

CLASSIFICATION

PROJECT EVALUATION SUMMARY (PES) -- PART I

Report Symbol U-447

1. PROJECT TITLE PROJECT 0025 Water Survey of North Yemen			2. PROJECT NUMBER 279-11-120-0025	3. MISSION/AID/W OFFICE USAID/Yemen
			4. EVALUATION NUMBER (Enter the number maintained by the reporting unit e.g., Country or AID/W Administrative Code, Fiscal Year, Serial No. beginning with No. 1 each FY) 79-1	
			<input checked="" type="checkbox"/> REGULAR EVALUATION <input type="checkbox"/> SPECIAL EVALUATION	
5. KEY PROJECT IMPLEMENTATION DATES		6. ESTIMATED PROJECT FUNDING		7. PERIOD COVERED BY EVALUATION
A. First PF.O-AG or Equivalent FY 74	B. Final Obligation Expected FY 78	C. Final Input Delivery FY 79	A. Total \$ 2,932	From (month/yr.) 8/77
			B. U.S. \$ 2,086	To (month/yr.) 12/78
			Date of Evaluation Review 1/79	

8. ACTION DECISIONS APPROVED BY MISSION OR AID/W OFFICE DIRECTOR

A. List decisions and/or unresolved issues; cite those items needing further study. (NOTE: Mission decisions which anticipate AID/W or regional office action should specify type of document, e.g., airgram, SPAR, PIO, which will present detailed request.)	B. NAME OF OFFICE RESPONSIBLE FOR ACTION	C. DATE ACTION TO BE COMPLETED
ACTION		
1) Contract for Journeyman Hydrologist	USAID/AID	2/79
2) Execute PASA Agreement with USGS for Proj. Manager and short-term TDY Technical Asst	AID/USGS	2/79
3) Complete Amrin Basin Water Resource Rpt.	USGS	4/79
4) Complete shipment of geological maps to Yemen	USGS	4/79
5) Authorize Proj. 0043 NLT February 1979	AID/W	2/79
6) Complete PP modification for 0043 including resolution of technician housing costs	USAID/YOMINCO	1/79
7) Continue recruitment of Yemeni Deputy Project Manager and other Yemeni staff positions	YOMINCO	3/79
8) Budget for increased Yemeni staff project support for Project 0043	YOMINCO	5/79
9) Complete construction of the Water Quality Laboratory and offices	YOMINCO	1/80

9. INVENTORY OF DOCUMENTS TO BE REVISED PER ABOVE DECISIONS

<input type="checkbox"/> Project Paper	<input type="checkbox"/> Implementation Plan e.g., CPI Network	<input checked="" type="checkbox"/> Other (Specify) PP Revision of Project 0043
<input type="checkbox"/> Financial Plan	<input type="checkbox"/> PIO/T	<input type="checkbox"/> Other (Specify)
<input type="checkbox"/> Logical Framework	<input type="checkbox"/> PIO/C	
<input type="checkbox"/> Project Agreement	<input type="checkbox"/> PIO/P	

10. ALTERNATIVE DECISIONS ON FUTURE OF PROJECT

A. <input type="checkbox"/> Continue Project Without Change
B. <input type="checkbox"/> Change Project Design and/or <input type="checkbox"/> Change Implementation Plan
C. <input checked="" type="checkbox"/> Discontinue Project - Start new follow-on Project

11. PROJECT OFFICER AND HOST COUNTRY OR OTHER RANKING PARTICIPANTS AS APPROPRIATE (Names and Titles)

David Gephart/ USAID/Project Manager
Z. Merabet/YOMINCO/Project Manager

12. Mission/AID/W Office Director Approval

Signature: *R. G. Huesmann*

Typed Name: R.G. Huesmann, Dir.

Date: January 15, 1979

P E S - PART II

Project 0025, Water Survey of North Yemen

13. Summary

The project has been extended twice, from October 1, 1977, to March 31, 1978, and from April 1, 1978 to March 31, 1979. The purposes of these extensions were to complete project objectives as well as to serve as a vehicle for a smooth transition to the proposed follow-on Project 0043, Water Resources Planning and Management. During the first extension, the project was under the direct control and management of USAID. During the second extension the project was transferred to the Yemen Oil and Mineral Corporation (August 1, 1978) where a Department of Hydrology (DOH) had been established. The project during the second extension has lacked adequate technical assistance to accomplish certain planned outputs. Nevertheless, the project purpose and goal will have been achieved with the termination of this project on March 31, 1979. The new 0043 follow-on project is to focus on institutional development, the groundwork for which has been laid by Project 025.

