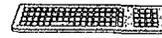


MAXIMUS



Hospital Management Information System (HMIS)



Prepared for:
U.S. Agency for International Development
Curative Care Organization, Egypt

Contract Number:
263-C-00-97-00072-00

QUARTERLY PROGRESS REPORT

Q1, 2000

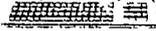
January 1 -- March 31, 2000

USAID Project Number: 263-0254-3-96052

[Develop a Detailed and Updated Management Information System for the
Cairo Curative Organization, Health Policy Support Program]

Prepared by:
MAXIMUS Inc.

Date:
April 26, 2000



April 26, 2000

Dr. Mohamed Saied
Director of Naser Institute
Cairo, Egypt

Dear Dr. Saied,

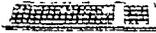
MAXIMUS is pleased to submit the First Quarter 2000 Quarterly Progress Report (QPR) for the Health Policy Sector Project (HPSP), Cairo Curative Organization Health Management Information System (CCO HMIS). This report covers the period January 1 through March 31, 2000. The contents of this report are based on the plan submitted in the Annual Implementation Plan 2000 (AIP 00). The plan submitted here makes modifications to that plan as requested by CCO. The modification included here are:

- o Reintroduction of the VISTA nursing module to the schedule – as CCO has requested nurse scheduling, administration, credentialing and care planning functions.
- o Replacement of the description of the dietary package to say 'meal tracking'.
- o Changing of the Test process to include the implementation of each module at one hospital first, followed by the other hospitals. The exceptions to this are for Surgery, Engineering, Lab and Dietary as these modules have few people who work in them and the hospitals requested that each training include some people from each hospital so one entire hospital does not have its department out at once.
- o Addition of the VISTA Patient Record Merging module to allow merging of accidental duplicate records.

We hope this report covers the changes requested by CCO from the AIP/QPR 4 '99. From this point forward in the project, it is the revised schedule presented in this QPR that will serve as the baseline for quarterly reporting. Should you have any questions about the content of this report or wish to discuss any issues mentioned, please feel free to contact me directly.

Sincerely,

Leslie Graham
Vice President



April 26, 2000

CCO Chairman
Curative Care Organization
Cairo, Egypt

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Sincerely,

Leslie Graham
Vice President



April 26, 2000

Sameh El Gayyar
USAID
Cairo, Egypt

Reference: Contract No. 263-C-00-97-00072-00

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Sincerely,

Leslie Graham
Vice President

1 NARRATIVE: OVERVIEW OF THE QUARTER

This is the First Quarter, 2000 Quarterly Progress Report (QPR) for the MAXIMUS CCO HMIS project. This report covers the period from January 1, 2000 through March 31, 2000. This report has as its basis the Annual Implementation Plan (AIP) for 2000, and offers an expansion upon that plan to meet additional requests of the CCO. In particular, this plan alters the following items from the AIP to address requirements of the CCO:

- o Inclusion of the VISTA nursing module in order to customize and arabize nurse scheduling, administration, credentialing and nurse care plans.
- o A change of wording from 'meal accounting' to 'meal tracking' to more closely reflect the actual functionality of the dietary module.
- o The addition of the VISTA Patient Record Merging module to allow (by system administrators) the merging of accidental duplicate records.

The resulting new schedule is shown in Appendix A. This will now serve as the baseline schedule for the project. Future QPR's will report progress based on this schedule.

1.1 Contract Modifications

This is a cost plus fixed fee, completion-type contract. A letter contract was signed by USAID and MAXIMUS on July 1, 1997 signaling the award of this contract. The definitized contract was signed January 7, 1998. At the same time USAID requested a cost proposal from MAXIMUS for the following changes:

- o substitution of Dar El Shefa and Red Crescent Hospitals for Naser Institute and Pyramids Hospitals;
- o substitution of the Veterans' Administration Health Information Systems Technology (VISTA) software package for the software solution proposed in the BAFO;
- o deletion from the contract of the Contractor's responsibility for communications line charges (later for all network communications expenses); and
- o addition of technical support for the installation of the VISTA software in Naser Institute. This technical support consists of implementation planning, system analysis and training assistance. The support does not include commodity procurement, telecommunications or site preparation.

These changes were incorporated into a new, amended contract which was signed in early 1999. This contract modification moved the contract end date to December 31, 2000 in order to accommodate the additional work. In February 2000, MAXIMUS submitted a request to USAID for a no-cost extension of the contract through August 2001. MAXIMUS also submitted a request for a contract modification to procure the needed operating system software for Naser Institute since IRM Washington had notified us that it would not be able to do these procurements as originally planned.

NOTE: This situation in which no one party is responsible for the overall implementation of Naser Institute has caused a number of delays on the project. MAXIMUS has expended more effort assisting IRM Washington on commodity procurements and site preparation for Naser Institute than we expended for the three hospitals in which this was a MAXIMUS responsibility. As a 'lessons learned' for future information technology projects, we recommend that all procurements be a part of the contract of the contractor with overall implementation responsibility.

