



**SYSTEM ENGINEERING INTERNATIONAL CORP.
SEI CORPORATION
Power and Control Systems**

717 K Hammonds Ferry Road
Linthicum Heights, Maryland 21090
(301) 789-9500 TELEX: 908243 SEI CORP. BAL

November 24, 1982

Agency for International Development
AFR/DR/SWAP
Washington, D. C. 20523

Attention: Michael Foster, Project Coordinator

Subject: Final Report
Contract No. AFR-0002-C-00-2047-00;
Guinea-Bissau Agricultural Development Project,
Project No. 657-0002

Enclosure: (1) Final Report (see Distribution)
(2) Training Material - 1 set

Gentlemen:

The Final Report for the Subject Project is forwarded herewith. One set of Training Material is also forwarded. This submittal completes the Subject contract requirements.

As described in the final report, the training effort was successfully accomplished. Although many problems were encountered with the craft equipment, our training team was able to keep on schedule and accomplish a high degree of learning proficiency on the part of the students. Our training team also performed a considerable amount of extra work in maintenance and repair of the craft to keep it operational for training.

Based on discussions and comments from the local AID project personnel, the efforts of our training team were rated very high and were recognized to be over and above the normal required contract effort. We appreciate their comments in that respect.

Only one set of training material is delivered herewith. As requested by the local AID Project People, 3 copies of training material were left in Guinea-Bissau, when our Instructors departed.

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We are pleased to have performed this work and are looking forward to assisting AID in similar or follow-on projects of this nature.

Very truly yours,

Systems Engineering Int'l Corp.



J. J. Gibson
Vice President

JJG/PWH/cl

Final Report Distribution:

US AID/Bissau	-	1 copy (Portuguese), 1 copy (English)
AFR/DR/SWAP	-	1 copy (Portuguese), 1 copy (English)
Contracting Officer	-	1 copy (English)
AID Bureau for Dev. Info	-	2 copies (English) ←
Program Office	-	1 copy (English)

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FINAL REPORT

CONTRACT NO.: AFR-0002-C-00-2047-00
PROJECT NO.: 657-0002
PROJECT TITLE: GUINEA-BISSAU AGRICULTURAL DEVELOPMENT PROJECT

1. SUMMARY:

The training project was conducted over a 5-month time period with the basic schedule as follows:

Complete Preliminary Training Material (in English)	08/16/82
Complete Review and Portuguese Translation	09/03/82
Submit Training Material to AID for Approval	09/17/82
Conduct Instructor Review/Familiarization	09/17/82
Procure Necessary Training Aids and Prepare Them for Transmittal to Guinea-Bissau	09/29/82
Training Material Approved by AID	09/27/82
Finalize and Print Material	09/29/82
Pre-Training Inspection	10/06/82
Start Training in Guinea-Bissau	10/11/82
Complete Training in Guinea-Bissau	11/06/82
Instructor Completes Observation/Repairs	11/09/82
Complete Project/Delivery Final Report	11/24/82

The training was accomplished as defined and developed in the Training Material with 2 basic exceptions: (1) more time was devoted to on-craft than classroom training; and (2) due to problems with the craft, much of the training involved actual maintenances and repair vs. simulated tasks. Both above factors enhanced to training results.

The overall condition of the craft necessitated several repairs to keep on schedule with training. Although this was accomplished by our Instructors, there is much concern for the craft remaining in good operating condition. This factor is the subject of other correspondence to AID.

