shaft N - Mill Bottom of Lift 1	07-Jul-08	12-Jul-08	6	0	6	TIA4	-57	0%
T1FABCB0192	Lift 2 - Shaft E - Weld CJP Stiffener to Skin Plate A	01-Jul-08	17-Jul-08	12	0	12	TIA4	-57	0%
T1FABCB0158	Lift 2 - Shaft E - Fit-Up & Weld PJP Stiffeners to Skin Plate D	05-Jul-08	19-Jul-08	13	0	13	TIA4	-45	0%
T1FABCB0156	Lift 2 - Shaft E - Fit-Up & Weld PJP Stiffeners to Skin Plate C	01-Jul-08	21-Jul-08	15	0	15	TIA4	-46	0%
T1FABCB1602	Lift 2 - Shaft S - Weld Shaft Assembly	26-Jun-08	26-Jul-08	24	0	24	TIA4	-56	0%



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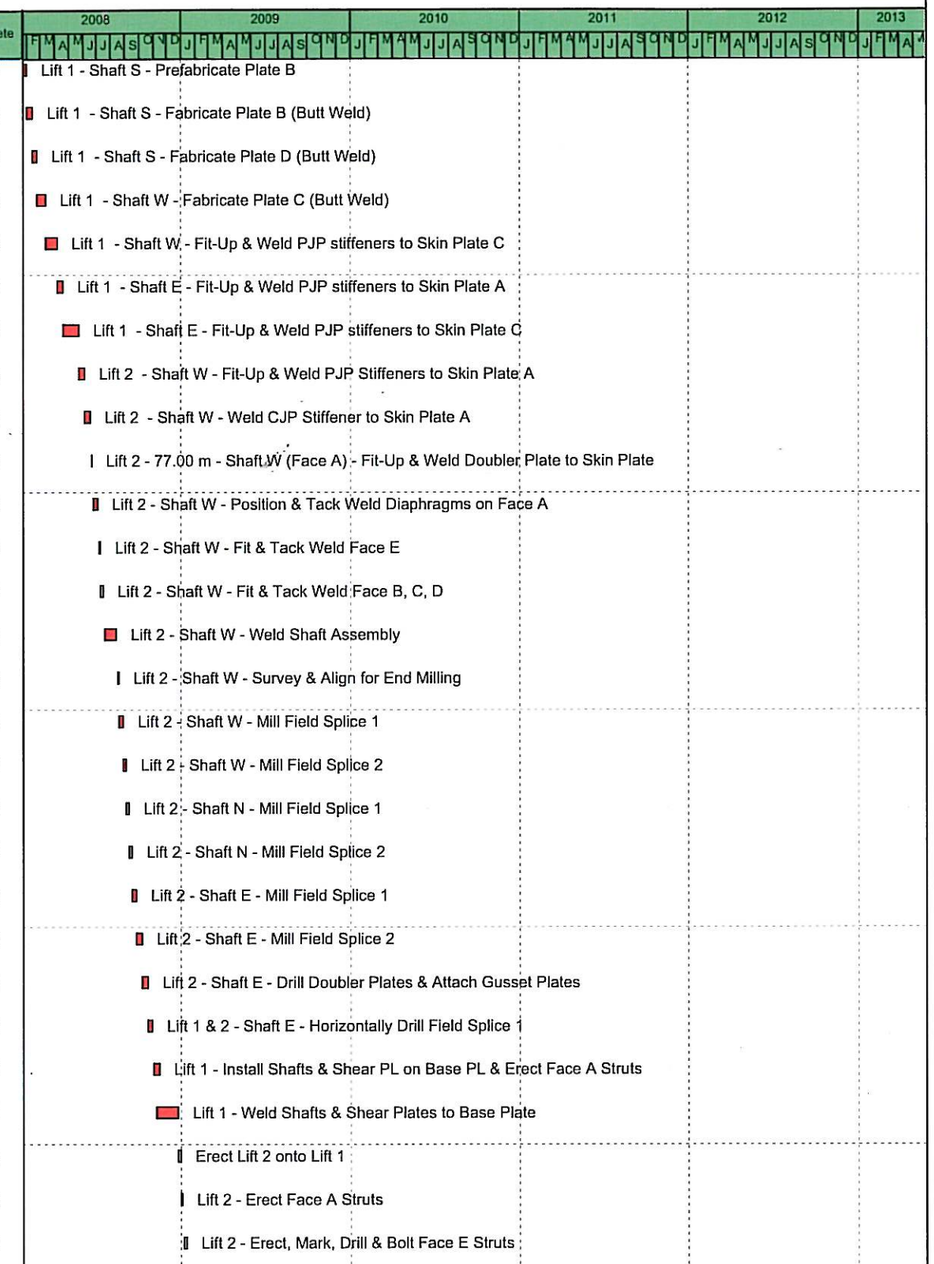
TIME IMPACT ANALYSIS 4 - FULL PROJECT CRITICAL PATH ACTIVTIES IN JANUARY 08 REVISION WITH 3 DAY IMPACT

