

WATER AND SANITATION
FOR HEALTH PROJECT



COORDINATION AND
INFORMATION CENTER

Operated by CDM FIVE
for the U.S. Agency
for International Development

1611 N. Kent Street, Room 1002
Arlington, Virginia 22209 USA

Telephone: (703) 243-8200
Telex No. WUI 64552
Cable Address WASHAID

CDM FIVE is operated by
Camp Dresser and McKee
Incorporated; Principal Col-
laborators: Center for Educa-
tional Development in
Health, Boston University;
International Science and
Technology Institute; Re-
search Triangle Institute;
University of North Carolina
at Chapel Hill.

→ Mrs. Haldenroft f
appropriate Tech. Div.

(115)
PD-AAS-024

53

931-1176

SUMMARY OF
WASH PROJECT
ACTIVITIES FOR
BUREAU FOR AFRICA
September 1, 1980 - March 31, 1982

000333

000186
5

UNITED STATES INTERNATIONAL DEVELOPMENT COOPERATION AGENCY
AGENCY FOR INTERNATIONAL DEVELOPMENT

WASHINGTON D C 20523

April 5, 1982

TO: Bureau for Africa Personnel

FROM: S&T/HEA, Victor Wehman, Jr., P.E., R.S.
WASH Project Manager

Victor Wehman

SUBJECT: WASH Project Services in Water Supply and Sanitation
to Regional Bureaus, Field Missions and AID/W Offices

The Water and Sanitation for Health (WASH) Project began on Sept. 1, 1980. After about a two-month contractor facility and personnel mobilization period, services to the field were advertised as available on 19 October 1980 in STATE 278993 cable. Actual field and AID/W requests for WASH services began coming into S&T/HEA in mid-November 1980. Since mid-November, the WASH project has worked on water supply and sanitation activities in 43 countries; some tasks are under implementation and others have been completed.

Enclosed is the Agency's most recent information on project identification and funding of water supply and sanitation projects in the Africa Bureau. One can readily see major development initiatives have been and are being made in the Africa Bureau in water supply and sanitation projects or components of projects. Since 1977, the Africa Bureau has obligated in excess of \$65 million in 21 water and sanitation projects in 15 countries. Substantial water supply and sanitation components are found in an additional 33 projects in 17 countries in the region. Many of these projects are still under implementation.

Enclosed one will also find a summary of WASH Project services to the Africa Bureau including detailed aspects of each request and authorization.

The Science and Technology Bureau encourages the Africa Bureau to participate not only in the utilization of the WASH services, but also to participate in the funding of FY 82, FY 83 and FY 84 WASH services. This can be done through provision of Regional project funds, PDS funds or field mission grant funds, or end of year funds that could be made available to WASH in block grants. This was discussed at PP and PAF stages of WASH Project development with each of the Regional Bureau's assistant administrators and technical health staff. WASH has already demonstrated an effective ability to integrate WASH specialized services into ongoing or upcoming water supply and sanitation, rural development, housing, primary health care, and agricultural projects.

The WASH Project is an inter-regional resource, one which has already proved in many ways its viability, timeliness and professional interdisciplinary approach to water supply and sanitation program/projects and problems in a variety of traditional sectors. One would hope that the Africa Bureau would participate appropriately in the budgetary support of the WASH service resource for Africa Bureau field missions and Africa, AID/W needs especially in the areas of technical assistance, training, technology transfer, community development and institutional strengthening, project conception and trouble-shooting. The WASH Project is at this time a one of a kind, experimental, quick response, highly professional, interdisciplinary resource. One would hope that the Agency would utilize this unique resource effectively after all the work that went into creating it and getting it operationally effective.

SUMMARY OF AFRICA BUREAU PROJECT ACTIVITIES IN WATER SUPPLY & SANITATION

Country/Project Title	Project No.	Approp.	FY 77 Actual (\$000's)	FY 78 Actual (\$000's)	FY 79 Actual (\$000's)	FY 80 Actual (\$000's)	FY 81 Actual (\$000's)	FY82 CP (\$000's)	FY82 OYB (\$000's)	FY83 CP (\$000's)
Benin/Rural Water Supply	680-0201	DA/HE	---	---	954	2,000	4,707	---	---	---
Botswana/Environmental San.	633-0084	DA/HE	---	---	499	---	---	---	---	---
Cameroon/Marqui-Wardala Water Supply	631-0025	DA/HE	---	---	---	534	925	425	---	---
Mandara Mt. Resources-Water	631-0C12	DA/FN	---	---	1,875	775	2,300	2,066	---	---
Cape Verde/Desalination/Power	655-0005	DA/SD	---	5,765	---	---	---	---	---	---
	655-0005	SH	---	900	---	---	---	---	---	---
	655-0005	IIE	---	525	---	---	---	---	---	---
Mindelo Desalination II	655-0004	SH	600	---	---	---	127	---	---	---
	655-0004	DA/HE	---	200	300	---	---	---	---	---
Chad/Rural Sanitary Water	677-0022	DA/SH	---	1,000	668	---	---	---	---	---
Kenya/Community Water Supply	615-0117	DA/HE	---	---	---	---	---	3,800	---	4,726
Lesotho/Rural Water & San.	632-0088	DA/HE	---	---	1,804	1,196	2,000	2,455	2,300	2,098
Liberia/Hand Dug Wells	669-0157	DA/HE	---	267	---	---	---	---	---	---
Malawi/Rural Water	612-0207	DA/HE	---	---	---	700	1,700	1,498	1,669	1,402
Mali/Rural Water Improvement	688-0224	DA/SH	---	---	---	259	---	---	---	---
Sahel Wells (DVO)	688-0229	DA/SH	---	---	---	---	405	---	---	---
Somalia/Comp. Groundwater Dev.	649-0104	DA/HE	---	---	757	2,400	2,200	1,199	1,199	---
Sudan/Port Sudan Refugee Water	650-0050	FDA	---	---	---	---	2,000	---	---	---
Tanzania/Health Env. Monitor'g	621-0165	DA/HE	---	---	---	---	---	---	---	---
Togo/Rural Water Sup./Env. San.	693-0210	DA/IIE	---	---	---	1,500	3,248	2,600	1,000	600
Upper Volta/Rural Water Supply	686-0228	DA/SH	---	---	3,500	2,500	2,277	4,455	4,003	---
TOTAL			\$600	\$8,657	\$10,357	\$11,864	\$21,889	\$18,498	\$10,171	\$8,826

2

Summary of AID Water Supply and Sanitation Projects by Bureaus: 1976-1983

Bureau	FY 76+T.Q. Actual (\$000's)	FY 77 Actual (\$000's)	FY 78 Actual (\$000's)	FY 79 Actual (\$000's)	FY 80 Actual (\$000's)	FY 81 Actual (\$000's)	FY 82 CP (\$000's)	FY 82 OYB (\$000's)	FY 83 CP (\$000's)
Africa									
DA	--	--	6,757	6,189	9,105	17,080	14,043	6,168	8,826
SH	--	600	1,900	4,168	2,759	2,809	4,455	4,003	--
ES	--	--	--	--	--	--	--	--	--
FDA	--	--	--	--	--	2,000	--	--	--
Asia									
DA	23,730	10,305	3,684	3,500	16,104	9,400	1,233	3,033	200
ES	--	--	--	--	--	--	15,000	--	--
Latin America									
DA	400	4,781	531	8,625	18,961	5,220	6,450	9,750	9,000
Near East									
DA	2,057	1,855	5,978	7,584	3,813	5,650	2,050	2,200	--
ES	22,500	52,000	61,800	162,621	93,500	111,100	152,500	20,000	159,000
(PL480)*							(75,000)*	(75,000)*	
Science & Technology									
DA	418	384	545	66	2,652	3,179	2,500	2,450	2,400
TOTAL Development Assistance	26,605	17,925	19,395	30,132	53,394	45,338	30,731	27,604	20,426
TOTAL Economic Support	22,500	52,000	61,800	162,621	93,500	111,100	167,500	20,000	159,000
Sub-TOTAL (appropriated)	49,105	69,925	81,195	192,753	146,894	156,438	198,231	47,604	179,426
PL 480 Local Currency							75,000	75,000	
Housing WS&S Components			45,000	55,000	70,500	42,000	46,000	46,000	46,000
Grand Total WS&S	49,105	69,925	126,195	247,753	217,394	198,438	319,231	168,604	225,426

*Non-appropriated, host government or PL480 generated local currency (non-additive)

SUMMARY OF AFRICA BUREAU ACTIVE AND PROPOSED PROJECTS HAVING A WATER SUPPLY OR SANITATION COMPONENT (\$000's)*

Project Title	Project Number	FY of Initial Oblig.	FY of Final Oblig.	Total Project Cost Auth.	Planned	Through FY 81 Obligations	FY 81 Expenditures	Est. FY 82 Obligations	FY 82 Expenditures	Proposed FY 83 Obligations	FY 83 Expenditures
<u>No. Cameroon</u>											
Pilot Commun. Devel.	G 631-0010	'77	'79	351	351	351	351	---	---	---	---
<u>Cape Verde</u>											
Tarrafal Water Resources	G 655-0003	'77	'80 SH FN	800 2,200	1,000 2,200	800 2,200	425 1,820	200 ---	257 380	---	318 ---
Watershed Mgt. Soil Conservation	G 655-0009	'79	'82 SH	6,275	6,275	4,514	893	1,765	1,500	---	1,500
Tarrafal Water Resources II	G 655-0010	'82	'86 SH	---	5,000	---	---	---	---	2,003	---
<u>Gambia</u>											
Soil & Water Resources Mgt. Unit	G 635-0202	'78	'79	2,040	4,017	2,037	961	750	500	1,230	750
<u>Ghana</u>											
Delivery of Rural Health Services	G 641-0082	'83	'87	---	5,000	---	---	---	---	945	700
Rural Development	G 641-0117	'77	'77	---	500	500	500	---	---	---	---
<u>Liberia</u>											
Lofa County Rural Health	G 669-0125	'75	'79	2,652	2,652	2,652	2,476	---	176	---	---
Health Delivery System	G 669-0165	'82	'86 POP HE	---	800 8,700	---	---	---	---	200 1,000	100 1,587
Health Delivery System	L 669-0165	'82	'86	---	10,000	---	---	3,000	405	2,000	2,550

* Total project costs, including WS&S components

2

SUMMARY OF AFRICA BUREAU ACTIVE AND PROPOSED PROJECTS HAVING A WATER SUPPLY OR SANITATION COMPONENT (\$000's)*

Project Title	Project Number	FY of Initial Oblig.	FY of Final Oblig.	Total Project Cost Auth.	Total Project Cost Planned	Through FY 81 Obligations	FY 81 Expenditures	Est. FY 82 Obligations	FY 82 Expenditures	Proposed FY 83 Obligations	FY 83 Expenditures
<u>Liberia (cont'd)</u>											
YMCA Agric. Train.	G 669-0141	'77	'82	---	490	77	---	---	---	---	---
Low Income	G 669-0146	'78	'83 SD	---	1,672	---	---	---	---	---	---
Housing	L 669-0146	'78	'78 DL	---	4,000	---	---	---	---	---	---
<u>Mali</u>											
Operation Haute Vallee	G 688-0210	'78	'83	18,395	14,913	11,912	6,870	---	3,526	3,000	1,777
<u>Mauritania</u>											
Integrated Development of Oases	G 682-0207	'80	'84	5,991	5,991	3,042	350	700	1,801	1,000	1,131
<u>Niger</u>											
Rural Health Improvement	G 683-0208	'78	'83	12,029	12,029	7,173	1,804	---	2,300	750	3,069
Basic Health Services Development	G 683-0214	'76	'80	1,468	1,468	1,468	1,307	---	161	---	---
<u>Senegal</u>											
Rural Health Services II	G 685-0242	'83	'87 SH	---	8,000	---	---	---	---	1,200	1,000
Rural Health Services Dev.	G 685-0210	'77	'78 HE	1,494	1,494	1,494	1,348	---	146	---	178
		'79	'80 SH	1,825	1,825	1,825	740	---	907	---	---
<u>Somalia</u>											
Rural Health Delivery	G 649-0102	'79	'84	15,249	15,249	7,800	2,678	1,800	2,000	2,234	1,600
<u>Swaziland</u>											
Rural Water Borne Disease Control	G 645-0087	'79	'83	3,297	3,297	2,240	378	---	697	1,057	693

