

ISN 92239  
PDA BK 108



## CONSTRUCTION MANAGEMENT CONSULTING CONTRACT

### In Support of Telecommunications IV

USAID Contract Number  
263-0177-C-00-2216-00

### Quarterly Report No. 6

1st Quarter, 1994

*Overseas Bechtel, Incorporated* - Job 22083  
and its subcontractor *Teleconsult, Inc.*  
World Trade Center, 18th Floor  
Cairo, Beaulac, Egypt



22083-S112-USAID- 182

Eng. Reem Gohar  
Project Officer  
USAID  
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May 9, 1994

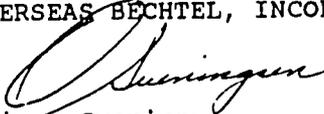
Dear Eng. Gohar,

**USAID CMC Contract No. 263-0177-C-00-2216-00**  
**Quarterly Report No. 6**

This Quarterly Report summarizes progress for CMC Services, Digital Switching Systems (DSS) and Outside Plant (OSP) host country contracts. The Project is estimated to be 67% complete. ATTI successfully completed all Digital Switching Provisional Acceptances on April 14, 1994. The OSP Contract is approximately 6% complete and scheduled to be completed in March, 1995.

Cost and Commitment Reports, Quarterly Cash Flow Reports, and Change Order Summaries are included with Section III, Progress Statistics. Detailed information is contained in the Monthly Progress Reports.

Sincerely,  
OVERSEAS BECHTEL, INCORPORATED

  
Oliver Sweningsen  
Project Manager

OS/ar

Distribution:

USAID Contracting Officer - 1 copy  
Eng. Fatein Mahmoud, USAID - 1 copy  
ARENTO - 10 copies

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# I EXECUTIVE SUMMARY

## Summary Description of Project

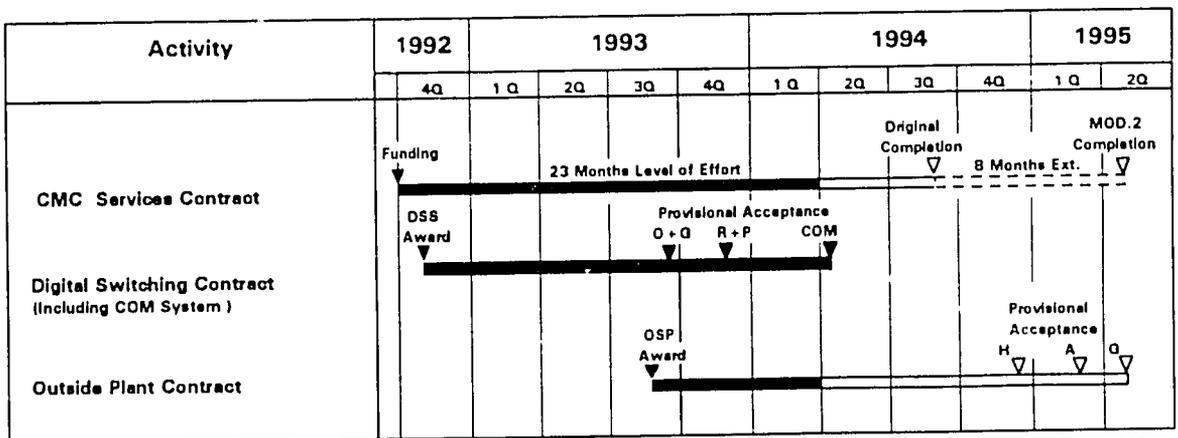
The United States Agency for International Development (USAID) is assisting the Government of Egypt with the expansion of the Cairo telecommunications network under USAID Project No. 263-0177, Telecommunications IV.

Overseas Bechtel, Incorporated (OBI or Bechtel) is contracted with USAID-Egypt to provide construction management and consulting services to the Arab Republic of Egypt National Telecommunications Organization (ARENTO). Bechtel and its subcontractor, Teleconsult, will provide technical advice, support and assistance to ARENTO in the administration of two turnkey contracts that replace and expand central office switching equipment with Digital Switching Systems (DSS), add a Centralized Operations and Management (COM) system and expand the Outside Plant (OSP).

This phase of Telecommunications IV includes:

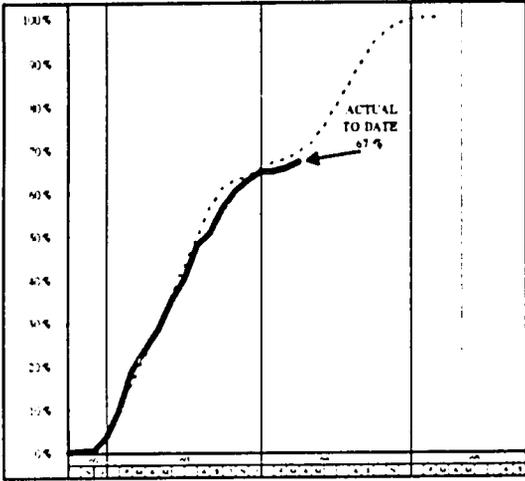
- Four new 20,000 line AT&T #5ESS digital switching systems to be located in existing ARENTO central office facilities at the Ramsis, Opera, Pyramids and Giza exchanges.
- A centralized operations and maintenance system to monitor and control the network switching nodes.
- Outside plant upgrades at the Heliopolis, Giza and Auto exchange areas.
- Additional commissioning and training support for the COM System.

