

SCIENCE AND TECHNOLOGY INFORMATION
TECHNOLOGY TRANSFER TO ASIA, AFRICA, AND
THE NEAR EAST

SECOND QUARTER REVIEW 6/30/79

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PROJECT NO. 931-1114

MANAGED BY

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Introduction

This paper is the second Quarterly Report of the NTIS Developing Country Staff for FY 79. During this quarter the Developing Country Staff instituted and initiated several major program components that increase and facilitate the dissemination of United States Scientific and Technical Information to developing countries and improve the abilities and cooperation among members of the project's International Technical Information Network which has grown to include 14 agencies in 11 African and Asian countries. Under the program these agencies' contacts with other information centers worldwide have increased and their services to their clients have improved as the agencies' organization has matured and grown.

This report presents an overview of the quarter's activities and provides concrete examples of progress toward specific project goals. For instance:

- The International Technical Information Network's abilities to disseminate United States Scientific and Technical Information were expanded through the addition of Centre for Applied Science and Technology in Nepal; and the Centre National de la Recherche Scientifique et Technologique in Gabon.
- The Bangladesh Scientific Technology Center signed the agreement to join the program and is awaiting approval by higher government authorities to start program activities.
- Field trips were made in India, Pakistan, Thailand, Sri Lanka, and Bangladesh to conduct user education seminars and consult with Network members.
- The first edition of a French language AMTID was produced and distributed to improve program outreach in francophone Africa.
- Case studies were conducted in Indonesia, the Philippines, and Thailand to assess and improve program effectiveness.

Project Management

NTIS staff and contract personnel working on the project full- or part-time were:

Terrance Lindemann, Foreign Affairs Administrator
*David Shonyo, Foreign Affairs Officer, Asia, Africa, and the Near East
Vietta Dowd, Information Systems Specialist
*John Hounsell, Foreign Affairs Analyst, Africa
Rita Cunningham, Administrative Assistant
Francisco Pardo de Zela, Case Studies Specialist
Marion Janniche, Administrative Assistant
Nancy Dolphin, Secretary
*Judy Randolph, Secretary
Pauline Gilmer, Customer Inquiry
Mildred Johnson, Order Processing

*Full time.

Several important steps were taken to facilitate the flow of United States Scientific and Technical Information to developing countries and to greatly expand the number of Appropriate Technology reports available through the program.

Highlights of the quarter were:

- Responsibility for NTIS' agreements in India were transferred from the Office of Product Management to the Developing Country Staff in order to better able to cope with the special problems of technology transfer in developing countries. This arrangement will also serve to integrate the Indian agencies more closely with Network activities allowing project countries to benefit from India's vast Appropriate Technology materials and experience.
- Approximately 2/3 of the RTAC/AID French language series "Techniques Americaines" were input into the NTIS data base establishing the basis of an NTIS French Appropriate Technology collection--making the program much more advantageous to francophone Africa.
- D. Shonyo met with E. Collins (NTIS Acquisitions) and B. Beh and her staff (NTIS Input Processing Division) on March 1 to work out details concerning the input processing of all US AID funded documentation and the performing of certain bibliographic control services for DSB/DIU.

On March 28, a conference was held between various NTIS chiefs and representatives of AID's Office of Development Information concerning an agreement to input AID documentation and perform certain bibliographic control functions for AID. NTIS is now awaiting action from AID to start this activity.

- Melvin S. Day, T. Lindemann, and Dave Shonyo met with Lida Allen, the new Director of AID DS/DIU, to brief her on NTIS activities, consult on NTIS involvement in DIU programs, and consider future projects for ASIA, AFRICA, and the NEAR EAST.

Cooperating Agency Agreements

- A new cooperating agency has been added to the network--the Research Centre for Applied Science and Technology (RECAST) in Kathmandu, NEPAL. The agreement is effective through February 1980.
- The BANGLADESH Scientific Technology Center (BANSDOC) in Dacca has signed the agreement to join the USAID network. The agreement is awaiting approval by higher authorities in the government of BANGLADESH.
- A Cooperating Agency agreement has been signed by the Centre National de la Recherche Scientifique and Technologique (CENAREST) in GABON. CENAREST will meet the information needs of GABON, and project countries, CAMEROON, ZAIRE, BURUNDI, and RWANDA. This is a regional arrangement conceived to expedite project activity in these former French colonies.