1.2 Current Activities Including Subcontracting

MAXIMUS is the prime contractor for this project. Additionally, there are two contractors providing project support. ICL, as a subcontractor to MAXIMUS, provides the F&MAS software and implementation. Arabsoft, as a subcontractor to MAXIMUS, provides some technical staff - currently this is one Training Manager. All project activities are interrelated and supported by this MAXIMUS Project Team, in order to successfully fulfill the goals of the project.

During the period covered by this report the following significant activities or events occurred.

- o The ADT module was implemented at Heliopolis hospital. ADT is now available at all four hospitals.
- o The Surgery and Engineering Modules were installed at El Helal, Dar El Shefa and Heliopolis hospitals. Data loading is in progress.
- o The Laboratory module (phase I: clinical pathology) completed its customization and arabization and was demonstrated to CCO consultants and end-users.
- o Seven counterparts received all four Oracle courses to prepare them as Oracle system administrators for the F&MAS.
- o Phase I F&MAS modules were installed at Heliopolis hospital for testing with live data. Training was conducted for the Personnel module.
- o A likely solution to the printer justification problem was found; testing will begin in the hospitals in April.

1.3 Performance

The following sections review the activities in progress during this quarter and comment on the status of each. The main headings are tasks as shown in the AIP 2000. Only those tasks for which work was performed this quarter are discussed.

1.3.1 Project Orientation, Startup, Planning, Monitoring and Reporting (Task 1)

The Year 2000 Annual Implementation Plan (AIP '00) was provided during this quarter. The AIP shows the current project status and proposed schedule. As discussed in the AIP, the project is on budget but behind schedule. A no-cost extension through August 2001 was requested to rectify this problem.

Comments on AIP '00 were received from CCO in March 2000, with a meeting held to review these comments. The schedule presented in this QPR includes the additions mutually agreed to during that meeting.

1.3.2 Revise Existing Departmental Operations and Procedures Manuals (Task 2)

This activity - to review existing manuals for modifications due to the introduction of the automated systems - was to be a part of overall analysis conducted in 1999. However, existing manuals could not be provided and therefore the work could not be performed. Early this quarter, MAXIMUS issued a letter documenting that the Deliverable cannot be produced because no existing manuals had been provided.

1.3.3 Physical Site Preparation (Task 3)

Physical site preparation of Heliopolis, Dar El Shefa, and El Helal hospitals plus the CCO headquarters was completed early in the project. However, over time space use in the facilities has changed and additional ports were being requested for later system expansion. MAXIMUS agreed to perform one cabling rework, which took place during this quarter. This cabling rework is now complete at these facilities. Additional re-cabling will be the responsibility of the hospitals and CCO headquarters.

IRM Washington and SETA are managing the cabling of Naser Institute through a subcontract to ICL. This subcontract was signed during this quarter, but contains some discrepancies from the ICL proposal (according to information provided to MAXIMUS by ICL). It is unclear if the cabling has started or is being delayed by these discrepancies. However, because MAXIMUS is not a party to this contract, the COTR has requested that MAXIMUS be a passive participant in this activity providing input only as requested by and through the Naser Institute representative.

We continue to work with IRM to obtain replacements for the incorrect Supervisor Engines sent for the Cisco switches. We have been notified that the correct Engines have been ordered and will be delivered in April. ICL informs us that receipt of these correct Engines is critical to the completion of the Naser Institute network. As stated in the AIP 2000, completion of the Naser Institute network by June 1, 2000 is critical to the MAXIMUS schedule.

At Headquarters, power problems continued throughout the quarter. With summer approaching, the air-conditioning units in the project offices are still shut off by the CCO engineers. Power cuts affecting the computers and our ability to work occur regularly. A solution is promised by CCO during May.

1.3.4 Review HMIS Functional Design (Task 4) and Develop the HMIS Technical Design, Enhance and Finalize (Task 5)

The following sections discuss progress with the HMIS functional and technical design.

1.3.4.1 VISTA

ADT is now installed in all four hospitals (although on a temporary network in Naser Institute). The CCO consultants have reserved acceptance of this module since the print orientation on the reports is not correct and the data entry screens are too lengthy. David Naber focused on resolving the print orientation problem during March and the solution is now being tested in the hospitals. All indications are that this problem is now resolved, but we shall wait until the CCO consultants review the printed reports for a final conclusion. It was agreed that the consultants would sit with us to determine which data could be deleted from the ADT screens to shorten the patient registration process. We hope this will lead to the acceptance of the ADT module during the next quarter.

Engineering and Surgery were also installed during this quarter. Both modules require a significant amount of data loading (engineering in particular), but this was nearing completion at the close of the quarter. Early in the upcoming quarter, we shall demonstrate both systems again for the consultants so we might receive approval to move forward with full implementation at the sites.

The clinical pathology portion of the Laboratory package was also completed and reviewed with consultants and end-users during this quarter. Feedback has been incorporated. During the upcoming quarter, we shall demonstrate the modified system to the consultants so this system can also be implemented in the hospitals.

The Text Integration (clinical record) and Pharmacy modules both progressed immensely during the quarter. Both will be ready for demonstration to consultants and end users during the upcoming quarter.

