

AID 1020-25 (7-68)				SECURITY CLASSIFICATION		001 PROJECT NUMBER	
PROJECT APPRAISAL REPORT (PAR) (U-446) See M.O. 1026.1				UNCLASSIFIED		439-11-190-065 .3	
002 PAR	MO.	DAY	YR.	003 U.S. OBLIGATION SPAN		004 PROJECT TITLE	
AS OF:	0	1	70	FY 64	THRU FY 79	PD-ADD-415-611003	
006 COOPERATING COUNTRY - REGION - AID/W OFFICE				004 PROJECT TITLE			
Laos				AGRICULTURE DEVELOPMENT IRRIGATION 128			

006 FUNDING TABLE

AID DOLLAR FINANCING-OBLIGATIONS (\$000)	TOTAL	CONTRACT (NON-ADD)	PERSONNEL SERVICES			PARTICIPANTS		COMMODITIES		OTHER COSTS	
			AID	PASA	CONTRACT	DIR. PASA	CONTRACT	DIR. PASA	CONTRACT	DIR. PASA	CONTRACT
CUMULATIVE NET THRU ACTUAL YEAR (FY 19)	4,069	606	1,491	159	533	73	-	1,673	-	67	73
PROPOSED OPERATIONAL YEAR (FY 19)	703	208	311	-	188	39	-	130	-	15	20

CCC VALUE OF P.L. 480 COMMODITIES (\$000) → Thru Actual Year : Operational Year Program :

007 IMPLEMENTING AGENCY TABLE

If contractors or participating agencies are employed, enter the name and contract or PASA number of each in appropriate spaces below; in the case of voluntary agencies, enter name and registration number from M.O. 1551.1, Attachment A. Enter the appropriate descriptive code in columns b and c, using the coding guide provided below.

TYPE CODE b	TYPE CODE c	a. IMPLEMENTING AGENCY	TYPE CODE		d. CONTRACT/PASA/VOLAG NO.	e. LEAVE BLANK FOR AID/W USE
			b.	c.		
1. U.S. CONTRACTOR 2. LOCAL CONTRACTOR 3. THIRD COUNTRY CONTRACTOR 4. PARTICIPATING AGENCY 5. VOLUNTARY AGENCY 6. OTHER:	0. PARTICIPATING AGENCY 1. UNIVERSITY 2. NON-PROFIT INSTITUTION 3. ARCHITECTURAL & ENGINEERING 4. CONSTRUCTION 5. OTHER COMMERCIAL 6. INDIVIDUAL 7. OTHER:	1. U. S. Bureau of Reclamation	4	0	EA (1B) 18-69	
		2.				
		3.				

PART I - PROJECT IMPACT

I-A. GENERAL NARRATIVE STATEMENT ON PROJECT EFFECTIVENESS, SIGNIFICANCE & EFFICIENCY.

This summary narrative should begin with a brief (one or two paragraph) statement of the principal events in the history of the project since the last PAR. Following this should come a concise narrative statement which evaluates the overall efficiency, effectiveness and significance of the project from the standpoint of:

- (1) overall performance and effectiveness of project implementation in achieving stated project targets;
- (2) the contribution to achievement of sector and goal plans;
- (3) anticipated results compared to costs, i.e., efficiency in resource utilization;
- (4) the continued relevance, importance and significance of the project to country development and/or the furtherance of U.S. objectives.

Include in the above outline, as necessary and appropriate, significant remedial actions undertaken or planned. The narrative can best be done after the rest of PART I is completed. It should integrate the partial analyses in I-B and I-C into an overall balanced appraisal of the project's impact. The narrative can refer to other sections of the PAR which are pertinent. If the evaluation in the previous PAR has not significantly changed, or if the project is too new to have achieved significant results, this Part should so state.

008 NARRATIVE FOR PART I-A (Continue on form AID 1020-25 I as necessary): Narratives in previous PARs apply with the following changes and additions:

At present 9 US and 40 TCN Technicians are on board with 13 TCN positions vacant. One U. S. Technician is filling a dual role as Area Irrigation Engineer and Area Agriculture Advisor. Five of the TCN Technicians have had their jobs up-graded and are assigned as Assistant Area Irrigation Engineers.