- The cooperating agency agreement with the SRI LANKA Scientific and Technical Information Center has been extended to March 31, 1980.

Field Trips

T. Lindemann consulted with the U.S. Embassy Science Counselor in Tokyo concerning Japanese technology acquisitions and with USAID and cooperating agencies in Bangkok and Bombay. In the states of Maharashtra and Andhra Pradesh he conducted user education seminars. In Thailand, he visited Chiang Mai to bring program benefits to up-country users and to brief U.S. and consulate staff.

V. Dowd conducted field visits in Colombo, Sri Lanka; Karachi, Lahore and Islamabad, Pakistan; Madras and Bangalore, India; and Dacca, Bangladesh.

Cooperative Activities

- T. Lindemann participated in an UNCSTD (UN Conference on Science and Technology for Development) meeting with Ambassador Jean Wilkowski, the U.S. Coordinator.
- J. Hounsell met with Mr. Martin Anochie, International City Managers Association, NIGERIA, on March 21 and briefed him on the NTIS/AID program.
- J. Hounsell met with Mr. Herbert H. Werlin of the Council for International Urban Liaison and editor of The Urban Edge on March 30. The NTIS/AID program was explained and agreement was made to exchange subscriptions to The Urban Edge and AMTID; mail lists will also be exchanged.
- Frank Post briefed a foreign service officer going to INDONESIA on program activities there.
- Dave Shonyo met with Ms. L.N. Adler of the Denver Research Institute (DRI) to discuss possible DRI involvement in future project educational and training activities.
- V. Dowd attended a meeting on March 27 of the U.S. National Committee to the International Committee for Building Research, Studies and Documentation at the National Academy of Sciences. (Ms. Dowd was appointed as a member of the full committee in 1974 and to the Executive Committee in 1976).
- V. Dowd attended the March 29 meeting of the Interagency Working Group on UNESCO, Science Sub-Committee at the Department of State.
- Frank Post met with Hans Gassman, of OECD, on March 5 to discuss guidelines being established by OECD governing trans-border data flows, including possible impact of these guidelines on LDCs.
- Representatives of Experience, Inc. briefed Developing Country Staff members on a large appropriate technology program that organization is undertaking in AFRICA under AID's sponsorship. Several possible ways in which NTIS could support the program were discussed.

Cooperating Agency Communication

- ° The manual How to Use the NTIS Order Processing System was updated. Comments, corrections, and suggestions were solicited from various NTIS line personnel.
- ° Two issues of "ACCESS", the network bulletin, were distributed to Cooperating Agencies, AID Missions, and other network participants. The January issue introduced NTIS' new Director, Melvin S. Day, and announced the Panama Conference. The March issue featured an interview with Lida Allen, Director of AID DS/DIU. ACCESS informs the Network's members of one another's activities, promoting an active international information exchange and technology transfer among the participating countries.

Training and Consultation

- ° Fifteen applications from 12 countries had been received for attendance at the Information Systems Workshop scheduled for April 2-13, 1979. Countries to be represented from Asia and Africa are: KOREA, TUNISIA, and ZAIRE.
- ° A workbook for use at the Information Systems Workshops was completed. This workbook will be used with the April and September Information Systems Workshop and copies will be made available to all cooperating agencies.
- ° T. Lindemann conducted user education seminars in Bombay and Hyderabad. V. Dowd held user education sessions in Colombo, Bangalore, and Islamabad.

Access and Dissemination

- ° D. Shonyo and others from NTIS' Product Management and Input Processing Division met with representatives of the firm Tippetts-Abbott-McCarthy-Stratton (TAMS) on March 19 concerning the input of a large series of documents done by TAMS on AFRICAN Water Resource Utilization.
- ° The "Technical Information for Development" brochure was printed and is ready for distribution. This brochure describes the U.S. Government project to aid international development through the NTIS/AID program (copy attached).
- ° The NTIS Best Sellers List, which contains 100 report titles is being mailed every month to all cooperating agencies.

Application of Modern Technology to International Development (AMTID)

AMTID is the single most effective tool for announcing to target audiences in developing countries the appropriate technology material available to them from NTIS' cooperating agencies and elsewhere. AMTID also announces AT material available from other recognized AT organizations such as VITA and ATI. According to information from NTIS cooperating agencies in Latin America, 90-95% of all demand for NTIS appropriate technology materials in those countries is generated by AMTID.

