
Cairo Air Improvement Project (CAIP)

Report for the 3rd Quarter of Year 2003

July 1st through September 30th 2003

Year 6

Contractor:
Contract Number:
Contract Period of Performance:

Chemonics International Inc.
263-C-00-97-00090-00
May 11, 1997 through December 31, 2003

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Part One: Contractor's Report

The Cairo Air Improvement Project (CAIP) was initiated on May 11, 1997, by the United States Agency for International Development (USAID) Egypt Mission and is under the direction of USAID/Egypt's Office of Environment. This report covers tasks and activities conducted during the third quarter of Year 2003, the 6th year of the project, a period extending from July 1st through September 30th, 2003.

Please note that the work added to CAIP under EEPP (modification number nine) shall be reported on separately.

A. Work Plan and Expected Results

The scope, anticipated results, and milestones are delineated in the original CAIP contract and subsequent amendments. With tasks identified in components' annual work plans, these constitute the expected outcomes for the project.

B. Organization of the Report

Section D presents, for each component, the expected tasks and activities, accomplishments, current status and performance issues for the previous, current and next quarters.

C. Administrative Data Section

Note: Does not include EEPP funds

Current Obligated Funding:	\$55,937,699
Total Contract Amount:	\$55,937,699
Expenditures for July 1 st through September 30 th , 2003:	\$708,528
Cumulative Expenditures to Date (09/30/03):	\$53,679,121
Remaining Unexpended Balance – Obligated Funds:	\$2,258,578
Remaining Unexpended Balance – Contract Total:	\$2,258,578

D. Component Narratives

D.1. Summary of VET Component Performance

VET Outstanding Milestones Status

Milestone(s)	Milestone Approval Status		
	Apr – Jun 2003	Jul – Sep 2003	Oct – Dec 2003
PM #20: Inspection and Maintenance of Transit Buses (IMTB) data analysis report completed			To be completed
PM #22: Shoubra Center Implementation Plan Complete			To be completed
PM #23: Shoubra Equipment Upgrades Installed and Training Completed			To be completed
PM #24: Shoubra Center Transferred to EEAA			To be completed

VET Tasks Status

Objectives and Tasks		Apr - Jun 2003	Jul – Sep 2003	Oct – Dec 2003
1	TEST & CERTIFY EMISSIONS OF VEHICLES			
1.2	Task 1.2: Qaliubiya VET Program (Model Center converted to Technical Center, see 1.5)	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> N/A
1.3	Task 1.3: Giza VET Program (Model Center cancelled per Steering Committee, see 2.1)	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> N/A
1.4	Task 1.4: Cairo VET Program (Model Center cancelled per Steering Committee, see 2.1)	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> N/A
1.5	Task 1.5: Technical Center	<ul style="list-style-type: none"> Resolved with EEAA to purchase one piece of testing equipment Selected vendor and placed order for testing equipment 	<ul style="list-style-type: none"> Continued discussion with EEAA regarding implementation plan for Shoubra Center, including some minor repairs Continued discussions with EEAA about possible uses, including testing of Ministry of Tourism vehicles 	<ul style="list-style-type: none"> Receive and install testing equipment Complete testing equipment training for engineers and technicians Shoubra implementation plan to be completed Finalize plans/schedule for turnover of Shoubra Center to EEAA Shoubra Center to be transferred to GOE
2	INCREASE FUEL EFFICIENCY THROUGH TUNE-UPS			