MISSION DIRECTOR APPROVAL →	SIGNATURE	DATE
	<i>[Signature]</i>	November 17, 1970

PAR CONTINUATION SHEET

This sheet is to be used for any Narrative Sections for which sufficient space has not been provided on the form. Identify each narrative by its Part and Section Designation.

There are now over 170 small irrigation projects constructed in Laos. For accomplishments in FY 70 see OII page 3. Twelve additional pump projects were installed adding about 800 hectares to the irrigable total for the dry season.

The addition to the staff and recent arrival of the Soils Scientist will enable the Irrigation Branch to accomplish better planning and selection of areas to be developed. His duties will also include soils surveys of presently constructed or under construction project lands to assure their proper use and help anticipate and avoid problems which may arise as a result of sustained irrigation.

Construction of the Nam Tan project is progressing approximately as scheduled. The left bank, consisting of 1250 hectares, is completed and operational and concerted efforts are under way toward crop production during the next dry season. The construction of the right bank is progressing satisfactorily with an approximate 50% overall completion. Present plans indicate completion of the major irrigation facilities by the end of FY 72.

An intense effort by the Irrigation Branch at the close of FY 70 resulted in updating the non-expendable project property inventory and establishing complete accountability records.

- (1) Overall performance and effectiveness of project implementation in achieving stated project targets: Previous PARs apply with the following changes: The number of existing projects increased from 150 to 169 and the number of MIG Employees trained in Thailand increased from 30 to 43. The training program has been revised and considerable gains in people trained have been made as shown in O09 page 2 & 2A.
- (2) The contribution to achievement of sector goal plan: Previous PARs apply with the following change: The number of irrigable hectares continues to increase as planned. See O09 page 2.
- (3) Anticipated results compared to costs, i.e., efficiency in resource utilization: Previous PARs apply.
- (4) The continued relevance, importance and significance of the project to country development and/or the furtherance of U.S. objectives: The last PAR applies.

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PART I-B - PROJECT EFFECTIVENESS

I-B-1 - OUTPUT REPORT AND FORECAST - (See detailed instructions.)

DE C. Y/W E LY	2. This section is designed to record progress toward the achievement of each project output target which was scheduled in the PIP, Part II. Where progress toward a target is significantly greater or less than scheduled, describe reason(s) beneath the target.	ACTUAL AND PLANNED OUTPUTS (ALL DATA CUMULATIVE)				
		3 ACTUAL CUM. TO DATE	4. AS OF PRIOR JUNE 30		5 PLANNED BY NEXT JUNE 30	6. PROJECTED TOTAL FOR PROJECT LIFE
			a PLANNED	b. ACTUAL		
	1. <u>IRRIGABLE LAND</u> : * Dry Season Total Hectares: * Wet Season Supplemental (Incl. Dry Seas. Total):	9,400 18,600	9,750 21,050	9,400 18,600	12,350 22,350	20,000 120,000
	2. <u>TRAINING FOR IRRIGATION SERVICE PROFESSIONAL STAFFING</u> : Last PAR applies with the following changes: Progress toward reaching the goal of 63 certificate holding technicians as indicated in the last PAR is practically nil. There is a decided shortage of qualified candidates available. Therefore, in order to develop potential candidates, it was necessary to start at the bottom and work up. The re-oriented training program includes three methods of training: On-the-job, In-Service, and Participant Training. <u>On-The-Job-Training</u> : This is the primary method of training and upgrading sub-professionals. Team Leaders (TCN Project Engineers) train the USAID employees under their supervision in general construction skills such as masonry, concrete work, carpentry, surveying, and earth work. This is a continuous program. Totals: 400† 400† 400 450 750 <u>In-Service-Training</u> : Considering the present weakness of the basic educational system in Laos, in-service training and testing of relatively large numbers of applicants is a means of preparing and selecting candidates for participant training. Of the 250 employees designated as Engineering Aides, many have attended 2 and 3 courses and some have completed 4. The course grades are used to weed-out and up-grade the Engineering Aides, with an attrition rate of about 40%. Dongdok school teachers and rural development workers have also taken courses and this will eventually aid the irrigation program. Considering drop-outs, weed-outs and training given to teachers, the course figures listed below represent the training required for fewer than 400 jobs. Those completing training are now employed by USAID. They will be needed by an expanded RIG Irrigation Service and by water-user's associations when these organizations eventually take over operations now conducted by USAID and also staff the additional operations made necessary by better utilization of irrigation systems. * A. Elementary Engineering Course 268 280 268 313 500 * B. Advanced Engineering Course 192 200 192 242 500 * C. Water Master Course 15 20 15 45 100 D. English/Mathematics Course 15 15 15 45 100 E. Motor Vehicle Driver Course (MTB) 0 - - 30 - * Status indicator for Program Management Information (PMI) System. Additional indicators may be added after experience is gained with the PMI System.	9,400 18,600	9,750 21,050	9,400 18,600	12,350 22,350	20,000 120,000
		400†	400†	400	450	750
		268	280	268	313	500
		192	200	192	242	500
		15	20	15	45	100
		15	15	15	45	100
		0	-	-	30	-

