



Fermilab

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Beams Division/Electron Cooling

July 31, 2003

MEMO TO: Distribution

FROM: Jerry Leibfritz
Deputy Project Manager

**SUBJECT: JUNE MONTHLY REPORT
MI-31
FESS/Engineering Project No. 6-6-44**

Please find attached the June 2003 monthly report for this project.

Enclosure

Distribution:

- P. Philp/MS 118
- M. Witherell/MS 105
- K. Stanfield/ MS 105
- S. Holmes/MS 105
- E. Temple/ MS 200
- J. Brown/MS 200
- H. Dick/ MS 306
- D. Carlson/MS 211
- C. Trimby/MS 212
- D. Nevin/MS 214
- E. Crumpley/MS 214
- S. Nagaitsev/ MS 307
- J. Sims/MS 214
- T. Prosapio/MS 214
- J. Spalding/MS 341
- R. Stefanski/MS 122
- Project File 6-6-44
- Chrono File

REPORTING PERIOD: June 2003

I. PROGRESS

1.1 General Construction

- a. Activity – Primary work activities included excavation, directional drilling of DWS water line and base slab construction.
- b. Cumulative hours worked – approximately 3044 hours through 6/30/03.
- c. Subcontractor's schedule evaluation – As of 06/30/03 the Subcontractor was approximately two weeks behind schedule. A letter requesting the Subcontractors corrective action plan to get back on schedule was mailed in early July. The Subcontractor's first payment update occurred on June 12 including Payment milestones 1A and 1B. The cost loaded schedule including supplemental agreement number 2 engineering changes was approved on 6/16/03. Since information contained on the Subcontractors cost loaded schedule may be considered sensitive and or proprietary to the Subcontractor we are not including it herein. To review the Subcontractors cost loaded schedule please contact the Project Manager of Construction Manager. See attached earned value reports and section II of this report for an earned value analysis.
- d. Engineering Change Proposals/ Requests – See latest ECP list on Website. Supplemental Agreement numbers 1, 2 and 3 have been incorporated into the Subcontract. At this time the total subcontract amount is \$2,581,306 and the completion date is 03/24/04.
- e. Upcoming issues –Wall Construction, DWS line installation.
- f. Photographs:







1.2 Project Support

- a. Month of May was spent on review of submittals, field supervision and construction administration related activities.

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 – Switch work	27 Jun 03	21 Nov 02	17 Jan 03 (actual)
Construction Complete	Final acceptance of all work	9 Jun 04	9 Dec 03	24 Mar 04
Project Complete	Project closed	30 Nov 04	10 Dec 03	24 Apr 04

II. Overall Project Cost Summary and Earned Value Analysis:

		ORIGINAL BASELINE PROJECT COSTS (2001 dollars)	Latest Estimated Cost*
1.1	General Construction	\$ 3,047,000	\$ 3,130,948
1.1.1	Construction W / 18 % OHP	\$ 2,323,000	\$ 2,708,973
1.1.2	Construction Contingency 22%	\$ 511,000	\$ 319,748 12%
1.1.3	Construction G & A	\$ 83,000	\$ 102,227
1.1.4	Escalation (4.6 %) 4.6%	\$ 130,000	\$ 0
1.2	Project Support	\$ 763,000	\$ 679,031
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
Total Project Cost		\$ 3,810,000	\$ 3,810,000

*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. Includes Supplemental Agreements 1, 2 and 3.

TPC Earned Value Analysis as of June 30, 2003 (based on earned value reports for June 2003):

1. The Schedule Variance is \$+106,750 indicating that we are behind schedule as stated above in 1.1c.
2. The Cost Variance is \$+3842 indicating that we are slightly over spending. This is primarily due to minor WBS 1.2 cost overruns that are anticipated decrease over the next few months.



