

REPORTING PERIOD: February 2003

**I. PROGRESS**

**1.1 General Construction**

- a. Activity – Purchase Order 549703 was issued on 2/13/03. A Preconstruction meeting was held on 2/26/03 with Whittaker Excavating. The contract was signed on 2/26/03. Notice to proceed is anticipated for March 17<sup>th</sup> pending review of the project safety plan and hazard analysis.
- b. Photographs- NA
- c. Hours worked –NA
- d. Cumulative hours worked -NA
- e. Subcontractor’s schedule evaluation -NA
- f. Earned Value Reports - NA
- g. Engineering Change Proposals/ Requests -NA
- h. Upcoming issues –Mobilization, excavation plan, excavation permit, safety plan and HA approval, project schedule, and submittals.

**1.2 Project Support**

- a. Month of February was primarily spent on preparation of issued for Construction documents and initial negotiations with the Subcontractor.
- b. The Change Control Board for MI-31 met on 2/28/03 to review and revise the cost distribution for WBS 1.1 and 1.2. The tables below and attached reflect this change.

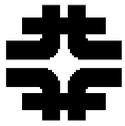
**SCHEDULE INFORMATION AND MILESTONES:**

MILESTONE	DEFINITION	BASELINE	PEP Dates	Latest Estimates
Start Project	Directive signed	30 May 02	30 May 02	26 Jun 02 (actual)
T2 Design Complete	Contract documents submitted for procurement	15 Jan 03	15 Aug 02	15 Nov 02 (actual)
Begin Construction	Notice To Proceed Issued	27 Jun 03	21 Nov 02	17 Mar 03
Construction Complete	Final acceptance of all work	9 Jun 04	9 Dec 03	23 Feb 04
Project Complete	Project closed	30 Nov 04	10 Dec 03	23 Mar 04

## II. Overall Project Cost Summary

		ORIGINAL BASELINE PROJECT COSTS (2001 dollars)	Cost Restructure 2/21/03	
<b>1.1</b>	<b>General Construction</b>	<b>\$3,047,000</b>	<b>\$3,130,948</b>	
1.1.1	Construction W / 18% OHP	\$2,323,000	\$2,654,817	
1.1.2	Construction Contingency	22% \$511,000	\$373,904	14%
1.1.3	Construction G & A	\$83,000	\$102,227	
1.1.4	Escalation (4.6%)	4.6% \$130,000	\$0	
<b>1.2</b>	<b>Project Support</b>	<b>\$763,000</b>	<b>\$679,031</b>	
1.2.1	Project Engineering	\$465,000	\$461,687	
1.2.2	Project Support Contingency	21% \$99,000	\$87,653	19%
1.2.3	Project Support G & A	\$166,000	\$129,691	
1.2.4	Escalation (4.6%)	\$33,000	\$0	
<b>Total Project Cost</b>		<b>\$3,810,000</b>	<b>\$3,810,000</b>	

NOTE THAT 1.1 AND 1.2 HAVE BEEN REDISTRIBUTED (2/21/03) TO REFLECT USE OF MUCH OF THE ESCALATION, ACTUAL FIXED PRICE CONSTRUCTION COSTS, AND A HIGHER CONTINGENCY.



## ATTACHMENTS

Act 70 Report for 3-03

Work Package Report for 3-03

Engineering Change Proposal List

ECP 1 through 5.

# ACT70 Inquiry 2.0a

# Fermilab Business Services

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**Fund Type**  
5 - Plant

**Budget Code**  
HYM

**Period**  
FEB-03

[Note: See user manual for information on time periods](#)

