

PD-AAY-389

ANNUAL BUDGET

SUBMISSION

AID/SCI

FY 1990

MEMORANDUM

June 9, 1988

TO:

FROM: SCI, William Oglesby
SUBJECT: Office of the Science Advisor FY 1990
Annual Budget Submission

Attached is the AID/SCI FY 1990 ABS. This submission will be reviewed on _____ at _____ in Room _____. If you have any questions or wish to raise any issues, you may do so at the review or you may call SCI on 875-4444.

OFFICE OF THE SCIENCE ADVISOR

ANNUAL BUDGET SUBMISSION

FY 1990

June 1988

BASIC ELEMENTS OF THE SCI PROGRAM
PROGRAM IN SCIENCE AND TECHNOLOGY COOPERATION

Objectives:

- Take the lead in identifying and investigating innovative technologies which hold longer-term promise for future A.I.D. programs of technology development and transfer;
- Provide LDC scientists with regular opportunities to gain first hand experience with these newer technologies;
- Support and strengthen field mission efforts to place greater emphasis on science and technology in their programs;
- Serve as a very limited source of funding for truly innovative ideas which may not always conform to the more vertical, sectoral Agency priorities;
- Promote cooperation between U.S. and developing country scientists in these innovative areas.

Strategy:

- Focus on new and innovative scientific approaches that tend to cut horizontally across Agency sector priorities to give broadest potential exposure and application to technology-based development;
- Use of highly competitive approach to stimulate maximum participation among scientists in the program as well as on a network approach, with the latter targeted on the needs for many LDC institutions to have intensive interaction and collaboration with more experienced U.S. scientists;
- Under each approach, concentrate resources on a specifically limited number of areas in order to approach a critical mass of research on a common technology and to test the feasibility and utility of the technology;
- Emphasize the biological and physical sciences;
- Limit award in the range of three years and \$150,000 each, since the program aims at the preliminary investigation of an idea, not its full application. The \$150,000 in fact represents considerable resources to an LDC institution;
- Use of the services and expertise of the National Academy of Sciences to assist in achieving the objectives stated above.

FY 1990 ANNUAL BUDGET SUBMISSION
 TABLE I - LONG RANGE PLAN BY APPROPRIATION ACCOUNT
 (\$000)

942 Office of the Science Advisor

	FY 1987	FY 1988	—FY 1989—	FY 1990	—PLANNING PERIOD—			
	ACTUAL	ESTIMATE	CP ESTIMATE	AAPL	1991	1992	1993	1994
<hr/>								
<u>Private Sector, Energy and Environment</u> —					<u>All Grant</u>			
	14,662	12,662	8,662	8,662	8,662	9,000	9,000	9,000
<u>Agriculture, Rural Development, and Nutrition</u> —					<u>All Grant</u>			
	-0-	600	-0-	-0-	-0-	-0-	-0-	-0-
<u>Totals</u>	<u>14,662</u>	<u>13,262</u>	<u>8,662</u>	<u>8,662</u>	<u>8,662</u>	<u>9,000</u>	<u>9,000</u>	<u>9,000</u>

OBJECT NUMBER AND TITLE
 ORLG DATE -TOTAL COST- ORLG FY 87 ESTIMATED U.S. DOLLAR COST (\$000) SPECIAL
 G DATE PLAN FY 87 FY 87 OBLIG- FY 1988- OBLIG- FY 1989- OBLIG- FY 90-
 L INIT FIN AUTH PLAN PY 87 LINE ACTIONS FUTURES FUTURES PROPOSED

AGRICULTURE, RURAL DEV. AND NUTRITION

165542 INNOVATIVE SCIENTIFIC RESEARCH 600 --- 200
 G 88 --- --- ---

APPROPRIATION
 TOTAL --- --- ---
 GRANT --- --- ---
 LOAN --- --- ---

ELECTED DEVELOPMENT ACTIVITIES

1365538 APPLYING S AND T TO DEVELOPMENT (NAS) - 1 6,563 1,500 5,000 4,000
 G 81 98 36,000 36,000 33,582

1365542 INNOVATIVE SCIENTIFIC RESEARCH 11,740 6,362 7,800 6,362 7,600 6,362 WA, EY
 G 81 C 47,130 47,130 34,916

1365543 STRENGTHENING S AND T CAPACITY 430 300 350 300 500 300
 G 81 C 3,203 3,203 2,796

1365544 IS/ISRAEL PRG FOR COOP DEV RESEARCH 8,958 4,000 9,000 3,000 3,000
 G 85 C 19,000 19,000 11,785 WA, EY

1365545 APPLYING S&T TO DEVELOPMENT (NAS)-2 500 --- 1,100 2,000
 G 98 93 10,200 10,200

APPROPRIATION
 TOTAL 115,533 115,533 83,079 27,691 12,662 22,150 8,662 16,200 8,662
 GRANT 115,533 115,533 83,079 27,691 12,662 22,150 8,662 16,200 8,662
 LOAN --- --- --- --- --- --- --- --- ---

FUNCTIONAL ACCOUNT
 TOTAL 115,533 115,533 83,079 27,691 12,662 22,150 8,662 16,400 8,662
 GRANT 115,533 115,533 83,079 27,691 12,662 22,150 8,662 16,400 8,662
 LOAN --- --- --- --- --- --- --- --- ---

FY 1990 ANNUAL BUDGET SUBMISSION
 TABLE IV ATTACHMENT 2
 INTEGRATED RESOURCE MANAGEMENT

942 Office of the Science Advisor

APPROPRIATION ACCOUNT PROJECT NO. TITLE	LIFE OF PROJECT	FY 88 ESTIMATE	FY 89 ESTIMATE	FY 90 AAPL
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Private Sector, Energy and Environment

9365542 Innovative Scientific Research		600	600	600
9365544 U.S.-Israel Cooperative Development Research Program		400	-0-	-0-
<u>Total</u>		<u>1,000</u>	<u>600</u>	<u>600</u>