ATTACHMENTS

See MI-31 website

<http://www-ap.fnal.gov/ecool/internal.html>

for the following:

TSR Report for 6-03

Earned Value Reports - Cost Reports and Graphs up to 6-03

Engineering Change Proposal List

More Photographs

Task Summary Report by Expenditure Type ("TSR")

Period End: JUN-03

Report on tasks: 1 1

A0201 - MI31 Ecooling Bldg

1 - MI31 Ecooling Bldg
Service Type: PL-EXST PRGM
SUPP-AIP

	Curr Month Costs	Curr YTD Costs	Curr YTD Obligations	Inception to Date Obligations	Inception to Date Costs	Reqs. in Process	Open Commitments
<u>Personnel Costs</u>							
FRINGE BENEFITS	209.82	-2,167.00	-2,167.00	1,604.28	1,604.28	0.00	0.00
OPTO ALLOC-MONTHLY	49.75	-209.01	-209.01	553.89	553.89	0.00	0.00
OPTO ALLOC-WEEKLY	0.00	-321.36	-321.36	65.96	65.96	0.00	0.00
OVERTIME	0.00	104.09	104.09	104.09	104.09	0.00	0.00
TIME WORKED -MONTHLY	585.26	-2,459.12	-2,459.12	7,186.95	7,186.95	0.00	0.00
TIME WORKED -WEEKLY	0.00	-3,570.57	-3,570.57	15.93	15.93	0.00	0.00
VAC EARNED ALLOC-MONTHLY	64.38	-270.50	-270.50	987.29	987.29	0.00	0.00
VAC EARNED ALLOC-WEEKLY	0.00	-392.77	-392.77	88.94	88.94	0.00	0.00
Personnel Costs	909.21	-9,286.24	-9,286.24	10,607.33	10,607.33	0.00	0.00

Materials & Services

CIVIL CONSTRUCTION	0.00	0.00	4,610.00	4,610.00	0.00	0.00	4,610.00
CONSTRUCTION ENGINEERING	21,016.00	132,770.00	132,770.00	167,394.00	167,394.00	0.00	0.00
EXEMPT - CIVIL CONSTRUCTION	399,141.00	399,141.00	2,576,696.00	2,576,696.00	399,141.00	733.00	2,177,555.00
MATERIAL PURCHASES	0.00	20,370.11	20,370.11	20,370.11	20,370.11	0.00	0.00
PHOTO/GRAPHIC SERVICES	34.00	34.00	34.00	34.00	34.00	0.00	0.00
SUB-CONTRACT SERVICES	2,118.75	28,836.75	38,657.75	108,595.23	98,774.23	0.00	9,821.00
T&M CONSTRUCTION SVCS.	0.00	5,481.32	5,481.32	5,481.32	5,481.32	0.00	0.00
T&M ELECTRICAL SERVICES	0.00	12,966.11	12,966.11	12,966.11	12,966.11	0.00	0.00

1 - MI31 Ecooling Bldg
Service Type: PL-EXST PRGM
SUPP-AIP

	Curr Month Costs	Curr YTD Costs	Curr YTD Obligations	Inception to Date Obligations	Inception to Date Costs	Reqs. in Process	Open Commitments
Materials & Services	422,309.75	599,599.29	2,791,585.29	2,896,146.77	704,160.77	733.00	2,191,986.00
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<u>Indirect Cost</u>							
CSS ALLOCATION	4,056.17	22,844.53	22,844.53	32,731.07	32,731.07	0.00	0.00
G&A ALLOCATION	50,003.40	50,003.41	50,003.41	62,219.56	62,219.56	0.00	0.00
G&A ALLOCATION-CSS PORTION	2,598.14	14,632.84	14,632.84	14,632.84	14,632.84	0.00	0.00
G&A ALLOCATION-M&S PORTION	2,973.53	9,887.52	9,887.52	9,887.52	9,887.52	0.00	0.00
MSA ALLOCATION	27,616.54	31,221.01	31,221.01	36,780.13	36,780.13	0.00	0.00
Indirect Cost	87,247.78	128,589.31	128,589.31	156,251.12	156,251.12	0.00	0.00
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1 - MI31 Ecooling Bldg SUBTOTAL:	510,466.74	718,902.36	2,910,888.36	3,063,005.22	871,019.22	733.00	2,191,986.00
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DIST. TO ACCOUNTS REC'BL:	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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UNDISTRIBUTED BALANCE:	510,466.74	718,902.36	2,910,888.36	3,063,005.22	871,019.22	733.00	2,191,986.00
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<u>REPORT TOTALS</u>							
TOTAL PROJECT/TASK:	510,466.74	718,902.36	2,910,888.36	3,063,005.22	871,019.22	733.00	2,191,986.00
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TOTAL DIST. ACCTS REC'BL:	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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TOTAL UNDIST BALANCE:	510,466.74	718,902.36	2,910,888.36	3,063,005.22	871,019.22	733.00	2,191,986.00