## Executive Summary Schedule

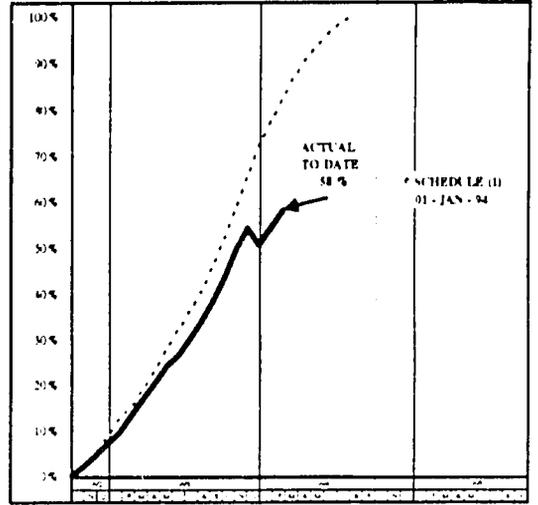


# II EXECUTIVE SUMMARY

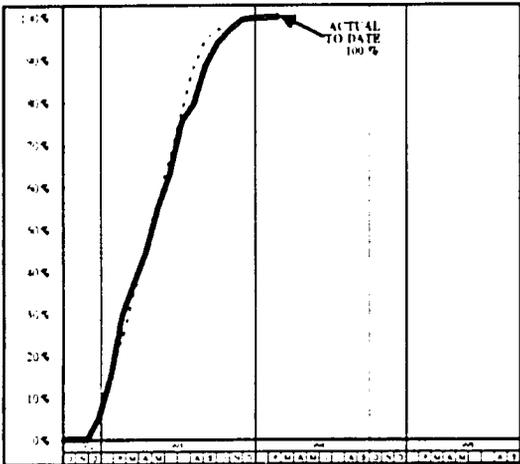
## Summary Curves



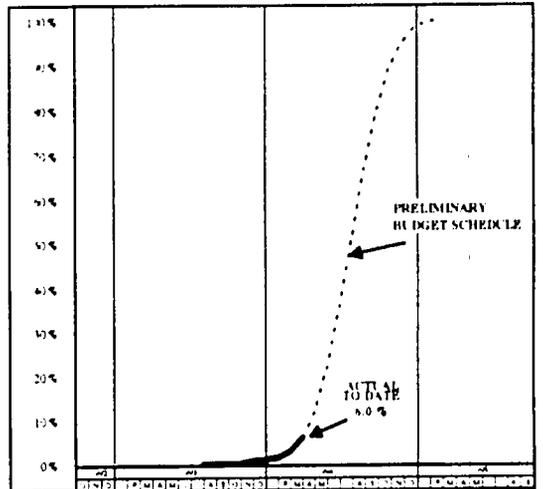
Total Project



Consulting Services



Digital Switching



Outside Plant

# I EXECUTIVE SUMMARY

## Progress Highlights

### GENERAL

Bechtel and its subcontractor Teleconsult began work on the Construction Management Consulting Contract (CMC) on October 1, 1992. Under its contract with USAID, Bechtel works with ARENTO, as their agent, to administer two host country construction contracts prepared and awarded by ARENTO for the digital switching systems and the outside plant networks funded under the USAID Telecommunications IV Project (263-0177) grant. The tasks performed under this contract were originally scheduled to be completed within 23 months, with a level of effort staffing. A schedule extension is being processed to cover the OSP Contract period.

### WORK STATUS

Consulting Services were estimated to be 58% complete against the revised plan which includes Modifications 1 & 2. Bechtel and Teleconsult had a total equivalent staff of six expatriates and fifteen nationals.

- Staffing forecasts reflect a March, 1995 completion date for outside plant work as proposed in Modification 1 and 2.
- During this quarter, Bechtel, ARENTO and ATTI met regularly to solve OSP planning issues, complete contractual deliverables and coordinate engineering and construction activities in OSP exchanges. Current Management Issues are discussed in the Monthly Progress Report for March.
- Training Plan was approved in February. Bechtel is working with ATTI to complete Quality, Testing and Documentation Plans.

### DSS CONTRACT

- DSS Contract is complete. At Pyramid Exchange, the 4000 line remote switch matrix transfer was completed on January 13th and the last Provisional Acceptance certificate was issued on February 13, 1994.
- A Memorandum of Understanding has been drafted to summarize the responsibilities for Final Acceptance. The four digital switches are now under ATTI maintenance.

# I EXECUTIVE SUMMARY

## Progress Highlights

### COM SYSTEM

- COM System installation was successfully completed in March. Provisional Acceptance testing started March 21st and was finished on April 14, 1994.
- During March the Consultant provided commissioning assistance to ARENTO COM Center staff and data collection support for the Network Study.
- ARENTO and Consultant conducted a USAID walk-through of Alexandria COM Center and supported preparations for an ARENTO demonstration of the System's operational capabilities. Technical support activities will conclude on April 14, 1994.

### OSP CONTRACT

- The OSP Contract is in its 9th month, and is approximately 2 months behind schedule. Progress at Heliopolis and Auto was estimated to be 8.2% and 9.1% complete respectively; ATTI has been requested to recover schedule slippage.
- Civil subcontracts were approved by USAID for all three OSP exchanges. Kajima began work in Heliopolis and Amoun began work in Alexandria.
- Amended System Plan Drawings were approved for Auto Exchange in January, approximately 3 months later than originally scheduled. Design and its integration issues have delayed completion of preliminary engineering for Giza. A coordinated plan for the new network and integration with the existing cable plant is being prepared by ATTI.
- Bechtel completed the draft "OSP Field Engineers Manual" and began work on the related training modules. The training plan and budgets are being developed with ARENTO's Chief of Sectors for OSP Planning and Projects.
- Revised Bills of Quantities were submitted in March and used to prepare the Cost Trend Report. The OSP Contract Cost Trend is under the budget, with a value of \$9,631,000 and L.E. 9,937,000. This trend excludes design allowances and contingencies.

## II WORK STATUS

### DSS Contract

#### GENERAL

Contract No. 10/92/21 between ARENTO and AT&T International, Inc. (ATTI) was signed on October 15, 1992 and became effective on November 3, 1992. The contract requires ATTI to design, furnish, install and maintain AT&T #5ESS digital electronic central office switches on a turnkey basis. The Centralized Operations and Maintenance (COM) System effective date was May 24, 1993.

#### FINANCIAL:

- Amendment No. 1 for miscellaneous contract adjustments and Amendment No. 2 for the COM System with costs of \$3,925,014 and LE 419,598 were processed. The revised budget for the DSS Contract scope managed by Bechtel is \$24,683,250 and LE 1,942,083. See Exhibit 3.1, DSS Cost and Commitment Report.
- This period, \$ 487,798 and LE 760,670 were expended; to date totals are \$17,890,545 and LE 1,505,132. (See Exhibit 4.1)

#### SCHEDULE:

- The DSS Contract has been successfully completed and the four AT&T switches are now under maintenance. Final Acceptance is expected in December, 1994.
- At Pyramid exchange, the cutover for the 4K addition was completed on January 13th and the Provisional Acceptance certificate was issued on February 13th, 1994.
- The COM System installation is complete and Provisional Acceptance was finalized on April 14, 1994.
- Advanced MFOS training for ARENTO engineers started on January 9th, 1994 and was completed on February 16th, 1994.
- Commissioning assistance to ARENTO's COM Center Staff will complete in April.

## II WORK STATUS

### OSP Contract

#### GENERAL

Contract No. 7/92/30 between ARENTO and AT&T International, Inc. was signed on July 15, 1993 and became effective on July 21, 1993. The schedule duration is 600 days.

The Outside Plant Contract is for 23,700 lines in Heliopolis, 18,600 lines in Auto, and 30,900 lines in Giza.

#### FINANCIAL:

- The total contract value is \$10,000,000 financed by USAID and LE 10,528,854 financed by ARENTO. On the basis of revised quantities, the OSP Contract has a value of \$ 9,631,000 and LE 9,937,000, excluding design allowances. See Exhibit 3.2, OSP Cost and Commitment Report.
- Payment vouchers that total \$1,466,120 and L.E. 1,922,541 have been processed to date. The OSP Cash Flow is shown in Exhibit 4.2.

#### SCHEDULE:

- The OSP Contract was estimated to be 6% complete through March. Implementation Plan Schedules for Auto and Giza exchanges have not been completed by the Contractor.
- Progress at Heliopolis and Auto was estimated to be 8.2% and 9.1% respectively; at Giza, ATTI is performing site investigations and system planning activities.
- Auto Amended System Plan Drawings were approved at the end of January.
- Giza Amended System Plan Drawings are under review.
- Kajima and Amoun subcontracts were approved by USAID and civil work was initiated at the Heliopolis and Auto Exchanges.
- The Training Plan was approved in February. Quality and Documentation Plans are under review.
- The Outside Plant field engineers Manual prepared by Bechtel was issued in March.