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Source CE Category	Vendor	PO Number	Line Description	WBS Type	Change In Commitment	Amount Accrued
1D MassAllocation Allocation			VACATION ACCRUAL-MONTHLY	GL	\$0.00	\$72.10
					<b>Cost Element 1D Totals: \$0.00</b>	<b>\$72.10</b>
1F MassAllocation Allocation			OPTO ACCRUAL- MONTHLY	GL	\$0.00	\$42.61
					<b>Cost Element 1F Totals: \$0.00</b>	<b>\$42.61</b>
1W Effort Reporting Labor Transfers			jv61-0302-067780- BEAMS Effort Xfer	GL	\$0.00	\$655.49
					<b>Cost Element 1W Totals: \$0.00</b>	<b>\$655.49</b>
20 MassAllocation Allocation			FRINGE ON MONTHLY/WEEKLY	GL	\$0.00	\$231.06
					<b>Cost Element 20 Totals: \$0.00</b>	<b>\$231.06</b>
25 Service Center Chargebacks			FESS Chargebacks	GL	\$0.00	\$5,680.00
25 Service Center Chargebacks			FESS Chargebacks	GL	\$0.00	\$11,928.00
					<b>Cost Element 25 Totals: \$0.00</b>	<b>\$17,608.00</b>
43	ROUGHNECK CONCRETE DRILLING	<a href="#">539025-14</a>	1 SENIOR OPERATOR UP TO 12 INCH DIA.	Purchases	\$476.00	\$0.00
43	ROUGHNECK CONCRETE DRILLING	<a href="#">539025-14</a>	1 SENIOR OPERATOR UP TO 12 INCH DIA.	Invoices	(\$476.00)	\$476.00
43	ROUGHNECK CONCRETE DRILLING	<a href="#">539025-14</a>	1 SENIOR OPERATOR UP TO 12 INCH DIA.	Invoices	(\$476.00)	\$476.00
43		<a href="#">540762</a>		Invoices	(\$1,498.00)	\$1,498.00
43 Payables Purchase Invoices		<a href="#">540762</a>		Overbilled/Unmatched Amt	\$1,498.00	\$0.00
					<b>Cost Element 43 Totals: (\$476.00)</b>	<b>\$2,450.00</b>
4L	ESTATE OF DANIEL L WHITTAKER, DBA	<a href="#">549703</a>	1 MI-31, PROJECT # 6-6- 44	Purchases	\$2,527,150.00	\$0.00
4L MassAllocation Allocation			AIP - PO	GL	\$2,527,150.00	\$0.00
4L MassAllocation Allocation			AIP- REQS	GL	\$0.00	\$0.00

4L	MassAllocation Allocation		AIP- REQS	GL	\$0.00	\$0.00
4L	MassAllocation Allocation		AIP - PO	GL	(\$2,527,150.00)	\$0.00
<b>Cost Element 4L Totals:</b>					<b>\$2,527,150.00</b>	<b>\$0.00</b>
63	ARLINGTON ELECTRICAL CONST CO	<a href="#">545187-119</a>	5 GENERAL FOREMAN	Invoices	(\$160.84)	\$160.84
63	ARLINGTON ELECTRICAL CONST CO	<a href="#">545187-119</a>	8 FOREMAN	Invoices	(\$560.72)	\$560.72
63	ARLINGTON ELECTRICAL CONST CO	<a href="#">545187-119</a>	11 JOURNEYMAN	Purchases	\$514.24	\$0.00
63	ARLINGTON ELECTRICAL CONST CO	<a href="#">545187-119</a>	11 JOURNEYMAN	Invoices	(\$1,028.48)	\$1,028.48
63	ARLINGTON ELECTRICAL CONST CO	<a href="#">545187-119</a>	11 JOURNEYMAN	Invoices	(\$514.24)	\$514.24
63	ARLINGTON ELECTRICAL CONST CO	<a href="#">545187-126</a>	1 T&M MATERIAL	Purchases	\$1,721.15	\$0.00
63	ARLINGTON ELECTRICAL CONST CO	<a href="#">545187-126</a>	1 T&M MATERIAL	Invoices	(\$4,000.00)	\$4,000.00
63	ARLINGTON ELECTRICAL CONST CO	<a href="#">545187-126</a>	1 T&M MATERIAL	Invoices	(\$1,721.15)	\$1,721.15
<b>Cost Element 63 Totals:</b>					<b>(\$5,750.04)</b>	<b>\$7,985.43</b>
81	MassAllocation Allocation		G&A RATE APPLD TO AR/PLT	GL	\$0.00	\$3,306.14
<b>Cost Element 81 Totals:</b>					<b>\$0.00</b>	<b>\$3,306.14</b>
8L	MassAllocation Allocation		CSS RATE APPLIED TO AR/PL	GL	\$0.00	\$3,442.71
<b>Cost Element 8L Totals:</b>					<b>\$0.00</b>	<b>\$3,442.71</b>
8P	MassAllocation Allocation		MSA RATE APPLIED TO AR/PL	GL	\$0.00	\$573.95
<b>Cost Element 8P Totals:</b>					<b>\$0.00</b>	<b>\$573.95</b>