PART I-B - PROJECT EFFECTIVENESS

009

I-B-1 - OUTPUT REPORT AND FORECAST - (See detailed instructions)

1. CODE NO. AID/W USE ONLY	2. This section is designed to record progress toward the achievement of each project output target which was scheduled in the PIP, Part II. Where progress toward a target is significantly greater or less than scheduled, describe reason(s) beneath the target.	ACTUAL AND PLANNED OUTPUTS (ALL DATA CUMULATIVE)				6. PROJECTED TOTAL FOR PROJECT LIFE
		3 ACTUAL CUM. TO DATE	4. AS OF PRIOR JUNE 30		5. PLANNED BY NEXT JUNE 30	
			a. PLANNED	b. ACTUAL		
	<p><u>Participant Training:</u> Candidates for this program are selected from those employees who have successfully completed the In-Service-Training or those who have equivalent training. The goal is to produce graduate engineering technicians from engineering schools in Bangkok, Thailand. The program has been simplified in order to develop essential disciplines within a short period with a minimal budget request. It is planned to continue the program through FY79 commensurate with the presently planned irrigation program. Nearly all participants are required to attend pre-university schooling due to educational differences encountered in Thailand. These participants are all classified as NIS employees.</p> <p>A. Irrigation Engineers (Kasetsart Univ.)</p> <p>B. Irrigation Technicians (Royal Irrigation Department School - 3 year course)</p> <p>C. Civil Engineering (Kasetsart Univ.)</p> <p>D. Draftmanship (Bangkok Tech.)</p> <p>E. Operation & Maintenance (Royal Irrigation Department School -.6 month course)</p> <p>* Participants are enrolled in either school depending on need and/or capabilities.</p>	7	7	7	18	20 *
		6	6	6	6	18 *
		1	1	1	1	5
		0	0	0	1	3
		48	52	48	52	60

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PART I-B - Continued

010

B.2 - OVERALL ACHIEVEMENT OF PROJECT TARGETS

Place an "X" within the bracket on the following seven-point scale that represents your judgment of the overall progress towards project targets:



PART I-C - PROJECT SIGNIFICANCE

011

C.1 - RELATION TO SECTOR AND PROGRAM GOALS (See detailed instructions M.O. 1026.1)

This section is designed to indicate the potential and actual impact of the project on relevant sector and program goals. List the goals in col. b and rate potential and actual project impact in cols. c and d.

