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# The University of Michigan

FEDERAL FINANCIAL OPERATIONS

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325 WEST ENGINEERING BUILDING  
ANN ARBOR, MICHIGAN 48109  
93655-43  
PD-AAP-063/53  
15N-33942

January 27, 1984

347/1060

Dr. Kenneth Osborne  
S & T/AC  
SA-18  
U.S. Agency for International Development  
Washington, D.C. 20523

Reference: DAN-5543-G-SS-2103; U/M #020267

Dear Dr. Osborne:

The required semi-annual Progress Report and Financial Status Report have been completed for the period July 1, 1983 through December 31, 1983.

If you have any questions or require additional information, please contact me at (313) 764-6247.

Sincerely,

Dawn M. Larson  
Senior Accountant

DML:dak

Enclosures

**STRENGTHENING OF SOUTHEAST ASIAN**

**AQUACULTURE INSTITUTIONS**

**Progress Report to Agency for  
International Development**

**Grant No. DAN-5543-G-SS-2103-00**

**January 1984**

**by**

**James S. Diana  
Principal Investigator**

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Progress on this grant since initiation include the organization of a workshop (reported in the January 1983 progress report), plus the running of that workshop and preparation of a draft document on aquaculture in southeast Asia (submitted in June 1983 progress report). The draft document was sent to all participants and to Dr. Karl Lagler for review, and comments on the document and future suggestions for the grant were filed by many persons, the latest suggestions arriving December 15. Since the future progress was dependent on these comments, little has been done since then. I have recently completed some of the future planning on the grant and will outline that below.

Some personnel changes have been made or are planned. I have formally been appointed project director for this grant by The University of Michigan, and will be responsible for all future planning. I will coordinate all plans with Dr. Lagler, but the ultimate decisions will rest on me. We have also decided to pay one-sixth of the salary of Dr. Kwei Lin to work as a liason and local contact for this project. He is a research scientist with U of M, and is currently research investigator for the AID sponsored Collaborative Research Support Project in Bangkok. We believe that this addition will keep things moving in Thailand, and will allow more effective work on both grants.

I will also move to begin the field research outlined in our report of June 1983. I plan to have Dr. Wiang Chuapoehuk work on Sutch's catfish, Mrs. Uthairat Na Nakorn work on snakehead seed production, Dean Mek Boonbrahm supervise work on sand goby seed production, Mr. Prawit Suramiranat work on predator control in tawes culture, and Dean Wit Tarnchalanukit work on walking catfish. The research subjects have been suggested to them, and financial and logistic support (as planned in the grant) also committed to this work. To

insure accomplishment of these goals, we also plan one or two site visits to Thailand this summer.

The computer models have not been developed beyond their state at the workshop. Presently, the models for the three carps are complete and appear reasonably accurate. The model for Macrobrachium is about half completed. Eventually, we plan to complete models for the sand goby, Clarias, and Pangasius as well. The other species are too general in their feeding to model accurately (Tilapia), or too poorly known to evaluate. To complete this work, I plan to bring in a new graduate student to develop the models.

The above progress, mainly in planning, should allow the middle stage of this grant work to move steadily towards completion. We plan to rewrite the workshop proceedings, taking into account all comments received, and publish it as a special publication of the U of M. It will be titled "Production systems for commonly cultured fishes of Southeast Asia", and will include only conceptual model networks. Once the final models are completed, we will look towards publishing some of the material under a different format.