Activity ID	Activity Description	Start	Finish	OD	AD	RD	Cal	TF	% Complete
T1FABCB1800	Lift 1 - Shaft S - Prefabricate Plate B	22-Jan-08	01-Feb-08	10	0	10	6D-CH	-30	0%
T1FABCB1840	Lift 1 - Shaft S - Fabricate Plate B (Butt Weld)	02-Feb-08	14-Feb-08	7	0	7	6D-CH	-30	0%
T1FABCB1844	Lift 1 - Shaft S - Fabricate Plate D (Butt Weld)	15-Feb-08	22-Feb-08	7	0	7	6D-CH	-41	0%
T1FABCB1832	Lift 1 - Shaft W - Fabricate Plate C (Butt Weld)	23-Feb-08	11-Mar-08	15	0	15	6D-CH	-54	0%
T1FABCB1874	Lift 1 - Shaft W - Fit-Up & Weld PJP stiffeners to Skin Plate C	12-Mar-08	07-Apr-08	23	0	23	6D-CH	-54	0%
T1FABCB1890	Lift 1 - Shaft E - Fit-Up & Weld PJP stiffeners to Skin Plate A	08-Apr-08	18-Apr-08	10	0	10	6D-CH	-59	0%
T1FABCB1894	Lift 1 - Shaft E - Fit-Up & Weld PJP stiffeners to Skin Plate C	19-Apr-08	22-May-08	23	0	23	6D-CH	-55	0%
T1FABCB0132	Lift 2 - Shaft W - Fit-Up & Weld PJP Stiffeners to Skin Plate A	23-May-08	04-Jun-08	11	0	11	6D-CH	-59	0%
T1FABCB0172	Lift 2 - Shaft W - Weld CJP Stiffener to Skin Plate A	05-Jun-08	18-Jun-08	12	0	12	6D-CH	-59	0%
T1FABCB0244	Lift 2 - 77.00 m - Shaft W (Face A) - Fit-Up & Weld Doubler Plate to Skin Plate	19-Jun-08	21-Jun-08	3	0	3	6D-CH	-59	0%
T1FABCB1576	Lift 2 - Shaft W - Position & Tack Weld Diaphragms on Face A	23-Jun-08	01-Jul-08	8	0	8	6D-CH	-59	0%
T1FABCB1584	Lift 2 - Shaft W - Fit & Tack Weld Face E	05-Jul-08	09-Jul-08	4	0	4	TIA4	-59	0%
T1FABCB1592	Lift 2 - Shaft W - Fit & Tack Weld Face B, C, D	10-Jul-08	16-Jul-08	6	0	6	6D-CH	-62	0%
T1FABCB1600	Lift 2 - Shaft W - Weld Shaft Assembly	17-Jul-08	13-Aug-08	24	0	24	6D-CH	-62	0%
T1FABCB4462	Lift 2 - Shaft W - Survey & Align for End Milling	14-Aug-08	19-Aug-08	5	0	5	6D-CH	-62	0%
T1FABCB4470	Lift 2 - Shaft W - Mill Field Splice 1	20-Aug-08	26-Aug-08	6	0	6	6D-CH	-62	0%
T1FABCB4478	Lift 2 - Shaft W - Mill Field Splice 2	27-Aug-08	02-Sep-08	6	0	6	6D-CH	-62	0%
T1FABCB4468	Lift 2 - Shaft N - Mill Field Splice 1	03-Sep-08	09-Sep-08	6	0	6	6D-CH	-62	0%
T1FABCB4476	Lift 2 - Shaft N - Mill Field Splice 2	10-Sep-08	16-Sep-08	6	0	6	6D-CH	-62	0%
T1FABCB4474	Lift 2 - Shaft E - Mill Field Splice 1	17-Sep-08	23-Sep-08	6	0	6	6D-CH	-62	0%
T1FABCB4482	Lift 2 - Shaft E - Mill Field Splice 2	24-Sep-08	07-Oct-08	6	0	6	6D-CH	-62	0%
T1FABCB4489	Lift 2 - Shaft E - Drill Doubler Plates & Attach Gusset Plates	08-Oct-08	18-Oct-08	10	0	10	6D-CH	-62	0%
T1FABCB4388	Lift 1 & 2 - Shaft E - Horizontally Drill Field Splice 1	20-Oct-08	30-Oct-08	10	0	10	6D-CH	-62	0%
T1FABCB4362	Lift 1 - Install Shafts & Shear PL on Base PL & Erect Face A Struts	31-Oct-08	13-Nov-08	12	0	12	6D-CH	-62	0%
T1FABCB4364	Lift 1 - Weld Shafts & Shear Plates to Base Plate	07-Nov-08	23-Dec-08	40	0	40	6D-CH	-62	0%
T1FABCB4396	Erect Lift 2 onto Lift 1	24-Dec-08	30-Dec-08	6	0	6	6D-CH	-62	0%
T1FABCB4398	Lift 2 - Erect Face A Struts	31-Dec-08	03-Jan-09	4	0	4	6D-CH	-62	0%
T1FABCB4400	Lift 2 - Erect, Mark, Drill & Bolt Face E Struts	05-Jan-09	13-Jan-09	8	0	8	6D-CH	-62	0%



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SFOBB Self Anchored Suspension Bridge