Objectives and Tasks		Apr - Jun 2003	Jul - Sep 2003	Oct - Dec 2003
2.1	Task 2.1: VET Program Implementation	<ul style="list-style-type: none"> All emissions testing equipment for Giza and Qaliubiya received Training held from April 6 - May 22 at the Shoubra Technical Center. A total of 147 engineers and operators were trained on the new VET equipment A ceremony was held on April 10 to mark the end of training and to distribute certificates to the first group of trainees (engineers and operators) Communication plan finalized and implemented through brochures, posters, press events, interviews, etc. Program launched successfully on June 1. Follow up support to EEAA and traffic departments provided by CAIP engineers and equipment subcontractor Discussions held with traffic personnel and Cairo governorate officials to resolve start date for Cairo program 	<ul style="list-style-type: none"> It was agreed that equipment for the Cairo VET program would be supplied under the CAIP contract Two tender documents were issued for Cairo VET equipment, one for smoke meters the other for gas analyzers. Proposals were received and evaluation of offers began Continued technical assistance provided to Giza and Qaliubiya 	<ul style="list-style-type: none"> Selection of vendors for Cairo gas analyzers and smoke meters to be finalized. Orders to be placed. Based on vendor delivery schedules, equipment will not arrive until the first quarter of 2004 Plan for training of trainers for the Cairo VET equipment Continued technical assistance to Giza and Qaliubiya
2.3	Task 2.3: Diesel Tune-up Program	<ul style="list-style-type: none"> IMTB diesel engine diagnostic analyzer training completed Database and analysis prepared in support of final report 	<ul style="list-style-type: none"> Collected all relevant information for preparation of final IMTB report. Work began on draft 	<ul style="list-style-type: none"> IMTB report to be finalized and submitted to USAID

D.2 Summary of CNG Component Performance

CNG Outstanding Milestones Status

Milestone(s)	Milestone Approval Status		
	Apr - Jun 2003	Jul - Sep 2003	Oct - Dec 2003
PM #6: Institutional development plan for standards and regulations completed			To be completed
PM #16: CTA CNG garage leak detection safety equipment operational			To be completed
PM #19: CMMS installed and operational at CTA and GCBC Garages			To be completed
PM #23: Complete and Begin Implementing a CNG Sustainability Plan			To be completed

CNG Tasks Status

Objectives and Tasks		Apr - Jun 2003	Jul - Sep 2003	Oct - Dec 2003
1	SUSTAINABLE O&M PROGRAM FOR CNG BUS FLEET			
1.1	Supply 50 CNG buses	<ul style="list-style-type: none"> Freightliner/TBB's warranted fueling system inspection and repair campaign on the 46 remaining buses continued Gas cylinder cleaning done in conjunction with Freightliner/TBB campaign continued Based on conditions at the bus companies and positive results from US bus properties on performance of the next generation of Cummins engine (C+), discussed possible options with USAID for upgrading fleet engines 	<ul style="list-style-type: none"> 17 buses under Freightliner/TBB's warranted fueling system inspection and repair campaign completed Gas cylinder cleaning done in conjunction with the Freightliner/TBB campaign HOS fan and front leaf spring replacement completed Cummins engine upgrade discussions continued. Decision made that USAID would purchase new engines outside of the CAIP contract 	<ul style="list-style-type: none"> Remaining 5 buses under Freightliner/TBB's warranted fueling system inspection and repair campaign to be completed Gas cylinder cleaning done in conjunction with the Freightliner/TBB campaign to be completed
1.2	Provide assistance in building CNG maintenance facilities at CTA and GCBC	<ul style="list-style-type: none"> CMMS installation at GCBC continued CMMS training for GCBC network administrators continued 	<ul style="list-style-type: none"> CMMS installation at GCBC continued CMMS training for GCBC network administrators completed 	<ul style="list-style-type: none"> CMMS installation at GCBC to be completed CMMS training for GCBC network administrators to be completed
1.3	Provide training and institutional support to CTA and GCBC	<ul style="list-style-type: none"> Continued training, as needed, to enhance skills of technical and administrative personnel at CTA and GCBC garages Planning for Cummins/Allison engine training for engineers and technicians 	<ul style="list-style-type: none"> Continued training, as needed, to enhance skills of technical and administrative personnel at CTA and GCBC Continued planning for Cummins/Allison training for engineers and technicians 	<ul style="list-style-type: none"> Continue training, as needed, to enhance skills of technical and administrative staff at CTA and GCBC
2	ESTABLISH CNG SAFETY STANDARDS			