FY 1990 ANNUAL BUDGET SUBMISSION
TABLE IV ATTACHMENT 3
BIOLOGICAL DIVERSITY

942 Office of the Science Advisor

APPROPRIATION ACCOUNT PROJECT NO. TITLE	LIFE OF PROJECT	FY 88 ESTIMATE	FY 89 ESTIMATE	FY 90 AAPL
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Private Sector, Energy and Environment

9365542 Innovative Scientific Research		1,200	1,000	1,000
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FY 1990 ANNUAL BUDGET SUBMISSION
TABLE IV ATTACHMENT 1
FORESTRY

942 Office of the Science Advisor

APPROPRIATION ACCOUNT
PROJECT NO. TITLE

LIFE FY 88 FY 89 FY 90
OF
PROJECT ESTIMATE ESTIMATE AAPL

Private Sector, Energy and Environment

9365542 Innovative Scientific Research

450

450

450

AID PROGRAM IN FY 1990
ANNUAL BUDGET SUBMISSION
TABLE V - PROPOSED PROGRAM RANKING
(\$000)

942 Office of the Science Advisor

RANK PROJECT	TITLE	NEW/ CONT	PROGRAM FUNDING (\$000)		
			APPROP	INCR	CUM
936-5542	Innovative Scientific Research	C	106	6362	6362
936-5545	Innovative S&T for Development	C	106	2000	8362
936-5543	Strengthening S&T Capacity in LDCs	C	106	300	8662

Phase Two: This phase will focus on the specific scientific accomplishments under the program. We are improving the project monitoring system, and will be formally obtaining end-of-project evaluations from AID Project Officers. Similarly we are beginning to systematically include evaluations of previously funded projects in the peer review panels that we run for new proposals twice a year. With this information and the information available from Phase One, we will begin to look at clusters of related projects. For example, with the assistance of a graduate intern this summer, we will be looking at our programs in plant biotechnology and in biomass production and conversion. The Thai workshop of our grantees will give us an idea of the impact of a number of grants in different modules funded in a single country program. We expect to use an AAAS Fellow next year to look at our program in biotechnology/immunology. This Phase Two effort will be continuing, starting in FY 1988, and will require up to \$50,000 per year in program funds, including workshops. To hold down costs, we will draw substantially on volunteer peer reviewers, summer interns and AAAS Fellows. We are also exploring the possibility of convening annually a series of workshops with SCI grantees to establish a collaborative network among the researchers and to provide a platform for reporting of research results to AID.

Phase Three: After assessment of the scientific, project-by-project, module-by-module results of the SCI program, we will assemble a task force of senior Agency officers, either on active duty or retired, to render judgement on:

- a) the impact of our program on the Agency's overall policy of transferring technology to-LDCs, and
- b) the impact of our programs on individual Missions and AID/W offices.

This final phase of the evaluation is expected to get underway in FY 1989. The cost will be minimal, not to exceed \$20,000 to cover for travel and per diem expenses for overseas Mission Directors and for retirees living outside the Washington area. Costs at this phase would include printing and distribution of final reports.

Recommendation: With your approval we will proceed to establish an SCI evaluation process along the lines I have described above. The specifics of each year's evaluation activities cannot be foreseen at this time, but we will work closely with PPC/CDIE and our project officers throughout the Agency (primarily in the

Office of U. S. Foreign Disaster Assistance

FY 1990 ANNUAL BUDGET SUBMISSION

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FY 1990 ANNUAL BUDGET SUBMISSION

TABLE I - LONG RANGE PLAN BY APPROPRIATION ACCOUNT
(\$000)

Fy 1987 Actual	FY 1988 Estimate	FY 1989 CP ESTIMATE	FY 1990 APPL	-----Planning Period-----			
				1991	1992	1993	1994

International Disaster Assistance Grants:

	<u>a/</u>						
78,300	51,500	25,000	40,000	40,000	40,000	40,000	40,000

a/ \$20.0 million appropriated, plus \$2.8 million carryover from FY-1987; \$6.6 million from SADCC supplemental appropriation; \$7.1 million ARDN; \$5 million DFA; \$5 million locust.

OFDA'S PROGRAM ACTION PLAN THRU FY-1990

July 6, 1988

ACTION PLAN FOR FY-1989

- A. Emergency Relief Assistance (See attachment)
- B. Emergency Relief Coordination Strategy

The principle responsibility of OFDA is to ensure effective coordination of USG international relief responses to both natural and manmade disasters. In carrying out this primary mission, OFDA has accomplished many of its FY 1988 operational objectives including establishing standard operating procedures for logistics support with Department of Defense regional commands (CINCLANT, CINCPAC and SOUTHCOM); standardizing OFDA stockpiles and procuring medium rescue equipment; designing and procuring improved emergency shelter material; training civilian and military technicians to operate OFDA's water purification units; establishing and training a USG sponsored search and rescue cadre; procuring satellite telephone and other communications systems; negotiating Memoranda of Understanding with other Federal Agencies (EPA, FEMA, CDC, FCC); upgrading the disaster component of the US embassy emergency action exercises with State Diplomatic Security; establishing liaison with US medical/health personnel and counterparts to develop international disaster response strategies.

OFDA will continue to refine our operational response criteria and capabilities with a particular emphasis in FY 1989 on expanding the US technical assistance resource pool, expanding contingency planning and increasing crisis management team training. Improving our rapid "first response" capability will demonstrate the U.S. government's humanitarian commitment to 1) save lives and reduce suffering; 2) utilize the best U.S. technical assistance resources to assist host countries manage their disasters; 3) ensure appropriate material is provided expeditiously to victims either through local procurement or through OFDA's six worldwide stockpiles.