20-January-2008 Revision Schedule

Run Date: 03-Oct-08 15:04

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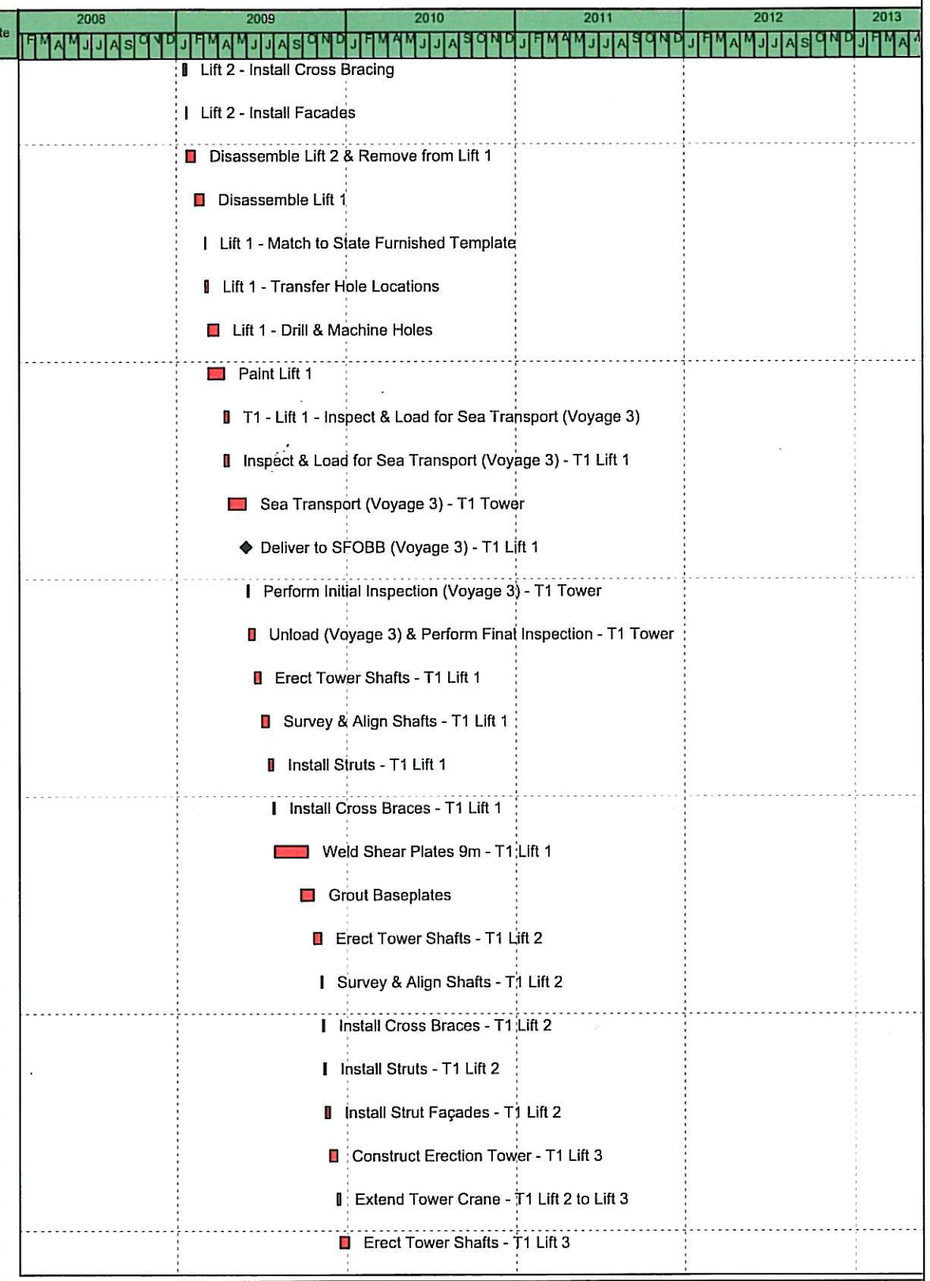
T1FABCB4402	Lift 2 - Install Cross Bracing	14-Jan-09	20-Jan-09	6	0	6	6D-CH	-62	0%
T1FABCB4404	Lift 2 - Install Facades	21-Jan-09	21-Jan-09	1	0	1	6D-CH	-62	0%
T1FABCB4406	Disassemble Lift 2 & Remove from Lift 1	22-Jan-09	09-Feb-09	10	0	10	6D-CH	-62	0%
T1FABCB4408	Disassemble Lift 1	10-Feb-09	28-Feb-09	17	0	17	6D-CH	-62	0%
T1FABCB4410	Lift 1 - Match to State Furnished Template	02-Mar-09	03-Mar-09	2	0	2	6D-CH	-62	0%
T1FABCB4412	Lift 1 - Transfer Hole Locations	04-Mar-09	07-Mar-09	4	0	4	6D-CH	-62	0%
T1FABCB4484	Lift 1 - Drill & Machine Holes	09-Mar-09	31-Mar-09	20	0	20	6D-CH	-62	0%
T1FABCB4486	Paint Lift 1	09-Mar-09	11-Apr-09	30	0	30	6D-CH	-62	0%
T1FAB001170	T1 - Lift 1 - Inspect & Load for Sea Transport (Voyage 3)	13-Apr-09	21-Apr-09	8	0	8	6D-CH	-62	0%
T1FAB001170	Inspect & Load for Sea Transport (Voyage 3) - T1 Lift 1	13-Apr-09	21-Apr-09	8	0	8	6D-CH	-62	0%
T1FAB000240	Sea Transport (Voyage 3) - T1 Tower	22-Apr-09	29-May-09	38	0	38	7D	-72	0%
T1FAB000020	Deliver to SFOBB (Voyage 3) - T1 Lift 1		29-May-09	0	0	0	7D	-72	0%
T1FAB000250	Perform Initial Inspection (Voyage 3) - T1 Tower	01-Jun-09	03-Jun-09	3	0	3	5D-SH	-51	0%
T1FAB000260	Unload (Voyage 3) & Perform Final Inspection - T1 Tower	04-Jun-09	15-Jun-09	8	0	8	5D-SH	-51	0%
T1CON000180	Erect Tower Shafts - T1 Lift 1	16-Jun-09	29-Jun-09	10	0	10	5D-SH	-51	0%
T1CON000190	Survey & Align Shafts - T1 Lift 1	02-Jul-09	16-Jul-09	10	0	10	5D-SH	-51	0%
T1CON000210	Install Struts - T1 Lift 1	17-Jul-09	27-Jul-09	7	0	7	5D-SH	-51	0%
T1CON000220	Install Cross Braces - T1 Lift 1	28-Jul-09	29-Jul-09	2	0	2	5D-SH	-51	0%
T1CON000260	Weld Shear Plates 9m - T1 Lift 1	30-Jul-09	08-Oct-09	50	0	50	5D-SH	-51	0%
T1CON000280	Grout Baseplates	25-Sep-09	22-Oct-09	20	0	20	5D-SH	-51	0%
T1CON000360	Erect Tower Shafts - T1 Lift 2	23-Oct-09	05-Nov-09	10	0	10	5D-SH	-51	0%
T1CON000370	Survey & Align Shafts - T1 Lift 2	06-Nov-09	09-Nov-09	2	0	2	5D-SH	-51	0%
T1CON000380	Install Cross Braces - T1 Lift 2	10-Nov-09	13-Nov-09	4	0	4	5D-SH	-51	0%
T1CON000390	Install Struts - T1 Lift 2	12-Nov-09	16-Nov-09	3	0	3	5D-SH	-51	0%
T1CON000400	Install Strut Façades - T1 Lift 2	17-Nov-09	24-Nov-09	6	0	6	5D-SH	-51	0%
T1CON000050	Construct Erection Tower - T1 Lift 3	25-Nov-09	10-Dec-09	10	0	10	5D-SH	-51	0%
T1CON000090	Extend Tower Crane - T1 Lift 2 to Lift 3	11-Dec-09	17-Dec-09	5	0	5	5D-SH	-51	0%
T1CON000480	Erect Tower Shafts - T1 Lift 3	18-Dec-09	04-Jan-10	10	0	10	5D-SH	-51	0%