a. CODE NO. (AID/W USE ONLY)	SCALE FOR COLUMN c: 3= Very Important; 2= Important; 1= Secondary Importance SCALE FOR COLUMN d: 3= Superior/Outstanding; 2= Adequate/Satisfactory/Good; 1= Unsatisfactory/Marginal	c. POTENTIAL IMPACT ON EACH GOAL IF PROJECT ACHIEVES TARGETS	d. ACTUAL IMPACT ON GOAL TO DATE RELATIVE TO PROGRESS EXPECTED AT THIS STAGE
	b. SECTOR AND PROGRAM GOALS (SEE COUNTRY FIELD SUBMISSION FOR CLARIFICATION OF UN AID LAOS GOALS)		
	The USAID Laos program goal is to foster the maintenance of a neutral and in- dependent government in Laos by providing advice and assistance in the fields of (1) stabilizing the economy, (2) alleviating war caused suffering and disruption, (3) maintaining necessary government services, (4) improving social infrastructure and (5) developing the economy. Project purposes related to this goal are:		
	(a) to assist the RIG maintain existing irrigation facilities and to foster the development of adequate operations and maintenance (O&M) procedures.	3	2
	(b) to help develop the economy through the construction and installation of new irrigation facilities.	2	2

For goals where column c. is rated 3 or 2 and column d. is rated 1, explain in the space for narrative. The narrative should also indicate the extent to which the potential impacts rated 3 or 2 in column c. are dependent on factors external to the achievement of the project targets, i.e., is there a substantial risk of the anticipated impact being forestalled by factors not involved in the achievement of project targets. If possible and relevant, it also would be useful to mention in the narrative your reading of any current indicators that longer-term purposes, beyond scheduled project targets, are likely or unlikely to be achieved. Each explanatory note must be identified by the number of the entry (col. b) to which it pertains.

012 NARRATIVE FOR PART I-C.1 (Continue on form AID 1020-25 I):

Narrative in FY 69 PAR applies with the following changes:

- (a) The Irrigation Branch has instigated a re-habilitation/re-construction, repair, and maintenance program in several areas in order to bolster and maintain necessary government services. The re-construction of dams and canal systems damaged by flood waters has necessarily been added to the program. Also the lack of adequate operations and maintenance of several projects by the farmer operators had lead to considerable re-habilitation work. This added work has consequently slowed the attainment of planned goals of putting additional hectares under irrigation. Nevertheless, the progress toward attainment of planned goals is still satisfactory as evidenced in 009 page 2.

Considerable progress has been made in attaining training goals. See 009 page 2 & 2A

- (b) The Irrigation program has contributed to the development of the economy by the construction and installation of 19 projects providing supplemental water to 2700 hectares in the wet season and by providing a full water supply for 1800 of these same hectares to permit a second crop in the dry season.

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PART I-C - Continued

C.2 - GENERAL QUESTIONS

These questions concern developments since the prior PAR. For each question place "Y" for Yes, "N" for No, or "NA" for Not Applicable in the right hand column. For each question where "Y" is entered, explain briefly in the space below the table.	MARK IN THIS COL.
013 Have there been any significant, unusual or unanticipated results not covered so far in this PAR?	N
014 Have means, conditions or activities other than project measures had a substantial effect on project output or accomplishments?	Y
015 Have any problems arisen as the result of advice or action or major contributions to the project by another donor?	N
016 If the answer to 014 or 015 is yes, or for any other reason, is the project now less necessary, unnecessary or subject to modification or earlier termination?	Y
017 Have any important lessons, positive or negative, emerged which might have broad applicability?	N
018 Has this project revealed any requirement for research or new technical aids on which AID/W should take the initiative?	N
019 Do any aspects of the project lend themselves to publicity in newspapers, magazines, television or films in the United States?	Y
020 Has there been a lack of effective cooperating country media coverage? (Make sure AID/W has copies of existing coverage.)	N
021 NARRATIVE FOR PART I-C.2 Identify each explanatory note by the number of the entry to which it pertains. (Continue on form AID 1020-25 I as necessary):	

Narratives in previous PARs apply with the following change :

014 - Mission policy decision (to defer construction of planned large scale projects and paddy irrigation projects in presently rice self-sufficient areas) will reduce project output. See narrative in 107 on page 9 and 9A.