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# Work Package Cost Query 1.0

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FERMILAB WORK PACKAGE COST REPORT FOR: HYM

PERIOD END:FEB-03

**RUN DATE: 03/20/2003**

Cost Elements/Description	<-Current Fiscal Year ->			Total Cost To Date	Open Commitments	Total Cost & Commitments To Date
	Prior Fiscal Year Costs	Cur. Mon. Costs	F-Y-T-D Total			
<b>Details for work package: 5HYM</b>						
1D VAC EARNED ALLOC-MONTHLY	1257.79	72.10	-586.39	671.40	0.00	671.40
1E VAC EARNED ALLOC-WEEKLY	481.71	0.00	-392.77	88.94	0.00	88.94
1F OPTO ALLOC-MONTHLY	762.90	42.61	-346.50	416.40	0.00	416.40
1G OPTO ALLOC-WEEKLY	387.32	0.00	-321.36	65.96	0.00	65.96
1V INTRA-DIV FRINGE	3771.28	0.00	0.00	3771.28	0.00	3771.28
1W INTRA-DIV CHARGE-MONTHLY	9646.07	655.49	-5330.81	4315.26	0.00	4315.26
1Y INTRA-DIV CHARGE-WEEKLY	3586.50	0.00	-3570.57	15.93	0.00	15.93
20 FRINGE BENEFITS	0.00	231.06	-3164.52	-3164.52	0.00	-3164.52
25 CONSTRUCTION ENGINEERING	34624.00	17608.00	58930.00	93554.00	0.00	93554.00
2FW LABOR XFR-FES-WEEKLY	0.00	0.00	104.09	104.09	0.00	104.09
2V INTER-DIV FRINGE	0.00	0.00	37.47	37.47	0.00	37.47
2VW INTER-DIV VAC - WEEKLY	0.00	0.00	11.45	11.45	0.00	11.45
2XW INTER-DIV OPTO - WEEKLY	0.00	0.00	9.37	9.37	0.00	9.37
41 MATERIAL PURCHASES	0.00	0.00	0.00	0.00	20357.00	20357.00
43 SUB-CONTRACT SERVICES	69937.48	2450.00	25544.00	95481.48	324.00	95805.48
4L CIVIL CONSTRUCTION EXEMPT	0.00	0.00	0.00	0.00	2527150.00	2527150.00
63 T&M ELECTRICAL SERVICES	0.00	7985.43	12966.11	12966.11	4211.84	17177.95
64 T&M CONSTRUCTION SVCS.	0.00	0.00	5415.25	5415.25	0.00	5415.25
81 G&A DISTRIBUTION	12216.15	3306.14	10011.60	22227.75	0.00	22227.75
8L CSS ALLOCATION	9886.54	3442.71	8395.20	18281.74	0.00	18281.74
8P MSA ALLOCATION	5559.12	573.95	2415.90	7975.02	0.00	7975.02
B2 BUDGET- 1YB MATERIALS & SERVICES	0.00	0.00	0.00	0.00	0.00	0.00
BA BUDGET- 2ZA SALARIES & FRINGES	0.00	0.00	0.00	0.00	0.00	0.00
BP BUDGET- 2ZP G&A ALLOCATION	0.00	0.00	0.00	0.00	0.00	0.00
REQUISITION ENCUMBRANCE					\$13,000.00	\$13,000.00
5HYM TOTALS:	\$152,116.86	\$36,367.49	\$110,127.52	\$262,244.38	\$2,565,042.84	\$2,827,287.22