1.3.4.2 F&MAS

Functional Designs for both Phase I and Phase II modules had been completed prior to this quarter, as were the Detailed Designs for Phase I modules. During this quarter, the Detailed Designs for Phase II modules were completed. Intensive testing for Phase I modules began. Testing was conducted first at the CCO headquarters by CCO finance staff both from headquarters and hospitals. Later in the quarter, the Phase I modules began testing in Heliopolis hospital using live data. This on-site testing of Phase I modules is scheduled for completion during the upcoming quarter. Phase II modules are currently undergoing testing at the CCO headquarters. On-site testing using live data will then begin.

1.3.5 Order and Deliver Hardware, Software and Telecommunications (Task 6)

All hardware ordered by MAXIMUS had been delivered prior to the start of this quarter. All servers had been installed, and workstations are being installed on an as-needed basis as the modules are rolled out. During this quarter, MAXIMUS focused on the following:

- o Follow-up with IRM Washington to get replacement Supervisor Engine IIs for the Cisco switches that IRM had procured last year. All switches were sent with Supervisor Engine Is. Without the Supervisor Engine IIs, only 24 ports could be made available in each hospital – preventing roll out of any software beyond ADT. MAXIMUS provided a temporary solution to this problem at Dar El Shefa, El Helal, Heliopolis and CCO headquarters by procuring hubs to extend the port capability to 56 ports in each facility until the Supervisor Engine IIs arrive. However, the same solution will not work for Naser Institute since the cabling type is different in that facility. Therefore the receipt of the replacement boards becomes ever more critical.
- o Follow-up with USAID for systems software for Naser Institute. IRM Washington was going to procure this systems software. However, it turned out to be very difficult to buy this software, much of which is from specific vendors, using their available procurement mechanisms. IRM requested that MAXIMUS buy the software instead. MAXIMUS submitted a request to USAID/Egypt to amend our contract, which specifically excludes Naser Institute commodity procurements, to allow this purchase.

The Final HMIS Installation Plan (Deliverable 8) was completed this quarter.

1.3.6 Coordinate and Install Hardware, System Software and Telecommunications (Task 7)

As of the start of this quarter, all servers had been installed and workstations and printers are being installed on an as-needed basis as the modules are rolled out. System software for Naser Institute has not been ordered by IRM Washington due to the lack of an appropriate procurement mechanism. MAXIMUS has requested a contract modification in order to procure this systems software.

Networking - the responsibility of Giza Systems under contract to IRM - is not complete. Giza is awaiting the delivery of the correct Supervisor Engine IIs. To prevent additional delays to the project, however, MAXIMUS procured hubs as temporary replacement to the Cisco switches. MAXIMUS performed all the networking activities..

Telecommunications lines from the hospitals to the CCO headquarters - in order to pass data and have access to the Internet - remains incomplete. Dar El Shefa, Heliopolis and El Helal hospitals had all contracted last year for telecommunications lines from their facilities to CCO headquarters. However, Egypt Telecomm had not verified or completed the connections. MAXIMUS assisted the CCO this quarter in getting Egypt Telecomm to complete these connections. Progress was made at Heliopolis and El Helal and headquarters. Dar El Shefa continues to have a problem.

Naser Institute has the choice of getting its own connection to an ISP for Internet service, or connecting to the CCO headquarters as well. Securing of a connection through either means is important for full use of the Knowledgebase.

1.3.7 Plan, Provide and Customize HMIS Software (Task 8)

As mentioned under Tasks 4 and 5, VISTA modules continue to be arabized and customized to meet CCO requirements. The ADT module has been running for over 5 months. During the upcoming quarter we shall work with the CCO to complete additional modifications that have come to light through use. This includes the deletion of some data entry screens and the addition of some reports and statistics.

Surgery, Engineering and Laboratory (clinical pathology component) have also completed the arabization and customization process. Also during the upcoming quarter we shall sit with CCO to determine what, if any, additional changes are necessary to these packages.

Both Pharmacy and Text Integration (clinical record) are nearing completion of arabization and customization. These will be the next modules to undergo testing and CCO review.

All modules of the F&MAS have been customized. Phase I modules are undergoing testing at Heliopolis hospital using live data. Phase II modules are undergoing

testing at CCO headquarters before moving to testing at a hospital. A significant number of software issues continue to be found in the modules so customization cannot be considered complete at this time. However, much progress is being made in the test environments.

1.3.8 Provide Complete System and User Documentation (Task 9)

Deliverable 12, Hardware/Software and Technical References, was produced and provided to the CCO during this quarter. This Deliverable included a list of the third party vendor documentation that resides in the project library for equipment procured with project funds. Copies of the documentation were included with the Deliverable for CCO and Naser Institute.

Components of Deliverable 13 were also produced during this quarter. Deliverable 13 has three components for each of the modules. These are the application training manual, the system user-training manual and the user documentation. In addition, management documentation is being produced as a part of Deliverable 13. During this quarter, the three components (application, system, user) were produced for ADT.

1.3.9 Plan and Conduct Training (Task 10)

Training is provided on applications (modules) and also to develop the technical skills necessary to operate and maintain the system. These are referred to as Applications and Systems training respectively.

For applications training during this quarter, classes were focused on:

- o PC basic skills,
- o ADT application of VISTA,
- o Surgery application of VISTA,
- o Engineering application of VISTA, and
- o Personnel application of F&MAS.