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PART II - IMPLEMENTATION REPORT

II-A - STATUS OF SCHEDULE

022 A-1 - INDIVIDUAL ACTIONS (See detailed instructions M.O. 1026.1). This is a listing of major actions or steps which were scheduled for physical start or continuing implementation in the reporting period as reflected in the Project Implementation Plan, Part I.

(a) PIP ITEM NO	MAJOR ACTIONS OR STEPS; CAUSES AND RESULTS OF DELAYS; REMEDIAL STEPS	(b) STATUS - PLACE AN "X" IN, ONE COLUMN		
		(1) BEHIND SCHEDULE	(2) ON SCHEDULE	(3) AHEAD OF SCHEDULE
	Preparation of Activity Proposals Preparation of budget for Irrigation Branch. Prepare and Finalize PACT Contract		X X Completed	
	Planning for Viengkhe Plains Irrigation		X	
	Viengkhe Plains Irrigation:			
	Design: 1st block 6000 Ha. 2nd block 6000 Ha. 3rd block 6000 Ha. 4th block 5000 Ha.	Deferred decisions	pending programming	
	Construction:		Deferred	
	Self-Help projects		X	
	a. Planning		X	
	b. Designing		X	
	c. Construction		X	
	Training		X	
	a. Selecting and Processing Participants			
	1. For 4 yr. College Degree			
	2. For 3 yr. certificate			
	3. For 6 mo. training			
	b. Short Course Training			
	1. Elementary Course			
	2. Advanced Course			
	c. On-The-Job Training			
	See revised training schedules in JO9 pages 2 and 2A.			

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PART II - Continued

023

II-A.2 - OVERALL TIMELINESS

In general, project implementation is (place an "X" in one block):

(a) On schedule	(As Adjusted (see 107 on pages 9 and 9A))	X
(b) Ahead of schedule		
(c) Behind schedule		
(1) AID/W Program Approval		
(2) Implementing Agency (Contractor/Participating Agency/Voluntary Agency)		
(3) Technicians		
(4) Participants		
(5) Commodities (non-FFF)		
(6) Cooperating Country		
(7) Commodities (FFF)		
(8) Other (specify):		

BLOCK (c): If marked, place an "X" in any of the blocks one thru eight that apply. This is limited to key aspects of implementation, e.g., timely delivery of commodities, return of participants to assume their project responsibilities, cooperating country funding, arrival of technicians.

II-B - RESOURCE INPUTS

This section appraises the effectiveness of U.S. resource inputs. There follow illustrative lists of factors, grouped under Implementing Agency, Participant Training and Commodities, that might influence the effectiveness of each of these types of project resources. In the blocks after only those factors which significantly affect project accomplishments, write the letter P if effect is positive or satisfactory, or the letter N if effect is negative or less than satisfactory.

1. FACTORS-IMPLEMENTING AGENCY (Contract/Participating Agency/Voluntary Agency)

024	IF NO IMPLEMENTING AGENCY IN THIS PROJECT, PLACE AN "X" IN THIS BLOCK:		032 Quality, comprehensiveness and candor of required reports	P
			033 Promptness of required reports	
025	Adequacy of technical knowledge	F	034 Adherence to work schedule	
026	Understanding of project purposes		035 Working relations with Americans	
027	Project planning and management		036 Working relations with cooperating country nationals	
028	Ability to adapt technical knowledge to local situation		037 Adaptation to local working and living environment	
029	Effective use of participant training element		038 Home office backstopping and substantive interest	
030	Ability to train and utilize local staff		039 Timely recruiting of qualified technicians	
031	Adherence to AID administrative and other requirements		040 Other (describe):	