REQ ENCUMBRANCE - ALL WKPs					\$13,000.00	\$13,000.00
TOTAL ALL WKP W/ENC:	\$152,116.86	\$36,367.49	\$110,127.52	\$262,244.38	\$2,565,042.84	\$2,827,287.22
TOTAL DIST TO ACCTS. REC.:	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

TOTAL FOR ALL WORK PACKAGES: \$152,116.86 \$36,367.49 \$110,127.52 \$262,244.38 \$2,565,042.84 \$2,827,287.22

## MI-31 Engineering Change List

ECP #	Description	Date Issued from CMO	Anticipated Credit, Extra or No Cost	Associated <del>Block</del> Number	Actual Credit, Extra or No Cost	Associated Payment Milestone
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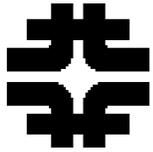
**Project Impacts:**

Anticipated Subcontract Increase/Decrease =  
 Actual Subcontract Increase/Decrease =

Cost	Schedule
<b>\$20,000</b>	<b>0 Days</b>
<b>\$0</b>	<b>0 Days</b>

based on all pending and accepted ECPs  
 based on all accepted ECPS





# Fermilab

MI-31 Project  
Construction Management Office

March 12, 2003

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MEMO TO: Ron Cypret, MI-31 Procurement Administrator  
FROM: Jeff Sims, MI-31 Construction Manager  
SUBJECT: **Engineering Change Proposal #1**  
**Holeless elevator instead of single cylinder elevator and add pit ladder**

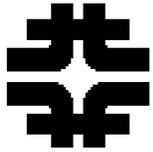
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Please request a proposal from Whittaker Excavating for the following changes to the current Subcontract #549703:

- Delete the requirement for an under the car single cylinder hydraulic equipment lift as shown on the plans and as specified in section 14240. Requirements of section 14240 not pertaining to the requirements of the single cylinder under the car lift still apply.
- Add a holeless type hydraulic lift, model ME15000 by Schindler or equal.
- Revise the masonry wall around the equipment lift and the concrete lift pit in accordance with the attached sketches SK-1a through SK-1l.
- Delete the cast in place concrete roof slab above the equipment lift area.
- Add a steel access ladder to the pit area as outlined in the attached sketches.

Please request the proposal be submitted to us in writing no later than March, 28, 2003. Whittaker should indicate what payment milestone ECP-1 would impact so we understand when this work would occur and how they would be paid if an additional cost is anticipated.

CC: Sergei Nagaitsev, Jerry Leibfritz, Ed Crumpley, Joe Collins, Paul Lahn, Ron Foutch, Gary Clack,  
Project File #6-6-44



# Fermilab

MI-31 Project  
Construction Management Office

March 12, 2003

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MEMO TO: Ron Cypret, MI-31 Procurement Administrator

FROM: Jeff Sims, MI-31 Construction Manager

SUBJECT: **Engineering Change Proposal #2  
Watermain valve clarifications/ modifications and installation of flushing hydrants.**

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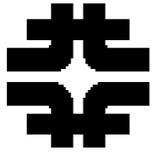
Please request a proposal from Whittaker Excavating for the following changes to the current Subcontract #549703:

- Delete two combination valves (station 15+94 and station 24+99, sheets C-6 and C-7) and remove one 2" terminal blow off valve (station 48+38, sheet C-8). Remove the requirements of detail 7 on sheet C-10.
- Install three new flushing hydrants including associated gate valve, pipe, fittings and associated appurtenances. The flushing hydrants are to be located at station 15+94, 24+99, and 48+ 40 in accordance with the attached SK-2. These hydrants replace the need for the two combination valves and 2" blow off removed above.
- Remove the eastern most in-line isolation valve shown on sheet C-3.

Note: In-line isolation valves in accordance with detail 8 on C-10 are required at stations 14+95, 15+ 90, 24+94, 48+30 as indicated on the plans. A 3" tapping valve shall be installed on the 4"x4"x3" tapping sleeve at sta. 120+12 for the hot tap to the existing main.

Please request the proposal be submitted to us in writing no later than March, 28, 2003. Whittaker should indicate what payment milestone ECP-2 would impact so we understand when this work would occur and how they would be paid if an additional cost is anticipated.