### III      PROGRESS STATISTICS

Exhibit 1.1, DSS Progress Curve  
Exhibit 1.2, OSP Progress Curve (future)

Exhibit 2.1, DSS Contract Manpower Histogram  
Exhibit 2.2, OSP Contract Manpower Histogram (future)

Exhibit 3.1, DSS Cost & Commitment Report  
Exhibit 3.2, OSP Cost & Commitment Report

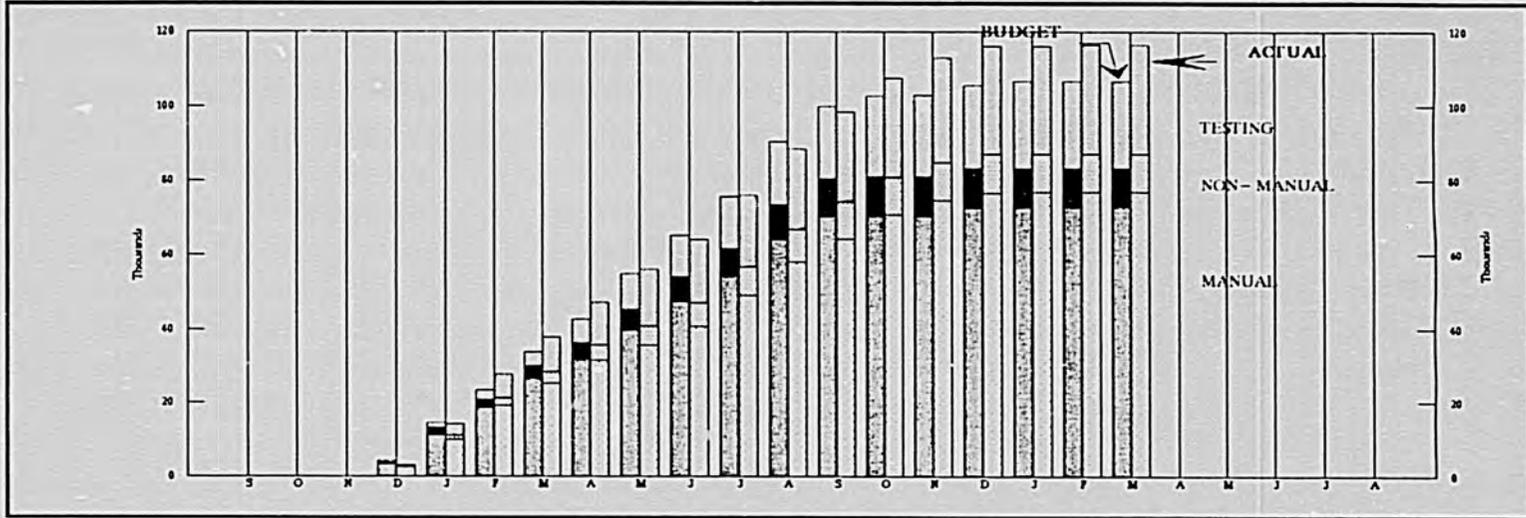
Exhibit 4.1, DSS Quarterly Cash Flow  
Exhibit 4.2, OSP Quarterly Cash Flow

Exhibit 5.1, DSS Change Order Summary  
Exhibit 5.2, OSP Change Order Summary

Exhibit 6.0, OSP Milestone Summary Schedule



**CONSTRUCTION MANAGEMENT CONSULTING CONTRACT  
DSS MANPOWER HISTOGRAM (Exhibit 2.1)  
DSS CONTRACT  
March, 1994**



Description	1992				1993												1994					Total To Date						
	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M		J	J	A			
Budget Manual	Monthly				3458	8164	7053	8098	5072	7908	7714	6652	10114	6220	457	32	1864	169										72,975
	Cumulative	0	0	0	3458	11,622	18,675	26,773	31,845	39,753	47,467	54,119	64,233	70,453	70,910	70,942	72,806	72,975	72,975	72,975	72,975	72,975	72,975	72,975	72,975	72,975	72,975	
Non-Manual	Monthly				433	1024	884	1040	885	1199	1060	1021	1475	958	286	7	253	72										10,597
	Cumulative	0	0	0	433	1,457	2,341	3,381	4,266	5,465	6,525	7,546	9,021	9,979	10,265	10,272	10,525	10,597	10,597	10,597	10,597	10,597	10,597	10,597	10,597	10,597		
Testing	Monthly				452	1065	920	1282	2915	2882	1932	2635	3215	2413	2141	225	523	685	152									23,437
	Cumulative	0	0	0	452	1,517	2,437	3,719	6,634	9,516	11,448	14,083	17,298	19,711	21,852	22,077	22,600	23,285	23,437	23,437	23,437	23,437	23,437	23,437	23,437	23,437		
Actual Manual	Monthly				2742	7269	9076	6124	6240	4129	5046	8464	6740	6419	6505	3891	1970	93	2	0								76,710
	Cumulative	0	0	0	2742	10,011	19,087	25,211	31,451	35,580	40,626	49,090	57,830	64,249	70,754	74,645	76,615	76,710	76,710	76,710	76,710	76,710	76,710	76,710	76,710	76,710		
Non-Manual	Monthly				884	1024	884	1075	885	1199	1060	1021	1483	1021	286	44	210	76	5	2								10,501
	Cumulative	0	0	0	884	1,908	2,792	3,867	4,752	5,951	7,011	8,032	9,415	10,436	10,722	10,932	11,201	11,277	11,353	11,403	11,453	11,503	11,553	11,603	11,653	11,703		
Testing	Monthly				263	2,825	3,554	2,795	2,202	3,250	2,218	2,497	2,355	2,626	2,393	1,480	766	67	46	10								29,367
	Cumulative	0	0	0	263	3,108	6,662	9,457	11,659	14,909	17,127	19,624	21,979	24,605	26,998	28,478	29,244	29,311	29,357	29,367	29,367	29,367	29,367	29,367	29,367	29,367		

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**CONSTRUCTION MANAGEMENT CONSULTING CONTRACT**  
**COST AND COMMITMENT REPORT (Exhibit 3.1)**  
**D.S.S. CONTRACT**  
 March, 1994

Item No.	General Description of Supplies and / or Services	Budget (Contractual Obligation)		Cost			
		U.S. Dollars	Egyptian Pounds	This Period		Total ITD	
				U.S. Dollars	Egyptian Pounds	U.S. Dollars	Egyptian Pounds
<b>1.</b>	<b>GIZA EXCHANGE</b>						
1.1	Switching Equipment - 24,000 Lines	\$3,485,462	74,000	\$0	14,800	\$2,775,986	74,000
1.2	MDF	\$237,048	0	\$0	0	\$189,638	0
1.3	Power System	\$111,791	0	\$0	0	\$89,433	0
1.4	Standby Power System	\$289,639	24,900	\$0	4,980	\$231,711	24,900
1.5	HVAC System	\$78,930	0	\$0	4,461	\$63,144	4,461
1.6	Fire Detection System	\$0	22,304	\$0	0	\$0	17,843
1.7	Security System	\$28,550	0	\$0	0	\$22,840	0
1.8	Raised Floor and Partitions	Included	0	\$0	0	\$0	0
1.9	Documentation / Documentation Office	\$6,990	3,000	\$0	609	\$1,398	3,000
1.10	Insurance and Transportation to Site	Included	0	\$0	0	\$0	0
1.11	Installation and Testing for Cutover and Provisional Acceptance	\$472,446	280,961	\$0	56,192	\$377,957	280,962
1.12	Spare Parts and Consumables - CIF	\$338,627	0	\$0	0	\$270,902	0
1.13	Tools and Equipment - CIF	\$10,995	0	\$0	0	\$9,072	0
1.14	Insurance and Transportation	Included	0	\$0	0	\$0	0
1.15	Maintenance Personnel	No Charge	0	\$0	0	\$0	0
1.16	Testing	\$6,689	0	\$0	0	\$0	0
<b>1.</b>	<b>GIZA EXCHANGE Total</b>	<b>\$5,067,167</b>	<b>405,165</b>	<b>\$0</b>	<b>81,033</b>	<b>\$4,032,080</b>	<b>405,166</b>
<b>2.</b>	<b>RAMSIS EXCHANGE</b>						
2.1	Switching Equipment - 20,000 Lines	\$3,428,956	78,000	\$0	15,600	\$2,730,781	78,000
2.2	MDF	\$54,628	0	\$0	0	\$43,702	0
2.3	Power System	\$102,620	0	\$0	0	\$82,096	0
2.4	Standby Power System	\$334,500	26,700	\$0	5,340	\$267,600	26,700
2.5	HVAC System	\$53,218	0	\$0	0	\$42,574	0
2.6	Fire Detection System	\$0	22,304	\$0	4,461	\$0	22,304
2.7	Security System	\$28,550	0	\$0	0	\$22,840	0
2.8	Raised Floor and Partitions	Included	0	\$0	0	\$0	0
2.9	Documentation / Documentation Office	\$6,990	3,000	\$0	600	\$1,398	3,000
2.10	Insurance and Transportation to Site	Included	0	\$0	0	\$0	0
2.11	Installation and Testing for Cutover and Provisional Acceptance	\$440,533	122,268	\$0	24,454	\$352,426	122,268
2.12	Spare Parts and Consumables - CIF	\$343,023	0	\$0	0	\$277,630	0
2.13	Tools and Equipment - CIF	\$10,995	0	\$0	0	\$9,072	0
2.14	Insurance and Transportation	Included	0	\$0	0	\$0	0
2.15	Maintenance Personnel	No Charge	0	\$0	0	\$0	0
2.16	Testing	\$6,689	0	\$0	0	\$0	0
<b>2.</b>	<b>RAMSIS EXCHANGE Total</b>	<b>\$4,810,702</b>	<b>252,272</b>	<b>\$0</b>	<b>50,454</b>	<b>\$3,830,120</b>	<b>252,272</b>