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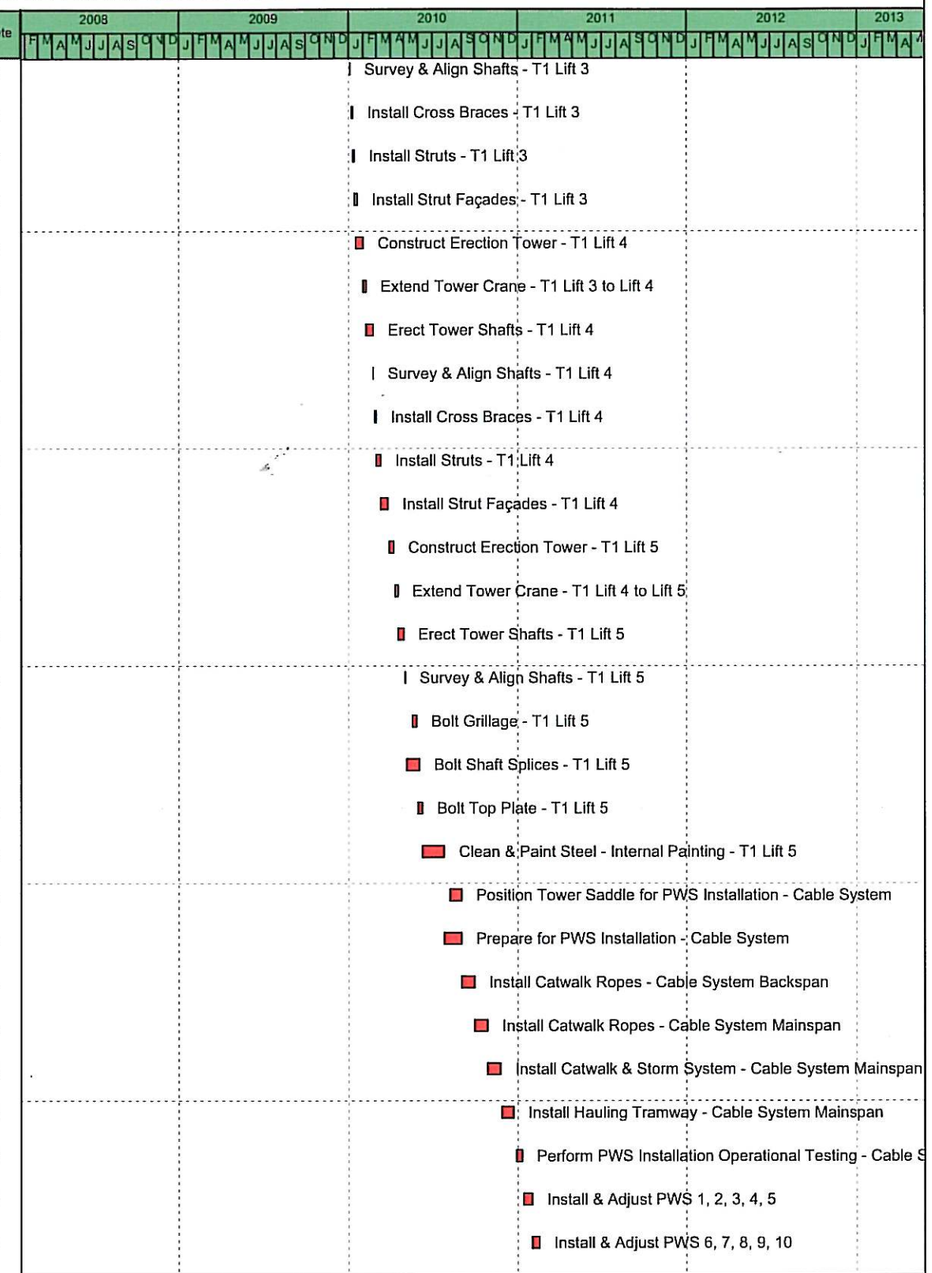
T1CON000490	Survey & Align Shafts - T1 Lift 3	05-Jan-10	06-Jan-10	2	0	2	5D-SH	-51	0%
T1CON000500	Install Cross Braces - T1 Lift 3	07-Jan-10	12-Jan-10	4	0	4	5D-SH	-51	0%
T1CON000510	Install Struts - T1 Lift 3	11-Jan-10	13-Jan-10	3	0	3	5D-SH	-51	0%
T1CON000520	Install Strut Façades - T1 Lift 3	14-Jan-10	21-Jan-10	6	0	6	5D-SH	-51	0%
T1CON000060	Construct Erection Tower - T1 Lift 4	19-Jan-10	01-Feb-10	10	0	10	5D-SH	-51	0%
T1CON000100	Extend Tower Crane - T1 Lift 3 to Lift 4	02-Feb-10	08-Feb-10	5	0	5	5D-SH	-51	0%
T1CON000600	Erect Tower Shafts - T1 Lift 4	09-Feb-10	23-Feb-10	10	0	10	5D-SH	-51	0%
T1CON000610	Survey & Align Shafts - T1 Lift 4	24-Feb-10	25-Feb-10	2	0	2	5D-SH	-51	0%
T1CON000620	Install Cross Braces - T1 Lift 4	26-Feb-10	03-Mar-10	4	0	4	5D-SH	-51	0%
T1CON000630	Install Struts - T1 Lift 4	02-Mar-10	10-Mar-10	7	0	7	5D-SH	-51	0%
T1CON000640	Install Strut Façades - T1 Lift 4	11-Mar-10	26-Mar-10	12	0	12	5D-SH	-51	0%
T1CON000070	Construct Erection Tower - T1 Lift 5	29-Mar-10	09-Apr-10	10	0	10	5D-SH	-51	0%
T1CON000110	Extend Tower Crane - T1 Lift 4 to Lift 5	12-Apr-10	16-Apr-10	5	0	5	5D-SH	-51	0%
T1CON000720	Erect Tower Shafts - T1 Lift 5	19-Apr-10	30-Apr-10	10	0	10	5D-SH	-51	0%
T1CON000730	Survey & Align Shafts - T1 Lift 5	03-May-10	04-May-10	2	0	2	5D-SH	-51	0%
T1CON000750	Bolt Grillage - T1 Lift 5	19-May-10	28-May-10	8	0	8	5D-SH	-51	0%
T1CON000740	Bolt Shaft Splices - T1 Lift 5	05-May-10	02-Jun-10	20	0	20	5D-SH	-51	0%
T1CON000760	Bolt Top Plate - T1 Lift 5	01-Jun-10	10-Jun-10	8	0	8	5D-SH	-51	0%
T1CON000770	Clean & Paint Steel - Internal Painting - T1 Lift 5	11-Jun-10	27-Jul-10	32	0	32	5D-SH	-51	0%
CACON000040	Position Tower Saddle for PWS Installation - Cable System	09-Aug-10	31-Aug-10	17	0	17	5D-SH	-51	0%
CACON000070	Prepare for PWS Installation - Cable System	28-Jul-10	31-Aug-10	25	0	25	5D-SH	-51	0%
CACON000050	Install Catwalk Ropes - Cable System Backspan	01-Sep-10	29-Sep-10	20	0	20	5D-SH	-51	0%
CACON000060	Install Catwalk Ropes - Cable System Mainspan	30-Sep-10	27-Oct-10	20	0	20	5D-SH	-51	0%
CACON000090	Install Catwalk & Storm System - Cable System Mainspan	28-Oct-10	24-Nov-10	20	0	20	5D-SH	-51	0%
CACON000110	Install Hauling Tramway - Cable System Mainspan	29-Nov-10	24-Dec-10	20	0	20	5D-SH	-51	0%
CACON000120	Perform PWS Installation Operational Testing - Cable System	28-Dec-10	11-Jan-11	10	0	10	5D-SH	-51	0%
CACON000150	Install & Adjust PWS 1, 2, 3, 4, 5	13-Jan-11	02-Feb-11	15	0	15	5D-SH	-51	0%
CACON000160	Install & Adjust PWS 6, 7, 8, 9, 10	03-Feb-11	16-Feb-11	10	0	10	5D-SH	-51	0%