A total of 14 classes were given covering 1000 person days of training. An additional 592 days of on-the-job training was provided, and 65 individuals received basic orientations to the packages. Appendix B shows the detail for applications training in this quarter.

For systems training during this quarter, project counterparts participated in the customization of the engineering, laboratory and surgery modules, the analysis and coding for a VISTA patient billing system, and training on testing techniques and hardware trouble

shooting. In addition, 7 project counterparts attended four Oracle courses to prepare them for administration of the F&MAS system. Appendix B also contains the details for systems training during this quarter.

1.3.10 Hardware/Software Testing, Implementation and Maintenance (Task 11)

All the major hardware purchased by MAXIMUS was installed and tested during previous quarters. We continue to maintain this equipment. Some equipment remains under warranty, while other equipment has moved to a maintenance phase. For those items under maintenance, MAXIMUS arranges maintenance as needed, usually with NCR - the original equipment vendor.

There have been problems with equipment not purchased by MAXIMUS. Warranty information and maintenance for all equipment that was procured by IRM Washington has been difficult to obtain. After many months of effort, warranty information for the Cisco Catalyst switches and the IBM PC's procured by IRM for Naser Institute has been obtained. Unfortunately this leaves only about 2 months on the remaining warranties. However, this is sufficient to fix the one Cisco power supply that had broken and the two IBM PC's that arrived from the US in non-working order. There are apparently no provisions in place for the further maintenance of this equipment once the warranties expire.

Testing for both the VISTA and F&MAS modules is in progress. All modules - from either package - are tested first at CCO headquarters using test scenarios. Then the modules are moved to a hospital for further testing using 'live' data.

1.3.11 Conversion from Manual to Automated Systems (Task 12)

As modules complete their initial testing phase and move to a hospital for further testing, data conversion begins. This step, called data loading, differs by module. There are very few cases where data exists already in automated form. Therefore most data loading is from manual records.

During this quarter, data loading began for the engineering and surgery modules. Data loading consists of loading static files (code tables) and actual data. In the case of the engineering module, this is a large effort since the required data does not exist in one place.

1.3.12 Identify and Procure Departmental Protocols and Procedures (Task 15)

In September of 1999, MAXIMUS produced Deliverable 23, List of Available Protocol and Procedure Materials, Software, Etc. This Deliverable provided a broad range

of potential source material for the Knowledgebase. During this quarter, the February Steering Committee meeting was dedicated to a review of the Knowledgebase design and content options. A demonstration was given of the proposed user interface, and the content options were discussed. CCO requests and recommendations were consolidated into a list for procurement. CCO has requested additional time to review and modify this list. All parties are in general agreement and procurement should move ahead during the next quarter.

2 MAJOR ISSUES

This section reviews the major issues that arose during the quarter, as well as those that remain from previous quarters. Issues listed in this QPR as resolved will not appear in subsequent QPRs.

2.1 Hardware

The following issues arose relating to hardware.

2.1.1 Hardware Orders

Issue:

The CCO has determined that it needs 47 additional PCs at the hospitals (excluding any needs for additional PCs at Naser Institute). This need was discussed many months ago and USAID had indicated it might procure an additional 50 PCs for the CCO. However, now it appears that will not happen.

Proposed Resolution:

If at all possible, USAID could reconfirm its budget with IRM for these 50 PCs.

2.1.2 Printers

Issue:

Printers for Naser Institute have not been ordered yet by IRM Washington. These will be needed shortly when the cabling and networking at the hospital are completed.

Proposed Resolution:

USAID Egypt has proposed a local procurement of the printers - either through PIL monies directed through the CCO or directly through USAID. MAXIMUS supports these proposed solutions.

2.1.3 Network Hardware

Issue:

The problem with the Cisco switches not providing more than 24 ports has been defined. The problem is the switches were shipped with the wrong internal engines (Supervisor I instead of Supervisor II). IRM Washington and the firm responsible for this procurement are attempting to determine how to get replacement switches. The Naser Institute network cannot be completed without receipt of these engines.

Proposed Resolution:

IRM will directly procure the replacement boards and deliver to Egypt for installation by Giza Systems.

2.1.4 Hardware Maintenance

Issue:

The hardware ordered through IRM Washington does not have any provisions for maintenance once the warranty periods expire.

Proposed Resolution:

This equipment is primarily at Naser Institute. Naser Institute should develop a maintenance relationship with NCR (servers) and the local IBM distributor (for the PC's). The three other hospitals also have a total of 72 IBM PCs. Perhaps the Naser Institute maintenance contract can be extended to cover El Helal and Dar El Shefa as these are also Ministry of Health hospitals now. This would leave Heliopolis to pay for maintenance of their IBM PC's on a time and materials basis.

2.2 Site Preparation

The following issues relate to site preparation.

2.2.1 Headquarters

Issue:

As discussed in previous QPRs, serious electricity problems have hindered project work at Headquarters. A temporary partial solution - turning off the air conditioners in the project offices - has had a serious negative impact in recent months on the working environment for the project. Not only have the facilities been very hot and uncomfortable at times, but the noise created by opening the windows (virtually all facing the Corniche) can be very distracting.