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**CONSTRUCTION MANAGEMENT CONSULTING CONTRACT**  
**COST AND COMMITMENT REPORT (Exhibit 3.1 cont'd)**  
**D.S.S. CONTRACT**  
 March, 1994

Item No.	General Description of Supplies and / or Services	Budget (Contractual Obligation)		Cost			
				This Period		Total TFD	
		U.S. Dollars	Egyptian Pounds	U.S. Dollars	Egyptian Pounds	U.S. Dollars	Egyptian Pounds
<b>3.</b>	<b>OPERA EXCHANGE</b>						
3.1	Switching Equipment - 20,000 Lines	\$3,428,956	78,000	\$0	15,600	\$2,739,496	78,000
3.2	MDF	\$54,628	0	\$0	0	\$10,926	0
3.3	Power System	\$101,721	0	\$0	0	\$81,377	0
3.4	Standby Power System	\$456,100	31,000	\$0	6,200	\$364,880	31,000
3.5	HVAC System	\$53,218	0	\$0	0	\$42,574	0
3.6	Fire Detection System	\$0	22,304	\$0	4,461	\$0	22,304
3.7	Security System	\$28,550	0	\$0	0	\$22,840	0
3.8	Raised Floor and Partitions	Included	0	\$0	0	\$0	0
3.9	Documentation / Documentation Office	\$6,990	3,000	\$0	600	\$1,398	3,000
3.10	Insurance and Transportation to Site	Included	0	\$0	0	\$0	0
3.11	Installation and Testing for Cutover and Provisional Acceptance	\$457,078	122,268	\$0	24,454	\$365,662	122,268
3.12	Spare Parts and Consumables - CIF	\$344,510	0	\$0	0	\$275,608	0
3.13	Tools and Equipment - CIF	\$10,995	0	\$0	0	\$9,072	0
3.14	Insurance and Transportation	Included	0	\$0	0	\$0	0
3.15	Maintenance Personnel	No Charge	0	\$0	0	\$0	0
3.16	Testing	\$6,689	0	\$0	0	\$0	0
<b>3.</b>	<b>OPERA EXCHANGE Total</b>	<b>\$4,949,435</b>	<b>256,572</b>	<b>\$0</b>	<b>51,314</b>	<b>\$3,913,832</b>	<b>256,572</b>
<b>4.</b>	<b>PYRAMID EXCHANGE</b>						
4.1	Switching Equipment - 24,000 Lines plus RSM Host Equipment	\$3,888,228	78,400	\$0	6,2720	\$3,110,582	78,400
4.2	MDF	\$279,700	0	\$0	0	\$223,760	0
4.3	Power System	\$134,927	0	\$0	0	\$107,942	0
4.4	Standby Power System	\$289,639	24,900	\$0	21,810	\$57,928	24,900
4.5	HVAC System	\$53,218	0	\$0	0	\$42,574	0
4.6	Fire Detection System	\$0	22,304	\$0	17,843	\$0	22,304
4.7	Security System	\$28,550	0	\$0	0	\$6,675	0
4.8	Raised Floor and Partitions	Included	0	\$0	0	\$0	0
4.9	Documentation / Documentation Office	\$6,990	3,000	\$0	2,400	\$1,398	3,000
4.10	Insurance and Transportation to Site	Included	0	\$0	0	\$0	0
4.11	Installation and Testing for Cutover and Provisional Acceptance	\$515,976	323,466	\$0	84,101	\$381,823	323,466
4.12	Spare Parts and Consumables - CIF	\$382,167	0	\$0	0	\$284,679	0
4.13	Tools and Equipment - CIF	\$10,846	0	\$0	0	\$8,677	0
4.14	Insurance and Transportation	Included	0	\$0	0	\$0	0
4.15	Maintenance Personnel	No Charge	0	\$0	0	\$0	0
4.16	Testing	\$6,689	0	\$0	0	\$0	0
<b>4.</b>	<b>PYRAMID EXCHANGE Total</b>	<b>\$5,596,930</b>	<b>452,070</b>	<b>\$0</b>	<b>188,874</b>	<b>\$4,226,037</b>	<b>452,070</b>

**CONSTRUCTION MANAGEMENT CONSULTING CONTRACT**  
**COST AND COMMITMENT REPORT (Exhibit 3.1 cont'd)**  
**D.S.S. CONTRACT**  
 March, 1994