The following initiatives will be incorporated into OFDA's relief and rehabilitation strategy for FY 1989 and 1990:

- OFDA will continue to improve the USG disaster response capabilities by identifying additional specialists and incorporating them into trained and tested response teams. These teams will include Federal, State and local government emergency response personnel who have specialized skills, (medical, chemical, toxic, and radiological incidents, communications, nutrition, firefighting), international experience, and foreign language capabilities.
- OFDA will expand its cooperative efforts with DOD to include development of SOP's with the European Command (CINCEUR) and the Central Command (CENTCOM) and assist DOD in programming its civic action funds to focus on disaster relief training, preparedness and mitigation.
- OFDA will deploy satellite communication equipment in actual disasters and establish an integrated electronic mail system to rapidly exchange information with other donors, PVOs, US Diplomatic Missions and U.N. agencies.
- In addition to existing interagency agreements with USDA, FCC, USGS, DOD, EPA, FEMA, and U.S. Coast Guard, OFDA will establish new agreements with other agencies and local jurisdictions with disaster response capabilities (NOAA, Bureau of Land Management, National Park Service and Public Health Service). These agreements will provide for operational resources and response capabilities in time of crisis.
- OFDA will continue to review the appropriateness of stockpiled materials to meet changing disaster response needs. Augmentation of stockpiles is planned. One emphasis will be on utilizing lighter and more adaptable temporary shelter materials.
- OFDA will strengthen regional response capabilities of the US Mission and key governments through increased operational training and integrated planning and simulation exercises.
- OFDA will expand the availability of US technical specialists to respond to emergency situations which do not require formal USG disaster assistance.

- Mission Disaster Relief Officers designated by U.S. Ambassadors will be provided detailed information on developing mission disaster relief plans as well as manuals appropriate for implementing OFDA/USG disaster assistance within their host country.

C. Disaster Preparedness program Planning

There are two major elements to OFDA's congressionally authorized programs in disaster preparedness and mitigation. These include 1) host countries in managing their own disasters and 2) transferring disaster-related technology to strengthen institutional linkages among those countries, appropriate national and regional institutions, international organizations, and donors.

1. Host Country Disaster Management Strategy

In any major disaster, the most critical element in human survival is the immediate response capability by the host country and the affected community. For this reason, OFDA has developed a variety of programs to assist countries in developing their own self-reliance and operational readiness. A key component is to increase the awareness of national authorities to natural and man-made hazards which can adversely affect populations and to train authorities in disaster management and mitigation.

The collaboration between OFDA and the host countries on emergency preparedness also have a positive impact on the ability of the U.S.G. to target its disaster relief in appropriate ways because of a familiarity with the country, capabilities which we should complement with our bilateral aid.

During FY 1988 OFDA selected several priority countries in ASIA/SP and LAC as a focus for integrated systems of early warning, training and institution building. The ASP countries are Fiji, Indonesia, Bangladesh and the Philippines. In the LAC region, Costa Rica, Guatemala, El Salvador, Ecuador and Peru were selected. None were selected for Africa since emergency response requirements consumed all available staff time.

In addition to the targetted countries, management training opportunities were provided many other countries in the fields of hazardous waste disposal, wildfire suppression, search and rescue, seismic and volcano monitoring.

In FY 1989 OFDA's program will focus on national and regional approaches to improve the emergency response capabilities of affected countries and the quality of intergovernmental and bilateral cooperation illustrations of initiatives include:

- OFDA will continue its assistance to the selected target countries and will add 2 countries in the Africa region. OFDA's regional emergency management consultants (based in Fiji, Peru and Costa Rica) will assist these countries to integrate current and planned warning systems, evacuation planning, medical first response capability, PVO activities and donor coordination.
- OFDA will promote the use of curricula and technical assistance available in regional centers of excellence which have received OFDA institutional support in recent years. These centers include (Brazil's University of Santa Catarina, Asian Institute of Technology, Insivumeh, and University of Wisconsin School of Extension Disaster Management Program. Their training programs offer excellent resource material and personnel who can assist host country nationals to develop appropriate preparedness, mitigation and response programs and planned warning systems, evacuation planning, medical first response capability, PVO activities and donor coordination.
- In addition, OFDA will be responsive to training requirements for specialized disasters such as fire suppression, toxic chemical incidents, geological events.
- Continuing its efforts of FY 1988, OFDA will work with AID regional bureaus and missions to secure linkages between disaster mitigation and response with CDSS objectives, use of local currencies and opportunities to leverage investments of international funding institutions to hazard reduction programs.
- In this regard, OFDA will complete strategies to link disaster vulnerability reduction to A.I.D. development objectives in the housing, health and agriculture sectors.

2. Technology Transfer Strategy

In little over ten years, OFDA has sponsored and facilitated scores of technology transfer programs ranging from remote

sensing, electronically telemetered warning systems and communications to aseismic shelter design and flood resistant adobe building techniques. These initiatives have been triggered by opportunities which have arisen from specific, urgent needs without benefit of cohesive regional or sectoral planning. Recent regional analysis and strategy building have served to develop more comprehensive assessments of needs for scientific and technological solutions to hazard risk related to the emerging institutional capacity of regions and countries. The advent of the International Decade will serve to enhance coordination between the U.S.G. and other donor development and disaster assistance programs focussed on disaster prone populations.

Objectives for FY-1989 set the scene for the decade of the 1990s which has been designated by the United Nations as the International Decade for Natural Disaster Reduction. Criteria to the success of the International Decade will be the mechanisms by which technology, scientific knowledge, and management skills will be transferred to disaster prone countries.

By the end of FY-1989, the following benchmarks will have been realized.

- Establishment of a U.S. panel of government and private sector interests to identify disaster preparedness and mitigation strategies, techniques and technologies relevant to disaster vulnerability reduction in the third world.
- Integration of information transfer networks linking technologically advanced nations and institutions with counterpart third world institutions through international organizations including the UN system, scientific unions and multi-national commercial and industrial organizations.
- Development of regional strategies for vulnerability reduction incorporating early warning systems and public awareness programs treating severe storms, floods, storm surge and tsunami, volcanic eruptions, earthquakes, landslides, fires and environmental hazards as relevant to the target countries within each region.