Resolution:

We are still awaiting resolution of this issue, while we continue to work under difficult conditions. A resolution to the electricity problem is promised by the CCO in May 2000.

2.2.2 Telecommunication Lines

Issue:

The telecommunication lines between facilities that were procured by the CCO had not been initialized by Egypt Telecomm. These lines are the access mechanism for the Internet portion of the knowledgebase.

Resolution:

MAXIMUS and CCO staff have worked together for a solution during this quarter. The lines at El Helal and Heliopolis have been tested and are ready for implementation. Dar El Shefa's line still has a problem at the Abassaya central exchange.

2.3 Software

These issues relate to software.

2.3.1 System Software for Naser Institute

Issue:

IRM Washington was going to procure the system software for Naser Institute. However, this is a difficult procurement for them due to their procurement mechanisms.

Proposed Resolution:

MAXIMUS has requested from USAID a contract modification to allow procurement of these items under the MAXIMUS contract.

2.3.2 Software Acceptance

Issue:

ADT has been running in the hospitals for many months now. MAXIMUS would like to have this module accepted by CCO.

Proposed Resolution:

CCO and MAXIMUS have agreed to sit together for a review of the module where all requests for change can be made. It is expected that this, together with the recent resolution of the printer orientation problem, should lead to final changes and acceptance. It is understood that additional reports will continue to be requested as part of the normal life of the module.

3 STATUS OF PROJECT DELIVERABLES

Work on several deliverables was accomplished during this quarter. The following table, Exhibit 3-1 shows the status of all deliverables, as per the 2000 Annual Implementation Plan (AIP). The "due date" is an internally set date that the project uses to monitor its own progress. Delivered/expected dates are either the date a deliverable was actually submitted, or the expected date which will be listed when there is a variance between the internal due date and expected delivery date.

**Exhibit 3-1
STATUS OF DELIVERABLES**

No.	Name	Due Date	Percent Complete	Delivered/ Expected
1	Detailed Project Management Plan		100%	11/98
2	Revisions to Existing Operations/Procedures	N/A	Cannot be completed — see Task 2 description on page 1-3	1/00
3	Blueprint Plans for HMIS Facilities	7/99	80%	4/00
4-1 to 4-12	Final Agreed-Upon Functional Design (FAFD) for PCS/VISTA Modules	Staggered	50%	
4-13 to 4-21	Final Agreed-Upon Functional Design (FAFD) for F&MAS Modules	Staggered	90%	
5-1 to 5-12	Detailed Design Document (DDD) for PCS/VISTA Modules	Staggered	15%	
5-13 to 5-21	Detailed Design Document for F&MAS Modules	Staggered	90%	
6	Programming Specifications and Conventions		100%	5/99
7	Detailed Hardware, Software and Telecommunications Specification	8/99	100%	9/99
8	Final HMIS Installation Plan	8/99	100%	2/00
9	System Installation and Installation Reports	8/99	0%	End-of-project
10	Source Code	11/00	0%	End-of-project
11	HMIS Test Plan	9/99	100%	3/00
12	Hardware/Software Technical References (English)	8/99	100%	2/00
13-1 to 13-21	End User and Management Documentation	Staggered	5%	
14	Training Plan (Overall)		100%	6/99
15	Systems Training Plan & Materials		100%	6/99
16	End User Training Plan & Materials		100%	6/99
17	Management Training Agenda & Materials (includes Evaluation Report)		100%	3/99
18	HMIS Acceptance Test Report	8/99	0%	End-of-project
19	HMIS Maintenance Plan	11/00	0%	6/00
20	Data Conversion Plan	5/99	50%	6/00
21	HMIS Post-Implementation Audit Report	11/00	0%	End-of-project
22	PCS & F&MAS Implementation Interim Report	11/00	0%	12/00
23	List of Available Protocols and Procedures, Materials, Software, Etc.	6/99	100%	9/99
24	Plan for Management and Organizational Infrastructure for MNS	6/99	35%	6/00
25	Knowledgebase Web Server and Web Page Authoring Tool Set	7/99	60%	6/00
26	Medical Diagnosis and Treatment Support Applications Software	7/99	0%	6/00
27	Install & Test MNS Knowledgebase	7/99	0%	6/00
28	MNS Technical and User Manuals	8/99	0%	8/00
29	Training Program for MNS Users	8/99	0%	7/00
30	MNS Test Report and Maintenance Plan	8/99	0%	9/00
31	MNS Post-Implementation Audit Report	10/99	0%	10/00
32	Final Report on Total HMIS System Implementation	11/00	0%	End-of-project