Item No.	General Description of Supplies and / or Services	Budget (Contractual Obligation)		Cost			
		U.S. Dollars	Egyptian Pounds	This Period		Total ITD	
				U.S. Dollars	Egyptian Pounds	U.S. Dollars	Egyptian Pounds
<b>5. COM SYSTEM</b>							
5.1	Software Right-to-use Licenses	\$1,945,126	0	\$194,510	0	\$1,246,580	0
5.2	MPOS, TFS and SDAD Equipment	\$797,527	0	\$0	0	\$79,753	0
5.3	DATAKIT Equipment	\$442,640	0	\$44,264	0	\$269,148	0
5.4	Modems for basic MPOS	\$89,917	0	\$0	0	\$8,992	0
5.5	USP	\$211,146	0	\$0	0	\$21,115	0
5.6	Standby Power System	\$0	0	\$0	0	\$5,338	0
5.7	HVAC Equipment	\$53,377	0	\$5,338	0	\$5,338	0
5.8	Fire Detection System	\$0	3,000	\$0	300	\$0	600
5.9	Security System	\$0	0	\$0	0	\$0	0
5.10	Raised Floor, Ceiling, Lighting And partitions	\$12,558	14,477	\$1,256	1,448	\$10,047	2,895
5.11	Documentation (2 sets)	included	included	\$0	0	\$0	0
5.12	Insurance and Transportation to Site	included	included	\$0	0	\$0	0
5.13	Engineering Installation and Testing for Cutover and Provisional Acceptance	\$93,304	80,300	\$0	8,030	\$57,315	57,357
5.14	Spare Parts (3 years) CIF	\$234,939	0	\$4,633	0	\$28,127	0
5.15	Tools and Test Equipment -- CIF	\$0	0	\$0	0	\$0	0
5.16	Insurance and Transportation	included	included	\$0	0	\$0	0
5.17	Maintenance Personnel--For One (1) Year after Provisional acceptance	Free of Charge	Free of Charge	\$0	0	\$0	0
5.18	Software Maintenance -- Untile Final Acceptance	Free of Charge	Free of Charge	\$0	0	\$0	0
5.19	Testing	included	included	\$0	0	\$0	0
5.20	Training Unix System V	\$64,614	0	\$0	0	\$0	0
5.21	Training SMS (2 classes)	\$71,916	0	\$0	0	\$0	0
5.22	Training TFS	\$27,529	0	\$0	0	\$0	0
5.23	Training SDAS	\$27,918	0	\$0	0	\$0	0
5.24	Training DATAKIT	\$45,390	0	\$0	0	\$0	0
5.25	Training 3B2 Maintenance	\$38,756	0	\$0	0	\$0	0
5.26	Price Adjustment for Training (Item 5.20 to 5.25)	(\$96,643)	321,821	\$0	0	\$0	0
5.27	Contract Price Reduction For Training (Item 5.20 to 5.25)	(\$35,000)	0	\$0	0	\$0	0
	<b>TOTAL FOR COM SYSTEM</b>	\$4,025,014	419,598	\$0	0	\$9	0
	One Time Price discount for the COM System	(\$100,000)	0	\$0	0	\$0	0
<b>5.</b>	<b>COM CENTER Total</b>	<b>\$3,925,014</b>	<b>419,598</b>	<b>\$250,000</b>	<b>9,778</b>	<b>\$1,731,751</b>	<b>60,853</b>
<b>6.</b>	<b>PROGRAM MANAGEMENT</b>	<b>\$334,002</b>	<b>156,406</b>	<b>\$0</b>	<b>4,812</b>	<b>\$156,724</b>	<b>78,200</b>
<b>7.</b>	<b>TRAINING PROGRAM</b>	To be determined		<b>\$0</b>	<b>0</b>	<b>\$0</b>	<b>0</b>
<b>TOTAL</b>		<b>\$24,683,250</b>	<b>1,942,083</b>	<b>\$250,000</b>	<b>380,266</b>	<b>\$17,890,545</b>	<b>1,505,132</b>

Note: Prices are as per Amendment #2 (COM center included)

**CONSTRUCTION MANAGEMENT CONSULTING CONTRACT**  
**COST AND COMMITMENT REPORT (Exhibit 3.2)**  
**O.S.P. CONTRACT**  
 March, 1994

III  
PROGRESS STATISTICS

Item	Description	Budget (Contractual Obligation)		Cost			
		U.S. Dollars	Egyptian Pounds	This Period		Total TTD	
				U.S. Dollars	Egyptian Pounds	U.S. Dollars	Egyptian Pounds
<b>HELIOPOLIS EXCHANGE</b>							
1.	Manholes, Handholes, and Vaults	550	6,840	\$0	0	\$83	1,026
2.	Conduit Systems	0	38,539	\$0	0	\$0	5,781
3.	Feeder Cable and Associated Equipment	1,338,358	209,076	\$0	0	\$200,754	31,361
4.	Distribution Segment	726,109	1,334,047	\$0	0	\$108,916	200,107
5.	Existing Plant	0	36,793	\$0	22,484	\$0	28,002
7.	Preliminary Engineering	0	0	\$0	0	\$0	0
9.	Documentation	5,500	24,153	\$0	0	\$825	3,623
10.	Maintenance	0	144,923	\$0	0	\$0	21,738
11.	Rock	0	0	\$0	0	\$0	0
12.	Extra Depth	0	0	\$0	0	\$0	0
13.	False Digging	0	0	\$0	0	\$0	0
14.	Extra Concrete	0	0	\$0	0	\$0	0
15.	Extra Reinforced Concrete	0	0	\$0	0	\$0	0
16.	Locking Manhole Cover	0	0	\$0	0	\$0	0
<b>HELIOPOLIS EXCHANGE TOTAL</b>		<b>\$2,070,522</b>	<b>1.E: 1,794,370</b>	<b>\$0</b>	<b>22,484</b>	<b>\$310,578</b>	<b>291,639</b>
<b>AUTO EXCHANGE</b>							
1.	Manholes, Handholes, and Vaults	5,105	77,635	\$0	0	\$766	11,645
2.	Conduit Systems	8,613	990,282	\$0	0	\$1,292	148,542
3.	Feeder Cable and Associated Equipment	935,599	191,151	\$0	0	\$140,340	28,673
4.	Distribution Segment	854,190	1,833,613	\$0	0	\$128,128	275,042
5.	Existing Plant	245,971	681,590	\$0	31,618	\$36,896	133,857
7.	Preliminary Engineering	0	243,443	\$0	186,234	\$0	222,750
9.	Documentation	5,500	24,153	\$0	0	\$825	3,623
10.	Maintenance	0	144,923	\$0	0	\$0	21,738
11.	Rock	0	0	\$0	0	\$0	0
12.	Extra Depth	0	0	\$0	0	\$0	0
13.	False Digging	0	0	\$0	0	\$0	0
14.	Extra Concrete	0	0	\$0	0	\$0	0
15.	Extra Reinforced Concrete	0	0	\$0	0	\$0	0
16.	Locking Manhole Cover	0	0	\$0	0	\$0	0
<b>AUTO EXCHANGE TOTAL</b>		<b>\$2,054,977</b>	<b>1.E: 4,186,789</b>	<b>\$0</b>	<b>217,852</b>	<b>\$308,247</b>	<b>845,871</b>

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**CONSTRUCTION MANAGEMENT CONSULTING CONTRACT**  
**COST AND COMMITMENT REPORT (Exhibit 3.2 cont'd)**  
**O.S.P. CONTRACT**  
 March, 1994