2. FACTORS-PARTICIPANT TRAINING

041	IF NO PARTICIPANT ELEMENT IN PROJECT, PLACE AN "X" IN THIS BLOCK:		TRAINING UTILIZATION AND FOLLOW UP	P
			052 Appropriateness of original selection	
	PREDEPARTURE		053 Relevance of training for present project purposes	P
042	English language ability		054 Appropriateness of post-training placement	P
043	Availability of host country funding		055 Utility of training regardless of changes in project	P
044	Host country operational considerations (e.g., selection procedures)	P	056 Ability to get meritorious ideas accepted by supervisors	
045	Technical/professional qualifications		057 Adequacy of performance	
046	Quality of technical orientation		058 Continuance on project	
047	Quality of general orientation		059 Availability of necessary facilities and equipment	
048	Participants' collaboration in planning content of program		060 Mission or contractor follow-up activity	P
049	Collaboration by participants' supervisors in planning training		061 Other (describe):	
050	Participants' availability for training	N		
051	Other (describe):			

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PART II-B - Continued

3. FACTORS-COMMODITIES

PLACE AN "X" IN APPROPRIATE BLOCK:	062 PFF	063 NON-PFF	X	064 NO COMMODITY ELEMENT	072 Control measures against damage and deterioration in shipment.
065 Timeliness of AID/W program approval (i.e., PIO/C, Transfer Authorization).					073 Control measures against deterioration in storage.
066 Quality of commodities, adherence to specifications, marking.				P	074 Readiness and availability of facilities.
067 Timeliness in procurement or reconditioning.					075 Appropriateness of use of commodities.
068 Timeliness of shipment to port of entry.					076 Maintenance and spares support.
069 Adequacy of port and inland storage facilities.					077 Adequacy of property records, accounting and controls. P
070 Timeliness of shipment from port to site.					078 Other (Describe):
071 Control measures against loss and theft.					

Indicate in a concise narrative statement (under the heading a. Overall Implementation Performance, below) your summary appraisal of the status of project implementation, covering both significant achievements and problem areas. This should include any comments about the adequacy of provision of direct hire technicians as well as an overall appraisal of the comments provided under the three headings (b, c & d) which follow. For projects which include a dollar input for generation of local currency to meet local cost requirements, indicate the status of that input (see Detailed Instructions).

Discuss separately (under separate headings b, c & d) the status of Implementing Agency Actions, Participants and Commodities. Where above listed factors are causing significant problems (marked N), describe briefly in the appropriate narrative section: (1) the cause and source of the problem, (2) the consequences of not correcting it, and (3) what corrective action has been taken, called for, or planned by the Mission. Identify each factor discussed by its number.

079 NARRATIVE FOR PART II-B: (After narrative section a. Overall Implementation Performance, below, follow, on form AID 1020-251 as needed, with the following narrative section headings: b. Implementing Agency, c. Participants, d. Commodities. List all narrative section headings in order. For any blank which are not applicable, mark them as such and follow immediately below with the next narrative section heading.)

a. Overall Implementation Performance. Previous PARs apply with the following change:

Overall performance is satisfactory; considering limiting factors beyond project control such as security and changing policy. See 014 page 4.

b. Implementing Agency: Previous PARs apply with the following changes: The U.S. Bureau of Reclamation Feasibility Report on the Vientiane Pump Irrigation Project (received) fulfills the purpose for which it was intended and demonstrates the feasibility of providing early irrigation development of a 10,000 hectare unit of land in the Vientiane Plain prior to the construction of the proposed Pa-long Dam.

039 - The U.S. Technician (Soils Adviser) discussed in the last PWR is now on board and implementing his program. See narrative in 008 page 1A.

c. Participants: Previous PARs apply with the following changes:

042 - The English language training program has decidedly upgraded the ability of available candidates.

045 - The Irrigation Training Program has been reversed and satisfactory progress is being made in upgrading the technical and professional qualifications of potential participants. See 009 page 2.

d. Commodities: Previous PARs apply with the following change:

077 - The Irrigation Branch stock control record system has been reorganized and controls more definitely established.

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PART III - ROLE OF THE COOPERATING COUNTRY

The following list of illustrative items are to be considered by the evaluator. In the block after only those items which significantly affect project effectiveness, write the letter P if the effect of the item is positive or satisfactory, or the letter N if the effect of the item is negative or less than satisfactory.