Appendix A (page 1 of 29)
PROJECT STATUS SUMMARY

Hospital Management Information System (HMIS) Schedule Revised (by request of CCO) from AIP '00 Schedule USAID Contract No. 263-C-00-97-00072-00																	
ID	Task Name	Start	Finish	2000												2001	
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb
1	Site Preparation	Fri 5/1/98	Mon 7/31/00	[Gantt bar from May 2000 to July 2000]													
2	Headquarters	Fri 5/1/98	Fri 12/3/99														
3	Procure hardware/software	Fri 5/1/98	Thu 10/29/98														
4	Prepare site	Fri 8/7/98	Thu 10/29/98														
5	Modify site	Sun 10/10/99	Fri 12/3/99														
6	Prepare blue prints	Thu 1/21/99	Wed 2/24/99														
7	El Helal	Thu 10/1/98	Tue 4/11/00	[Gantt bar from Oct 1998 to Apr 2000]													
8	Procure hardware/software	Thu 10/1/98	Wed 3/31/99														
9	Prepare site	Wed 1/6/99	Tue 3/30/99														
10	Modify site	Wed 3/31/99	Tue 3/28/00														
11	Prepare blue prints	Mon 6/21/99	Tue 4/11/00														
12	Dar El Shefa	Tue 12/1/98	Thu 9/16/99														
13	Procure hardware/software	Tue 12/1/98	Mon 5/31/99														
14	Prepare site	Tue 3/9/99	Mon 5/31/99														
15	Modify site	Fri 5/28/99	Thu 8/19/99														
16	Prepare blueprints	Fri 8/20/99	Thu 9/16/99														
17	Heliopolis	Mon 2/1/99	Wed 11/17/99														
18	Procure hardware/software	Mon 2/1/99	Fri 7/30/99														

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PROJECT STATUS SUMMARY

Hospital Management Information System (HMIS) Schedule Revised (by request of CCO) from AIP '00 Schedule USAID Contract No. 263-C-00-97-00072-00																							
ID	Task Name	Start	Finish	2000												2001							
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	
65	D8 (T6) Final HMIS Installation Plan	Tue 2/29/00	Tue 2/29/00		◆		2/29																
66	D11 (T8) HMIS Test Plan	Wed 3/15/00	Wed 3/15/00			◆	3/15																
67	Implement PCS	Tue 9/1/98	Wed 7/11/01	—————▶																			
68	System Administration including Fileman, Kernel	Tue 9/1/98	Fri 4/23/99																				
69	Analysis	Tue 9/1/98	Mon 12/21/98																				
70	Customize	Mon 12/21/98	Fri 4/9/99																				
71	Arabize	Mon 3/29/99	Fri 4/23/99																				
72	Patient Identification, A/D/T and Scheduling	Mon 4/12/99	Wed 3/22/00	▶																			
73	Analysis	Mon 4/12/99	Fri 7/2/99																				
74	Customize	Thu 7/1/99	Wed 9/22/99																				
75	Arabize	Thu 9/9/99	Wed 10/6/99																				
76	D4-2 (T4) Functional Design Document	Thu 3/16/00	Thu 3/16/00			◆	3/16																
77	D5-2 (T5) Detailed Design Document	Thu 3/16/00	Thu 3/16/00			◆	3/16																
78	Write training materials	Thu 9/23/99	Wed 12/15/99																				
79	Write user documents	Thu 9/23/99	Wed 12/15/99																				
80	(D13-2 (T9) End User and Management Docum	Wed 3/22/00	Wed 3/22/00			◆	3/22																
81	Implement Module at El Hilal	Thu 10/7/99	Mon 12/6/99																				
82	Install PCs and Printers for module	Thu 10/7/99	Sun 10/10/99																				

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PROJECT STATUS SUMMARY

Hospital Management Information System (HMIS) Schedule Revised (by request of CCO) from AIP '00 Schedule USAID Contract No. 263-C-00-97-00072-00				2000												2001						
ID	Task Name	Start	Finish	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
119	Train users/on-site support	Sun 3/5/00	Thu 3/23/00			■																
120	(Live System (at all 3 Pilot Hospitals	Thu 3/23/00	Thu 3/23/00			◆	3/23															
121	Surgery	Thu 8/26/99	Wed 5/3/00	—————▶																		
122	Analysis	Thu 8/26/99	Wed 10/20/99																			
123	Customize	Thu 10/21/99	Wed 12/15/99																			
124	Arabize	Thu 12/2/99	Wed 12/29/99																			
125	D4-11 (T4) Functional Design Document	Wed 3/22/00	Wed 3/22/00			◆	3/22															
126	D5-11 (T5) Detailed Design Document	Wed 3/22/00	Wed 3/22/00			◆	3/22															
127	Write training materials	Thu 12/30/99	Wed 1/26/00	■																		
128	Write user documents	Thu 2/10/00	Wed 5/3/00		■	■	■	■	■	■	■	■	■	■	■							
129	(D13-11 (T9) End User and Management Docur	Wed 5/3/00	Wed 5/3/00																			
130	(Implementation (3 Pilot Hospitals together	Wed 1/12/00	Thu 3/16/00	—————▶																		
131	Install PCs and Printers at Pilot Hospitals	Wed 1/12/00	Tue 1/25/00	■																		
132	Install module at Pilot Hospitals	Wed 1/26/00	Tue 2/8/00		■																	
133	Load Static data (as needed)/test	Wed 2/9/00	Thu 2/24/00			■																
134	Train users/on-site support	Sun 2/27/00	Thu 3/16/00					■														
135	(Live System (at all 3 Pilot Hospitals	Thu 3/16/00	Thu 3/16/00					◆	3/16													
136	(Laboratory (Clinical Pathology	Thu 10/7/99	Wed 5/31/00	—————▶																		