III  
PROGRESS STATISTICS

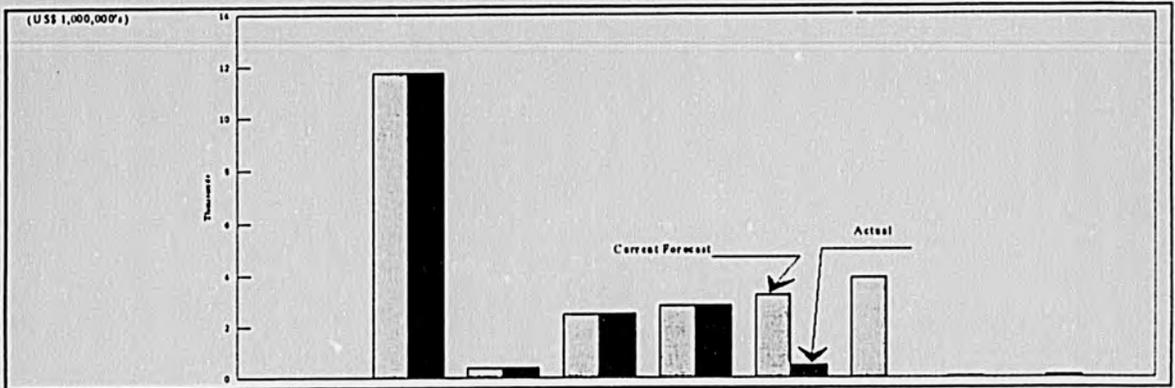
Item	Description	Budget (Contractual Obligation)		Cost			
		U.S. Dollars	Egyptian Pounds	This Period		Total TFD	
				U.S. Dollars	Egyptian Pounds	U.S. Dollars	Egyptian Pounds
<b>GIZA EXCHANGE</b>							
1.	Manholes, Handholes, and Vaults	20,009	246,240	\$0	0	\$3,001	36,936
2.	Conduit Systems	0	788,647	\$0	0	\$0	118,297
3.	Feeder Cable and Associated Equipment	1,382,521	344,844	\$0	0	\$207,378	51,727
4.	Distribution Segment	1,120,583	2,251,199	\$0	0	\$168,087	337,680
5.	Existing Plant	0	85,680	\$0	0	\$0	12,852
7.	Preliminary Engineering	0	304,304	\$0	0	\$0	45,646
9.	Documentation	5,500	24,153	\$0	0	\$825	3,623
10.	Maintenance	0	144,923	\$0	0	\$0	21,738
11.	Rock	0	0	\$0	0	\$0	0
12.	Extra Depth	0	0	\$0	0	\$0	0
13.	False Digging	0	0	\$0	0	\$0	0
14.	Extra Concrete	0	225	\$0	0	\$0	34
15.	Extra Reinforced Concrete	0	552	\$0	0	\$0	83
16.	Locking Manhole Cover	0	0	\$0	0	\$0	0
<b>GIZA EXCHANGE TOTAL</b>		<b>\$2,528,612</b>	<b>4,190,766</b>	<b>\$0</b>	<b>0</b>	<b>\$379,292</b>	<b>628,615</b>
<b>COMMON ITEMS</b>							
6.	Warehouse Inventory	0	0	\$0	0	\$0	0
8.	Training	491,387	0	\$0	0	\$73,708	0
9.4	Documentation Center (Ramsis)	11,000	24,153	\$0	0	\$1,650	3,623
17.	Program Management	2,617,636	1,332,777	\$0	0	\$392,645	199,916
18.	Price Discount	0	(1,000,000)	\$0	(47,123)	\$0	(47,123)
<b>COMMON ITEMS TOTAL</b>		<b>\$3,120,022</b>	<b>356,929</b>	<b>\$0</b>	<b>(47,123)</b>	<b>\$468,003</b>	<b>156,417</b>
<b>SUB-TOTAL OSP CONTRACT</b>		<b>\$9,774,134</b>	<b>10,528,854</b>	<b>\$0</b>	<b>193,213</b>	<b>\$1,466,120</b>	<b>1,922,541</b>
<b>CONTINGENCIES</b>		<b>\$225,866</b>	<b>0</b>				
<b>TOTAL OSP CONTRACT</b>		<b>\$10,000,000</b>	<b>10,528,854</b>	<b>\$0</b>	<b>193,213</b>	<b>\$1,466,120</b>	<b>1,922,541</b>

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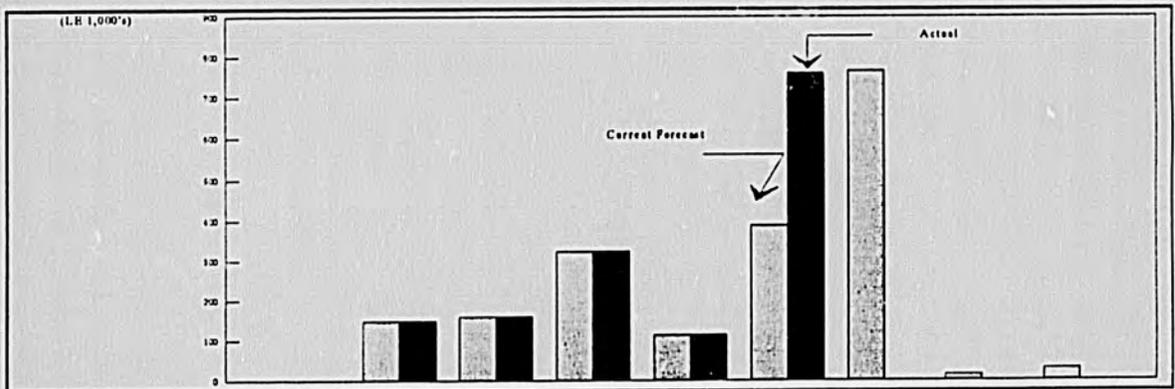
### III PROGRESS STATISTICS

#### CONSTRUCTION MANAGEMENT CONSULTING CONTRACT QUARTERLY CASH FLOW REPORT (Exhibit 4.1) DSS CONTRACT March, 1994



Description	1992		1993				1994				Total To Date
	4th. Quarter	1st. Quarter	2nd. Quarter	3rd. Quarter	4th. Quarter	1st. Quarter	2nd. Quarter	3rd. Quarter	4th. Quarter		
Budget	Quarterly	\$0	\$11,766	\$373	\$2,479	\$2,805	\$2,235	\$3,921	\$6	\$9	\$10,636
	Cumulative	\$0	\$11,766	\$12,119	\$14,598	\$17,403	\$20,638	\$24,559	\$24,564	\$24,563	\$17,403
Actual	Quarterly	\$0	\$11,766	\$373	\$2,479	\$2,805	\$488				\$17,403
	Cumulative	\$0	\$11,766	\$12,119	\$14,598	\$17,403	\$17,891				
			Actual				Forecast				

US Dollars Financed By USAID



Description	1992		1993				1994				Total To Date
	4th. Quarter	1st. Quarter	2nd. Quarter	3rd. Quarter	4th. Quarter	1st. Quarter	2nd. Quarter	3rd. Quarter	4th. Quarter		
Budget	Quarterly	0	150	159	323	113	348	764	15	30	1,132
	Cumulative	0	150	309	632	744	1,132	1,896	1,912	1,942	
Actual	Quarterly	0	150	159	323	113	761				1,503
	Cumulative	0	150	309	632	744	1,503				
			Actual				Forecast				

Egyptian Pounds Financed By ARENTO

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**CONSTRUCTION MANAGEMENT CONSULTING CONTRACT**  
**QUARTERLY CASH FLOW REPORT (Exhibit 4.1 cont'd)**  
**DSS CONTRACT**  
 As of March 31, 1994

Description / Duration		4th Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
		11/92 - 12/92	01/93 - 03/93	04/93 - 06/93	07/93 - 09/93	10/93 - 12/93	01/94 - 03/94	04/94 - 06/94	07/94 - 09/94	10/94 - 12/94
US Dollars Financed By USAID	F	\$0	\$11,746,185	\$372,607	\$2,479,309	\$2,804,647	\$3,235,158	\$3,920,795	\$45,668	\$78,881
	A	\$0	\$11,746,185	\$372,607	\$2,479,309	\$2,804,647	\$487,798			
Egyptian Pounds Financed By ARENTO	F	0	150,115	158,731	322,723	112,894	387,869	764,077	15,225	30,450
	A	0	150,115	158,731	322,723	112,894	760,670			

Description / Duration		Disbursement To Date	Balance To Go	Total Cost
US Dollars Financed By USAID	F	\$20,637,906	\$4,045,344	\$24,683,250
	A	\$17,890,546	\$0	\$17,890,546
Egyptian Pounds Financed By ARENTO	F	\$1,132,332	\$809,752	1,942,084
	A	\$1,505,133	\$0	1,505,133