1990 ACTION PLAN

Program Objectives and Benchmarks

New Benchmarks:
End FY-1989 Targets

Accomplishments
by End FY-1988

Prior Benchmarks
FY-1988

Long-term Goals &
Objectives

(A) Goal: Emergency Relief Assistance

Objectives:

- 1) Provide most relevant timely emergency relief supplies to disaster victims
- 2) Replenish stockpiled supplies used in disasters

- 38 disasters as of July 8, 1988

- 54 disasters as of end of FY-1988

Unpredictable

- \$900,000 million expended by July 1988 for restocking used supplies

- establish stockpile objectives; \$900,000 million expended in FY-1987 for replenished stockpiled supplies used in relief

Unpredictable

1990 ACTION PLAN

Program Objectives and Benchmarks

Prior Benchmarks
FY-1988

Accomplishments
by End FY-1988

New Benchmarks:
End FY 1989 Targets

Long-term Goals &
Objectives

(B) Goal: Emergency Relief
Coordination Strategy

Objectives:

1) Establish search & rescue
cache and response strategy

- planning meeting with S&R experts
- formalize agreements with NASAR, Dade Co., Fairfax County re S&R
- equipment list prepared
- Dade Co. operational S&R standards in progress
- equipment procurement accomplished
- agreements finalized with Fairfax and NASAR
- equipment procurement
- set-up cache at Dade, Fairfax
- deploy S&R in actual disasters
- assist in international standard setting

2) Establish regional logistics
support with DOD

- establish standard operating procedures (SOP) with DOD
- SOUTHCOM Working Group; revised State Ops. SOP with OFDA.
- established SOP with CINCPAC, SOUTHCOM, CINCLANT; set up DOD coordinating group
- assisted DOD in programming civic action funds for disaster relief/mitigation
- increase DOD/JCS coop. and coordination with OFDA relief activities; est. SOP with CINCEUR, CINCCENT

3) Establish comprehensive global
communications capacity for
disaster operations strategy

- hire electr. engineer
- est. OFDA requirements
- procure satellite/commo. system
- delivery of TCS-9000 through PASA obtained
- FCC expert
- staff training and manuals prepared
- developed hand held radio strategy, procured radios
- procured lap top computer
- deploy TCS-9000 and radios in actual disaster in FY-89
- document relief coord. utility of TCS-9000

1990 ACTION PLAN

Program Objectives and Benchmarks

Long-term Goals & Objectives

Prior Benchmarks
FY-1988

Accomplishments
by End FY-1988

New Benchmarks:
End FY-1989 Targets

(B) Goal: Emergency Relief
Coordination Strategy

Objectives:

4) Establish on-going training/
coordination of MDROs for U.S.A.I.D.
response and establish an integrated
host gov't disaster response
capacity thru unified disaster
relief plans

- prepare training module for
MDROs
- test simulation strategy thru
Diplomatic Security
- review all MDRPs and develop
priorities for revisions

- test and evaluate
training module on select
MDROs
- drafted MDRO handbook/
guidance
- developed disaster simul-
ulations for State Dept
Security and participated
in eight embassy simulations
- provided contract support
for upgrading MDRPS in target
countries

- full-scale training
schedule for MDROs
- Participate in DOS/State
and Bureau decision-
makers.
- complete handbook guidance
and assist in ten mission
disaster plan preparations
- participate in eight
simulations with DOS in
disaster prone countries
- complete prep. of mission
disaster plans for each
target country in each region

5) Establish medical/health liaison
with counterparts and strategy for
response

- conduct co-op activity with
PAHO in health/medical fields
- plan meeting on regional
medical/health issues
- funded PAHO efforts in LAC

- coordinate with DOD, PAHO
and others on unified
strategy
- participate in 2 simulations
developed "burn victim"
strategy

- test and evaluate
effectiveness of response
strategy

- est. criteria for first
response in Caribbean region
with PAHO and other donors.
- participated in Nutrition in
Times of Disaster Conference

1990 ACTION PLAN

Program Objectives and Benchmarks

Long-term Goals & Objectives	Prior Benchmarks FY-1988	Accomplishments by End FY-1988	New Benchmarks: End FY-1989 targets
(B) Goal: Emergency Relief Coordination Strategy			
Objectives:			
6) Establish priorities for procurement and stockpiling new commodities/supplies	<ul style="list-style-type: none"> - direct hire stockpile procurement and logistics officer - train water purifier technicians - develop/procure new plastic sheeting - test new tents - develop survival kits - review warehouse contracts (New Windsor, Singapore) 	<ul style="list-style-type: none"> - procured survival kits - completed requirements analysis for new supplies - established commodity supplier index - designed & procured sheeting - stockpile inventory & site visits (2) - let 2 warehouse contracts - tested tents 	<ul style="list-style-type: none"> - procure all new items for stockpile as appropriate - develop additional shelter options - stockpile inventory & site visits (2)
7) Design, implement and maintain an automated OFDA fiscal management and control system	<ul style="list-style-type: none"> - initiate contract for ADP fiscal management system design and implementation 	<ul style="list-style-type: none"> - completed system design - hired necessary staff to maintain data files 	<ul style="list-style-type: none"> - implement systems - evaluate system utility and effectiveness
8) Establish an integrated telephonic electronic mail system for real-time information exchange with other donors, PVOs, agencies, etc.	<ul style="list-style-type: none"> - work with IRM to establish E-mail system with PVOs 	<ul style="list-style-type: none"> - acquired system - evaluated in-place system utility during disasters - staff training - trained UNDRO on system - established link with PVO Caribnet 	<ul style="list-style-type: none"> - expand E-mail system to include donors UN agencies other PVOs, Missions
9) Implement a reorganized coordinated information (ADP) management system activity, including data processing and analysis, and files management.	<ul style="list-style-type: none"> - conduct requirement analysis for information management - prepare and publish OFDA annual report 	<ul style="list-style-type: none"> - review 8-A contractors - select best qualified 8-A firm - implement new support program 	<ul style="list-style-type: none"> - evaluate new contractor support system, ADP operating and library mgmt