Objectives and Tasks		Apr - Jun 2003	Jul - Sep 2003	Oct - Dec 2003
	2.4	Develop CNG fueling station standards	<ul style="list-style-type: none"> Completed 	<ul style="list-style-type: none"> Began developing Standards Implementation Plan EOS Board to review and approve Finalize Egyptian CNG Standards Implementation Plan
3	MASTER PLAN FOR LARGE-SCALE CONVERSION			
	3.0	Develop a master plan for large-scale conversion of bus fleets to CNG fuel		<ul style="list-style-type: none"> To be addressed in the context of the policy project (EPPP)
4	DEMONSTRATE 90% EMISSION REDUCTION			
	4.1	Establish new emissions measurement laboratory (ML)	<ul style="list-style-type: none"> Testing of diesel and CNG buses continued Development verification measures for IMTB program Worked with OEM to tailor and upgrade software 	<ul style="list-style-type: none"> Upgraded software installed Testing of diesel and CNG buses continued Testing of diesel and CNG buses to be completed
	4.1.11	Train ML personnel	<ul style="list-style-type: none"> Continued enhanced training, as needed Development of strategic plan for sustainable operation continued 	<ul style="list-style-type: none"> Continued enhanced training, as needed for updated software Development of strategic business plan for sustainable operation continued Strategic business plan for sustainable operation completed
		Other Activities	<ul style="list-style-type: none"> 2003 work plan finalized 	

CNG Performance Problems and Corrective Action

Problem

Cummins engine upgrade decision is outstanding and is critical in light of the CAIP contract end date.

Corrective Action

Decision was made that USAID would purchase engines outside of the CAIP contract.

D.3. Summary of LPA Component Performance

LPA Outstanding Milestones Status

Milestone(s)

Milestone Approval Status

Apr - Jun 2003

Jul - Sep 2003

Oct - Dec 2003

PM #16: Awadallah Smelter Inaugurated

LPA Tasks Status

Objectives and Tasks		Apr – Jun 2003	Jul – Sep 2003	Oct - Dec 2003
1	AWADALLAH SMELTER			
1.6	Monitor construction of new large smelter plants	<ul style="list-style-type: none"> Electrical connection completed and facilities are operational Dialog with smelter owner indicates reluctance to conduct a formal inauguration 	<ul style="list-style-type: none"> Approach to smelter wrap up still pending 	<ul style="list-style-type: none"> Finalize smelter assistance
1.7	Technology solution training for relevant Awadallah employees (Activity completed in 2002)			

LPA Performance Problems and Corrective Action

Problem

Awadallah smelter owner reluctant to participate in inauguration

Corrective Action

CAIP to discuss with EEAA, USAID, and the governorate, the most effective way to close out the activity

D.4. Summary of AQM Component Performance

AQM Milestones Status

Milestone(s)	Milestone Approval Status		
	Apr - Jun 2003	Jul – Sep 2003	Oct - Dec 2003
PM # 15: Final Source Attribution Study Submitted			To be completed
PM # 16: Implement Dispersion Modeling for Point and Area Sources			To be completed
PM # 19: Lead Emissions Trend Report for Year 2001 Produced with CAIP Oversight		Completed	
PM# 20: Complete Transfer of AQM Network to EEAA	Completed		
PM# 21: Complete Transfer of LEI and SAS Equipment and Software to EEAA	Completed		