CC: Sergei Nagaitsev, Jerry Leibfritz, Ed Crumpley, Joe Collins, Paul Lahn, Ron Foutch, Gary Clack, Jack Furlong, Project File #6-6-44



# Fermilab

MI-31 Project  
Construction Management Office

March 12, 2003

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MEMO TO: Ron Cypret, MI-31 Procurement Administrator  
FROM: Jeff Sims, MI-31 Construction Manager  
SUBJECT: **Engineering Change Proposal #3**  
**Reduce shut down schedule from 6 weeks to 5 weeks**

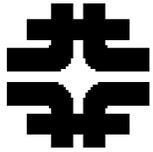
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Please request a proposal from Whittaker Excavating for the following changes to the current Subcontract #549703:

- Reduce the duration of Milestone 5 from 45 calendar days (as outlined in Addendum A section 7.3a) to 35 calendar days. Our intention is to reduce the time required to complete the Phase 3 work during the shutdown period so the MI-31 construction is not on the shutdown critical path. We anticipate this may require a combination of early strength concrete, concrete shoring and possibly overtime work. Please provide a brief description of your plan to increase resources for this work with your proposal.
- This request does not affect any other milestone durations or the projected completion date.
- The requirements of section 54 of the Addendum to Exhibit D are not affected by this request. An additional \$20,000 in compensation will be paid to the Subcontractor if the Phase 3 / Milestone 5 work is completed within the 45 day window as outlined in the contract documents.

Please request the proposal be submitted to us in writing no later than March, 28, 2003. Whittaker should indicate what payment milestone ECP-3 would impact so we understand when this work would occur and how they would be paid if an additional cost is anticipated.

CC: Sergei Nagaitsev, Jerry Leibfritz, Ed Crumpley, Joe Collins, Paul Lahn, Ron Foutch, Gary Clack, Project File #6-6-44



# Fermilab

MI-31 Project  
Construction Management Office

March 12, 2003

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MEMO TO: Ron Cypret, MI-31 Procurement Administrator

FROM: Jeff Sims, MI-31 Construction Manager

SUBJECT: **Engineering Change Proposal #4**  
**Earth retention changes – including bottom of soldier piles to elevation 698**  
**and shielding distance of 18.4 feet.**

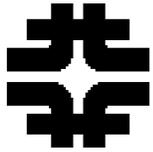
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Please request a proposal from Whittaker Excavating for the following changes to the current Subcontract #549703:

- Due to a recent geologic survey of the MI-31 area it has been determined that the installation of soldier piles may extend to an elevation of 698 instead of the 705 elevation referred to on sheet C-4 of the bid documents. Nothing shall penetrate below elevation 698.
- 18.4 feet of earth shielding shall be maintained during phase 1 and phase 2 excavation. The bid plans referred to 18.2 feet of earth shielding.
- See the attached sketch SK-4 for additional clarification.

Please request the proposal be submitted to us in writing no later than March, 28, 2003. Whittaker should indicate what payment milestone ECP-4 would impact so we understand when this work would occur and how they would be paid if an additional cost is anticipated.

CC: Sergei Nagaitsev, Jerry Leibfritz, Ed Crumpley, Joe Collins, Paul Lahn, Ron Foutch, Gary Clack, Mike Gerardi, Project File #6-6-44



# Fermilab

**MI-31 Project**  
**Construction Management Office**

March 21, 2003

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MEMO TO: Ron Cypret, MI-31 Procurement Administrator  
FROM: Jeff Sims, MI-31 Construction Manager  
SUBJECT: **Engineering Change Proposal #5**  
**Temporary MI Bulkhead Door**

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Please request a proposal from Whittaker Excavating for the following changes to the current Subcontract #549703:

- Fabrication and installation of an aluminum bulkhead door on the inside face of the Main Injector (MI). See the attached sketch SK-5 for details. It is our intention to have the Subcontractor install this door soon after the sawcut and removal of the MI precast wall to protect the MI enclosure from flooding.