The AMTID mailing list is continually growing and distribution has now topped 20,000 copies per issue. Surveys in Latin America have indicated that an average of five people see every AMTID issue. In this quarter, the first edition of a French language AMTID was distributed to approximately 1,838 individuals and organizations in Haiti and Africa. AMTID distribution averaged nearly 11,000 in Africa, Asia, and the Near East. Overall, AMTID distribution breaks down as follows:

	<u>Mailed</u>	<u>Handouts, Exhibits, Special Requests</u>
◦ English version	7,458	Some 3,500
◦ Spanish version	6,975	Some 2,800
◦ French version	1,838	Some 500

The following issues of AMTID were distributed during the quarter:

- Issue 78-9, highlighting food technologies;
- Issue 78-10, highlighting French language materials;
- Issue 78-11, highlighting health; and
- Issue 78-12, highlighting manuals and handbooks
- Issue 79-1, highlighting fertilizers.

Case Studies

- The total number of case studies in progress in two countries (Thailand and the Philippines) is 8. Follow-up field trips are planned in Thailand and the Philippines as well as promising new case studies to be done in Indonesia during the third quarter.

Other Areas of Concern

A parallel project for Latin America complements this one for Asia, Africa, and the Near East. The Latin America program started earlier and is much more fully developed. Therefore, many of the Latin American project's activities have contributed to the efficacy and success of this program. For example:

Some 114 appropriate technology documents were acquired and input into NTIS from various sources; including a large number from the U.S. Department of Agriculture. (These titles will soon appear in AMTID as well as Selected Appropriate Technologies for Developing Countries - Abstracts from the NTIS Data Files, Volume II.)

- Returns were received from a mailing in December to AT groups and organizations. Document input, increased AMTID distribution, higher AT transactions, and up-date of a global AT directory will result.
- Final distribution of a 104-page pilot bibliography of appropriate technology information available from NTIS was completed. This was a preliminary selection for quick dissemination and was to be superseded by the larger more comprehensive edition, PB-294 160, "Selected Appropriate Technologies for Developing Countries Bibliography" Volume I which was completed and forwarded to the printers.
- Increased AT referrals to technical inquiry services, i.e., VITA, Tropical Products Institute, etc., have been made.
- P. Bundick met with Dr. Ingela Agrell from the National Swedish Board for Technical Development on March 29. The meeting focused on the appropriate technology component of NTIS and possible program cooperation.
- NTIS has contracted for two studies: "A User Survey of Foreign Clients for US STI in Developing Countries" by King Research, Inc. and "Scientific and Technical Information Needs for LDCs" by the International Science and Technology Institute, Inc. These studies are designed to assist the network participants to better understand their constituencies and to provide a basis for program planning and evaluation. The study was carried out in Asia, Africa, and the Near East as well as in Latin America.

The King study was completed at the end of the quarter. This study is a formidable effort in identifying the needs and requirements of the LDC-information user community. Additionally, it provides significant insight into the success of the network project. Among the significant findings are:

- Use of NTIS products and services is high among all user groups surveyed (cooperating agencies, libraries, and individuals).
- Individuals who have used NTIS publications associate a high level of value with information obtained.
- Countries with cooperating agencies experience a higher level of use of US STI than other countries.

The ISTI study, an initial draft of which was prepared during this quarter, focused on more general, policy questions. It surveyed current literature on LDC information needs and perceived problems in accessing information; examined the role of "appropriate technical information" and examined policy options facing the US at the UNCSTD in the field of technical information. The final conclusion and recommendations of this report were not available during the quarter, but the research thus far completed indicated that program objectives were in line with the desires of LDCs.

These studies will provide a valuable framework for evaluating the network program and in planning future initiatives.

These activities have helped both projects increase the flow of the kind of information that is needed by the project's clients worldwide. AMPID, which is instrumental in letting those in developing countries know what is available to them, has benefitted greatly from the Appropriate Technology acquisitions component of the Latin American project.

PART II

COOPERATING AGENCY REVIEW

PROJECT NO. 931-1114

ASIA, AFRICA, AND THE NEAR EAST

INTRODUCTION

The following section itemizes program activities and related project developments in each of the participating countries. Circumstances vary country by country, but the following overview characterizes project activities by sub-region.

AFRICA

A new cooperating agency, the Centre National de la Recherche Scientifique et Technologique (CENAREST), has been added to the network in Gabon.