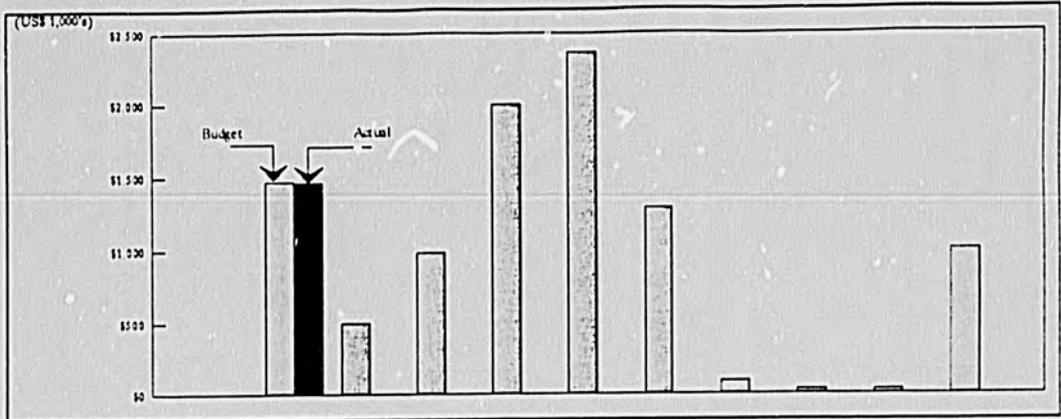
**NOTES:**

- (1) The COM center is incorporated in the current forecast
- (2) F = Current Forecast For Disbursement  
 A = Actual Disbursement



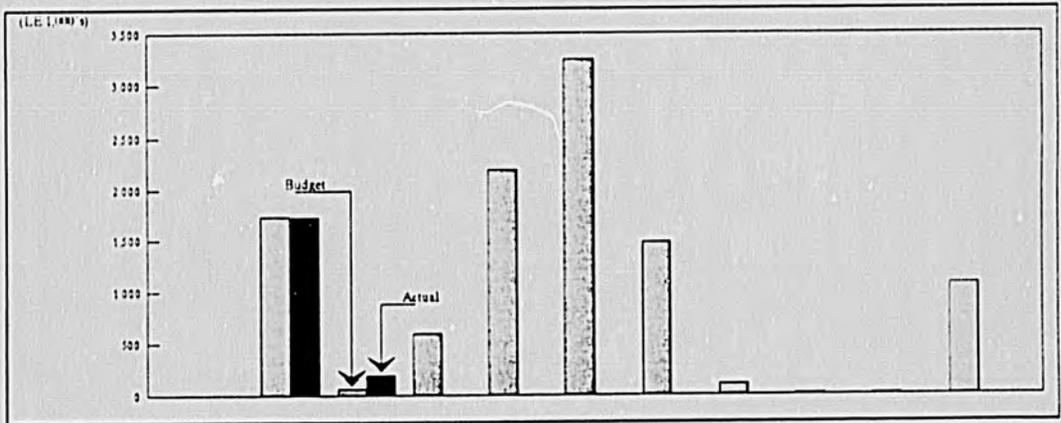
### III PROGRESS STATISTICS

#### CONSTRUCTION MANAGEMENT CONSULTING CONTRACT QUARTERLY CASH FLOW REPORT (Exhibit 4.2) OSP CONTRACT March, 1994



Description	1993		1994				1995				1996	Total To Date	
	3rd Quarter	4th Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	1st Quarter		
Budget	Quarterly	\$0	\$1,472	\$501	\$991	\$1,998	\$2,362	\$1,293	\$90	\$29	\$29	\$1,807	\$1,974
	Cumulative	\$0	\$1,472	\$1,974	\$2,964	\$4,963	\$7,325	\$8,618	\$8,708	\$8,738	\$8,767	\$9,574	
Actual	Quarterly	\$0	\$1,466	\$0									\$1,466
	Cumulative	\$0	\$1,466	\$1,466									

US Dollars Financed By USAID  
(US\$ 1,000's)



Description	1993		1994				1995				1996	Total To Date	
	3rd Quarter	4th Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	1st Quarter		
Budget	Quarterly	0	1,735	72	593	2,168	3,245	1,483	116	15	15	1,968	1,807
	Cumulative	0	1,735	1,807	2,400	4,568	7,833	9,315	9,431	9,446	9,461	10,529	
Actual	Quarterly	0	1,729	193									1,923
	Cumulative	0	1,729	1,923									

Egyptian Pounds Financed By ARENTO  
(LE 1,000's)

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CONSTRUCTION MANAGEMENT CONSULTING CONTRACT  
 QUARTERLY CASH FLOW REPORT (Exhibit 4.2 cont'd)  
 OSP CONTRACT  
 As of March 31, 1994

Description / Duration		3rd Quarter	4th Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	1st Quarter
		07/93 - 09/93	10/93 - 12/93	01/94 - 03/94	04/94 - 06/94	07/94 - 09/94	10/94 - 12/94	01/95 - 03/95	04/95 - 06/95	07/95 - 09/95	10/95 - 12/95	01/96 - 03/96
US Dollars Financed By	F											
USAID	A	\$0	\$1,472,332	\$501,397	\$990,621	\$1,998,346	\$2,362,359	\$1,293,403	\$89,918	\$29,448	\$29,448	\$1,006,862
Egyptian Pounds Financed By	F	0	1,734,711	72,120	593,033	2,187,855	3,244,820	1,482,794	115,654	14,994	14,994	1,067,880
ARENTO	A	0	1,729,328	193,213								

Description / Duration		Disbursement To Date	Balance To Go	Total Cost
US Dollars Financed By	F	\$1,973,729	\$7,800,405	\$9,774,134
USAID	A	\$1,466,120	\$0	\$1,466,120
Egyptian Pounds Financed By	F	\$1,606,831	8,722,024	10,528,855
ARENTO	A	1,922,541	0	1,922,541

NOTES:

- (1) F = Current Forecast for Disbursement
- (2) A = Actual Disbursement

**CONSTRUCTION MANAGEMENT CONSULTING CONTRACT  
AMENDMENT AND IMMEDIATE ACTION CHANGE ORDER (IACO) SUMMARY (Exhibit 5.1)  
DSS CONTRACT  
March, 1994**

AMENDMENT NO.	IACO NO.	C.A. NO.	DATE INITIATED BY ARENTIO/DBI	Note (2)	
				USD	LE
ORIGINAL CONTRACT	-	-	03-Nov-92	\$26,262,479	1,953,923
<b>APPROVED CHANGES :</b>					
AMENDMENT NO. 1	N/A	1	09-Feb-93	(\$153,826)	21,336
AMENDMENT NO. 2	N/A	2	24-May-93	\$3,925,014	419,598
SUB-TOTAL APPROVED CHANGES				\$3,771,188	440,934
TOTAL CONTRACT				\$30,033,667	2,394,857
<b>PENDING CHANGES :</b>					
N/A	N/A	N/A	N/A	\$0	0
SUB-TOTAL PENDING CHANGES				\$0	0

USAID GRANT NO. 263-0177 (EIE/COM IV)		USAID GRANT NO. 263-K-620 (CIP)		ARENTO FINANCED NOTE (1)	
USD	LE	USD	LE	USD	LE
\$20,868,108	0	\$4,707,743	0	\$686,628	1,953,923
(\$109,872)	0	\$0	0	(\$43,954)	21,336
\$2,500,000	0	\$0	0	\$1,425,014	419,598
\$2,390,128	0	\$0	0	\$1,381,060	440,934
\$23,258,236	0	\$4,707,743	0	\$2,067,688	2,394,857
\$0	0	\$0	0	\$0	0
\$0	0	\$0	0	\$0	0

**NOTES :**

- (1) ARENTIO financed local currency includes L.E. 452,775 for Auto exchange, plus L.E. 1,522,485 for Giza, Ramsis, Opera & Pyramids exchanges.
- (2) The total contract value of U.S.D. \$ 30,033,667 includes U.S.D. \$ 4,707,743 financed under USAID grant No.236-K-620 and U.S.D. \$ 2,067,688 financed by ARENTIO for Auto exchange & COM System