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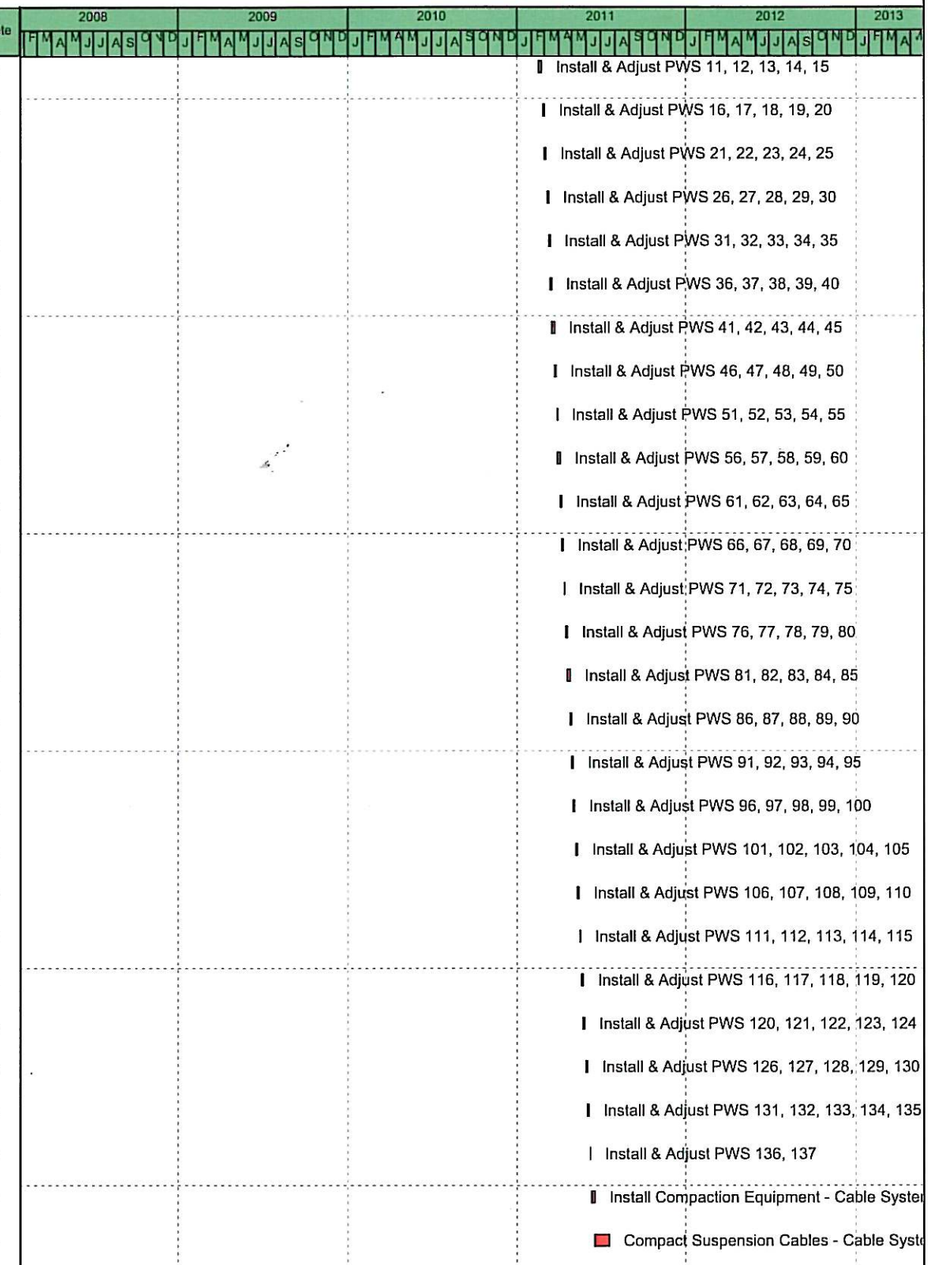
CACON000170	Install & Adjust PWS 11, 12, 13, 14, 15	17-Feb-11	24-Feb-11	5	0	5	5D-SH	-51	0%
CACON000180	Install & Adjust PWS 16, 17, 18, 19, 20	25-Feb-11	01-Mar-11	3	0	3	5D-SH	-51	0%
CACON000190	Install & Adjust PWS 21, 22, 23, 24, 25	02-Mar-11	04-Mar-11	3	0	3	5D-SH	-51	0%
CACON000200	Install & Adjust PWS 26, 27, 28, 29, 30	07-Mar-11	09-Mar-11	3	0	3	5D-SH	-51	0%
CACON000210	Install & Adjust PWS 31, 32, 33, 34, 35	10-Mar-11	14-Mar-11	3	0	3	5D-SH	-51	0%
CACON000220	Install & Adjust PWS 36, 37, 38, 39, 40	15-Mar-11	17-Mar-11	3	0	3	5D-SH	-51	0%
CACON000230	Install & Adjust PWS 41, 42, 43, 44, 45	18-Mar-11	22-Mar-11	3	0	3	5D-SH	-51	0%
CACON000240	Install & Adjust PWS 46, 47, 48, 49, 50	23-Mar-11	25-Mar-11	3	0	3	5D-SH	-51	0%
CACON000250	Install & Adjust PWS 51, 52, 53, 54, 55	28-Mar-11	30-Mar-11	3	0	3	5D-SH	-51	0%
CACON000260	Install & Adjust PWS 56, 57, 58, 59, 60	31-Mar-11	04-Apr-11	3	0	3	5D-SH	-51	0%
CACON000270	Install & Adjust PWS 61, 62, 63, 64, 65	05-Apr-11	07-Apr-11	3	0	3	5D-SH	-51	0%
CACON000280	Install & Adjust PWS 66, 67, 68, 69, 70	08-Apr-11	12-Apr-11	3	0	3	5D-SH	-51	0%
CACON000290	Install & Adjust PWS 71, 72, 73, 74, 75	13-Apr-11	15-Apr-11	3	0	3	5D-SH	-51	0%
CACON000300	Install & Adjust PWS 76, 77, 78, 79, 80	18-Apr-11	20-Apr-11	3	0	3	5D-SH	-51	0%