SUMMARY OF AFRICA BUREAU ACTIVE AND PROPOSED PROJECTS HAVING A WATER SUPPLY OR SANITATION COMPONENT (\$000's)*

Project Title	Project Number	FY of Initial Oblig.	FY of Final Oblig.	Total Project Cost Auth.	Total Project Cost Planned	Through FY 81 Obligations	FY 81 Expenditures	Est. FY 82 Obligations	FY 82 Expenditures	Proposed FY 83 Obligations	FY 83 Expenditures	
<u>Tanzania</u>												
Arusha District												
Village Health	G 621-0143	'78	'82FN	14,591	14,591	13,945	8,481	646	5,510	---	600	
Hanang Village												
Health Program	G 621-0138	'78	'79	499	499	499	454	---	45	---	---	
School Health Program	G 621-0150	'80	'83	5,700	5,700	5,700	739	---	2,943	---	2,062	
Village Environmental												
Improvement (PVO)	G 621-0160	'81	'81 SD	499	499	499	---	---	125	---	249	
<u>Sudan</u>												
Refugee Relief	G 650-0050	'81	'81	---	---	2,000	---	---	---	---	---	
<u>Zimbabwe</u>												
Intensive Rural Development Area	G 613-0209	'82	'85	---	45,000	---	---	15,000	---	9,000	20,000	
<u>Sahel</u>												
Sahel Water Data Network & Dev.												
	G 625-0917	'76	'80 SH	3,978	3,978	3,978	2,641	---	1,337	---	---	
		'76	'80 FN	2,290	2,290	2,290	1,684	---	606	---	---	
Sahel Water Data Network & Dev. II												
	G 625-0940	'82	'86 SH	---	7,000	---	---	1,300	1,000	1,250	1,500	
<u>Zaire</u>												
Health Systems Dev.	G 660-0057	'78	'80	610	610	610	30	---	580	---	---	
Integrated Rural Dev.	G 660-0093	'81	'81 HE	490	490	490	---	---	200	---	200	
North Shaba Rural Development												
	G 660-0059	'76	'82 FN	9,925	11,712	9,291	5,292	2,421	2,000	---	21,333	
	L 660-0059	'76	'76 FN	3,500	3,500	3,500	2,109	---	1,391	---	---	
Basic Rural Health	G 660-0086	'81	'83	4,364	4,364	900	---	1,929	700	1,500	800	
TOTAL AFRICA BUREAU					\$120,512	\$217,156	\$93,787	\$44,331	\$30,511	\$30,875	\$28,369	\$63,697

Summary of WASH Project Activities
for Africa Bureau

Table of Contents

Summary of WASH Project Activities

WASH Costs for Africa Bureau: 13 T-Tasks, 24 C-Tasks

<u>Summaries of Specific Activities</u>	<u>WASH Report*</u>
T - 10 West Africa	
T - 16 Mauritania	F.R. #11
T - 26 Tanzania	F.R. #s 7, 8
T - 27 Niger	
T - 34 Africa Region	
T - 36 Burundi	F.R. #24
T - 45 Benin & Togo	F.R. #27
T - 47 Zaire	
T - 53 Togo	T.R. #13
T - 60 Sudan	
T - 64 Mali	F.R. #32
T - 75 Tanzania	
T - 78 Senegal	
C - 47 Malawi	T.R. # 4
C - 49A Cameroon	T.R. # 3
C - 49B Cameroon	T.R. # 5
C - 65 REDSO	
C - 97 Africa Bureau	
C -109 Malawi	

List of WASH Publications

*The March 1982 List of WASH Publications is the last section of this report. F.R. indicates a Field Report; T.R. indicates a Technical Report.

Summary of WASH Project Activities for Africa Bureau
September 2, 1980 - February 27, 1982

WASH Number	Country/Bureau	Title	Person Days Authorized	Estimated Costs	Status*
T- 10	West Africa	Provision of Expert Public Health Officer Technical Assistance to DS/HEA	25	\$ 3,201	C
T- 16	Mauritania	Water Supplies from Rural Land Reclamation	65	\$ 17,114	C
T- 26	Tanzania	Project Design Assistance for Health and Environmental Monitoring Project (HEMP) and WS&S Manpower Training and Materials	130	\$ 30,822	C
T- 27	Niger	Evaluation of Rural Health Project	70	\$ 35,784	C
T- 34	Africa (region)	Coordination and Facilitation of Use of WASH Technical Assistance Services in Africa	100	\$ 40,000	O
T- 36	Burundi	Evaluation of Rural Water Supply Project	75	\$ 30,000	O
T- 45	Benin & Togo	Village Health Education and Training: Program Planning, Implementation and Evaluation	140	\$ 56,000	O
T- 47	Zaire	Technical Assistance in Review of Rural Primary Health Care Project Paper	15	\$ 6,000	O
T- 53	Togo	Participation in AID Health Officers Workshop in Lome, Togo, 15 - 20 November 1981	20	\$ 26,609	C
T- 60	Sudan	Technical Assistance in Water Supply and Sanitation Planning and Training	140	\$ 56,000	O
T- 64	Mali	Technical Assistance for Well Siting	50	\$ 20,000	O
T- 75	Tanzania	Development of The National Sanitation Environmental Education Master Plan	170	\$ 68,000	O
T- 78	Senegal	Training of Sanitarians	75	\$ 30,000	O
C- 47	Malawi	Evaluation Methods for Community Rural Water Supply and Sanitation Projects in Developing Countries: A Synthesis of Available Information		\$ 6,094	C

*Status

C: Completed
O: On-going

Summary of WASH Project Activities for Africa Bureau (Cont.)
September 2, 1980 - February 27, 1982

WASH Number	Country/Bureau	Title	Person Days Authorized	Estimated Costs	Status*
C- 49A	Cameroon	Synthesis Report: Training of Rural Community Development Workers in Health Education	}	\$ 11,980	C
C- 49B	Cameroon	The Choice of Health Status Indicators to Evaluate Water and Sanitation Projects in North Cameroon: A Synthesis of Available Information			C
C- 65	REDSO	Rural Water Supply Information for REDSO			\$ 53
C- 97	Africa Bureau	Technical Support to APHA in Planning Africa Bureau Health Offices Conference		\$ 1,821	C
C-109	Malawi	Seminar on Community Participation and Health Education in Rural Water Systems		\$ 304	C
Total of above				\$439,782	
Costs of other C-Tasks listed in next section.				\$ 10,162	
Total T- and C-Task Costs				\$449,944	

*Status

C: Completed
O: On-going

9

WASH COSTS AS OF 2/27/82

AFRICA BUREAU

CIC #065 - Information Request Rural Water Supply Development from REDSO/EA Information	\$ 53.	
Total CIC #065		\$ 53.
CIC #095 - Participate with APHA in Planning WS&S Agenda for Africa Bureau Health Officers Conference		
WS&S Tech Assistance	\$ 1,756.	
CIC Co-ordination	65.	
Total CIC #095		1,821.
CIC #122 - Zaire: Preliminary Work Leading to OTD		
WS&S Tech Assistance	\$ 55.	
Total CIC #122		55.
CIC #155 - Make Camera Ready Copy of Niger Report for AID on Word Processor		
CIC-Co-ordination	\$ 2,283.	
Total CIC #155		2,283.
CIC #224 - Africa Bureau Water/Sanita- tion Strategy Paper		
WS&S Tech Assistance	\$ 91.	
Total CIC #224		91.
OTD #010 - Provide Expert Public Health Technical Assistance to Africa Bureau Regional Health Officers Conference 25PD		
CIC-Coordination	\$ 1,520.	
Information	1,681.	
Total OTD #010		3,201.

OTD #034 - Technical Assistance to African Bureau - Awareness of WASH Tech Transfer	\$ 6,022.	
CIC Co-ordination	2,224.	
WS&S Tech Assistance	6,022.	
Travel	5,461.	
Supplies	63.	
Information	4,214.	
Training	3,996.	
Total OTD #034		28,008.

OTD #053 - Togo: USAID Health Officers' Workshop		
Training	\$ 2,256.	
Travel	9,997.	
Supplies	744.	
Miscellaneous	60.	
Information	2,707.	
Equipment	32.	
CIC Co-ordination	3,321.	
Boston Support	725.	
WS&S Tech Assistance	4,511.	
Tech Transfer	2,256.	
Total OTD #053		26,009.

TOTALS FOR NON MISSION SPECIFIC \$ 62,121.

BENIN

CIC #103 - Preliminary Activity Leading to Technical Assistance to Benin Rural Water Supply Project		
WS&S Tech Assistance	\$ 108.	
Total CIC #103		108.

OTD #045 - Togo & Benin - Technical Assistance		
Tech Transfer	\$ 833.	
WS&S Tech. Assistance	1,667.	
Boston Support	43.	
CIC Co-ordination	2,303.	
Equipment	14.	
Information	932.	
Supplies	958.	
Travel	27,541.	
Training	5,001.	
Total OTD # 45		39,292.

TOTALS FOR BENIN \$ 39,400.

- BURUNDI

CIC #087 - Evaluate UNICEF Rural Water
Supply and Sanitation Project WS&S

Tech Assistance	\$ 66.	
Total CIC #087		66.

OTD #036 - Technical Assistance to Burundi

Information	\$ 195.	
Supplies	263.	
Travel	10,171.	
WS&S Tech. Assistance	11,355.	
CIC Co-ordinance	3,336.	
Equipment	532.	
Total OTD #036		25,852.

TOTALS FOR BURUNDI 25,918.

- CAMEROON

CIC #049 - Information on Rural Health
Education & Evaluation

Supplies	\$ 538.	
Information	14.	
WS&S Tech Assistance	9,885.	
Travel	145.	
CIC Co-ordination	1,398.	
Total CIC #049		11,980.

CIC #177 - Retrieve Basic Health Survey Data
by Isely now Stored, Assess Usability,
Recommend Suitable Disposition

Boston Support	\$ 341.	
CIC Co-ordination	24.	
Total CIC #177		365.

TOTALS FOR CAMEROON 12,345.

- SUDAN

CIC #050 - Reproduce Documents on Refugee
WS&S for USAID - Khartoum

CIC Co-ordination	\$ 96.	
Total CIC #050		96.

CIC #144 - Preliminary Work Leading to
 an OTD

Information	\$ 911.	
CIC-Coordination	964.	
Total CIC #144		1,875.

OTD #060 - Sudan: Health Project
 Assessment

Tech Transfer	\$ 522.	
WS&S Tech Assistance	1,566.	
CIC-Coordination	1,826.	
Travel	18,759.	
Information	730.	
Miscellaneous	25.	
Supplies	389.	
Total OTD #060		23,817.

TOTALS FOR SUDAN 25,788.