**CONSTRUCTION MANAGEMENT CONSULTING CONTRACT  
 AMENDMENT AND IMMEDIATE ACTION CHANGE ORDER (IACO) SUMMARY (Exhibit 5.2)  
 OSP CONTRACT  
 March, 1994**

AMENDMENT NO	IACO NO	C/A NO	DATE EXP. (1) BY ARENTIO	Net (1)		AMOUNT FINANCED BY USAID		AMOUNT FINANCED BY ARENTIO	
				USD	FF	USD	FF	USD	FF
ORIGINAL CONTRACT	-	-	22-Jul-93	\$9,774,134	10,528,854	\$10,000,000	0	\$0	10,528,854
<u>APPROVED CHANGES :</u> Amendment No 1			22-Dec-93 Note (2)	---	---	---	---	---	---
SUB-TOTAL APPROVED CHANGES				\$0	0	\$0	0	\$0	0
<b>TOTAL CONTRACT</b>				<b>\$9,774,134</b>	<b>10,528,854</b>	<b>\$10,000,000</b>	<b>0</b>	<b>\$0</b>	<b>10,528,854</b>
<u>PENDING CHANGES :</u> N/A	N/A	N/A	N/A	\$0	0	\$0	0	\$0	0
SUB-TOTAL PENDING CHANGES				\$0	0	\$0	0	\$0	0

**NOTES :**

- (1) Amount available for warehouse inventory and contingencies is \$ 225,866
- (2) Amendment No 1 incorporates changes in the wording of Clause 68 entitled "Transfer of Title to ARENTIO". Amendment No 1 has no cost impact.

ACTIVITY ID	ACTIVITY DESCRIPTION	EARLY START	EARLY FINISH	1994												1995												1996																			
				J				A				S				O				J				A				S				O				J				A				S			
				HELIOPLIS																																											
H010	CONTRACT EFFECTIVE DATE	21JUL93A																																													
H020	SUBMIT ASPDS		20AUG93A																																												
H030	RETURN APPROVED ASPDS		15NOV93A																																												
H050	ENGINEERING (EXCLUDING SPD & ASPD)	18OCT93A	20AUG94	[Bar]																																											
H070	COMPLETE TEST DIGS		5FEB94A																																												
H080	ALL MATERIALS IN SITE		30MAR94																																												
H100	INSTALLATION	23FEB94A	27DEC94	[Bar]																																											
H110	TESTING	4APR94	13JAN95	[Bar]																																											
H120	SUBMIT AS-BUILTS		27MAR95																																												
H130	START PROVISIONAL ACCEPTANCE	4APR95																																													
H150	FINAL ACCEPTANCE		3MAY96																																												
				GIZA																																											
G010	CONTRACT EFFECTIVE DATE	21JUL93A																																													
G015	SUBMIT SPDS		23FEB94A																																												
G017	RETURN APPROVED SPDS		6MAR94A																																												
G020	SUBMIT ASPDS		5APR94																																												
G030	RETURN APPROVED ASPDS		5MAY94																																												
G050	ENGINEERING (EXCLUDING SPD & ASPD)	21MAR94A	11JAN95	[Bar]																																											

 Activity Bar/Early Date  
 Critical Activity  
 Progress Bar  
 Target Date as of 21JUL93

Primavera Systems, Inc. 1988-1991

Project Start: 21JUL93  
 Project Finish: 14MAY96

ARENTO CONTRACT 7/92/30  
 USAID - EGYPT TELECOM 4  
 PRELIMINARY OSP MILESTONES

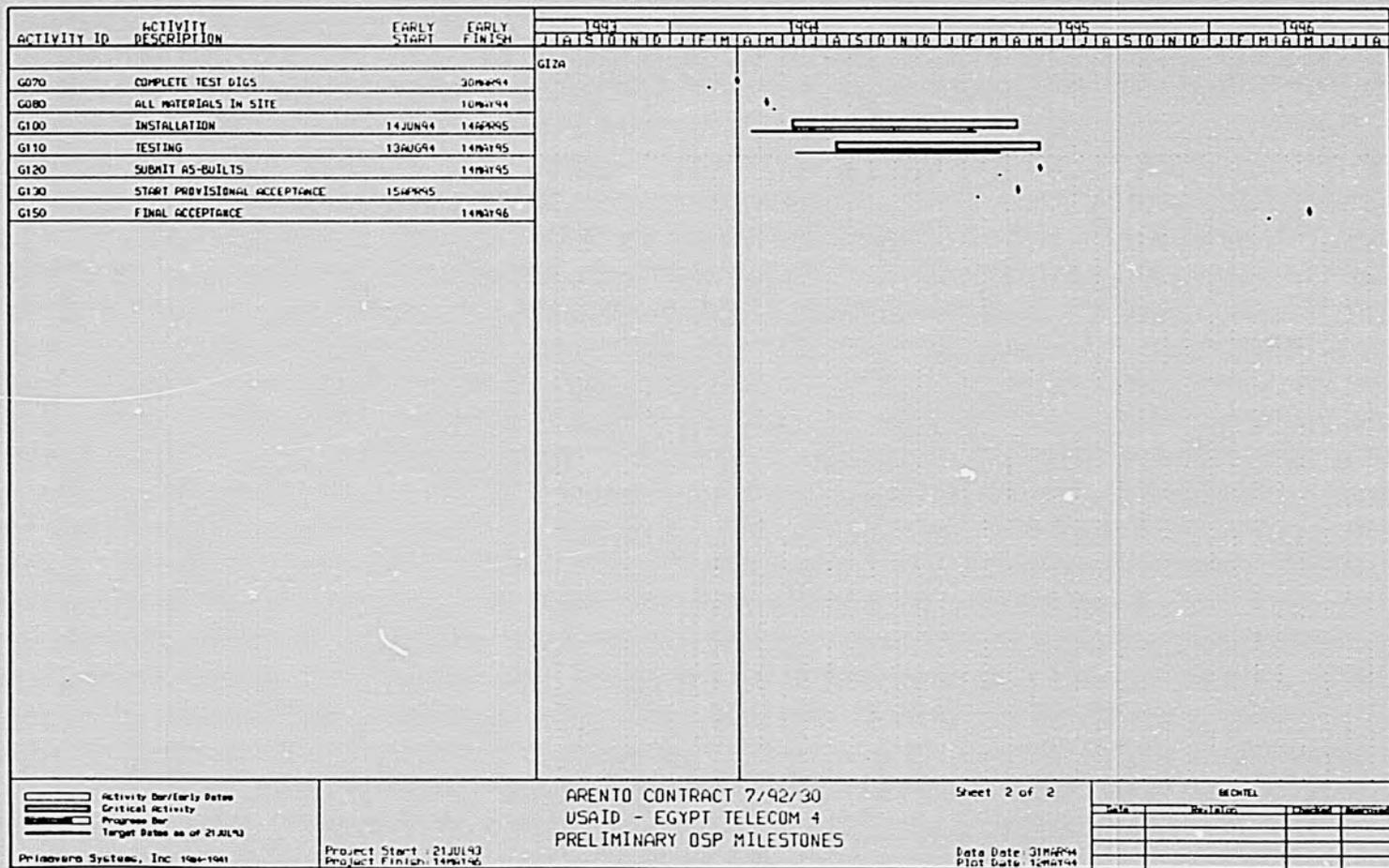
Sheet 1 of 2

Date Date: 31MAY94  
 Plot Date: 12MAY94

MCMTEL			
Date	Initials	Checked	Approved

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