AQM Tasks Status

Objectives and Tasks		Apr - Jun 2003	Jul - Sep 2003	Oct - Dec 2003
1.1	Ambient PM & Pb Monitoring	<ul style="list-style-type: none"> Calibrated AirMetrics samplers. Worked with EEAA to facilitate installation at the 20 designated monitoring sites EEAA has delayed receipt of the new equipment due to space issues then annual inventory 	<ul style="list-style-type: none"> Hand over of AQM network equipment delayed due to lack of space at EEAA 	<ul style="list-style-type: none"> Hand over new AQM network equipment to EEAA Finalize plan for new AQM Network inauguration
1.2	Baseline Source Attribution Study (SAS)	<ul style="list-style-type: none"> Revised draft SAS report including clarifications from DRI Training on hold due to inability of trainers to travel 	<ul style="list-style-type: none"> Decision made in agreement with USAID and EEAA that additional SAS training by US specialists not necessary 	<ul style="list-style-type: none"> Final SAS report to be submitted
1.3	Lead Emission Inventory	<ul style="list-style-type: none"> Complete 2000/2001 LEI Trend Report (EEAA/CAIP team) Complete source testing at new lead smelter. Completed measurements of lead concentration in the work place 	<ul style="list-style-type: none"> Submitted 2000/2001 LEI Trend Report 	
1.6	Hand Over Plan for AQM Network accepted by EEAA	<ul style="list-style-type: none"> Submitted the final Report of Transfer for the AQM network to EEAA 		
1.7	Complete Transfer of SAS & LEI Equipment and Software to EEAA	<ul style="list-style-type: none"> Submitted the final Report for Transfer of SAS and LEI Equipment to EEAA 		

D.5. Summary of PACP Department Performance

PACP Outstanding Milestones Status

Milestone(s)	Milestone Approval Status		
	Apr – Jun 2003	Jul – Sep 2003	Oct – Dec 2003
PM # 15: Mini-campaigns conducted for the Shoubra VET model center operations		On hold, pending review of milestones	
PM # 17: Documentaries for CAIP initiatives completed and accepted by EEAA and USAID		Completed	
PM # 19: Publicize campaign covering the results of IMTB program with CTA and GCBC to the Egyptian private sector		On hold, pending review of milestones	
PM # 20: Air Quality Communication Strategy Completed		On hold, pending review of milestones	
PM # 21: PA Transfer Plan Completed		On hold, pending review of milestones	
PM # 22: PA Equipment/Material Transfer Completed		On hold, pending review of milestones	

PACP Tasks Status

Objectives and Tasks		Apr - Jun 2002	Jul – Sep 2003	Oct - Dec 2003	
1	WRAP UP OF CAIP ACTIVITIES WHILE INCREASING PUBLIC AWARENESS ON AIR QUALITY ISSUES				
	1.1	Design campaign to publicize project results to policy makers, other stakeholders and general public	<ul style="list-style-type: none"> No activity due to work on high priority national VET program launch 	<ul style="list-style-type: none"> No activity pending review by USAID 	<ul style="list-style-type: none"> See discussion under problems and corrective action below
	1.2	Package/Disseminate Air Quality Monitoring data	<ul style="list-style-type: none"> No activity on monograph due to work on high priority national VET program launch 	<ul style="list-style-type: none"> No activity pending review by USAID 	<ul style="list-style-type: none"> See discussion under problems and corrective action below
2					
	2.1	Support Vehicle Emission Tune up & Maintenance in the Transit System	<ul style="list-style-type: none"> Continued work on IMTB monograph 	<ul style="list-style-type: none"> No activity pending review by USAID 	<ul style="list-style-type: none"> See discussion under problems and corrective action below