CENAREST will serve as a regional information center that should inspire the neighboring project countries to establish their own links with the network. Informed of CENAREST action, the Centre National d'Assistance aux Petites et Moyennes Entreprises (CAMPE) in Cameroon has already responded favorably to its invitation to join the network during J. Hounsell's visit in Douala last November. Also, Mr. Masens-Mukis from Zaire's Service Presidencial d'Etudes, will attend the April Information Systems Workshop.

Foreign currency restrictions in Nigeria continue to inhibit the free flow of U.S. science and technology information there.

David Shonyo visited Egypt to discuss possible modes of cooperation with the Egyptian National Information & Documentation Centre (NIDOC) and the Egyptian Society of Universal Culture and Knowledge (ESDUCK). Further trips are planned there and to Kenya to recruit cooperating agencies for the project.

INDIA SUBCONTINENT

India's demand is now the third highest in the world after only the United States and Japan. The Indian cooperating agencies are aggressively promoting NTIS materials in innovative and clearly very effective ways. Problems of misdirected and delayed orders are being worked out to the general satisfaction of all with the result that Indian clients are more pleased with NTIS services, and demand for NTIS products and services is increasing even more.

Also on the subcontinent the Bangladesh Scientific and Technology Centre (BANSDOC) has signed the cooperating agency agreement and is awaiting final approval from higher government authorities to start up the agreement. V. Dowd's trip to Pakistan has strengthened NTIS ties to PASTIC and provided them emotional support.

FAR EAST

KORSTIC has leased the NTIS data base for its own computer. This new development should improve KORSTIC's already outstanding record of increasing demand for U.S. science and technology information in Korea.

Case studies are planned in the Philippines and Thailand. T. Lindenmann's visit to Chiang Mai and Bangkok Thailand is expected to greatly increase demand of NTIS services by making large new clientele aware of the project.

Sri Lanka has been slow in starting up its agreement with NTIS. Problems for SLSTIC's director, N.U. Yapa, are slowly clearing up and it is expected that demand there will also increase as it has over the years in Korea.

BANGLADESH

COOPERATING AGENCY

Bangladesh Scientific and Technology Center (BANSDOC)
Mirpur Road, Dhanmondi
Dacca 5

Principal NTIS Contact: Mr. M.A. Salam, Director of Planning
USAID Mission Liaison: Michael Sullivan, Program/Training Officer

Total Demand: Jan '79-March '79: \$0.

COMMENTS

BANSDOC signed an agreement with NTIS, joining the NTIS/AID International Technical Information Network. V. Dowd traveled to Dacca in March to provide start-up consultation. The agreement is still awaiting approval at higher levels of the Bangladesh government.

GABON

COOPERATING AGENCY

Centre National de la Recherche Scientifique
et Technologique (CENAREST)
B.P. 842
Libreville

Principal NTIS contact: M. Nzoghe Nguema, Commissaire Generale
U.S. Embassy Liaison: John Yates, DCM

Total Demand: Jan '79-March '79: \$0.

COMMENTS

A new agreement was signed by CENAREST in March. CENAREST will represent NTIS in the Central African region in countries where there are no local representatives, including Cameroon, Zaire, Burundi, and Rwanda. It is expected that CENAREST's activities in these countries will lead to vastly increased program participation there by encouraging information centers in these countries to expand their own activities in like manner. The outreach to these information centers will be a major factor in arranging entry into the Network by other West African countries.

INDIA

India is not a project country but in concert with AID/Delhi NTIS has three representatives in India. The three agencies are:

Allied Publishers, Pvt.
15 Graham Road
Ballard Estate
Bombay 400 038

Constellate Consultants, Ltd.
5 Anand Lok
New Delhi 110 049

Higginbothams Ltd.
165 Anna Salai
Madras 600 002

U.S. Embassy Liaison: Thomas Vrebalovich, Science Counselor

Total Demand: Jan '79-March '79: \$75,932

COMMENTS

During the quarter, T. Lindemann visited Bombay and Hyderabad and V. Dowd visited Madras and Bangalore to meet with cooperating agencies, conduct user-education seminars, and for general promotion and orientation.