14. Evaluation Methodology

This evaluation addresses progress to date, accomplishments, host country inputs, USAID inputs and project issues for review and consideration by AID/W in conjunction with the authorization of the follow-on Project 0043. The evaluation also updates project evaluation requirements. The above were evaluated against stated objectives contained in the Project Agreement of July /1978 and the revised 025 PP of April/78. The evaluation was a joint effort involving collaboration between USAID and the YOMINCO, project managers.

15. External Factors

The major change, and one of considerable impact to project purpose and goal, was to transfer project operations from USAID to the control of the host government under YOMINCO. See Item 23 below. Furthermore, what was seen as a precondition to initiation and successful implementation of Project 043, namely, sufficient YAR funding to construct a DOH facility, has already been achieved.

16 - 17. Inputs and Outputs

Under Project Agreement No. 78-6 dated July 31, 1978, the project was transferred and placed under the control of the General Director of Geological Survey and Exploration of Mineral Resource, Yemen Oil and Mineral Corporation, within a newly created Department of Hydrology (DOH).

The Project Agreement provided AID funds in the amount of U.S. \$500,000 for project operations to March 31, 1978. The new follow-on Project 0043, Water Resources Planning and Management, to be authorized by 2/79, will maintain Project 0025's continuity and focus on institutional development of a DOH.

The Project Agreement called for the following accomplishments:

USAID:

1. Complete the publication of the 1:500,000 geological maps and provide 5000 copies to YOMINGO by 1/79. This has been partially fulfilled. YOMINGO has received 100 copies of the map as of 12/28/78. This will meet the immediate need until arrival of the bulk shipment estimated to be 3/79.
2. Complete the Amran Basin ground water report and provide 25 copies to YOMINGO by March 1979. Little progress has been made. No draft report has been received by 1/79 and Schedule of Completion is unknown.
3. Transfer Project 025 equipment and personnel to YOMINGO by August 1978. Completed by PTL No. 4, dated August 22, 1978.
4. Recruit a Senior Project Manager by March 1979. Unfulfilled action of USAID/AID as of 1/79.
5. Recruit a journeyman hydrologist by September 1978. Unfulfilled action of USAID/AID as of 1/79.
6. Provide short term TDY TA for data collection operations for YOMINGO by 3/79. Unfulfilled as of 1/79. This action dependent upon execution of a PASA Agreement between AID and USGS. As of 1/79 no agreement has been executed although AID/W has had the PIO/T since September 1978.
7. Initiate training of two Yemeni for six training months (three each) in operation of a data collection center, by March 1979. Unfulfilled action as of 1/79. Dependent upon presence of a Project Manager, short-term TDY TA and a USGS PASA contract.

8. Fund five Yemeni university summer interns for two months OJT. Completed as of 9/78.

9. Fund one Yemeni geophysical technician and three field assistants to 3/31/79. Underway.

10. Assist in funding of five Yemeni hydrogeologists. Only two hydrogeologists are being funded due to staff vacancies.

11. Assist in the funding of five Yemeni semi-professionals for field and data center operation to 3/31/79. Underway.

12. Assist YOMINCO in project equipment procurement to 3/31/79. Partially fulfilled. Technical equipment procurement in the U.S. is dependent upon the presence of the USGS project manager to identify and develop equipment specifications for the project.

13. Establish a project operating fund with YOMINCO. This was established with PIL No. 3, dated August 12, 1978.

YOMINCO:

1. YOMINCO will actively proceed to institutionalize a DOH. As of August 1, 1978, YOMINCO provided office space for the DOH operation and actively assumed, under direction of Mr. Ali Taber Awali, Director General, operational responsibility for the project.

2. Fund the salaries of two Yemeni Hydrologists. YOMINCO is funding the salaries of three hydrologists having hired one additional person in the build-up of the DOH.

3. Recruit and fund the salaries of three Yemeni graduate hydrologists. This was not accomplished. Two graduates were initially interested in working for YOMINCO but instead went to work for the National Water and Sewerage Authority (where three AID projects are centered) at one and one-half the salary level being offered by YOMINCO. YOMINCO did hire two technicians and one hydrologist as noted above.

4. Fund the salaries of eight Yemeni semi-professional personnel. This was not completely fulfilled. Two semi-professional technicians and one driver/field operator were hired (see above), and four YOMINCO administrative personnel assigned part-time to the DOH (two secretaries, two financial personnel). The salaries of these seven people are being paid from the AID funded project operating fund.