Objectives and Tasks		Apr - Jun 2002	Jul - Sep 2003	Oct - Dec 2003
	Promote New National VET Program	<ul style="list-style-type: none"> VET roundtable discussion for reporters at al-Ahram Regional Press Institute held on April 21, 2003, aimed at discussing the VET program and its implementation with newspaper reporters VET seminar for Radio and Television Union held May 5, 2003, aimed at introducing the VET program to several stakeholders Meeting with local car dealers held on May 14, 2003, in order to acquaint car dealers and maintenance service providers with the VET program and their role in it NGO meeting at Shoubra El Kheima Local Council held on May 20, 2003 to discuss the VET program Meeting with local fleet operators held on May 21, 2003, in order to acquaint car dealers and maintenance service providers with the VET program and their role in it New VET logo developed. Motorcycle pamphlet, brochures, posters, banners and badges distributed 850 fact sheets distributed to maintenance workshops Posters distributed to Giza and Qaliubiya Traffic Departments and maintenance workshops 	<ul style="list-style-type: none"> PA commitment to Giza and Qaliubiya completed in the previous quarter. Exact start date for Cairo program and exact PA needs to be determined 	<ul style="list-style-type: none"> Plan for PA and communication activities to support Cairo VET program
3	PROMOTE USE OF CNG IN THE TRANSIT SYSTEM			
	3.2 Promote the Vehicle Emission & Performance Testing Center	<ul style="list-style-type: none"> No activity due to work on high priority national VET program launch 	<ul style="list-style-type: none"> Activity to promote Center (Misr Lab) has shifted to Misr Lab business development effort (see CNG section) 	
4	SUPPORT THE INTRODUCTION OF NEW TECHNOLOGY TO LEAD SMELTERS			
	4.1 Spread awareness of new technology	<ul style="list-style-type: none"> Began planning for Awadallah smelter inauguration. Work put on hold when it became clear that inauguration would be delayed 	<ul style="list-style-type: none"> Finalized clean technology brochure to present at Environment 2003 conference. This supports national initiative to relocate and upgrade industry 	<ul style="list-style-type: none"> See discussion under problems and corrective action below Print clean technology brochure for distribution
6	<ul style="list-style-type: none"> OTHER 			

Objectives and Tasks		Apr - Jun 2002	Jul - Sep 2003	Oct - Dec 2003
6.1	General support to the CAIP stakeholders		<ul style="list-style-type: none"> No activity 	<ul style="list-style-type: none"> Participate in Enviro 2003 PA transfer plan to be completed PA equipment/material transfer to be completed

PA Performance Problems and Corrective Action

Problem

Activities under the PA component, as originally defined for CAIP, have largely been completed as agreed by USAID and EEAA. CAIP will continue to support the remaining work noted above, including the new VET program and expected communication strategy under EEPP.

There are several outstanding issues as noted above, including the KAP study, and several milestones. Final resolution of these issues is needed, and anticipated in the next quarter.

Corrective Action

Discussions to take place with USAID during the coming quarter.

D.6 Summary of OM Performance

Milestone(s)	OM Outstanding Milestones Status		
	Apr – Jun 2003	Jul – Sep 2003	Oct - Dec 2003
PM #23: Final Project Completion Report Submitted			To be completed
PM #24: Inventory Transfer Plan Completed			To be completed
PM #25: Final Workshop for Project Completed			To be completed

OM Tasks Status

Objectives and Tasks	Apr - Jun 2003	Jul – Sep 2003	Oct - Dec 2003
Finalize direction of CAIP activities	<ul style="list-style-type: none"> Modification nine added EEPP policy work to CAIP 		
Overall training	<ul style="list-style-type: none"> English language training for CAIP counterparts continued at AUC Reevaluated timing of OST for Early Warning System staff in order to enhance skills in air quality forecasting, in light of current world events Excel and Power Point training for participants from CTA, GCBC and EEAA 	<ul style="list-style-type: none"> English language training for CAIP counterparts to be continued at AUC Finalize approach for Early Warning System OST 	<ul style="list-style-type: none"> Early Warning System training in the US for Usama Faramawi, Manager of EEAA EWS Department to take place in December English language training for CAIP counterparts to continue at AUC
CAIP closeout/transition	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> Developed closeout schedule and discussed with USAID. Final inventory disposition plan to be submitted in the next quarter. Fielded two home office employees to assist with closeout activities 	<ul style="list-style-type: none"> Project final report to be completed Inventory transfer plan to be completed Final workshop to be held