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PROJECT STATUS SUMMARY

Hospital Management Information System (HMIS) Schedule Revised (by request of CCO) from AIP '00 Schedule USAID Contract No. 263-C-00-97-00072-00																					
ID	Task Name	Start	Finish	2000												2001					
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
191	Implement Outpatient at Heliopolis	Mon 7/17/00	Thu 9/7/00																		
192	Install PCs and Printers for module	Mon 7/17/00	Tue 7/18/00																		
193	Install module	Sun 7/23/00	Sun 7/23/00																		
194	Load Static Files/Test	Sun 7/30/00	Thu 8/17/00																		
195	Train users/on-site support	Sun 8/20/00	Thu 9/7/00																		
196	Live System	Thu 9/7/00	Thu 9/7/00																		
197	(Pharmacy (Inpatient	Sun 7/16/00	Tue 11/14/00																		
198	Remaining customization	Sun 7/16/00	Thu 8/3/00																		
199	Update training materials	Sun 8/6/00	Thu 8/31/00																		
200	Update user documents	Sun 8/6/00	Thu 8/31/00																		
201	Implement Inpatient at El Hilal	Mon 8/21/00	Thu 9/28/00																		
202	Install PCs and Printers for module	Mon 8/21/00	Tue 8/22/00																		
203	Install module	Sun 8/27/00	Sun 8/27/00																		
204	Load Static Files/Test	Sun 8/27/00	Thu 9/7/00																		
205	Train users/on-site support	Sun 9/10/00	Thu 9/28/00																		
206	Live System	Thu 9/28/00	Thu 9/28/00																		
207	Implement Inpatient at DS, NI, Heliop	Sun 10/1/00	Tue 11/14/00																		
208	Install PCs and Printers for module	Sun 10/1/00	Mon 10/2/00																		

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PROJECT STATUS SUMMARY

Hospital Management Information System (HMIS) Schedule Revised (by request of CCO) from AIP '00 Schedule USAID Contract No 263-C-00-97-00072-00																							
ID	Task Name	Start	Finish	2000												2001							
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	
407	(D13-17 (T9) End User and Management I	Sun 12/5/99	Sun 12/5/99	/5																			
408	Payroll	Mon 2/1/99	Sun 12/5/99																				
409	Analysis	Mon 2/1/99	Fri 6/18/99																				
410	D4-18 (T4) Functional Design Document	Wed 6/16/99	Wed 6/16/99																				
411	D5-18 (T5) Detailed Design Document	Fri 6/18/99	Fri 6/18/99																				
412	Build module	Mon 6/21/99	Sun 11/7/99																				
413	Write training materials	Mon 10/25/99	Sun 12/5/99																				
414	Write user documents	Mon 10/25/99	Sun 12/5/99																				
415	(D13-18 (T9) End User and Management I	Sun 12/5/99	Sun 12/5/99	/5																			
416	Personnel	Mon 2/1/99	Sun 12/5/99																				
417	Analysis	Mon 2/1/99	Fri 6/18/99																				
418	D4-19 (T4) Functional Design Document	Wed 6/16/99	Wed 6/16/99																				
419	D5-19 (T5) Detailed Design Document	Fri 6/18/99	Fri 6/18/99																				
420	Build module	Mon 6/21/99	Sun 11/7/99																				
421	Write training materials	Mon 10/25/99	Sun 12/5/99																				
422	Write user documents	Mon 10/25/99	Sun 12/5/99																				
423	(D13-19 (T9) End User and Management I	Sun 12/5/99	Sun 12/5/99	/5																			
424	Inventory	Mon 2/1/99	Sun 12/5/99																				

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Appendix B-1
HMIS APPLICATION TRAINING DELIVERED DURING THIS QUARTER

Description	CCO HQ	Heliopolis	Dar El Shefa	El Helal	Naser Institute	Total
Managers						
Orientations	7	54	1	1	2	65
Basic Skills	0	0	12	0	0	12
VISTA Apps.	0	0	0	0	0	0
F&MAS Apps.	6	1	1	3	0	11
# of Classes	1	1	3	1	0	3*
# Person-Days	37	59	66	16	2	180
Application Coordinators						
Orientations	0	0	0	0	0	0
Basic Skills	0	0	0	0	0	0
VISTA Apps.	0	0	0	0	0	0
F&MAS Apps.	0	0	0	0	0	0
# of Classes	0	0	0	0	0	0
# Person-Days	0	0	0	0	0	0
Workstation End Users						
Orientations	0	0	0	0	0	0
Basic Skills	0	0	8	0	0	8
VISTA Apps.	0	125	16	13	0	154
F&MAS Apps.	0	2	3	2	0	7
# of Classes	0	7	6	3	0	14*
# Person-Days	0	635	155	95	0	885
Counterparts (Shadows)						
Orientations	0	0	0	0	0	0
Basic Skills	0	0	0	0	0	0
VISTA Apps.	0	0	0	0	0	0
F&MAS Apps.	0	0	0	0	0	0
On-the-job Training	1	1	3	4	4	13
# of Classes	0	0	0	0	0	0
# Person-Days	62	40	100	204	186	592
TOTALS						
Orientations	7	54	1	1	2	65
Basic Skills	0	0	20	0	0	20
VISTA Apps.	0	125	16	13	0	154
F&MAS Apps.	6	3	4	5	0	18
# of Classes	1	8	9	4	0	14*
# Person-Days	99	734	321	315	188	1657