INDONESIA

COOPERATING AGENCY

Pusat Dokumentasi Ilmiah Nasional (PDIN)
Jl. Jenderal Gatot Subroto
P.O. Box 3065/Jkt.
Jakarta

Principal NTIS Contact: Mrs. Luwarsih Pringgoadisurjo, Director
Hernandono, Deputy Director for Library Services
Zultanawar, Deputy Director for Development

Cooperating Agency Since: November 1977

Total Demand: Jan '79-March '79: \$4,530

COMMENTS

Field visit by F. Pardo de Zela planned for third quarter to conduct case studies.

KOREA

COOPERATING AGENCY

Korea Scientific and Technical Information Center (KORSTIC)
C.P.O. Box 1229
Seoul

Principal NTIS Contact: Doo-Hong Kim, Director General
Koo-Ho Yoon, Director, Dept. of Information
Resources

Cooperating Agency Since: January 1974

Total Demand: Jan '79-March '79: \$9,380

COMMENTS

KORSTIC will send participant to NTIS Information Systems Workshop in April.

KORSTIC during this quarter has leased the NTIS data base to run profiles for its clients. This is a major step in making U.S. science and technology more immediately available to Korea.

NIGERIA

COOPERATING AGENCY

Federal Institute for Industrial Research (FIIR), Oshodi
Private Mail Bag 1023
Murtala Muhammed Airport, Ikeja
Lagos State

Principal NTIS Contact: Mrs. Beola Ariyo, Principal Research Officer

Cooperating Agency Since: March 1974

Total Demand: Jan. '79-March '79: \$1,174

COMMENTS

Foreign currency restrictions imposed by the Nigerian government has made it difficult to disseminate information there. Poor communication infrastructure has also made it difficult to maintain contact with FIIR.

PAKISTAN

COOPERATING AGENCY

Pakistan Scientific and Technological Information Centre
(PASTIC)

No. 6 Street 22 Sector F-7/2
P.O. Box No. 1217
Islamabad

PASTIC Sub-Centre
142-C/II PECHS
Karachi-29

Principal NTIS Contacts: In Islamabad--Dr. A. R. Mohajir, Director
In Karachi--S. Zafarul Hasan, Officer-in-Charge
Shamin Farrukh, Translating Officer

Cooperating Agency Since: May 1975

Total Demand: Jan '79-March '79: \$2,758

COMMENTS

In February, V. Dowd visited PASTIC offices in Lahore, Islamabad, and Karachi, consulted with AID missions, and provided promotional support. AID mission interest was encouraging and should help to improve and strengthen future activities.

PHILIPPINES

COOPERATING AGENCY

Technology Resources Center (TRC)
TRC Building
Buendia Avenue Extension
Makati, Metro Manila

Principal NTIS Contact: Dr. Alfredo E. Tong, Officer-in-Charge
Jesus B. Fragante, NTIS Project Manager

U.S. Embassy Liaison: James Baird, Program Officer

Cooperating Agency Since: March 1978

Total Demand: Jan '79-March '79: \$5,711

COMMENTS

F. Pardo de Zela will conduct follow-up case study interviews in third quarter.

SRI LANKA

COOPERATING AGENCY

Sri Lanka Scientific and Technical Information Centre (SLSTIC)
47/5 Maitland Place
Colombo 7

Principal NTIS Contact: N. U. Yapa, Head Librarian

Embassy Liaison: Miss Sarah J. Littlefield, USAID Director

Cooperating Agency Since: July 1978

Total Demand: Jan '79-March '79: \$383.

COMMENTS

SLSTIC's agreement was extended for an additional year (through March 31, 1980). Also, V. Dowd visited Sri Lanka to conduct user education seminars and, at the request of the Sri Lankan Ambassador to the U.S., to visit the Ceylon Institute of Scientific and Industrial Research. This activity prompted a greater awareness of the sources and uses of NTIS-supplied information.

THAILAND

COOPERATING AGENCY

Thailand Management Association (TMA)
108 Silom Road
Bangkok

Principal NTIS Contact: Suthep Visavakul, NTIS Project Manager

U.S. Embassy Liaison: William Fleming, Ass't Program Officer

Cooperating Agency Since: August 1978

Total Demand: Jan '79-March '79: \$5,711.

COMMENTS

T. Lindemann visited TMA in Bangkok and end-users in Chiang Mai in March. TMA is an effective Cooperating Agency. The recent departure of former Director Dr. Ajva Taulananda is unfortunate. A new Director will soon be elected. TMA is now directed by Mr. Thavee who expressed TMA's desire to upgrade participation in network activities. Also, F. Pardo de Zela will visit in Third Quarter to conduct case study interviews.