2. ANALYSIS OF KNOWLEDGE AND SKILLS LEARNED BY THE TRAINEES:

The Trainees gained basic skills for operating and maintaining the craft and considerable knowledge of craft operation and maintenance characteristics. The following are major factors of knowledge and skills gained:

- Portuguese language is/was not commonly used, but translated documents can be used as reference material by single (only 1) crew member with reading and writing skills. Other Minister of Agriculture personnel and AID personnel can also use the material.
- Daily reviews and hands-on demonstration showed high knowledge retention/good memory of trainees.
- The Boat Captain trainee demonstrated full capability to operate craft in currents, tides and landing dock areas.
- One Boat mechanic trainee has good natural mechanical skills and gained more than adequate knowledge of equipment maintenances tasks.
- The Boat Mate (Captain's assistant) trainee gained adequate skills to assist in craft operation for the Captain.
- The 3 Boat Handlers/Helpers trainees gained proficiency in handling lines, docking and loading cargo.
- Safety was continuously emphasized, but it is uncertain whether or not the trainees have inherent awareness of safety hazards for personnel and equipment.

In addition to the trainees, Mr. Alan Malina of AID was present throughout the training effort. Mr. Malina gained comprehensive knowledge and skills in maintenances and operation of the craft.

3. SYNOPSIS OF DEMONSTRATIONS OF CRAFT OPERATION AND MAINTENANCE

All training topics were covered in classroom discussions and in on-craft demonstrations, per the approved training schedule.

A summary of daily activities in Guinea-Bissau is given below. Additional details of training, maintenances and repairs is provided by the Training Material and by separate correspondence/reports concerning repairs made on the craft.

Oct 4	Monday	Instructors Wathen & Cruces departed U.S.
Oct 6	Wednesday	Wathen & Cruces arrived Guinea-Bissau. Transported to U.S. Aide office and introduced to AID Staff Members including Mrs. Cheryl McCarthy, Project Mgr, and Mr. Alan Malina Project Engineer. Visited LCM-6 located at Port Authority, found hard and fast aground, moved to a suitable location at Port Authority Pier.
Oct 7	Thursday	Commenced Pre-Training inspection of LCM-6 and modification of deficiencies noted.
Oct 8	Friday	Continued craft Pre-Training checkout.
Oct 9	Saturday	Continued checkout and completed modification. Requested repair parts from U.S.
Oct 10	Sunday	Day off
Oct 11	Monday	Met with Ministry of Agriculture Aide and six man training crew. Completed course Introduction.
Oct 12	Tuesday	Class room instruction.
Oct 13	Wednesday	Adjourned classroom training. Commenced maintenance, service, and operation instructions.
Oct 14	Thursday	Underway instruction on operation and servicing.
Oct 15	Friday	Dockside instruction on maintenance and servicing.
Oct 16	Saturday	Commenced repairs and continued training.
Oct 17	Sunday	Day off
Oct 18	Monday	Boat underway training in operation and maintenance.
Oct 19	Tuesday	Open all voids for inspection/instruction.
Oct 20	Wednesday	Continued training on maintenance and preservation of boat.

Oct 21 Thursday Boat underway for landing and retraction training.

Oct 22 Friday Boat underway for vehicle transfer up river.

Oct 23 Saturday Boat underway for beaching and retraction instructions.

Oct 24 Sunday Day off

Oct 25 Monday Assisted in repairs maintenance instruction.

Oct 26 Tuesday electrical maintenance/instructions.

Oct 27 Wednesday Classroom instruction on boat handling.

Oct 28 Thursday Boat underway beaching and ramp operations training.

Oct 29 Friday Repaired rudders.

Oct 30 Saturday Installed new manifolds and new salt water pumps.

Oct 31 Sunday Boat underway to off shore Island for training.

Nov 1 Monday Instructed on fuel system.

Nov 2 Tuesday Boat underway with trainees in full control of boat.

Nov 3 Wednesday Trainees conducted beaching and retraction.

Nov 4 Thursday Boat underway with trainees in control of boat.

Nov 5 Friday Training completed. Withen departed Guinea-Bissau for Lisbon. Cruces tested trainees.

Nov 6 Saturday Cruces remained in Bissau to complete drawings.

Nov 7 Sunday Day off

Nov 8-9 Monday Cruces awaiting transportation, accompanied crew on boat operation. Performed pump and steering repairs.

Nov 10 Wednesday Cruces departed Bissau. All in-country tasks completed.