- LESOTHO

CIC #124 - Coordinate Visit of Mr. Hendrich,
 Dir. of Lesotho Water Branch, July, 6, 7,
 or 8

WS&S Tech Assistance	\$ 197.	
----------------------	---------	--

Total CIC #124		
--------------------------	--	--

TOTALS FOR LESOTHO 197.

- MALI

CIC #102 - Preliminary Activity Prior to
 Request from Mali

CIC Co-ordination	\$ 31.	
WS&S Tech Assistance	950.	

Total CIC #102		981.
--------------------------	--	------

147

OTD #064 - Mali: Hydrogeologist Technical Assistance		
Training	\$ 810.	
Information	1,506.	
Supplies	136.	
Travel	1,870.	
CIC Co-ordination	1,187.	
Boston Support	45.	
WS&S Tech Assistance	6,490.	
Total OTD #064		12,044.
TOTALS FOR MALI		13,025
- MALAWI		
CIC #047 - Synthesis of Evaluation Method & Approaches to Community Water Supply & Sanitation		
Information	\$ 6,094.	
Total CIC #047		6,094.
CIC #184 - Respond to Malawi Request for Information Concerning Pipe Corrosion and Air Locks		
WS&S Tech Assistance	\$ 170.	
Boston Support	82.	
Total CIC #184		262.
TOTALS FOR MALAWI:		6,356.
- MAURITANIA		
OTD #016 - Review Effects of New Barrages on Health		
Travel	\$ 13,755.	
WS&S Tech Assistance	1,269.	
CIC Co-ordination	2,090.	
Total OTD #016		17,114.
TOTALS FOR MAURITANIA		17,114.

14

NIGER

OTD #027 - Technical Assistance for Niger		
Travel	\$ 9,224.	
WS&S Tech Assistance	23,952.	
CIC Co-ordination	2,220.	
Information	26.	
Supplies	362.	
Total OTD #027		35,784.
TOTALS FOR NIGER		35,784.

- SENEGAL

CIC #044 Provide Information on Health Surveillance		
Information	\$ 143.	
Total CIC #044		143.

CIC #201 - Senegal: Preliminary Work Leading to OTD		
CIC Co-ordination	\$ 33.	
WS&S Tech. Assistance	89.	
Total CIC #201		122.

OTD #078 - Senegal: Assessment and Operational Training or Development of Training Materials		
Tech. Transfer	\$ 36.	
CIC Co-ordination	331.	
WS&S Tech. Assistance	72.	
Information	214.	
Supplies	250.	
Travel	2,980.	
Training	180.	
Total OTD #078		4,063.

TOTALS FOR SENEGAL: 4,328.

- SAHEL

CIC #223 - O.M.V.S. Project Review		
WS&S Tech Assistance	\$ 91.	
Total CIC #223		91.

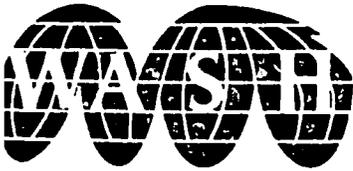
TOTALS FOR SAHEL 91.

15

-	SOMALIA		
CIC #099	- Preliminary Activities Leading to Request from Somalia Information	\$ 165.	
	Total CIC #099		165.
TOTALS FOR SOMALIA:			165.
-	SWAZILAND		
CIC #222	- Swaziland: Collect/Send Information on Cholera Control to AID/Swaziland WS&S Tech. Assistance	\$ 145.	
	Total CIC # 222		145.
TOTALS FOR SWAZILAND			145.
-	TANZANIA		
CIC #056	- Tanzania Sanitation Training Boston Support Information Travel WS&S Tech Assistance	\$ 295. 19. 14. 459.	
	Total CIC #056		787.
CIC #061	- Tanzania Health & Environmental Monitoring Project (HEMP) CIC Co-ordination WS&S Tech Assistance Travel	\$ 425. 433. 24.	
	Total CIC #061		882.
OTD #026	- Technical Assistance to Tanzania Information WS&S Tech. Assist. Boston Support Travel Supplies Miscellaneous CIC Co-Ordin. Training Tech. Trans.	\$ 2,126. 4,253. 1,693. 5,440. 401. 1,954. 72. 12,757. 2,126.	
	Total OTD #026		30,822.

16

OTD #075 - Tanzania: Master Plan for Sanitation Training			
	Information	\$	537.
	Training		4,563.
	CIC Co-ordination		1,303.
	WS&S Tech. Assistance		1,075.
	Boston Support		142.
	Total OTD #075		7,620.
TOTALS FOR TANZANIA			40,111.
- TOGO			
CIC #076 - Preparation for WASH Tech Assistance - Togo			
	WS&S Tech Assistance	\$	1,380.
	Total OTD #076		1,380.
TOTALS FOR TOGO:			1,380.
- UGANDA			
CIC #169 - Setup and Meet with Cole Dodge, UNICEF-Uganda Country Rep. Re: Potential WASH Assistance			
	WS&S Tech Assistance	\$	188.
	Information		45.
	Total CIC #169		233.
TOTALS FOR UGANDA			233.
- ZAIRE			
OTD #047 - Zaire: Revision of PID Section Re: Latrine Construction & Water Sources			
	Information	\$	390.
	WS&S Tech Assistance		2,731.
	CIC Co-ordination		760.
	Supplies		204.
	Tech Transfer		781.
	Total OTD #047		4,866.
TOTALS FOR ZAIRE			4,866.
TOTALS FOR AFRICA BUREAU			\$289,367.



OTD #10

November 21, 1980

Provision of Expert Public Health Officer Technical
Assistance to DS/HEA - West Africa

After the WASH Project staff had spent several days organizing a presentation and started procuring documents for distribution at this Conference, scheduled for 7-13 December 1980 at Abidjan, Ivory Coast, a decision was made by the Africa Bureau to delete the subject of water and sanitation from the agenda. However, the documents on water supply and sanitation that were to have been distributed at the Conference were mailed to the participants at their missions. Twenty-five days were authorized for this OTD and thirteen were used. For further information contact Mr. James Beverly.

Novemb

WATER AND SANITATION FOR HEALTH PROJECT
Order of Technical Direction Number 10

TO: Mr. James Arbuthnot, P.E.
WASH Contract Project Director

FROM: Mr. Max K. Batavia, P.E. *MKS*
Mr. Victor W.R. Wehman, Jr., P.E., R.S. *VW*
AID WASH Project Managers

SUBJECT: Provision of Expert Public Health Officer Technical Assistance to DS/HEA and Africa Bureau Regional Health Officers' during Period 7-13 December 80 at Abidjan, Ivory Coast

REFS: (A) Wehman/Isely Conversation 11/20/80
(B) Africa Bureau Regional Health Officers Conference Agenda for Abidjan, 7-13 December 80

1. WASH contractor/sub-contractor/consultants requested to provide services of Public Health Officer in WASH CIC during period of 7-13 December 80, to prepare for travel, to attend, participate in, and make formal presentations at the Africa Bureau Regional Health Officers Conference at Abidjan, Ivory Coast.
2. WASH Contractor Associate Director will be providing resource to Mr. Victor Wehman (AID direct hire sanitary engineer) who has to serve as a special resource person to the conference to discuss International Drinking Water and Sanitation Decade, its implications for African health and nutrition programs and various resources (like that African Bureau missions have to accelerate progress in water and sanitation interventions in their respective countries. The field offices are also very interested in any inter-sectoral information that is provided to assist in their competition for programming priority activities in their respective countries.
3. WASH contractor authorized up to a total of 25 person days of effort for preparation for and delivery of services at the conference (this includes travel time).
4. WASH contractor will keep detailed discussion of follow-up needs, attitudes, desires, interests, and needs of African Bureau health personnel for possible future follow-up activities coming out of the conference.
5. As a part of preparation for individual discussions with specific country health officers, WASH contractor to prepare and take high priority (by country) of primary inter-sectoral documents that are available and may be of use to health officers in preparing for Decade activities.

For example (1) full water supply and sanitation sector assessment, (2) rapid water supply and sanitation sector assessment, (3) health syncrisis, (4) health sector assessment, (5) WS&S institutional analyses or reports, (6) relationship documents between WS&S and health, social or economic aspects, and (7) a list of existing projects being funded by AID, African Development Bank, World Bank, etc. with specific summary data.

6. WASH contractor requested to provide forty (40) copies of following materials to travel as accompanying excess baggage of WASH CIC representative:

- a. World Bank, Village Water Supply
- b. IDRC/World Bank publication on Low Cost Appropriate Technology On Sanitation
- c. WHO WS&S statistics on coverage in countries of services
- d. PAHO Training of Trainers Manual based on Barbados program
- e. U.N. Delegates packet on inauguration of Drinking Water Supply and Sanitation Decade.
- f. Drawers of Water, Bradley and White
- g. World Bank, Sanitation Document (See Dalmat)
- h. World Bank Basic Needs Document
- i. Communicable Diseases in Man (APHA).
- j. PPC Policy Implications Document

7. WASH contractor requested to carry in personal luggage 100 copies of WASH Brochure with enabling cable for use in conference.

8. WASH contractor representative should plan for intensive personal interactions with conference delegates during the period. It is very likely that days will start around 6 a.m. and end around midnight, due to health personnel wanting personalized attention and technical assistance. Representative may be working with Mr. Wehman or alone.

9. Contractor is requested to start preparations immediately and complete preparations by 3 December 80 for a review of all materials available. Contractor should keep Wehman informed of progress/problems.

10. Contractor authorized international and local travel and per diem at current per diem rates (see rate schedule).

DS/HEA:V.Weelman:ja:11/21/80

7 NOV 1980

MEMORANDUM

TO : AA/DS, Mr. Sander Levin
FROM : AA/AFR, Goler T. Butcher *GTB*
SUBJECT: A.I.D. African Health Officers Conference 1980

The Second A.I.D. African Health Officers Conference will be held in Abidjan, December 8-13, 1980. The Bureau for Africa requests that Mrs. Mary Ann Anderson, Mr. Victor Wehman and Mr. Edgar Smith of the Development Support Bureau serve as resource persons to the conference. We would have liked to have had Dr. Alfred Buck as well but understand that he is already committed for these dates.

A steering committee of our field health officers planned the agenda with some inputs by AID/W technical personnel. Resource persons were selected for their technical and programming expertise in the African context.

We are pleased that twenty plus officers of U.S.A.I.D. Missions in Africa are expected to attend. Conference planners have paid particular attention to maintaining a balance among numbers of resource persons, AID/W and U.S.A.I.D. Mission personnel attending so as to foster learning and exchange opportunities for the participants. For this reason attendance is limited to U.S.A.I.D. officers and invited resource persons.

Enclosure
Agenda



OTD #16 - December 15, 1980

WATER SUPPLIES FROM RURAL LAND RECLAMATION - MAURITANIA

The AID Mission in Mauritania is preparing a Project Paper for rural land reclamation intended to improve the traditional construction of "barrages" (dams). The dams retain rainwater runoff for recessional agriculture in the dryland interior of the country, e.g., earth/rock dams are broken in October and the moist soil behind the dam (70-150 hectares) is used for agriculture. The dams are later patched up for the next rainy season.

The centuries old practice of recessional agriculture commonly induces water related diseases - schistosomiasis, malaria and parasitic infections - especially when the communities around the temporary ponds use them for drinking water, watering livestock and bathing. Shallow wells dug nearby also become contaminated by human and animal wastes.