1990 ACTION PLAN

Program Objectives and Benchmarks

Long-term Goals &
Objectives

Prior Benchmarks
FY-1988

Accomplishments
by End FY-1988

New Benchmarks:
End FY-1989 Targets

(B) Goal: Emergency Relief
Coordination Strategy

Objectives:

- 10) Maintain operational readiness through
USDA RSSA support
- review RSSA support to date, determine effectiveness, and new directions
 - conduct major OPDA simulation
 - managed monthly reviews
 - expanded RSSA support to include fire management, first responders, JCS system, and locust response
 - conducted 2 simulations
- 11) Expand roster of response specialists
in medical, chemical, nutrition fire
suppression areas
- obtain full time Medical specialist from CDC
 - Est MOU with EPA
 - Request rosters from Cooperating Agencies
 - concluded agreements with FCC, USDA, DOD, EPA, Coast Guard, Fairfax Fire Dept.
 - Obtained detail of Medical Specialist full time
 - Received rosters from USDA, EPA, CDC.
 - est. agreements with NOAA, Bureau of Land Mgt, National Park Service, USPHS
 - maintain RSSA operational readiness for disaster support
 - conduct simulation exercise

1990 ACTION PLAN

Program Objectives and Benchmarks

New Benchmarks:
End FY-1989 Targets

Accomplishments
by End FY-1988

Prior Benchmarks
FY-1988

Long-term Goals &
Objectives

(C) Goal: Disaster Preparedness
Program Planning & Organization

Objectives:

1) Establish and implement an
OFDA Program Plan in Support
of the International Decade for
Natural Hazard Reduction (IDNHR)

- assist in writing IDNHR position paper and initiative
- initiate OFDA project with USGS
- conducted meeting at NAS with USGS on global seismic risk and disseminate proceedings
- Developed USGS/OFDA Cooperative Program for hazard reduction
- establish a co-funded program for analysis of global earthquake risk with USGS, UNDP, IADB, etc.
- establish U.S. panel of experts
- establish institutional ties for info exchange
- develop vulnerability reduction strategies in target countries.
- provide aggressive training program in shelter techniques in each target country.
- develop cooperative program with AID Housing in target countries
- implement new training program for each geographic region.
- continue integrated strategy using centers of excellence
- conduct core disaster management training course in November
- reviewed OFDA shelter options; testing of plastic; tents, etc.
- queried missions on shelter needs/training
- distributed available material
- coordinated with H.U.D. in Ecuador on training
- prepared plan for 5-year target country training program in conjunction with IDNHR, early warning systems
- evacuation planning and response coordination
- est. training center in Brazil
- expanded A.I.D. training program
- developed and tested core disaster management training program
- review A.I.D. shelter strategy and how OFDA can link emergency assistance with development goals in each target country.
- review all training activities by region
- select target countries
- select target institutions
- develop core disaster management training program with host country officials

3) Design and establish a 5-year host country technical assistance/training strategy for institutions in each geographic region/division.

1990 ACTION PLAN

Program Objectives and Benchmarks

New Benchmarks:
End FY-1989 Targets

Accomplishments
by End FY-1988

Prior Benchmarks
FY-1988

Long-term Goals &
Objectives

(C) Goal: Disaster Preparedness
Program Planning & Organization

Objectives:

- 4) Conduct a focused evaluation of selected OFDA non-relief activities since 1980.
 - conduct requirements analysis for evaluation of OFDA non-relief activities
 - review budget process as part of fiscal management study
 - review need for sector strategy and review CDSS for target countries in each region, also availability of local currencies
 - review need for HBU for non-relief activities
- 5) Establish a routine program management and budgeting process/schedule for non-relief activities.
 - initiated IQC evaluation activity
 - implement new budget strategy for non-relief activities
 - est. a schedule for budgeting process
- 6) Establish an OFDA Sector Strategy fully integrated and approved by A.I.D. Bureaus and included in their CDSS process.
 - established sectors for OFDA linkages to A.I.D. Bureaus
 - secured local currency commitments in over 12 countries
 - PPC included disaster relief/mitigation in CDSS Guidance
 - integrate OFDA sector strategies into the CDSS process in target countries
- 7) Establish, monitor and manage a Management by Objectives (MBO) Strategic Plan for OFDA
 - complete MBO strategic plan for FY-1989 & FY-1990
 - implement MBO's and evaluate milestones by mid-FY-1989.

1990 ACTION PLAN

Program Objectives and Benchmarks

New Benchmarks:
End FY-1989 Targets

Accomplishments
by End FY-1988

Prior Benchmarks
FY-1988

Long-term Goals &
Objectives

(C) Goal: Disaster Preparedness
Program Planning & Organization

Objectives:

8) Promote use of curricula and technical assistance from regional training centers supported by OPDA

- complete Wisconsin courses
- advertise availability of curricula
- utilize personnel from assessments and training
- provide short-term training to about 800 host country nationals
- completed Wisconsin Courses
- introduced curriculum to PVOs
- provided funds for trainees at regional centers
- developed Latin America disaster management course with host country officials
- trained 800 host country nationals
- conduct training on Disaster Management
- provide assistance to 300 trainees at key workshops

9) Promote concern for environmental hazards

- establish model disposal program in Sudan
- trained Sudanese
- launched Sudan disposal project
- provided advice to many missions (in cooperation with EPA) on hazardous waste disposal
- complete Sudan project
- share findings with other missions
- develop guidelines with S&T and regional TR officers on disposal