CACON000310	Install & Adjust PWS 81, 82, 83, 84, 85	21-Apr-11	25-Apr-11	3	0	3	5D-SH	-51	0%
CACON000320	Install & Adjust PWS 86, 87, 88, 89, 90	26-Apr-11	28-Apr-11	3	0	3	5D-SH	-51	0%
CACON000330	Install & Adjust PWS 91, 92, 93, 94, 95	29-Apr-11	03-May-11	3	0	3	5D-SH	-51	0%
CACON000340	Install & Adjust PWS 96, 97, 98, 99, 100	04-May-11	06-May-11	3	0	3	5D-SH	-51	0%
CACON000350	Install & Adjust PWS 101, 102, 103, 104, 105	09-May-11	11-May-11	3	0	3	5D-SH	-51	0%
CACON000360	Install & Adjust PWS 106, 107, 108, 109, 110	12-May-11	16-May-11	3	0	3	5D-SH	-51	0%
CACON000370	Install & Adjust PWS 111, 112, 113, 114, 115	17-May-11	19-May-11	3	0	3	5D-SH	-51	0%
CACON000380	Install & Adjust PWS 116, 117, 118, 119, 120	20-May-11	24-May-11	3	0	3	5D-SH	-51	0%
CACON000390	Install & Adjust PWS 120, 121, 122, 123, 124	25-May-11	27-May-11	3	0	3	5D-SH	-51	0%
CACON000400	Install & Adjust PWS 126, 127, 128, 129, 130	31-May-11	02-Jun-11	3	0	3	5D-SH	-51	0%
CACON000410	Install & Adjust PWS 131, 132, 133, 134, 135	03-Jun-11	07-Jun-11	3	0	3	5D-SH	-51	0%
CACON000420	Install & Adjust PWS 136, 137	08-Jun-11	10-Jun-11	3	0	3	5D-SH	-51	0%
CACON000430	Install Compaction Equipment - Cable System	13-Jun-11	17-Jun-11	5	0	5	5D-SH	-51	0%
CACON000440	Compact Suspension Cables - Cable System	20-Jun-11	18-Jul-11	20	0	20	5D-SH	-51	0%