The Mission requested short-term (two weeks) technical assistance in sanitary engineering and tropical disease control to better identify key issues in this complex environment and to suggest alternative courses of action to deal with them. Ideas suggested to the Mission included establishing schistosomiasis surveillance and control teams; a pilot project in one dam area to chemically control urinary schistosomiasis; to disturb snail growth and kill mosquito larvae by fluctuating the water level behind the dams; and to provide better wells for human and animal use.

This task was completed in January 1981 (one of the two consultants sent to Mauritania was retained by the Mission for one week on another sanitary engineering matter). Twenty-one days were authorized and forty-four were used. For further information, contact Dr. Raymond Isely.

Water and Sanitation for Health (WASH) Project
Order of Technical Direction (OTD) #16

April 8, 1981

TO: Mr. James Arbuthnot, P.E.
WASH Contract Project Director
FROM: Mr. Victor W.R. Wehman, Jr., P.E., R.S. *VWW*
AID WASH Project Manager
SUBJECT: Provision of Technical Assistance Under WASH Project Scope
of Work to USAID/Mauritania

1. Para. 2 of WASH OTD #16 amended to read as follows:

WASH Contractor/sub-contractor/consultants authorized to expend up to sixty-five (65) person days effort to accomplish this technical assistance effort.

2. New para. 8 of WASH OTD #16 amended to read as follows:

Contractor authorized to send two specialists (one sanitary engineer and one schistosomiasis specialist if not able to locate one person with sufficient background in both fields. If two specialists obtained, they can remain in country for different amounts of time to accomplish this individual respective missions. Individual travel and per diem authorized for two round trips to Mauritania. Domestic per diem for debriefing purposes authorized. Miscellaneous expenses authorized.

VWW:ja

23

WATER AND SANITATION FOR HEALTH PROJECT
Order of Technical Direction Number 16

December 15, 1980

TO: Mr. James Arbuthnot, P.E.
WASH Contract Project Director

FROM: Mr. Max K. Batavia, P.E. *MKB*
Mr. Victor W.R. Wehman, Jr., P.E., R.S. *VW*
AID WASH Project Managers

SUBJECT: Provision of Technical Assistance Under WASH Project
USAID/Mauritania

REFS: (A) Nouakchott 04977

1. WASH contractor requested to provide technical assistance to USAID/Mauritania.
2. WASH contractor/subcontractor/consultants authorized to expend up to 21 person days effort to accomplish this technical assistance effort.
3. Contractor to coordinate directly with Mr. Allan Reed, USAID Capital Projects Development Officer in Nouakchott. (see DS/HEA cable to Mission). Please keep Mr. Mike Gould and Dr. Thomas Georges, AFR/DR informed. (Africa Regional Bureau staff).
4. International travel, local travel and miscellaneous expenses authorized as necessary to carry out services including phone calls or cables.
5. Mission should be contacted immediately and technical assistance initiated as soon as possible.
6. WASH Project Officers recommend that the services of a sanitary engineer, with water supply and sanitation background and tropical disease background especially schistosomiasis be procured to perform services as per Ref. A.
7. Contractor shall provide draft final report to Mission before leaving Mission and final report as per contract.

DS/HEA/EH:M.Batavia:ja:12/15/80

24

UNCLASSIFIED

AID/DS/HEA: V. WEHMAN: JA
12/12/80: EXT. 59823
AID/DS/HEA: J. ALDEN

AID/DS/HEA, F.E. MCJUNKIN	AID/AFR/DR/ENGR, F. ZOBRIST {INFO}
AID/AFR/DR/HNP, T. GEORGES {INFO}	AID/AFR/DR, L. HEILMAN {INFO}
AID/AFR/DR/SWAP, J. MCCABE {INFO}	AID/AFR/SWA, C. ROBERTSON {PHONE}

PRIORITY: NOUAKCHOTT

PRIORITY: REDSO/WA

AIDAC

E.O. 12065: N/A

TAGS:

SUBJECT: WATER AND SANITATION FOR HEALTH - SERVICES NEEDED IN MAURITANIA

REFS: A) NOUAKCHOTT 04977, B) STATE 278993

JA Vry
VWD
FEMC

1. DS/HEA PLEASED TO OFFER WATER SUPPLY AND SANITATION TECHNICAL ASSISTANCE SERVICES UNDER WASH TO USAID AND HOST GOVERNMENT.
2. DS/HEA WASH PROJECT OFFICERS RECEIVED REF. A ON 11 DEC. AND ISSUED ON 12 DEC. 80 AN ORDER OF TECHNICAL DIRECTION TO WASH CONTRACTOR TO IMMEDIATELY BEGIN DIRECT COORDINATION WITH USAID ON SCOPE OF WORK IDENTIFIED IN REF. A, PARA. 1.1 AND 1.2 AND TO PROCURE SERVICES OF AN APPROPRIATE SANITARY/PUBLIC HEALTH ENGINEER WITH EXPERIENCE IN RURAL WATER SUPPLY AND SANITATION, SCHISTOSOMIASIS CONTROL AND MALARIA AND PARASITIC CONTROL TO MEET MISSION REQUEST.
3. WASH PROJECT OFFICERS PROPOSE TO BEGIN 2 TO 3 WEEKS TECH ASSISTANCE ACTIVITY WITH WASH CONTRACTOR ARRIVING MAURITANIA BETWEEN 5 AND 9 JAN. 81.

UNCLASSIFIED

UNCLASSIFIED

12

4. WASH CONTRACTOR ALREADY REQUESTED TO BEGIN DIRECT COORDINATION WITH USAID REPRESENTATIVE (MR. ALLAN REED) TO WORK OUT DETAILS OF TECHNICAL ASSISTANCE, TIMING, CONSULTANT SELECTION, COUNTRY CLEARANCES, ETC.
5. AFTER COMPLETION OF TASK, WASH PROJECT OFFICERS IN DS/HEA WILL REQUEST MISSION'S FRANK EVALUATION OF TECHNICAL ASSISTANCE SERVICES RENDERED. 44

UNCLASSIFIED

2/10

ACTION
COPY

UNCLASSIFIED
Department of State

INCOMING
TELEGRAM

PAGE 01

NOUAK 04977 090352Z

034787 AID9349

NOUAKC 04977 090352Z

034787 AID9349

ACTION AID-35

ACTION OFFICE AFDP-03

INFO AAHF-01 AFFW-04 AFCU-03 AFDP-02 STA-10 AADS-01 DSAG-02
DSHE-01 CH8-01 RELO-01 MAST-01 AFDA-01 /034 AI 11

INFO OCT-01 /036 W

-----042102 090253Z /34

P 090324Z DEC 80

FM AMEMBASSY NOUAKCHOTT

TO SECSTATE WASHDC PRIORITY 7147

INFO AMEMBASSY ABIDJAN

UNCLAS NOUAKCHOTT 04977

AIDAC

STATE FOR AFR/DR/SWAP AND INFO TO DS/HEA/EH WASH PROJECT OFFICERS

E. O. 12065: N/A

SUBJECT: "WATER AND SANITATION FOR HEALTH"--SERVICES NEEDED IN MAURITANIA.

REF: STATE 276993

1. USAID RECEIVED WITH GREAT INTEREST THE INFORMATIVE BROCHURE ON "WASH" SERVICES AND REFTEL. WE ARE CURRENTLY DESIGNING PP FOR RURAL LAND RECLAMATION PROJECT 682-0203 WHICH WILL IMPROVE TRADITIONAL SYSTEM OF CONSTRUCTION OF BARRAGES TO RETAIN RAINWATER RUNOFF FOR RECESSIONAL AGRICULTURE IN THE DRYLAND INTERIOR OF MAURITANIA. THIS IS A SPECIALIZED PROBLEM FOR WHICH EXPEDITIOUS SERVICES FROM THE WASH PROJECT WOULD SEEM TO BE APPROPRIATE. THE PROBLEM AND SERVICES REQUESTED ARE AS FOLLOWS:

A. WATER-RELATED DISEASES, INCLUDING SCHISTOSOMIASIS, MALARIA AND PARASITIC INFECTIONS, ARE COMMONLY ASSOCIATED WITH RECESSIONAL AGRICULTURE. COMMUNITIES AROUND TRADITIONAL BARRAGES OFTEN USE THE TEMPORARY PONDS AS THE SOURCE OF THEIR WATER, INCLUDING DRINKING WATER FOR HUMANS AND ANIMALS. SOMETIMES CRUDE WELLS ARE HAND DUG, BUT THESE ARE SO SHALLOW THAT THEY OFTEN DRY UP AND DO NOT PROVIDE A YEAR-ROUND WATER SUPPLY AND IN ANY CASE ARE COMPLETELY UNSANITARY.

B. WHILE THE RURAL LAND RECLAMATION PROJECT PROPOSES TO ADDRESS BARRAGE CONSTRUCTION PROBLEMS, USAID WOULD LIKE TO INVESTIGATE MOST APPROPRIATE MANNER IN WHICH TO ADDRESS PROBLEM CITED ABOVE. GIRH MINISTRY OF HEALTH WILL INITIATE TRIAL SCHISTOSOMIASIS TREATMENT AND CONTROL MEASURES. HOWEVER, USAID WOULD ALSO LIKE TO DETERMINE IF AND HOW PROBLEM OF YEAR-ROUND SANITARY DRINKING WATER CAN BE ADDRESSED. THERE ARE UP TO 12 BARRAGE SITES IN THE BRAKHA AND GORGOL REGIONS OF SOUTH-CENTRAL MAURITANIA INCLUDED IN THE PROPOSED PROJECT. USAID SEEKING SERVICES OF IMAGINATIVE ENGINEER OR OTHER APPROPRIATE TECHNICIAN FROM WASH SERVICES.

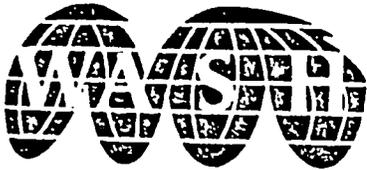
C. CONTACT PERSON IS USAID CAPITAL PROJECTS DEVELOPMENT OFFICER, ALLAN REED.

D. TIME ESTIMATED FOR SERVICES IS APPROXIMATELY TWO WEEKS. USAID REQUESTING SERVICES AS SOON AS POSSIBLE, BUT IN ANY CASE TO BEGIN NLT 15 JANUARY 1981.

2. PLEASE ADVISE POSSIBILITY OF WASH MEETING REQUESTED ASSISTANCE. SCHRAGER

UNCLASSIFIED

27



OTD #26 - February 13, 1981

Project Design Assistance for Health and
Environmental Monitoring Project (HEMP)
and WS&S Manpower Training--Tanzania

USAID Mission Dar es Salaam is establishing first entry into the WS&S sector and needs project design support for work with the Ministry of Lands, Housing and Urban Development (ARHDI) on training, and with the Muhimbili Medical Center (MMC) in the Department of Community Medicine, University of Dar es Salaam, on the HEMP Project.

The work in training with ARHDI concerns development of a sanitation education master plan and the possible creation of new facilities. This will involve public health engineering curricula at the University, technician training at the ARDHI Institute, health officer training at three regional centers, health educator training at Muhimbili Hospital, and health assistant training. This work will provide background information for a Project Identification Document (PID).

A PID has been completed for the Health and Environmental Monitoring Project (HEMP) but specific assistance is needed to prepare the scope of work and identify design team composition for the HEMP Project Paper. As now envisaged, HEMP has four phases spread over a five year period: planning, baseline and environmental assessment (including sanitation education and construction of appropriate sanitation devices), follow-up monitoring and assessment of sanitation interventions, and final analysis of data and publication of results.