FY 1990 ANNUAL BUDGET SUBMISSION
 TABLE III - PROJECT OBLIGATIONS BY APPROPRIATION (\$000)

OFDA

APPROPRIATION ACCOUNT		FY 88	FY 89	FY 90
PROJECT TITLE	L/G	ESTIMATE	ESTIMATE	APPL
International Disaster Assistance (IDA)				
A. Emergency Relief Assistance	G	19,000	19,000	34,000
B. Enhanced Disaster Response Capability	G	1,500	2,000	2,000
C. Disaster Preparedness Planning and Organization	G	4,500	4,000	4,000
TOTAL		25,000	25,000	40,000

AID/OFDA PROGRAM IN FY 1990
 ANNUAL BUDGET SUBMISSION
 TABLE V - PROPOSED RANKING
 (\$000)

DECISION UNIT		PROGRAM FUNDING				
PROJECT TITLE	<u>NEW/ CONT</u>	<u>LOAN/ GRANT</u>	<u>APPROP</u>	<u>INCR</u>	<u>CUM</u>	
A. Emergency Relief Assistance	Cont	Grant	IDA	34,000	34,000	
B. Emergency Relief Coordination Strategy	Cont	Grant	IDA	1,500	36,000	
3. Disaster Preparedness Planning and Organization	Cont	Grant	IDA	4,500	40,000	
1. Host Country Institution Building						
2. Technology Transfer						

TABLE VII - LIST OF PLANNED EVALUATIONS
 FY 1990 ANNUAL BUDGET SUBMISSION

OFFICE OF FDA

<u>Project List</u>	<u>Last Eval</u> FY 1989	<u>FY 1990</u>	<u>Funding</u>	<u>USAID</u>
(Project No. \$ Title)	Completed (Mo./Yr.) Start To (Qtr) AID/W (Qtr)	Start to (Qtr) AID/W (Qtr)	Reasons/Issues Sources (\$000)	Person Day
1. Comprehensive Program Evaluation of OFDA non-Relief Activities Since 1980.		1st.	Conduct evaluation type, quality, impact and utility of OFDA's non-relief activities from 1980 thru 1988	IDA 300 -

CONTRACTOR/GRANTEE	CONTRACT/GRANT/PASA NO.	FF. DT.	EXP. DT.	LTR. DT.	REPLY DT.	ORIGATED	TOTAL OBL.	PROJECT/OFFICER/P101#/COR
Evaluation Technology, Inc. (ETI)	OTR-0000-C-00-3345-00	83/07/11	88/07/10			445,961	1,681,037	ASP Division/82-32-7073C
Grant Commonwealth of Virginia	PDC-0000-G-SS-2214-00	87/10/25	88/07/31			125,000	199,000	OS Division/82-62-8073C
National Fire Protection Assoc.	ASB-0000-G-SS-4172-00	84/07/01	88/01/31			125,000	240,500	LAC Division/84-43-6073C
New Windsor Service Center	PDC-0000-C-00-2202-03	87/09/30	88/07/31			60,000	165,000	OS Division/84-00-0742C
USGS - Vol. Monitoring & Res. Indonesia	BOF-0000-P-1C-4072-00	84/04/15	88/08/31			197,582	740,882	ASP Division/84-32-7073C
Found. for Global Broadcasting	PDC-0000-A-00-8039-00	88/07/01	88/09/30			175,000	175,000	LAC Division/88-14-8073C
KOMA (Chille Workshop)	To Be Determined	04/15/88	88/09/30			30,000	30,000	LAC Division/88-31-8073C
PAHO - Improv Emerg Prepd & Dis Coord	PDC-0000-G-IN-7083-00	87/06/01	88/09/30	3/		345,000	345,000	LAC Division/87-13-7073C
Paul Ball Contract	MISSION ALLOWANCE	06/14/85	88/10/31			59,990	211,300	LAC Division/88-Miss A11
Asian Institute of Technology	ASB-0000-G-SS-5155-00	85/09/25	88/10/31			250,000	500,000	ASP Division/85-51-50731
Crown Pacific - Singapore	ASB-0000-G-SS-5025	84/09/24	88/10/31			65,000	280,000	OS Division/84-94-80720R
National Research Council	To Be Determined	88/06/01	88/11/30			50,000	50,000	ASP Division/88-45-80731
US Coast Guard - Dev of Environ Mgt Sys	BLA-0605-P-1C-3158-00	83/09/09	88/12/21			145,000	346,000	OS Division/83-19-50731
Univ. of Misc. Extension	OTR-0000-G-SS-3287-00	83/07/15	88/12/31			18,600	183,161	LAC Division/83-17-8073C
Labat-Anderson	To Be Determined	88/ /	89/ /			450,000	450,000	ASP Division/88-43-80731
USGS - Interagency Conference	PDC-0000-G-00-7144-00	87/09/30	89/01/03			49,399	49,399	ASP Division/87-17-70731
AIT (Program Coordinator Services)	To Be Determined	88/04/01	89/03/30			75,000	75,000	ASP Division/88-39-80731
American Red Cross	PDC-0000-G-00-7125-00	87/05/26	89/03/31			50,000	143,803	AFR Division/87-14-8073C
USGS (Greene's Maps)	To Be Determined	88/ /	89/03/31			20,000	20,000	AFR Division/88-41-8083C
Precision Kit Promotion (Emerg. Kits)	To Be Determined	86/04/17	89/05/23			117,071	117,071	OS Division/88-41-807306
Fed. Communication Comm (FCC)	PDC-0000-R-FC-7055-00					55,000	107,200	OS Division/87-05-8073C
ESCAP/UNDP	To Be Determined		89/05/31			50,000	50,000	ASP Division/88-75-8083C
AIT (Strengthening Dis. Prepd Ctr.)	To Be Determined	88/ /	89/05/31			225,000	225,000	ASP Division/88-38-80731
Harvard University	PDC-0000-G-SS-7064-00	87/06/15	89/06/14	7/		50,247	100,000	ASP Division/87-21-80731
UNDRD - Ecuador	OTR-0000-G-1G-6126-00	86/08/30	89/06/30			-59,900	582,780	LAC Division/86-45-8073C
UNDP - Dis Prepd/Mgt - Indonesia	OTR-0000-G-1G-6041-00	05/06/86	89/06/30			350,000	350,000	ASP Division/86-18-6073C
USGS Enhance So Pac Sav Strm Det & Warn	TXC-0000-P-11A-7103-00	87/08/05	89/06/30			150,000	250,205	ASP Division/87-18-8073C
AASAS Fellowship/Allian Showler	LAN-5543-G-SS-2105-00	88/07/31	89/06/30			55,000	55,000	AFR Division/88-42-80731
NASA - Severe Storm Det & Warn Sys	PDC-0000-P-NA-7103-00	87/04/01	89/06/30	4/		150,000	250,205	ASP Division/87-18-8073C
USGS - Haz. Mit. Program in Panama	OTR-0000-P-1C-6117-00	86/03/01	89/07/31	9/	STOP WORK ORDER	95,503	95,503	LAC Division/86-47-6073C
USDA - Agriculture Disaster Assist.	BOF-0000-P-1C-5091-02	83/08/08	89/09/30			750,793	1,858,112	OS Division/83-17-80731
RET Corp	OTR-0000-P-1C-6108	86/08/01	89/09/30			-96,337	437,147	LAC Division/86-41-8073C
OAS - Info Mgt in Metropolitan Areas	PDC-0000-C-1C-7079-00	87/03/01	89/09/30	5/		84,800	84,000	LAC Division/87-16-70731
OAS - Reduce of Vul in Carib Basin	PDC-0000-C-00-7075-00	87/03/01	89/09/30	6/		329,000	477,600	LAC Division/87-15-8073C