PROJECT COUNTRIES WITHOUT COOPERATING AGENCIES

CAMEROON

Principal Contact: Norman Green, Human Resources Officer, USAID

ACTIVITY

The Centre National d'Assistance aux Petites et Moyennes Entreprises (CAPME) was invited to join the International Technical Information Network in March.

EGYPT

Principal Contact: James Riley, USAID/Cairo

ACTIVITY

D. Shonyo, V. Dowd, and J. Hounsell met with Dr. Achmed Gad, Director of the Egyptian National Information and Documentation Center (NIDOC) and Mohamed Mad-Khour, Consultant to NIDOC, in Washington to discuss possible areas of cooperation. Also, at AID/Cairo's request, NTIS submitted a proposal to send a consultant to NIDOC to promote access to NTIS and US STI. Meanwhile, the Egyptian Society of Universal Culture and Knowledge, ESDUCK, has indicated its interest in representing NTIS. D. Shonyo will travel to Egypt in the Third Quarter to continue discussions with these organizations.

KENYA

Principal Contact: Jack Felt, Commercial Officer, AMEMB

ACTIVITY:

An agreement with the Institute for Development Studies (IDS) was pending during the quarter. T. Lindemann will visit Nairobi in April to expedite consummation of the agreement and give start-up orientation to the staff.

SUDAN

ACTIVITY: Correspondence has been maintained with candidates for program participation. Dave Shonyo will visit Khartoum in May to investigate the capabilities of the present candidate and negotiate an agreement with the most suitable one.

OTHER AFRICA

NTIS continued to correspond with the following organizations concerning possible cooperating agency agreements.

Guinea-Conakry: INRO (Institut National de Recherche et de Developement)

Morocco: CND (Centre National de Documentation)
 CAFRA (Centre Africain d'Administration)

Senegal: DGRST (Delegation Generale a la Recherche Scientifique
 et Technique)

PART III

ATTACHMENTS

- I. DEMAND STATISTICS
- II. PROJECT BROCHURE: Technical Information
for Development
- III. ACCESS Issues: January, March 1979
- IV. Application of Modern Technology
to International Development (AMTID)
Four editions as follows:
 - English: NTIS-PR 472; NTIS-PR 480;
NTIS-PR 481
 - French: NTIS-PR 479
- V. Case Studies

INTRODUCTION

The total value (US \$) of demand for the 25 countries requesting information from NTIS during the second quarter was \$113,052.79. This was an increase over the first quarter of \$32,327.79. Actual document demand increased 2,903 for a total of 7,735.

Of the 25 countries requesting information, 11 are participants in the network project. Eight (Egypt, Ethiopia, Guinea-Bissan, Jordan, Lebanon, Nepal, Portugal, and Syria) are not included in the project's plans, and five (Ghana, Liberia, Mali, Mauritania, and Zambia) will be invited to join the network when suitable candidates for cooperating agency can be found.

Nineteen countries reported increased demand. Only four countries (Korea, Mali, Niger, and Nigeria) showed a decrease in demand. The decrease in Nigeria is due to the foreign currency restrictions in effect in Nigeria. Of the eight countries participating in the network which logged increases, sales leaders were:

India
Thailand
Philippines
Pakistan

In fact, India has the third largest demand for NTIS documents in the world behind only the United States and Japan. The increase in Indian demand from the first to second quarters was more than \$20,000. Demand in Thailand more than doubled and almost doubled in the Philippines. Demand in Pakistan quintupled.