130 person days have been authorized over a six month period, including eight round trips for this OTD. In addition, \$12,000 has been authorized for preparation and production of training materials. WASH consultants, Dennis Warner (CIC) and Kenneth Woolf (CDM), departed for the first trip to Tanzania on February 20 and 21, 1981.

For further information, contact Dennis Warner.

JEB/WASH/CIC
3/4/81

MEMORANDUM

February 13, 1981

Water and Sanitation for Health Project
Order of Technical Direction (OTD) Number 26

TO: Mr. James Arbuthnot, P.E.
WASH Contract Project Director

FROM: Mr. Victor W.R. Wehman, Jr., P.E., R.S.
AID WASH Project Manager *VW*

SUBJECT: Provision of Technical Assistance Under WASH Project Scope of Work
for USAID/Tanzania

Refs:

- A) Dar Es Salaam 00791, 2/9/81 ✓
- B) Dar Es Salaam 00726, 2/4/81 ✓
- C) Dar Es Salaam 00713, 2/3/81 ✓
- D) WASH cable to Tanzania, 2/2/81 ✓
- E) Dar Es Salaam 00509, 1/27/81 ✓
- F) WASH Contact Report, 1/23/81 ✓
- G) Ehmer/Warner Telcon, 1/22/81
- H) Warner OTD Analysis, 1/21/81 ✓
- I) State 005412, 1/9/81 ✓
- J) Dar Es Salaam 1/8/81 #128
- K) Dar Es Salaam 06923, 2 pages of 2, 12/10/80 ✓
- L) Dar Es Salaam 05634, 10/6/80 ✓
- M) Dar Es Salaam 05033, 9/5/80 ✓
- N) Dar Es Salaam 04960, 9/4/80 ✓
- O) State 137429, 5/24/80 ✓
- P) Hemp PID, 3/7/80

1. WASH contractor requested to provide technical assistance to USAID/Tanzania as per Ref. K, Ref. G, Ref. F, Ref. E, Ref. C, Ref. B, and Ref. A.
2. WASH contractor/subcontractor/consultants authorized to expend up to (130) person days effort over a six (6) month period to accomplish this technical assistance effort.
3. Contractor to provide final reports of all consultant visits to mission before leaving mission. Consultant should debrief mission and discuss report and follow-up action each time in country with USAID/Tanzania personnel.
4. Contractor to coordinate directly with Mr. Paul Ehmer in USAID/Tanzania on all project matters dealing with Hemp and training master plan aspects. Inform Mr. Tummarello (AFR/DR/ENGR), AFR/DR/HN and Tanzania desk officer of all coordination involving progress, especially ETA's and country clearance of consultants.
5. Make sure individuals in (4) above receive copies of this OTD.

6. Contractor authorized to pay for training materials plus graphics associated with the effort up to a total of \$12,000.
7. Contractor authorized 120 international per diem days.
8. WASH contractor authorized to allow consultants to make up to 8 round trips, in and out of Tanzania, as necessary over the next 6 months through Washington, D.C. to his/her home base as appropriate during the technical assistance effort. Consultants should come to Washington for debriefings with AFR Bureau and DS/HEA after each trip. Handle coordination by phone or cable/telex.
9. Mission should be contacted immediately and technical assistance initiated as soon as possible and convenient to USAID/Tanzania.
10. Appreciate your prompt attention to this matter. Good luck.

شادان
DS/HEA:V.Weberman:ja:2/13/81

10 Dec 80
ACTION
COPY

UNCLASSIFIED
Department of State

INCOMING TELEGRAM (K)

PAGE 01 DAR ES 06923 01 OF 02 102336Z 045440 A100733
ACTION A10-35

DAR ES 06923 01 OF 02 102336Z 045440 4100733

ACTION OFFICE DENE-01
INFO AAFF-01 AFEA-03 AFRA-03 AFDP-02 AFDR-06 PPCE-01 POPR-01
PPPS-03 PPEA-01 STA-10 AADS-01 CMGT-02 CTR-02 ENGR-02
CNS-01 NEV-09 RELO-01 MAST-01 AFDA-01 /052 A1 11

3. PRESENT EDUCATIONAL CENTRE: DAR ES SALAAM UNIVERSITY HAS A CIVIL ENGINEERING DEPARTMENT, BUT IT IS OVER EXTENDED. MAJOR EXPANSIONS ARE REQUIRED, BEFORE IT COULD UNDERTAKE A GRADUATE FOUR YEAR DEGREE COURSE FOR PUBLIC HEALTH ENGINEERS, INCLUDING THE PROVISION OF A PUBLIC HEALTH DEPARTMENT.

INFO OCT-01 /036 V
-----054459 102337Z /34

A TECHNICIAN COURSE IS PROPOSED TO START IN JULY, 1981 AT THE ARDHI INSTITUTE. IT WILL BE A THREE YEAR DIPLOMA COURSE IN PUBLIC HEALTH ENGINEERING. THERE WILL BE AN INTAKE OF 25 STUDENTS FOR THE FIRST YEAR, WHICH WOULD BE DOUBLED IN JULY, 1982. DELFT UNIVERSITY HAS BEEN ASSISTING IN THE DEVELOPMENT OF THE COURSE.

R 101457Z DEC 80
FM AMEMBASSY DAR ES SALAAM
TO SECSTATE WASHDC 9349

THE MINISTRY OF HEALTH TRAINS HEALTH OFFICERS AT THREE CENTRES IN TANZANIA. THE MAIN CENTRE IS AT MUMIBILI IN DAR ES SALAAM WHICH, BY A THREE YEAR COURSE, PRODUCES 13 HEALTH OFFICERS A YEAR. THE 13 DO NOT REPLACE THE MINISTRY'S NATURAL WASTAGE. THERE IS ALSO AN OCCASIONAL HEALTH EDUCATION COURSE, FOR HEALTH EDUCATORS. BOTH COURSES REQUIRE MAJOR EXPANSIONS TO FULFIL THE SANITATION REQUIREMENTS.

UNCLAS SECTION 01 OF 02 DAR ES SALAAM 06923

AIDAC

AID/V FOR DS/HEA/EH WASH PROJECT MANAGER

E.O.: 12055: N/A

SUBJ: GOVERNMENT OF TANZANIA REQUEST FOR WASH SERVICES

HEALTH ASSISTANTS, AND MATERNAL CHILD HEALTH WORKERS REQUIRED FOR LOW COST SANITATION EXTENSION WORK, ARE READILY AVAILABLE.

1. MISSION HAS RECEIVED A REQUEST FROM THE TANZANIAN MINISTRY OF LANDS, HOUSING AND URBAN DEVELOPMENT FOR ASSISTANCE IN PLANNING FOR THE EDUCATIONAL NEEDS OF TANZANIA IN THE AREA OF SANITATION AND FOR HELPING IT TO DEVELOP AN EDUCATIONAL POLICY FOR SANITATION. THIS WILL HELP THE GOVERNMENT DEAL WITH THE PRESENT DRASTIC SHORTAGE OF TRAINED MANPOWER IN THIS AREA. THEY WANT TO DEVELOP A SANITATION EDUCATION MASTER PLAN FOR EXPANDING EXISTING EDUCATIONAL FACILITIES AND POSSIBLY STARTING NEW ONES, WHERE REQUIRED. THE TEXT OF THE DOCUMENT REQUESTING ASSISTANCE FOLLOWS:

4. ANTICIPATED SHORT TERM TRAINING: IT IS PLANNED TO SEND 50 STUDENTS TO ROORKEE UNIVERSITY IN INDIA, TO UNDERTAKE A FOUR YEAR COURSE IN PUBLIC HEALTH ENGINEERING. THE COURSE IS EXPECTED TO START IN AUGUST, 1981. TWO FURTHER INTAKES ARE PLANNED, BRINGING THE TOTAL TO 150 GRADUATE ENGINEERS BY AUGUST, 1987.

2. BACKGROUND: SANITATION IN TANZANIA HAS BEEN NEGLECTED. THE RECENT OUTBREAKS OF CHOLERA HAVE INITIATED PLANS TO PROVIDE SANITATION TO ALL PEOPLE. HOWEVER, WITH ONLY TWO PUBLIC HEALTH ENGINEERS (TRAINED ABROAD) WORKING FOR THE GOVERNMENT, EDUCATIONAL CENTRES MUST BE ESTABLISHED FOR THE LONG TERM TRAINING REQUIREMENTS OF GRADUATE PUBLIC HEALTH ENGINEERS, TECHNICIANS, HEALTH OFFICERS AND HEALTH EDUCATORS. IN THE SHORT TERM, TRAINING WILL CONTINUE OVERSEAS.

THE PUBLIC HEALTH ENGINEERING DIPLOMA COURSE AT ARDHI

3. DISEASES RELATED TO A POOR WATER SUPPLY AND INADEQUATE SANITATION ARE A SERIOUS PROBLEM IN TANZANIA; CHOLERA IN PARTICULAR HAS BEEN INCREASING IN RECENT YEARS. IMPROVING SANITATION (I.E. THE SAFE DISPOSAL OF EXCRETA) IN RURAL AND URBAN AREAS IS THE GOVERNMENT'S GOAL. EVEN FOR URBAN AREAS, THE GOVERNMENT CONSULTING ENGINEERS HAVE SHOWN, THAT ONLY UP TO 30 OF THE POPULATION WILL BE SERVED BY SEWERAGE SYSTEMS WHILST 70 WILL BE SERVED BY NON WATER BORNE SYSTEMS. NON SEWERED SYSTEMS, PROPERLY DESIGNED AND MAINTAINED, CAN PROVIDE THE SAME (OR BETTER) HEALTH BENEFITS AS SEWERAGE, BUT AT A FRACTION OF THE COST.

THE GOVERNMENT IS ACTIVELY SUPPORTING THE U.N. DRINKING WATER SUPPLY AND SANITATION DECADE. SEWERAGE AND SANITATION PROJECTS, ARE, AT PRESENT, BEING DESIGNED BY INTERNATIONAL CONSULTANTS FOR DAR ES SALAAM, MOROGORO, MWANZA, MOSHI, ARUSHA AND CERTAIN RURAL AREAS. BUT, BESIDES TWO TANZANIAN PUBLIC HEALTH ENGINEERS, AND A FEW HEALTH OFFICERS, THERE ARE NO NATIONAL PROFESSIONALS TO IMPLEMENT SANITATION PROJECTS, LET ALONE OPERATE AND MAINTAIN THEM. THERE ARE NO NATIONAL PUBLIC HEALTH ENGINEERS FOR SURFACE WATER DRAINAGE WORKS OR REFUSE DISPOSAL. THE SEVERE SHORTAGE OF STAFF, MUST BE RESOLVED, TO ALLOW THE IMPLEMENTATION OF THE SANITATION WORKS.

UNCLASSIFIED

31

ACTION
COPY

UNCLASSIFIED
Department of State

INCOMING
TELEGRAM

(K)

PAGE 01 DAR ES 06923 02 OF 02 191157Z
ACTICH AID-35

045437 A107318

VIETS

DAR ES 06923 02 OF 02 191157Z

045437 A107318

ACTION OFFICE D2HE-01
INFO AAAF-01 AFEA-03 AFRA-03 AFDP-02 AFOR-06 PPCE-01 POPR-01
PPPB-03 PPEA-01 STA-10 AADS-01 CMGT-02 CTR-02 ENGR-02
CHS-01 HEV-03 RELO-01 MAST-01 AFDA-01 /052 A1 11

INFO CCT-01 /033 V

-----119683 191208Z /12

R 101457Z DEC 69 ZOK CTG SD 1080V
FM AMEMBASSY DAR ES SALAAM
TO SECSTATE WASHDC 9059

UNCLAS SECTION 02 OF 02 DAR ES SALAAM 6923

AIDAC

AID/V FOR DS/HEA/EH WASH PROJECT MANAGER

INSTITUTE IS TO START IN JULY, 1981 AND WILL BE A LONG TERM TRAINING PROGRAMME, PRODUCING SOME 750 GRADUATES BY THE TURN OF THE CENTURY.