CONTRACTOR/GRANTEE	CONTRACT/GRANT/PASA NO.	EFF. DT.	EXP. DT.	LTR. DT	REPLY DT	OBLIGATED	TOTAL OBL.	PROJECT/OFFICER/P/OTM/COMMENT
Nat'l Assoc. of the Partners of Americas	PDC-0000-G-SS-7068-00	8/1/03/01	90/07/28	1/		75,000	709,189	LAC Division/87-03-8073081 *
USGS	PDC-0000-P-1C-7050-00	8/7/06/01	90/09/30			75,865	173,053	ASP Division/87-04-8073071
Dade County Fire Department	ASB-0000-G-SS-5144-00	85/09/17	91/01/31			375,000	646,515	LAC Division/85-52-8073054 *
1QC/3,000 Gal. Water Tanks	To Be Determined	88/08/01	91/07/31			125,000	125,000	OS Division/88-10-8072021
1QC/Blankets	To Be Determined	88/08/01	91/07/31			21,500	21,500	OS Division/88-09-8072020
USGS - Vol. Dis. Assist. Program	OTR-0000-P-1C-6116-00	86/09/01	91/07/31	8/		250,000	864,940	LAC Division/86-44-8073080 *
1QC/U.S. Stockpile	To Be Determined	88/ /	93/08/01			75,000	75,000	OS Division/88-23-8072013 *
1/ Life of Project Funding \$803,011	6/ Life of Project Funding \$481,000							
2/ Life of Project Funding \$264,837	7/ Life of Project Funding \$100,000							
3/ Life of Project Funding \$7,010,500	8/ Project Funding not to exceed \$1,174,000							
4/ Life of Project Funding \$276,525	(Total Oblig. reflects \$337,940 of Mission Funds)							
5/ Life of Project Funding \$468,800	9/ Life of Project Funding \$350,000							

* On-going Projects

U.S. Foreign Disaster Assistance FY 1988
 OIDA Administered Funds
 October 1, 1987 - June 23, 1988

This chart includes funds from the International Disaster Assistance account, monies borrowed from A.I.D. development assistance accounts, and funds from the supplemental appropriation for Southern Africa Development Coordination Committee (SADCC) states, all monies obligated or administratively reserved.

COUNTRY	DATE	DISASTER	DEAD	AFFLICTED	AMOUNT(\$)	TYPE OF ASSISTANCE
Africa Region ¹	00/00/88	Insect Infestation	-	-	100,000	U.S. technical assistance
Africa Region ¹	00/00/87	Insect Infestation	-	-	26,772	Travel costs of experts to FAO strategy meeting and evaluation
Africa Region ¹	00/00/88	Displaced Persons	-	-	243,500	Grant to WVRD for shipment and distribution of donated clothing
Algeria	12/29/87	Insect Infestation	-	-	140,673	Assessment; radio equipment; spraying equipment for aircraft
Algeria	03/27/88	Insect Infestation	-	-	39,634	6 fuel tank kits and freight costs
Argentina	03/29/88	Floods	25	57,000	5,000	Local purchase of relief supplies
Benin	03/21/88	Epidemic	41	230	46,642	Grant to UNICEF for medicines; local purchase of medicines
Bermuda ¹	09/25/87	Hurricane	-	-	46,450	Replacement of 150 rolls of plastic sheeting taken from Panama stockpile
Botswana ¹	00/00/88	Drought	-	-	544,500	Water project; WASH team
Brazil	02/11/88	Floods	300	25,000	122,595	Local purchase of relief supplies; grant to Partners of the Americas; USGS Landslide expert
Burkina Faso	02/21/87	Insect Infestation	-	-	10,600	Extension of contract with manager of control campaign
Burma	03/23/88	Fire	113	20,000	25,000	Donation to GOB for local relief effort
Chad ¹	06/30/87	Rat Infestation	-	-	9,125	Expert to assist with control program
China	06/02/88	Floods	149	3,000,000	25,000	Local purchase of chlorine for water purification
China ¹	05/19/87	Fire	-	-	7,680	Replacement of chain saws taken from Guam stockpile and ocean freight
Costa Rica	01/30/88	Floods	9	4,200	105,000	2 MDH helicopters for search and rescue
Ecuador	03/08/87	Earthquake	-	-	28,000	Internal transport costs of bridges
Ethiopia ¹	00/00/85	Drought	-	-	3,036	Increase in cost of truck repair program