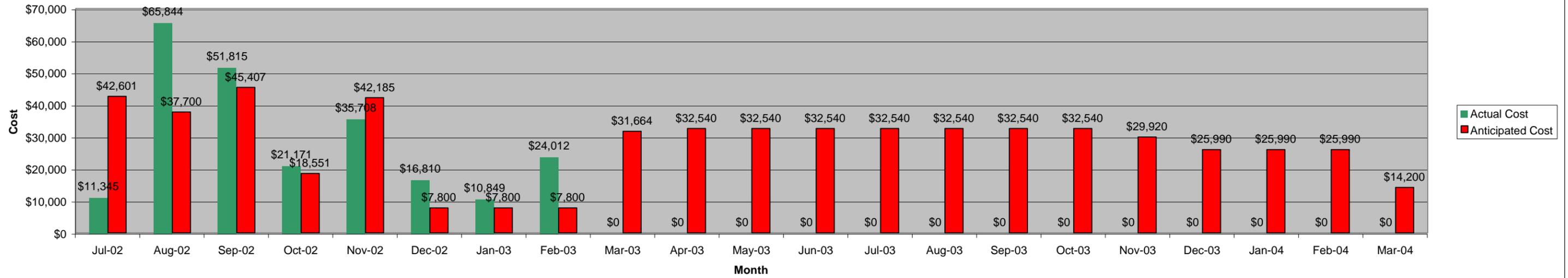
Please request the proposal be submitted to us in writing no later than April 4, 2003. Whittaker should indicate what payment milestone ECP-5 would impact so we understand when this work would occur and how they would be paid if an additional cost is anticipated.

CC: Sergei Nagaitsev, Jerry Leibfritz, Ed Crumpley, Joe Collins, Paul Lahn, Ron Foutch, Gary Clack,  
Project File #6-6-44