HEALTH OFFICERS AND HEALTH EDUCATORS ARE TO BE TRAINED OVERSEAS, POSSIBLY IN NIGERIA.

EVEN THOUGH THE PUBLIC HEALTH ENGINEERING NUMBERS MAY SEEM SUBSTANTIAL, ATTRITION (DUE TO POOR PAY AND PROSPECTS) WILL GREATLY REDUCE THESE NUMBERS.

5. PROPOSED LONG TERM TRAINING: ALL SANITATION EDUCATIONAL TRAINING IS TO BE UNDERTAKEN IN TANZANIA, THE SPECIFIC SANITATION REQUIREMENTS OF THE COUNTRY MAY BE REFLECTED IN THE ACADEMIC COURSES. IT WILL BE FINANCIALLY CHEAPER TO EDUCATE THE SANITARIANS IN TANZANIA THAN ABROAD.

FOR THE FORSEABLE FUTURE, M.SC. AND PH.D COURSES WILL NOT BE REQUIRED IN TANZANIA.

THE DEVELOPMENT OF POLICIES SHOULD CONSIDER ALL SOURCES REQUIRING SANITATION EDUCATION; THAT IS BOTH URBAN AND RURAL SANITATION AS WELL AS WATER SUPPLY. ALTHOUGH WATER SUPPLY IS THE DOMAIN OF ANOTHER MINISTRY, THE ENGINEERING REQUIREMENTS ARE NEARLY SYNONYMOUS WITH PUBLIC HEALTH ENGINEERING, AND THERE MAY BE BENEFITS TO COMBINE COURSES FOR A JOINT 4 YEAR PUBLIC HEALTH ENGINEERING DEGREE COURSE AT DAR ES SALAAM UNIVERSITY.

A 3 YEAR CIVIL ENGINEERING BASED PUBLIC HEALTH ENGINEERING DIPLOMA COURSE IS TO BE ESTABLISHED AT THE ARDH I INSTITUTE.

THE 3 YEAR HEALTH OFFICER COURSE SHOULD BE STRENGTHENED AND OPERATED BY THE DAR ES SALAAM UNIVERSITY FACULTY OF MEDICINE.

THE ONE YEAR HEALTH EDUCATION COURSE IS TO BE ESTABLISHED AT THE SAME FACULTY OF MEDICINE.

TANZANIAN ENGINEERS TRAINED THROUGH ABOVE PROGRAMS WILL BE REQUIRED TO SPEND A MINIMUM OF ONE YEAR WORKING WITH A CONTRACTOR, BUILDING SANITATION SYSTEMS IN ONE OF THE MAJOR OWNS. IDEALLY A FURTHER YEAR SHOULD BE SPENT WITH A CONSULTING ENGINEER DESIGNING SUCH WORKS.

TRAINING OF LECTURERS AT ALL INSTITUTIONS WILL BE UNDERTAKEN, SO THAT THEY WILL EVENTUALLY BE TANZANIAN AND NOT EXPATRIATE.

6. MISSION REQUESTS ADVICE AS TO HOW NEW WASH PROJECT COULD ASSIST THE GOVERNMENT IN THIS PLANNING ACTIVITY.

UNCLASSIFIED

32



OTD 27

February 13, 1981

Evaluation of Rural Health Project - Niger

USAID Mission Niamey requested two French speaking consultants to participate in four-man evaluation team and make initial visit to Niger, 14 March or earlier. One consultant should be a broadly experienced development economist and the other a rural water supply and sanitation specialist. Seventy person days over a two month period, including a total of two round trips, have been authorized for this OTD.

Components of the project to be evaluated include: public health administration (epidemiology, logistics, supplies, distribution, cold chain, construction of dispensaries); training (curriculum development at certified and state level nursing schools); supervision and management of rural health teams; rural sanitation and water supply; and cost control.

The evaluation team will be headed by Dr. Donald Ferguson, DS/HEA. WASH consultants will be responsible for all report and document preparation of the evaluation, including interpreter and secretarial costs as necessary.

The WASH consultants are H.D. Hudgins (UNC) and Rifat Barokas (Pragma Corporation). They departed for Niger on March 5, 1981.

For further information, contact Dr. Ray Isely.

JEB/WASH/CIC
3/4/81

MEMORANDUM

February 13, 1981

Water And Sanitation for Health Project
Order of Technical Direction (OTD) Number 27

OTD 27, 2
Received 17 Feb 81
2:30 pm

TO: Mr. James Arbuthnot, P.E.
WASH Contract Project Director

FROM: DS/HEA, Victor W.R. Wehman, Jr., P.E., R.S.
AID WASH Project Manager

JWR JWR

SUBJECT: Provision of Technical Assistance Under WASH Project Scope of Work
for USAID/Niger

Refs: A) Niamey 00315, 20 Jan 81.
B) Niamey 00594, 4 Feb 81

1. WASH contractor requested to provide technical assistance to USAID/Niger as per Ref. A scope of work (modified by further discussion with DS/HEA and mission representative - Mr. John McEnaney).
2. WASH contractor/subcontractor/consultants authorized to expend up to seventy (70) person days of effort over a two (2) month period to accomplish this technical assistance effort.
3. Contractor to provide draft final report to mission before leaving mission and prepare final report to DS/HEA within 30 days of return of consultants from field.
4. Contractor to provide two highly experienced, international consultants with French speaking capability; (1) a broadly experienced development economist and (2) a rural water supply and sanitation specialist.
5. Both members will work under the team leadership of Dr. Donald Ferguson (direct-hire, public health officer) in DS/HEA. Dr. Ferguson's decisions and direction in the field will be final and will arbitrate directly all differences of approach to reach a common expression in the draft report and final report.
6. Contractor will make the personnel available to the Niger mission between 14 March and 17 April. It is possible that Dr. Ferguson may decide that the two WASH contractor provided personnel are not necessary for the whole period at which point he may send one or both back early.
7. Contractor will be responsible for all report and document preparation on the team exercise. WASH contractor personnel will make up two members of a 4 person evaluation team.
8. Contractor to coordinate directly with Dr. Ferguson and mission as appropriate and necessary. Inform AFR/DR/ENGR (T. Tumarello), AFR/DR/HNP (Dr. Sheldon), and Niger AID desk officer of all significant coordination aspects. Get mission clearance on all consultants before they leave.

9. WASH contractor authorized to allow consultants to make up to two (2) round trips in and out of Niger from consultant home base through Washington for briefing and debriefing. *total*
NOT each
10. WASH contractor authorized local travel as appropriate and necessary to accomplish mission. Contractor authorized vehicle rental, taxis, interpreter and secretarial fees as necessary.
11. Contractor authorized up to 68 days of international per diem to accomplish mission.
12. Mission should be notified immediately and technical assistance initiated as soon as possible and convenient to Dr. Ferguson and to USAID/Niger.
13. Appreciate your prompt attention to this matter. Good luck.

FORM 01 NIAMEY 00315 200512Z

052750 AIC3307

NIAMEY 00315 200512Z

052750 -01

ACTION OFFICE AFDR-05
INFO 4AF-01 AFPA-03 AFM-04 CNG-01 PPOE-01 PPOB-01 PPPB-03
PFA-01 STA-10 FM-02 AOS-01 DIME-01 DPO-03 OSRD-02
OIS-01 HIA-03 RELO-01 RAST-01 WFA-01 WSOJ A4 7

- RECOGNIZE THE CONSUMING EFFORT INVOLVED IN LINDING PEOPLE UP AND APPRECIATE FACTOR AND GAINA CONTINUED SUPPORT. BISHOP

J. J. Johnson

INFO OCT-01 /036 W

-----035215 200512Z /34

R 200512Z JAN 81
FM AMEMBASSY NIAMEY
TO SECSTATE WASHDC 0216

UNCLAS NIAMEY 00315

AIDAC

E.O. 12958: NIAMA

SUBJECT: PROPOSED RURAL HEALTH PROGRAM EVALUATION
- RHIC 833-0205

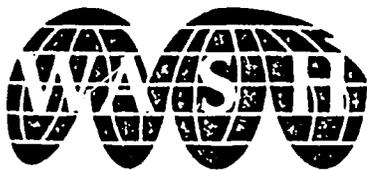
*March 9 - April 7
14 - 17*

1. MISSION PROPOSING MARCH 9-APRIL 17 AS DATED FOR EVALUATION OF RURAL HEALTH PROJECT. PROTOCOL BEING PROVIDED GOVERNMENT FOR CONSIDERATION THIS WEEK. IN MEANTIME, RECOGNIZING DIFFICULTIES ASSOCIATED WITH LINDING UP AN EVALUATION TEAM AS WE HAVE IN MIND, REQUEST COLENEA UNOFFICIALLY DETERMINE POSSIBLE AVAILABILITY OF HEL THORNE, AS EPIDEMIOLOGIST AND SPECIALIST IN HEALTH CARE ADMINISTRATION WITH KNOWLEDGE OF VILLAGE HEALTH TEAM OPERATIONS. IF HE UNAVAILABLE, MARSH MACBEAN, ALSO AT JOHN'S HODGINS. MACBEAN COULD ALSO LIT -S IMMUNIZATION ASPECTS OF PROJECT. LINDSAY POBINSON, AS HEALTH ECONOMIST OR RALPH ANDREANO, IF HIS FRENCH IS ACCEPTABLE. TO EXAMINE THE ENVIRONMENTAL SANITATION COMPONENT, CAN THE VAGEN PROJECT DO EITHER OR BOTH: (1) PROVIDE SOMEONE (ISELY) AND/OR FUND SAME PERSON. IF NOT ABLE TO FUND THROUGH PROJECT, MISSION WILL REEXAMINE BUDGET AND ADVISE. IN ANY EVENT, WE WILL NEED SOMEONE WITH A KNOWLEDGE OF PROBLEMS OF RURAL ENVIRONMENTAL SANITATION, FRENCH SPEAKING. IN EVENT THORNE AND MACBEAN UNAVAILABLE, ISELY WOULD BE CANDIDATE FOR PUBLIC HEALTH PHYSICIAN WITH HEALTH EDUCATION AND ENVIRONMENTAL SANITATION EXPERTISE NEEDED. TIM MINER SHOULD SERVE ALSO AS LOGISTICS/SUPPLY/COLD CHAIN.

*They now want two
wash. people.
Mar 14-20 Apr.
1) Devel Econ.
2) Envir. Health Spec.*

- IF THORNE AND MACBEAN NOT AVAILABLE TRY ROGER BERNIER AT CDC FOR EPIDEMIOLOGY AND SURVEILLANCE COMPONENT. WILL NOT RULE OUT OTHER CANDIDATES PROPOSED SFUAF/DR OR DS/HEA.