ASIA, AFRICA, AND MIDDLE EAST

VALUE OF DEMAND

2nd Quarter - FY 79

COUNTRY	AMTID DIST.	2nd QTR (FY-79) Workload Demand (PC & MF)		2ndQTR (FY-79) Standing Orders SUBS. SRIM		2nd QTR (FY-79) TOTAL \$ DEMAND	1st QTR (FY-78) TOTAL \$ DEMAND	CHANGE
		Amount	Value	Value	Value			
*EGYPT	67	30	\$ 767.75	\$ 110.03	\$ --	\$ 877.78	\$ N.A.	\$ 877.73
ETHIOPIA	63	2	19.75	--	--	19.75	N.A.	19.75
GHANA	400	3	27.50	82.11	--	109.61	N.A.	109.61
GUINEA- BISSAU	--	--	--	--	--	--	--	--
*INDIA	0	5,344	71,608.10	2,735.24	1,588.80	75,932.14	55,595.00	20,337.14
INDONESIA	500	612	5,060.50	429.90	253.20	5,743.60	3,505.00	2,238.60
JORDAN	40	18	113.25	--	--	118.25	N.A.	118.25
KENYA	441	103	770.45	70.00	--	840.45	178.00	1,018.45
*KOREA	200	739	7,109.00	1,119.78	1,151.35	9,380.13	10,290.00	(899.87)
LEBANON	13	3	51.50	184.99	--	236.49	N.A.	236.49
LIBERIA	85	10	63.35	--	--	63.35	43.00	20.35
MALI	19	--	--	--	--	--	9.00	(9.00)
MAURITANIA	11	1	13.00	--	--	13.00	N.A.	13.00
NEPAL	87	4	2,406.75	--	--	2,406.75	N.A.	2,406.75
NIGER	17	3	98.00	77.49	--	175.49	201.00	(25.51)
*NIGERIA	100	164	1,174.35	--	--	1,174.35	4,882.00	(3,707.65)
PAKISTAN	150	27	2,655.75	102.60	--	2,758.35	507.00	2,251.35
PHILIPPINES	1,000	281	4,626.50	787.17	297.50	5,711.37	3,088.00	2,623.37
PORTUGAL	21	58	901.70	243.05	--	1,144.75	N.A.	1,144.75
SRI LANKA	500	52	335.75	47.59	--	383.34	52.00	331.34
SYRIA	8	--	--	26.26	--	26.26	21.00	5.26
TANZANIA	284	23	130.50	--	--	130.50	N.A.	130.50
THAILAND	1,525	242	5,231.25	479.83	--	5,711.08	2,364.00	3,347.08
TUNISIA	60	--	--	--	--	--	--	--
ZAMBIA	15	16	96.00	--	--	96.00	N.A.	96.00
Total	5,606	7,735	\$103,265.70	\$6,496.04	\$3,291.05	\$113,052.79	\$80,725.00	\$ 32,327.79

* Indicates participation in DSB/DIU project as unsubsidized graduate,

CASE STUDIES IN PROGRESS

The second quarter of FY '79 was a period during which new methods were developed to identify end-users whose experience using STI could be developed as case studies. Numerous attempts had been made through correspondence. However, personal contact with cooperating agency representatives abroad has proven the best way to develop case studies.

This initial contact provides reinforcement of the case study methodologies within the scope of cooperating agency activities.

With publication of Selected Appropriate Technologies for Developing Countries - Abstracts from the NTIS Data File, it was possible to limit the search for NTIS information utilization to reports which were specific to project goals. Taking this list of appropriate technology titles and running a cross-reference with the accession numbers appearing on the cooperating agency deposit accounts, it expedited the identification of end-users. It also made it possible to compile a bibliography of appropriate technology reports which corresponded to each end-user. This approach helps to direct interviews with end-users toward actual applications.

Listed are 8 potential case studies grouped by country, organization, and individual contacts. This list has been sent to the cooperating agencies as guidelines for user identification and to use to schedule interviews.

CASE STUDIES IN PROGRESS

MARCH 1979

* Country/ Case Study	Group or Organization	Principal Contact	NTIS Report Accession Number	Title
I. <u>Thailand</u>				
A. Water Quality Management	AIT	Thanh	UB D 042 02	Stochartic Optimization Model Regional Water Quality for Management; a Case Study of the Chao Phya River.
B. Water Resources Utilization	AIT	Selvalingam	PB 238 948	A Stochastic Rainfall Model and Habitual Analysis of Hydraulic Factors
C. Fish Cultivation	AIT	Edwards	EPA 660/a-72-041	Waste Water Use in the Productions of Food and Fiber
II. <u>Philippines</u>				
A. Integrated Steel Mill Complex	NSC	Alarilla		
B. Bicycle Parts Production Plant	NSC	Alarilla		
C. Binary Recycling	BFD	Jahnke	AMCR-1191	Preliminary Thermal Analysis of Binary Cycle for Geothermal Pilot Plants
D. Small Biogas Plant	BFD	Jahnke		
E. Paper Making	DCP	LaTorre	PB 177 916	"Paper Making and Manufacturing of Paper Products as a Small Scale, Semi-Mechanized, and Cottage Industry."