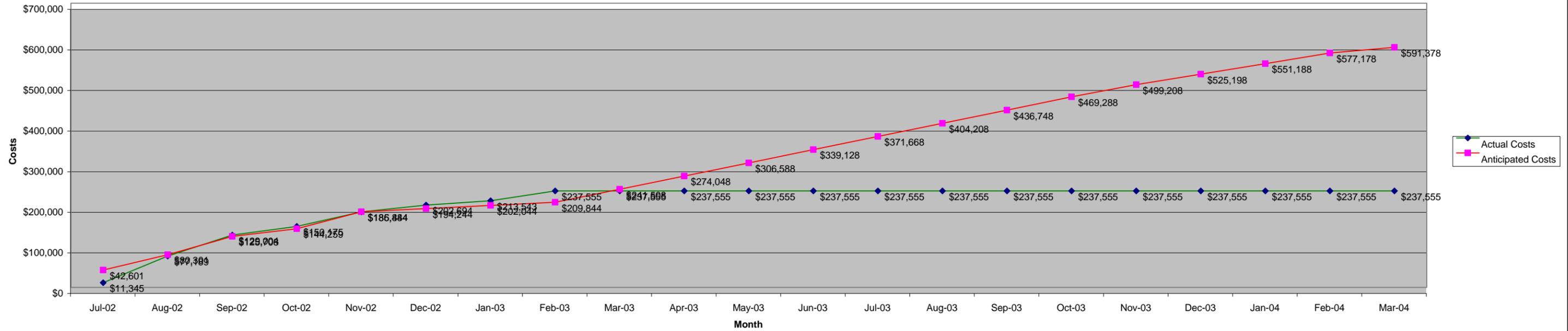




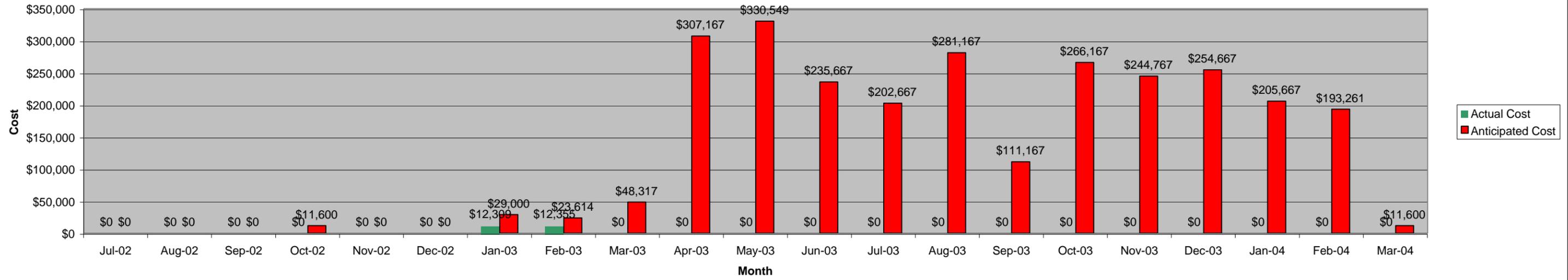
WBS 1.2 Monthly



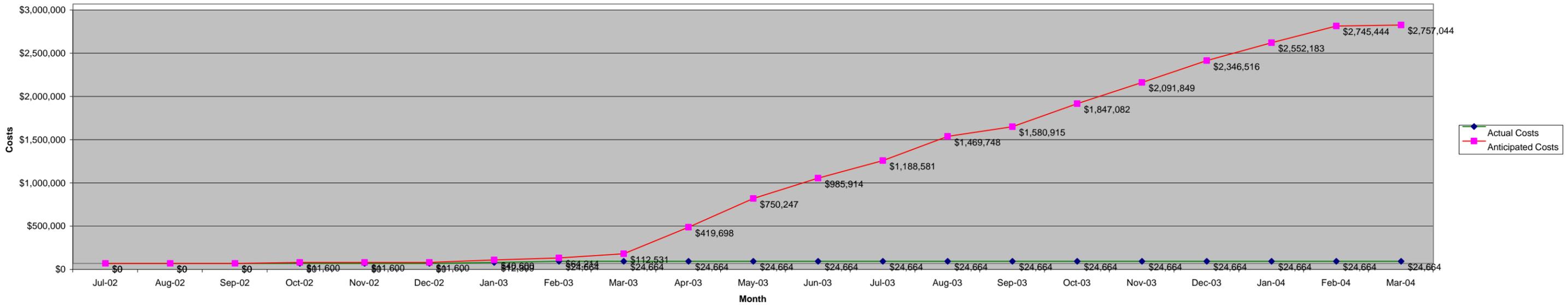
WBS 1.2 Cumulative



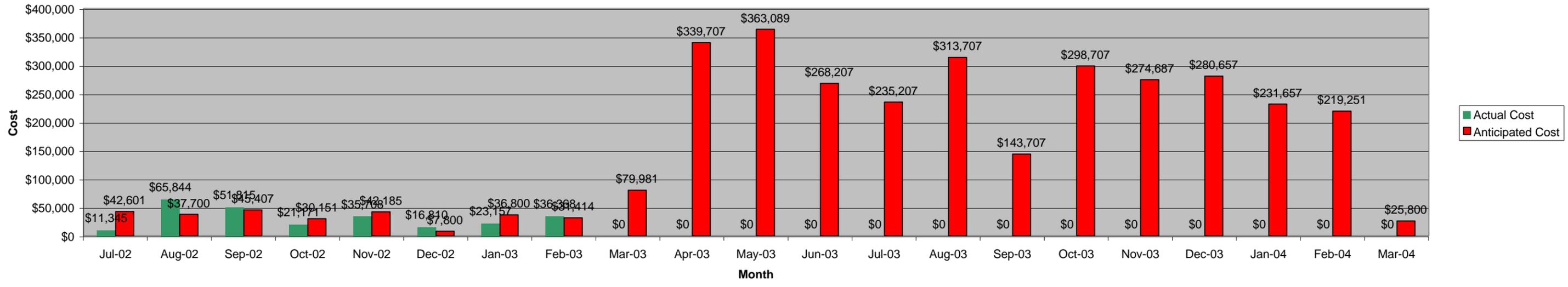
**WBS 1.1 Monthly**



**WBS 1.1 Cumulative**



TPC Monthly



TPC Cumulative