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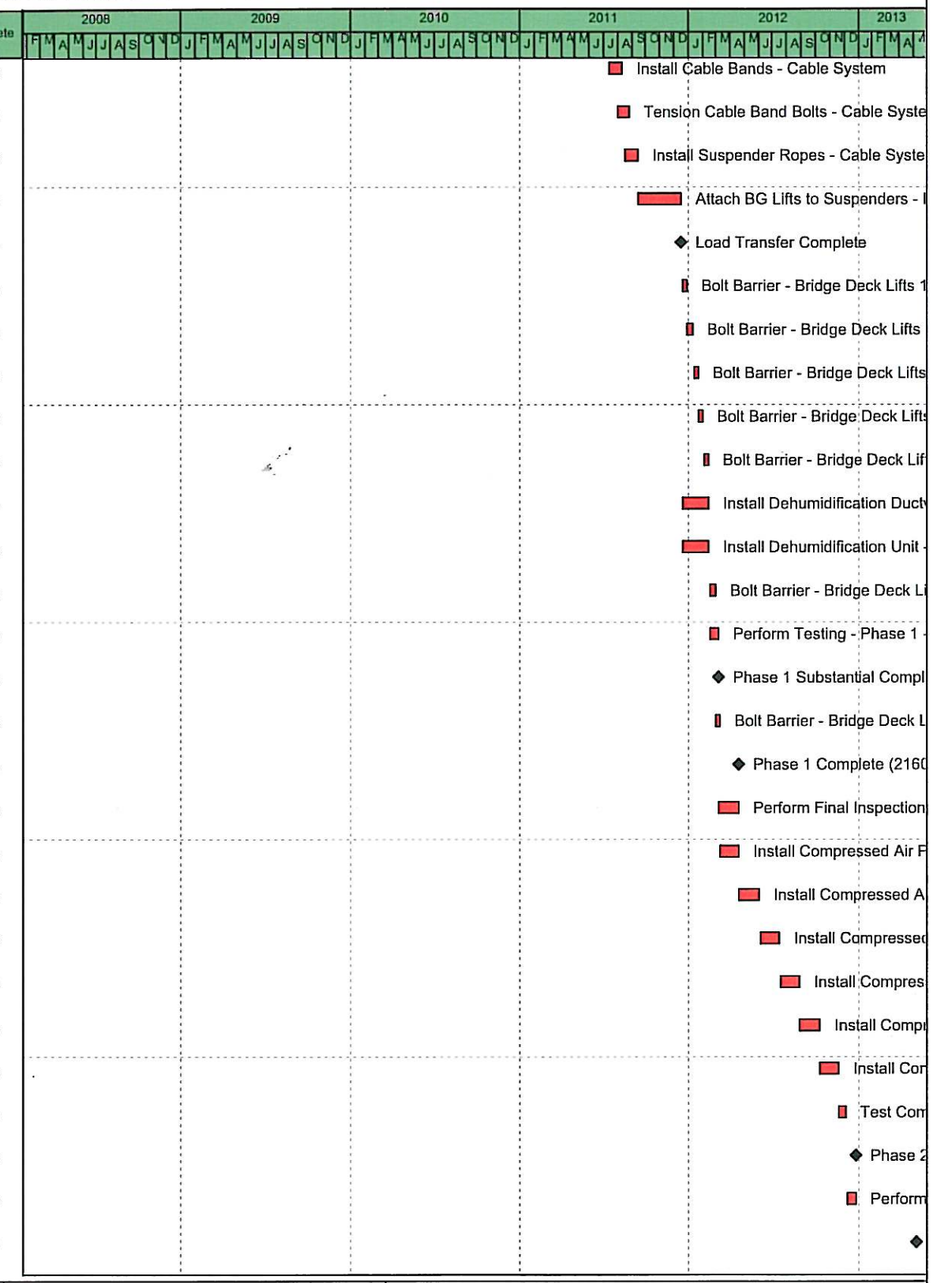
CACON000450	Install Cable Bands - Cable System	14-Jul-11	10-Aug-11	20	0	20	5D-SH	-51	0%
CACON000460	Tension Cable Band Bolts - Cable System	01-Aug-11	26-Aug-11	20	0	20	5D-SH	-51	0%
CACON000530	Install Suspender Ropes - Cable System	17-Aug-11	14-Sep-11	20	0	20	5D-SH	-51	0%
CACON000540	Attach BG Lifts to Suspenders - Load Transfer	15-Sep-11	16-Dec-11	65	0	65	5D-SH	-51	0%
TTCON000030	Load Transfer Complete		16-Dec-11	0	0	0	7D	-73	0%
BDCON000220	Bolt Barrier - Bridge Deck Lifts 1W, 2W	19-Dec-11	29-Dec-11	8	0	8	5D-SH	-51	0%
BDCON000480	Bolt Barrier - Bridge Deck Lifts 3W, 4W	30-Dec-11	11-Jan-12	8	0	8	5D-SH	-51	0%
BDCON000760	Bolt Barrier - Bridge Deck Lifts 5W, 6W	12-Jan-12	23-Jan-12	8	0	8	5D-SH	-51	0%
BDCON001060	Bolt Barrier - Bridge Deck Lifts 7W, 8W	24-Jan-12	02-Feb-12	8	0	8	5D-SH	-51	0%
BDCON001360	Bolt Barrier - Bridge Deck Lifts 9W, 10W	03-Feb-12	14-Feb-12	8	0	8	5D-SH	-51	0%
MECON001080	Install Dehumidification Ductwork - W2 Cable Shroud - Mechanical	19-Dec-11	14-Feb-12	40	0	40	5D-SH	-4	0%
MECON001120	Install Dehumidification Unit - W2 Cable Shroud - Mechanical	19-Dec-11	14-Feb-12	40	0	40	5D-SH	-4	0%
BDCON001640	Bolt Barrier - Bridge Deck Lifts 11W, 12W	15-Feb-12	27-Feb-12	8	0	8	5D-SH	-51	0%
MECON000005	Perform Testing - Phase 1 - Mechanical	15-Feb-12	06-Mar-12	14	0	14	5D-SH	-4	0%
PGCON000130	Phase 1 Substantial Completion	07-Mar-12		0	0	0	7D	-6	0%
BDCON001930	Bolt Barrier - Bridge Deck Lifts 13W, 14W	28-Feb-12	08-Mar-12	8	0	8	5D-SH	-51	0%
PGCON000090	Phase 1 Complete (2160 Working Days)		19-Apr-12*	0	0	0	7D	-4	0%
PGCON000140	Perform Final Inspection & Completion Work - Phase 1	07-Mar-12	19-Apr-12	32	0	32	5D-SH	-4	0%