* Total # of Classes shared among the CCO HQ and the three hospitals

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Appendix B-2
ACTUAL COURSES DELIVERED DURING THIS QUARTER

Description	# of Trainees	Training Site	Class Duration	Training Material	Start	End	Person/days
PC Basic Skills							
- CCO HQ	-	-	-	-	-	-	-
- El Helal	-	-	-	-	-	-	-
- Dar El Shefa	20	-	-	Complete	Mar-01	Mar-31	100
- Heliopolis	-	-	-	-	-	-	-
- Naser Institute	NA	-	-	-	-	-	-
VISTA Applications							
- ADT	125	Heliopolis	5	Complete	-	-	625
- Surgery	21	CCO HQ	5	Complete	-	-	105
- Engineering	81	El Shefa & Helal	10	Complete	-	-	80
F&MAS Applications							
- Personnel	18	CCO HQ	0	0	0	0	90
On-the-job Training (Counterparts)	13	Various	0	0	0	0	592
Orientations	65	Various	0	0	0	0	65
TOTAL							1657

Comments

- o Total number of classes completed: 14
- o Total number of different curricula delivered: 5
- o Total number of person-days of training delivered: 1657
- o Total number of training sites: 5
- o Total number of End Users who received training: 885
- o Total number of End Users who received on job training: 103
- o Total number of Counterparts who received on job training: 13
- o Total number of persons who received F&MAS training: 18
- o Total number of persons who received orientation and demonstration: 65

Appendix B-3
HMIS ON-SITE SYSTEMS TRAINING DELIVERED DURING THIS QUARTER
(COUNTERPARTS)

Description	CCO HQ	Heliopolis	Dar El Shefa	El Helal	Naser Institute	Total
Managers	-	-	-	-	-	-
# of Classes	-	-	-	-	-	-
# Person-Days	-	-	-	-	-	-
Application Coordinators	-	-	-	-	-	-
# of Classes	-	-	-	-	-	-
# Person-Days	-	-	-	-	-	-
Workstation End Users	-	-	-	-	-	-
# of Classes	-	-	-	-	-	-
# Person-Days	-	-	-	-	-	-
Counterparts (Shadows)	3	6	3	2	5	19
# of Classes	4	2	3	2	3	7
# Person-Days	64	74	42	32	81	293
TOTALS	3	6	3	2	5	19
# of Classes	4	2	3	2	3	7
# Person-Days	64	74	42	32	81	293

Appendix B-4
HMIS ON-SITE SYSTEMS TRAINING DELIVERED DURING THIS QUARTER

Description	# of Trainees	Training Material	Person/Days
Implementation and ustomization of Engineering	3	Complete	48
Billing replacement system as VISTA	2	Complete	60
Help Desk application	4	Complete	71
Laboratory Module cutomization	2	Complete	31
Surgery module cutomization	2	Complete	54
F&MAS testing	1	-	10
Hardware trouble shooting	5	Complete	19
Total	19		293

Appendix B-5
HMIS OFF-SITE SYSTEMS TRAINING DELIVERED DURING THIS QUARTER
(COUNTERPARTS)

Description	CCO HQ	Heliopolis	Dar El Shefa	El Helal	Naser Institute	Total
Managers	-	-	-	-	-	-
# of Classes	-	-	-	-	-	-
# Person-Days	-	-	-	-	-	-
Application Coordinators	-	-	-	-	-	-
# of Classes	-	-	-	-	-	-
# Person-Days	-	-	-	-	-	-
Workstation End Users	-	-	-	-	-	-
# of Classes	-	-	-	-	-	-
# Person-Days	-	-	-	-	-	-
Counterparts (Shadows)	3	1	1	1	1	7
# of Classes	4	4	4	4	4	4
# Person-Days	51	17	17	17	17	119
TOTALS	3	1	1	1	1	7
# of Classes	4	4	4	4	4	4
# Person-Days	51	17	17	17	17	119

Appendix B-6
HMIS OFF-SITE SYSTEMS TRAINING DELIVERED DURING THIS QUARTER
(COUNTERPARTS)

Description	Location	# of Trainees	Duration	Training Material	Person/days
Introduction to Oracle: SQL and PL/SQL	ICL	7	5	Complete	35
Database Administration DBA	ICL	7	5	Complete	35
Oracle Backup and Recovery OBR	ICL	7	3	Complete	21
PD7 (Oracle series)	ICL	7	4	Complete	28
Total		7	17		119

Comments

- o Total number of classes completed: 11
- o Total number of different curricula delivered: 5
- o Total number of person-days of training delivered: 412
- o Total number of training sites: 2
- o Total number of persons who received training: 19

The total number of persons who received training in any quarter is not cumulative.
Some people are enrolled in more than one class over the life of the project.

APPENDIX C: DISTRIBUTION LIST

MAXIMUS Home Office	One Copy
Cairo Curative Organization	Three Copies
Naser Institute	Two Copies
Directorate of Policy, Center for Development Information and Evaluation, Office of Development Information	Two Copies
United States Agency for International Development (USAID)	Three Copies