SPECIFIC OPERATIONAL FACTORS:

080	Coordination and cooperation within and between ministries.	
081	Coordination and cooperation of LDC gov't. with public and private institutions and private enterprise.	
082	Availability of reliable data for project planning, control and evaluation.	N
083	Competence and/or continuity in executive leadership of project.	N
084	Host country project funding.	N
085	Legislative changes relevant to project purposes.	N
086	Existence and adequacy of a project-related LDC organization.	N
087	Resolution of procedural and bureaucratic problems.	
088	Availability of LDC physical resource inputs and/or supporting services and facilities.	N
089	Maintenance of facilities and equipment.	N
090	Resolution of tribal, class or caste problems.	
091	Receptivity to change and innovation.	P
092	Political conditions specific to project.	
093	Capacity to transform ideas into actions, i.e., ability to implement project plans.	N
094	Intent and/or capacity to sustain and expand the impact of the project after U.S. inputs are terminated.	
095	Extent of LDC efforts to widen the dissemination of project benefits and services.	P
096	Utilization of trained manpower (e.g., participants, counterpart technicians) in project operations.	P
097	Enforcement of relevant procedures (e.g., newly established tax collection and audit system).	
098	Other:	
HOST COUNTRY COUNTERPART TECHNICIAN FACTORS:		N
099	Level of technical education and/or technical experience.	
100	Planning and management skills.	N
101	Amount of technician man years available.	N
102	Continuity of staff.	
103	Willingness to work in rural areas.	P
104	Pay and allowances.	N
105	Other:	

In the space below for narrative provide a succinct discussion and overall appraisal of the quality of country performance related to this project, particularly over the past year. Consider important trends and prospects. See Detailed Instructions for an illustrative list of considerations to be covered.

For only those items marked N include brief statements covering the nature of the problem, its impact on the achievement of project targets (i.e., its importance) and the nature and cost of corrective action taken or planned. Identify each explanatory note.

106 NARRATIVE FOR PART III (Continue on form AID 1020-25 I):

FY'69 PAR applies with the following changes:

082 - Reliable data is becoming more and more available from surveys, completed projects, and under-construction projects.

089 - The Operations and Maintenance program is making progres, however, the program is still unsatisfactory. Remedial action is indicated in 009, page 2A which shows 48 LDC employees trained in the Operations and Maintenance program. These men have been assigned to projects and are working on the problems.

PART IV - PROGRAMMING IMPLICATIONS

IV-A - EFFECT ON PURPOSE AND DESIGN

Indicate in a brief narrative whether the Mission experience to date with this project and/or changing country circumstances call for some adjustment in project purposes or design, and why, and the approximate cost implications. Cover any of the following considerations or others that may be relevant. (See Detailed Instructions for additional illustrative considerations.) Relevant experience or country situations that were described earlier can simply be referenced. The spelling out of specific changes should be left to the appropriate programming documents, but a brief indication of the type of change contemplated should be given here to clarify the need for change.

For example, changes might be indicated if they would:

1. better achieve program/project purposes;
2. address more critical or higher priority purposes within a goal plan;
3. produce desired results at less cost;
4. give more assurance of lasting institutional development upon U.S. withdrawal.

107 NARRATIVE FOR PART IV-A (Continue on form AID 1020-25 I):

The last PAR proposed expansion of the irrigation program to include larger projects in food deficit areas. The first of these proposed larger projects, the Vientiane Pumping Project of 10,000 hectares, has been the subject of considerable discussion since the recent receipt of the U.S. Bureau of Reclamation feasibility report. The Mission review is summarized in the following items:

1. The report fulfills the purpose for which it was intended and demonstrates the feasibility of providing early irrigation development of a unit of the land in the Vientiane Plain prior to the construction of Pa Mong Dam.
2. The project is separable into two distinct parts - flood control and irrigation. The flood control features could be constructed prior to construction of the irrigation facilities without detriment to the latter.
3. Because of prior demands on available RIG organizations and personnel, the current security, political and economic situation in Laos, and for other compelling reasons, construction of the irrigation system should not be undertaken until additional studies are made, until more experience is gained in the operation of large irrigation systems, and until other factors are such that success of the project can be more definitely assured than at present.