MECON001010	Install Compressed Air Piping (4 NPS), Valves & Components - Bridge Deck WB (sta 56+00 to 56+90) - Mechanical	09-Mar-12	19-Apr-12	30	0	30	5D-SH	-51	0%
MECON001020	Install Compressed Air Piping (4 NPS), Valves & Components - Bridge Deck WB (sta 56+90 to 58+03) - Mechanical	20-Apr-12	01-Jun-12	30	0	30	5D-SH	-51	0%
MECON001030	Install Compressed Air Piping (4 NPS), Valves & Components - Bridge Deck WB (sta 58+03 to 59+14) - Mechanical	04-Jun-12	16-Jul-12	30	0	30	5D-SH	-51	0%
MECON001040	Install Compressed Air Piping (4 NPS), Valves & Components - Bridge Deck WB (sta 59+14 to 60+30) - Mechanical	17-Jul-12	27-Aug-12	30	0	30	5D-SH	-51	0%
MECON001050	Install Compressed Air Piping (4 NPS), Valves & Components - Bridge Deck WB (sta 60+30 to 61+46) - Mechanical	28-Aug-12	09-Oct-12	30	0	30	5D-SH	-51	0%
MECON001060	Install Compressed Air Piping (4 NPS), Valves & Components - Bridge Deck WB (sta 61+46 to 62+08) - Mechanical	10-Oct-12	20-Nov-12	30	0	30	5D-SH	-51	0%
MECON000790	Test Compressed Air Piping WB - Mechanical	21-Nov-12	06-Dec-12	10	0	10	5D-SH	-51	0%
PGCON000100	Phase 2 Complete (2340 Working Days)		27-Dec-12*	0	0	0	7D	-76	0%
MECON000010	Perform Testing - Phase 2 - Mechanical	07-Dec-12	27-Dec-12	14	0	14	5D-SH	-51	0%
PGCON000110	Phase 3 Complete (2520 Working Days)		07-May-13*	0	0	0	7D	-27	0%



American Bridge / FLUOR
A JOINT VENTURE

Sheet 5 of 5

American Bridge / Fluor, A Joint Venture

SFOBB Self Anchored Suspension Bridge

20-January-2008 Revision Schedule

Run Date: 03-Oct-08 15:04

Data Date: 20-Jan-08

SUBMITTAL No.: ABF-SUB-000680-R2

- Remaining Level of Effort
- Actual Work
- Remaining Work
- Critical Remaining Work
- Milestone