2. THE COMPONENTS OF THE PROGRAM ARE: PUBLIC HEALTH ADMINISTRATION (EPIDEMIOLOGY LOGISTICS, SUPPLIES, DISTRIBUTION, COLD CHAIN, CONSTRUCTION (DISPENSARIES) TRAINING (CURRICULUM DEVELOPMENT AT CERTIFIED AND STATE LEVEL NURSING-SCHOOLS, SUPERVISION/MSD MANAGEMENT OF RURAL VILLAGE HEALTH TEAMS, RURAL SANITATION AND WATER SUPPLY, PRESENT AND RECURRENT COSTS. MISSION HOPES TO KEEP TEAM TO A MINIMUM AND HOPEFULLY FIND PERSONS WITH SKILLS IN TWO OR MORE AREAS OF ABOVE. IN ADDITION, GET A GOOD PROBABLY BE CANDIDATED WHO WILL PARTNER WITH TEAM WILL BE AVAILABLE DATA AND EARTH KNOWLEDGE OF HEALTH PROBLEMS IN VILLES, TRAVEL TO DEPARTMENTS TO RE. E. I. AND THE VILLAGES HEALTH TEAMS IN TRAINING AND IN ACTION, ASSESS PROGRESS OF COMPONENTS LISTED ABOVE, IDENTIFY CONSTRAINTS TO THE PROJECT GOALS, RECOMMEND MODIFICATIONS TO THE JOINT AGREEMENT AND ASSIST IN MODIFYING ORIGINAL PROJECT PAPER. FRENCH LANGUAGE A MUST.



OTD #34

April 6, 1981

Coordination and Facilitation of Use of
WASH Technical Assistance Services in
Africa.

The Africa Bureau has requested the services of a Technical Assistance coordinator to work with AFR Bureau and the field missions for increased utilization and awareness of WASH technical services in water and sanitation. Mr. Craig Hafner, acting in this capacity, is coordinating directly with DS/HEA and AFR/DR officials, desk officers and various personnel as necessary. Periodic coordination reports and assessments will be issued during the period of the OTD.

For further information, contact Mr. C. Hafner.

This OTD authorizes 100 person days over a six-month period and up to four multi-location round trips in and out of the African Bureau countries.

SEC/WASH/CIC
4/28/81

Water and Sanitation for Health Project (WASH)
Order of Technical Direction Number 34

April 6, 1981

TO: Mr. James Arbuthnot, P.E.
WASH Contract Project Director

FROM: Victor Wehman, W.R. Jr., P.E., R.S.
AID WASH Project Manager

VW

SUBJECT: Provision of Technical Assistance Under WASH Project Scope of Work
for AFR/DR.

REF: A) Wehman/Heilman Conversation of 3 April 81 in AFR/DR on need for
greater T.A. facilitation needs for Africa Bureau to take advantage
of WASH project services

1. WASH contractor requested to provide technical assistance to AID/W, AFR/DR as per following scope of work.
2. WASH contractor/subcontractor/consultants authorized to expend up to 100 person days effort over a six month period to accomplish this technical assistance effort.
3. Contractor to coordinate directly with DS/HEA and AFR/DR officials, with various desk officers as necessary, and with various field USAID personnel as necessary and desirable.
4. Contractor to file timely periodic coordination reports, assessments, target of opportunity reports, etc. as necessary to bring about a high degree of coordination and facilitation of the use of WASH technical assistance services in AFR field and AID/W locations.
5. WASH contractor authorized up to 70 person days of effort of overseas per diem in conjunction with this effort. All overseas travel will be discussed and approved by DS/HEA Project Manager (Wehman). Maximum use of multipurpose and multilocation trips should be anticipated and encouraged with AFR Bureau personnel. Miscellaneous expenses authorized as necessary.
6. Contractor authorized to obtain interpreter, secretarial services as necessary in the field to support this effort. Those days of services are in addition to level of effort authorized in para 2 and 5 above.
7. Contractor authorized to rent car as necessary to facilitate local travel in AFR countries especially in areas without adequate USAID vehicles.
8. AFR Bureau (Heilman) requests services of highly effective technical assistance coordinator and facilitator to work with AFR Bureau and AFR field missions in bringing about higher use and awareness of WASH technical services in water and sanitation.

9. WASH contractor authorized to allow consultants to make up to 4 multi-location round-trips in and out of the African Bureau countries to Washington, D.C. during the technical assistance effort.

10. Suggest Mr. Craig Hafner of your organization be utilized essentially full time for the next few months to carry out this difficult, diplomatic, and hopefully technically rewarding effort. His contacts with PCV's and mission staffs in Africa should be very valuable. Technical assistance effort should begin o/a 24 April 81.

11. Appreciate your prompt attention to this matter. Good luck.



OTD #36

April 6, 1981

Evaluation of Rural Water Supply
Project - Burundi.

WASH assistance has been sought to evaluate an on-going rural water supply project in Burundi. WASH team will assess the impact of this UNICEF project, investigate other opportunities to increase the rural population's accessibility to safe water and suggest further means of fostering community health/sanitation education.

The request is for a rural water specialist with technical public health/sanitation background and a cultural anthropologist with background in rural water supply and sanitation. The team is to develop criteria for spring captation; conduct brief evaluation by visiting representative cross sections of the communes; and review other donor gravity fed water projects in view of obtaining most cost-effective systems.

For further information, contact Dr. D. Warner.

The OTD authorizes a maximum of 75 person days (72 per diem days) plus two international round trips over a three-month period.

JEB/WASH/CIC
4/28/81

Water and Sanitation for Health Project (WASH)
Order of Technical Direction (OTD) No. 36

TO: : Mr. James Arbuthnot, P.E. April 6, 1981
WASH Contract Project Director

FROM: Mr. Victor W.R. Wehman, Jr., P.E., R.S. *VWW*
AID WASH Project Manager

SUBJECT: Provision of Technical Assistance Under WASH Project Scope of Work
for USAID/Burundi (Bujumbura)

REFS: A) Bujumbura 0820, 23 March 81

1. WASH contractor requested to provide technical assistance to USAID/Burundi as per Ref. A, para. 2.C. and 3.A-E.
2. Suggest mission be cabled to change para. 4 to include one person having attributes of 4.A and B plus an internationally experienced rural water supply and sanitation socio-cultural anthropologist. Suggest Elmendorf or Sebastian if available
3. WASH contractor/subcontractor/consultants authorized to expend up to 75 days (35 days in the field for two persons including report generation) effort over a three month period to accomplish this technical assistance effort.
4. Contractor to coordinate with AFR/DR/HN (Dr. Sheppard), AFR/DR/ENGR (Mr. Tumarello), AFR/DR, Desk Officer, and field mission to assure information exchange.
5. Contractor authorized to provide two (2) international round trips from consultant's home base to Burundi. Consultants should be brought back for debriefing if at all possible.
6. Up to 72 international and domestic days of per diem is authorized. Miscellaneous expenses are authorized.
7. Contractor authorized to obtain French interpreter, secretarial services in Burundi to support team if necessary. These services are in addition to the level of effort specified in para. 3 and 6 above.
8. Contractor authorized to provide for car rental if necessary to facilitate effort. Please note Ref. A, para. 4.C. on this aspect and determine if they have logistical support vehicles to carry out para. 3.B. in Ref. A.
9. Contractor will take portable typewriter (manual) for consultant's use.

10. Report should be written in English and translated to French in the field. An English version should accompany consultants back to Washington for debriefing purposes. Within 30 days of return to U.S., final report in English and French should be turned over to Burundi Desk Officer in AID/W.
11. Mission should be contacted immediately and technical assistance initiated as soon as convenient to mission.
12. Appreciate your prompt attention to this matter. Good luck.

BURUNDI

UNCLASSIFIED

Department of State

INCOMING TELEGRAM

PAGE 01 BUJUMBURA 0520 231437Z

7413 026477 AIDUJ33

BUJUMBURA 0520 231437Z

7413 026477 AIDUJ33

ACTION AID-35

PUBLIC HEALTH TO DEVELOP COLLABORATIVE EFFORTS IN RURAL WATER DEVELOPMENT AND COMMUNITY HEALTH/SANITATION EDUCATION.

ACTION OFFICE AFDR-06

INFO AAAF-01 AFEA-03 AFCA-03 PPCE-01 POPR-01 PPPB-03 PPEA-01 STA-10 AADS-01 DSME-01 ENGR-02 CHS-01 AFDA-01 RELO-01 MAST-01 /037 A1 823

3. SCOPE OF SERVICES REQUIRED:

INFO OCT-01 /035 W

-----101276 231437Z /J4

R 231445Z MAR 81
FM AMEMBASSY BUJUMBURA
TO SECSTATE WASHDC 1394
AMEMBASSY NAIROBI

A. DEVELOP EVALUATION CRITERIA FOR THE SPRING CAPTATION COMPONENT OF THE UNICEF RURAL WATER PROJECT;

B. CONDUCT A BRIEF EVALUATION OF THE PROJECT BY VISITING A REPRESENTATIVE CROSS SECTION OF THE COMMUNES WHERE THE PROJECT HAS BEEN ACTIVE, IDENTIFY BENEFICIARIES AND ANY IMPACTS OF THE PROJECT AND ATTEMPT TO IDENTIFY AREAS WHERE THE PROJECT SHOULD PLACE GREATER EMPHASIS;

C. REVIEW ACTIVITIES OF OTHER AGENCIES AND DONORS IN THE BURUNDI RURAL WATER SECTOR AND MAKE RECOMMENDATIONS AS TO IMPROVED ORGANIZATION OF LOCAL PARTICIPATION IN RURAL WATER ACTIVITIES;

D. REVIEW EXISTING DESIGNS OF UNICEF AND OTHER DONOR GRAVITY FED WATER PROJECTS IN VIEW OF OBTAINING MOST COST EFFECTIVE SYSTEMS;

E. MAKE RECOMMENDATIONS TO AID REGARDING FUTURE AID ASSISTANCE PROJECT. FACTORS TO BE CONSIDERED SHOULD INCLUDE THE EXPERIENCE OF OTHER DONORS, DEGREE OF INTEREST AND EXPECTED PARTICIPATION BY POTENTIAL BENEFICIARIES AND GOB OFFICIALS AND POSSIBLE HEALTH AND OTHER IMPACTS OF SUCH A PROGRAM.

UNCLAS BUJUMBURA 0520

AIDAC

FOR: AID/W FOR AFR/DR AND DS/HEA/EH
NAIROBI FOR REDSO/EA

E.O. 12065: N/A

SUBJ: REQUEST FOR WATER AND SANITATION FOR HEALTH PROJECT (WASH) SERVICES

4. SUGGESTED TEAM COMPOSITION:

I. RURAL WATER SPECIALIST- SENIOR PERSON HAVING BROAD EXPERIENCE IN RURAL WATER PROGRAMS IN DEVELOPING COUNTRIES. PREFER CANDIDATE WITH TECHNICAL BACKGROUND WHO CAN ALSO ADDRESS ORGANIZATIONAL ASPECTS OF THE ASSESSMENT;

B. HEALTH/SANITATION SPECIALIST - PREFERABLY A PERSON HAVING MPH AND EXPERIENCE WORKING WITH HEALTH EDUCATION PROGRAMS RELATED TO WATER-BORNE DISEASES AND ENVIRONMENTAL SANITATION;

C. TEAM WILL ALSO CONSIST OF REDSO/EA WATER RESOURCE ENGINEER WHO WILL HAVE MAJOR RESPONSIBILITY FOR ENGINEERING ASPECTS. TEAM WILL BE SUPPORTED BY A/O AND UNICEF;

D. LANGUAGE REQUIREMENTS - FRENCH S-3;

E. SUGGEST THREE TO FOUR WEEKS DURATION OF SERVICES WITH DRAFT REPORT COMPLETED PRIOR TO DEPARTURE;

F. PLEASE ADVISE WITH INFO NAIROBI TIMING AND BIO-DATA OF TEAM MEMBERS FOR MISSION CONCURRENCE.

G. FOR NAIROBI: REQUEST AVAILABILITY H. BLANK FOR SUBJECT ACTIVITY.
COOK

1. SUMMARY: AAO REQUESTS WASH ASSISTANCE TO HELP EVALUATE IMPACT OF ON-GOING UNICEF/B'S RURAL WATER SUPPLY AND SANITATION PROJECT, IDENTIFY OTHER METHODOLOGIES TO INCREASE RURAL POPULATION'S ACCESSIBILITY TO SAFE WATER AND COMMUNITY HEALTH/SANITATION EDUCATION SERVICES, AND MAKE RECOMMENDATION TO AAO REGARDING POSSIBLE FUTURE AID ASSISTANCE TO RURAL WATER PROJECTS. END SUMMARY.