U.S. Foreign Disaster Assistance FY 1980
 OFDA Administered Funds
 October 1, 1987 - June 23, 1988

COUNTRY	DATE	DISASTER	DEAD	BILITIO	AMOUNT(\$)	TYPE OF ASSISTANCE
Ethiopia*	09/14/87	Drought	-	-	16,201,547	Assessment; grants to PVDs for food distribution and rehabilitation programs, medical supplies, grant to WFP for 20-25 truck/loaders; management assistance; orphan earmark
Guinea-Bissau	10/08/87	Epidemic	60	880	28,249	Purchase and transport of Ringer's lactate and ORS from UNICEF
Indonesia	05/23/88	Volcanic Eruption	3	2,500	25,000	Donation to local relief effort
Lesotho	10/09/87	Floods	20	250,000	656,091	Donation to GOL relief program; grant to local Red Cross; recovery support for GOL
Malawi	02/24/88	Food Shortage	-	1,300,000	320,553	Reception center and temporary shelter; vehicle; emergency coordinator; grant to WVRD
Mali	10/09/87	Epidemic	137	153	21,333	Perdiets, spare parts, and transport
Mali*	02/12/87	Insect Infestation	-	-	5,541	Transport costs of pesticides
Mauritania	10/29/87	Epidemic	35	178	23,605	Procurement and transport of 140,000 doses of vaccine
Morocco	11/04/87	Insect Infestation	-	-	446,686	Entomologists; charter of aircraft for delivery of pesticides; contract for aircraft for spraying
Morocco	03/15/88	Insect Infestation	-	-	1,853,210	Airlift of pesticides; contract for aircraft for spraying; experts to assist with spraying program
Mozambique	12/31/87	Civil Strife	-	5,900,000	3,757,673	Grants to ADRA, SCF, AFRICARE, AIRSERV, WFP, and WVRD; shelter program for orphans
Mozambique*	01/08/87	Civil Strife	-	-	2,710,000	Grants to UNICEF and ICRC; emergency operations officer
Niger	03/30/88	Drought	-	1,000,000	25,000	Donation to GON for nutritional survey
Niger*	03/13/87	Insect Infestation	-	-	8,400	Helicopter surveying
Nigeria	06/15/88	Accident	-	-	20,700	170 team for assessment

U.S. Foreign Disaster Assistance FY 1988
OFDA Administered Funds
October 1, 1987 - June 23, 1988

COUNTRY	DATE	DISASTER	DEAD	AFFECTED	AMOUNT(\$)	TYPE OF ASSISTANCE
Pakistan	04/11/88	Accident	100	1,100	35,000	UNEP OF ASSISTANCE Support for local relief program; DOD medical team and supplies
Panama	03/24/88	Civil Strife	-	-	256,968	Grants to Caritas and CARE to support feeding programs
Paraguay ¹	00/00/88	Floods	-	-	1,200	Pre disaster survey
Philippines	11/27/87	Typhoon	660	461,361	890,165	Donation to Philippines Red Cross; DOD airlift support costs for donated relief items; shelter program
Philippines	05/02/88	Fire	-	10,000	25,000	Donation to Caritas for local relief effort
Philippines	05/10/88	Fire	2	1,200	5,000	Donation to Philippines Red Cross
Senegal	05/11/88	Insect Infestation	-	-	25,000	Radios
South Africa	02/18/88	Food Shortage	-	1,320,614	200,000	Grant to Operation Hunger for continued support of feeding program
South African*	09/29/87	Floods	-	-	42,787	Assessment; local purchase and transport of plastic sheeting
Sri Lanka*	08/27/87	Displaced Persons	-	-	26,826	Contract with INTERIEF for technical assistance
Sudan	02/29/88	Drought	-	1,780,000	564,236	Transportation assessment; IRCs delegate; grants to Sustainable, CORE, and GWS; airlift of plastic sheeting
Sudan	04/20/88	Epidemic	1,000	-	90,000	Grant to UNICEF for vaccines and equipment
Thailand	02/19/88	Displaced Persons	-	500	10,000	Local purchase of relief supplies
Turk ¹	01/20/88	Cyclone	-	-	133,370	Replacement of plastic sheeting taken from Guam stockpile
Tunisia	03/19/88	Insect Infestation	-	-	593,372	Experts; radio equipment; lights; pesticides; charter of aircraft
Uganda	12/17/87	Drought	-	415,000	25,000	Donation to WFP for fuel to move food

U.S. Foreign Disaster Assistance FY 1988
 OIDD Administered Funds
 October 1, 1987 - June 23, 1988

COUNTRY	DATE	DISASTER	DEAD	AFFECTED	AMOUNT(\$)	TYPE OF ASSISTANCE
Vanuatu	01/18/88	Cyclone		3,100	25,000	Donation to GOV relief program
Zambia ¹	00/00/88	Drought	2,654	15,543,016	30,635,099	Family relief monitor

51 Disasters
 32 New declared disasters
 (27 Countries)
 13 Carried over from previous year(s)
 8 Undeclared (2 from previous year and 6 in FY 1988)
 17 Disaster types

¹ Carried over from previous year(s)
 1 Undeclared

Note: The numbers of dead and affected for disasters carried over from previous year(s) have been previously counted and are not included in this report; otherwise, a dash (-) indicates that information is currently unavailable.