5. Select five candidates for training. Four candidates have been selected for subsequent training in the U.S., English language tests given, and English language training scheduled (1/79). Final selection for training is dependent upon the arrival of the USGS project manager and his concurrence of selection.
6. Funding of the DOH water quality laboratory and office facilities. YOMINCO, under their FY 78-79 budget have funded and proceeded to construct (30% complete) a new headquarters addition which includes office and laboratory space for the DOH. Approximately 150m² has already been constructed. Final interior design and construction will start in March 79 in conjunction with the West German assistance to YOMINCO. The West German project consists of T.A. and laboratory equipment for mineral and geological analysis. The YOMINCO is expected to complete construction of the facility by 1/80.
7. YOMINCO to increase salary levels to retain professional personnel. The YOMINCO had a major salary increase in 9/78. However, the increase provides a minimum salary of YR 3800 (U.S. \$838) per month for a graduate professional which is still 40% below other YARG autonomous agencies such as NWSA, etc., which get YR 5400 per month starting salaries.
8. The YOMINCO to continue Project 0045 operations. This is being done under the supervision of a TCW engineering graduate (Fluent in Arabic). Although the TCW does not have a degree in hydrology, her background in Yemen included hydrologic work. She is proving to be capable in maintaining project activity and promoting the organizational buildup of the DOH. However, the project critically lacks the input of the Journeyman hydrologist and USGS project manager. (See comments below.)
9. YOMINCO to provide in kind contribution for project implementation. This is presently being provided through YOMINCO office facilities and supervision of DOH operations by the Director General, Ali Jaber Awali.
10. YOMINCO and USAID collaborate on preparation of the PP for Project 0043. The Project 0043 PP was approved by NEAC on November 2, 1978. However, project authorization is dependent upon the YOMINCO contributing to project housing support costs and in collaboration with USAID to develop a revised budget, staffing and training plan. This is proceeding satisfactorily.

18. Purpose

The project purpose is "to develop a primary data base covering groundwater resources in North Yemen and to develop a limited capacity for Yemen to conduct water surveys in the country."

The purpose has been achieved with the turn over of the project to YOMINCO. The remainder of the project life will be directed toward the strengthening of DOH.

19. Goal

The project goal is "to promote efficient use of water in support of YARG's development programs in the agricultural, industrial and health sectors."

Data and project verifiable indicators are inadequate or nonexistent to hypothesize on the progress achieved in support of the project goal. The follow-on project 0043, having the identical goal, should provide tangible evidence to its attainment.

20. Beneficiaries

The direct and indirect beneficiaries of this project cannot be linked to the criteria contained in Sec. 102(d) of the FAA.

It is expected that indirect beneficiary linkage can be made under the follow-on Project 0043.

However, residual benefits coming from well development under this project have contributed to agriculture productivity and health-providing potable water to village populations.

21. Unplanned Effects

None noted outside of advantageous impact on agriculture and health.

22. Lessons Learned

Lessons learned are pointed out in Section 23.

23. Factors Related to Unsatisfactory Project Implementation

1. Failure to complete Amran Basin Water Resource Report.
This action is the responsibility of USGS. The USGS project manager departed Yemen October 3, 1977 with the understanding that a draft report would be completed within six months. No draft report has been received by USAID or YARG as of 1/79.

2) Failure to contract for Journeyman hydrologist position.

This action is the responsibility of USAID and AID/W. USAID submitted a PIO/T for this position to AID/W in August 78. As of 1/79 (four months later) a possible qualified candidate has not been identified. The lack of a suitable candidate to lead this project during this interim period prior to start-up of 0043 is affecting project sub-target accomplishments.

Identifying Yemeni for out-country training, procurement of equipment, on-the-job training and lower level institutionalizing of the DOH are a few of the sub-project targets not realized.

It is estimated that this position will not be filled earlier than March 1979. Target date for filling this position was October 1978.

3) Failure to execute a PASA agreement with the USGS for a project manager and short term specialized technical assistance.

This action is the responsibility of AID/W and the USGS. Project implementation called for a USGS project manager to be on site by 1/79. As of 1/79 no agreement has been executed and no project manager identified. The PIO/T, the basis for the PASA agreement, was submitted to AID/W August 78.

The PASA agreement will also cover short term TDY technical specialist inputs to the project.

The failure to move ahead with this PASA agreement will prevent the achievement of the major inputs and outputs targets of this project, i.e., short term OJT training of Yemeni, identification of equipment and commodities to be procured under this project, the development of the DOH organization and identity of Yemeni for out-country short-term training, starting June 1979.