CONTINUED ON NEXT PAGE

IV-B - PROPOSED ACTION

108 This project should be (Place an "X" in appropriate block(s)):

- | | |
|--|---|
| 1. Continued as presently scheduled in PIP. | |
| 2. Continued with minor changes in the PIP, made at Mission level (not requiring submission of an amended PIP to AID/W). | |
| 3. Continued with significant changes in the PIP (but not sufficient to require a revised PROP). A formally revised PIP will follow. | X |
| 4. Extended beyond its present schedule to (Date): Mo. ___ Day ___ Yr. ___. Explain in narrative, PROP will follow. | |
| 5. Substantively revised. PROP will follow. | |
| 6. Evaluated in depth to determine its effectiveness, future scope, and duration. | |
| 7. Discontinued earlier than presently scheduled. Date recommended for termination: Mo. ___ Day ___ Yr. ___ | |
| 8. Other. Explain in narrative. | |

109 NARRATIVE FOR PART IV-B:

Last PAR applies with the following change:

Changes in program and program implementation as indicated in 107 above and on page 9A will require a revised PIP. However, action will be deferred pending further Mission decisions at the annual Mission program review.

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PAR CONTINUATION SHEET

This sheet is to be used for any Narrative Sections for which sufficient space has not been provided on the form. Identify each narrative by its Part and Section Designation.

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4. Immediate construction of the flood protection system for Vientiane city is economically justified, engineeringly feasible, and badly needed for the protection and security of the city. The Mission supports the flood control project and urges implementation of the final design, and construction phases as quickly as possible.

Mission reviews and discussions of the current agricultural situation have tended to militate against the advisability of proceeding too quickly into the construction phase of proposed irrigation projects. Perhaps the most important consideration concerning the Irrigation Branch was the question of whether the RIG has the capability of providing the manpower inputs necessary for operating, maintaining, and managing a large irrigation project. The RIG Irrigation Service Staff totals less than 50 persons. Of this number only one person, the Director, holds a college degree (B.S. in Agriculture). There are no engineers on the staff and most of the staff have less than the equivalent of high school educations. Although USAID has a program of training engineers and technicians for the RIG Irrigation Service (See 009 Page 2 & 2A), no funds are available to the Service to hire any additional personnel. The RIG capability will be very hard pressed to supply O&M personnel for the Tha Ngou Project soon to be constructed and the Nam Tan Project now under construction by USAID. There is little or no evidence to date that the RIG has the ability, intent, or desire to provide necessary personnel or to make water laws, assess taxes and water charges, and to take all the other steps necessary to make an irrigation project work.

The irrigation program for FY 71 proposes to concentrate on making better use and up-grading existing projects. The program will include re-habilitation, operation and maintenance, and the establishment of water-users associations. It is also planned to continue construction of pump projects and smaller gravity projects where feasibly justified and where desired and supported by local farmers. Justification for construction of additional projects in rice surplus areas such as Pakse and Savannakhet will be on a basis other than for rice production. One pressing problem is the increasing scarcity of secure areas in which to develop good gravity projects. If security improves, so do opportunities for more good projects. *contingent on security*

Pending necessary approvals, it is planned to proceed with the construction of flood control facilities to protect Vientiane Plain project lands and the city of Vientiane. The Irrigation Branch has the capability to supervise the design and construction of this project. The flood control features are estimated to cost \$3,252,000. Of this amount, about \$1,025,000 is for construction of the Nam Ngum Dikes which could probably be eliminated if so desired. The Nam Ngum Dikes are believed to be not necessary for the protection of Vientiane city alone. The Mekong River Dike and structures would thus cost approximately \$2.3 million. For this investment, annual benefits of about \$700,000 would be derived from reduced flood damages and urban land value enhancement in the city of Vientiane.

For real and lasting accomplishment the Irrigation Program will continue to include planning for long range development of the water resources of Laos on a multi-purpose basis. This includes basic data collection; inventories of available information; and preliminary surveys, plans, designs, estimates, and cost benefit studies.