2. PROBLEM:

A. BURUNDI IS CLASSIFIED BY THE U.N. AS ONE OF THE 38 QUOTE RELATIVELY LEAST-DEVELOPED COUNTRIES UNQUOTE. WITH A YEARLY AVERAGE RAINFALL OF 800 TO 1500 MM, MUCH OF BURUNDI IS WELL PROVIDED WITH WATER. LITTLE INVESTMENT HAS BEEN MADE, HOWEVER, IN THE RURAL WATER SECTOR AND ANY ATTEMPTS AT RURAL WATER SUPPLY DEVELOPMENT MUST CONSIDER THE LIMITED FINANCIAL RESOURCES AND LIMITED MAINTENANCE CAPABILITY IN RURAL AREAS.

B. ONE APPARENTLY SUCCESSFUL EFFORT TO IMPROVE RURAL WATER SUPPLIES AND SANITATION IS THE UNICEF RURAL WATER SUPPLY AND SANITATION PROJECT. THIS PROJECT ATTEMPTS TO PROVIDE (1) CLEAN WATER FROM SPRING SOURCES THROUGH GRAVITY DISTRIBUTION TO RURAL HEALTH CENTERS, DISPENSARIES AND CENTERS OF SOCIAL ACTIVITIES AND (2) SPRING CAPTATIONS FOR SMALL COMMUNITIES IN APPROPRIATE REGIONS OF THE COUNTRY. THE PROJECT'S OBJECTIVES ARE TO PROVIDE 350 KMS OF GRAVITY FED SYSTEMS AND TO IMPROVE 4,300 SPRINGS. MOST PROGRESS HAS BEEN MADE TO DATE IN THE SPRING CAPTATION PROGRAM WITH THE PROJECT OPERATING IN OVER HALF OF THE 78 COMMUNES OF THE COUNTRY THROUGH A NETWORK OF TRAINED COMMUNITY WORKERS AND A SUBSTANTIAL SELF HELP CONTRIBUTION.

C. THE UNICEF ACTIVITY IS RUNNING OUT OF FUNDS. AAO IS CONSIDERING WHETHER AID MAY WISH TO SUPPLEMENT OR FOLLOW-ON FROM THE CURRENT UNICEF EFFORT. THIS TYPE OF ASSISTANCE IS SUBSTANTIATED BY HEALTH SECTOR STUDY. THE SPECIFIC PROBLEM FOR WHICH AAO DESIRES WASH ASSISTANCE IS TO HELP EVALUATE THE IMPACT OF THE WATER SYSTEMS WHICH HAVE BEEN PROVIDED. BECAUSE NO EVALUATION ACTIVITY WAS BUILT INTO THE UNICEF'S PROJECT, USING WASH ASSISTANCE, AAO ALSO SEEKS TO IDENTIFY OTHER OPPORTUNITIES AND METHODOLOGIES TO INCREASE THE RURAL POPULATION'S ACCESSIBILITY TO SAFE WATER AND TO INCREASE THE CAPABILITY OF THE MINISTRIES OF RURAL DEVELOPMENT AND

WEN/KS/WASH
Received DS/HEA (Webster)
0943 21 Mar
Passed to WASH 21 MAR 81

WASH

UNCLASSIFIED

43



OTD #45

July 2, 1981

Village Health Education and Training:
Program Planning, Implementation and
Evaluation - Benin and Togo.

AID Missions in Benin and Togo have requested WASH assistance in village health education and training: program planning, implementation and evaluation.

The initial work under this OTD is to assist in the development of a comprehensive three and a half year plan for providing health education and sanitation services to the Rural Water Supply and Sanitation Projects in Togo and Benin.

Specifically, this includes: development of the overall strategy and sequencing of events; determining who needs to be trained to do what; design and implementation of training of trainer workshops; development of job aids; and development of management, evaluation and performance analysis procedures and instruments.

In addition, the WASH consultant will develop procedures for coordination within groups in Togo and groups outside of Togo, through WASH; assist in the training of Togo Peace Corps Volunteers and their co-workers; support the Associate Peace Corps Director in various planning tasks; and assist the Benin Peace Corps Director in designing health education training materials. For further information contact Mr. C. Hafner.

One hundred and forty person days, including one hundred and thirty-five per diem days are authorized over a fifteen month period for this OTD. Four round trips from consultant's home base through Washington to Lome and twenty round trips within Togo/Benin from Lome to project sites are also authorized.

JEB/CIC
7/15/81

44

file

((((

WATER AND SANITATION FOR HEALTH (WASH) PROJECT
ORDER OF TECHNICAL DIRECTION NUMBER 45

July 2, 1981

TO: Dennis Warner, Ph.D., P.E.
WASH Project Director (Acting)

FROM: DS/HEA: John H. Austin
Environmental Engineer *John H. Austin*

THRU: DS/HEA: Victor W.R. Wehman, Jr., P.E. R.S. *VW*
AID WASH Project Manager

SUBJECT: Provision of Technical Assistance Under Scope of Work for
USAID/Togo and Benin

REFS: 1) LOME 02174, (Para 1, 2 and Attachment 1 - Statement of Work),
2) COTONOU 0719, (Para 1), 3) LOME 02939, (Para 5) and Austin memo
March 19, 1981 to Lundgren

1. WASH contractor requested to provide technical assistance to USAID/Lome as per REFS. 1, 2, and 3 Scope of Work, and background material in REF 4.
2. WASH contractor authorized to expend up to 140 person days effort over a 15 month period to accomplish this technical assistance effort.
3. Contractor to provide draft interim and final reports to Mission on Scope of Work elements at times to be determined, before leaving Mission. Contractor to make arrangement for local secretary and typewriter to accomplish reports on project elements. If Mission unable to provide these services, then contractor should have consultants take typewriter on their trips..
4. Contractor to coordinate directly with USAID/Lome (Dr. John Lundgren, Mission D n Phillips (Associate Director, Peace Corps). In addition, the following must be kept apprised of the nature of this effort, travel schedules, progress of effort and times of major activities:
 - a. Dr. Jim Shepperd (AFR/DR/HP)
 - b. Mike Speers, Project Officer (AFR/DR)
 - c. Bernard Lane, Desk Officer (AFR/DR)
 - d. Barbara Gardner, Peace Corps (Togo/Benin, Desk Officer)
 - e. Jim Bell, Peace Corps (Water Supply and Sanitation)
5. Contractor authorized up to 135 days of domestic and international per diem for this effort.
6. Contractor authorized up to 4 round trips travel from consultants home base through Washington to Lome, return to Washington for debriefing and return to their home base.

7. Contractor should insure a timely and thorough briefing and debriefing for Africa Bureau and DS/HEA personnel upon return to Washington, D.C. before and after each trip as required. Contractor to provide detailed interim debriefing on status of project upon return from second trip of consultant. Full scale debriefing for Africa Bureau, DS/HEA and Peace Corps personnel anticipated.
8. Contractor authorized to pay local expenses in Togo and Benin for local hire of secretary, interpreter, xeroxing, car rental or other miscellaneous expenses. As much as possible, Mission should use project resources for these. Local expenses NTE \$1,000 without notification and approval of DS/HEA project manager.
9. Contractor authorized 20 round trips within Togo/Benin to project sites, if required, from Lome to site and return to Lome, if necessary, to carry out mission.
10. Mission should be contacted immediately and technical assistance initiated as soon as possible and convenient to Mission/GOT and GOB.

JHA:ja:7/. /81

BENIN

UNCLASSIFIED
Department of State

INCOMING
TELEGRAM

PAGE 01 LOME 02174 01 OF 04 020756Z 4813 070113 AID5123
ACTION AID-35

LOME 02174 01 OF 04 020756Z 4813 070113 AID5123

ACTION OFFICE AFOR-06

INFO AAAP-01 AFRA-03 AFW-03 CH6-01 PCPE-01 PDPR-01 PPPB-03
PPEA-01 STA-10 FM-02 AADS-01 CMGT-02 CTR-02 DSHE-01
CH8-01 AFDA-01 HEV-09 RELO-01 MAST-01 DO-01 AFPM-01
/053 A4 82

INFO OCT-01 /036 V

-----031637 020756Z /34

P 020736Z MAY 81
FM AMEMBASSY LOME
TO SECSTATE WASHDC PRIORITY 1666
INFO AMEMBASSY COTOHOU

UNCLAS SECTION 01 OF 04 LOME 02174

AIDAC

AID/W FOR AFR/DR (BARNES) DS/HEA (AUSTIN)

E.O. 12065: N/A
SUBJECT: BENIN RURAL WATER SUPPLY (698-0201)
HEALTH COMPONENT

REF:

1. SUMMARY: THIS MESSAGE HAS THREE PURPOSES. FIRST, IT TRANSMITS INFORMATION IN PIO/T FORMAT TO ENABLE AFR/DR EXECUTE A CONTRACT FOR THE SERVICES OF A HEALTH SANITATION ADVISOR/HANAGER FOR THE HEALTH COMPONENT OF SUBJECT PROJECT. SECOND, IT RECOMMENDS THAT, IF POSSIBLE, THE SAME CONTRACTOR SELECTED FOR THE TOGO WATER PROJECT (REPORTED TO BE NELLUM ASSOCIATES) BE INVITED TO REVIEW PIO/T SCOPE OF WORK WITH VIEW THAT A NEGOTIATED CONTRACT BE CONCLUDED. THIRD, IT REQUESTS WASH PROJECT RESOURCES BE MOBILIZED TO ASSIST THE LONG-TERM HEALTH ADVISOR DURING PROJECT START-UP PERIOD.

2. SINCE BOTH PROJECTS BEING MANAGED BY OAR/LOME, RECOMMEND TOGO HEALTH CONTRACTOR BE HIRED FOR BENIN HEALTH COMPONENT FOR THE FOLLOWING REASONS: A) AS PER DESCRIPTION BELOW, THE BENIN HEALTH PROJECT IS VERY SIMILAR TO TOGO PROJECT; B) PROXIMITY OF BENIN AND TOGO PERMITS EASY CONSULTATION BETWEEN HEALTH ADVISORS TO BOTH PROJECTS AND EXCHANGES OF IDEAS BENEFITTING BOTH PROJECTS; C) CLOSE COOPERATION OF THE TWO HEALTH ADVISORS WOULD PERMIT SHARING OF EDUCATIONAL AND OTHER RESOURCES AS NECESSARY; D) CONTRACT MANAGEMENT BY OAR/LOME WOULD BE SIMPLIFIED.

3. FOLLOWING IS PIO/T FOR HEALTH/SANITATION ADVISOR KEYED STANDARD PIO/T FORMAT:
BLOCK 1: BENIN; BLOCK 2: PIO/T NO. 680-0201-3-10004;
BLOCK 3: CHECK ORIGINAL; BLOCK 4: 680-0210, BENIN RURAL WATER SUPPLY (HEALTH/SANITATION ADVISOR);
BLOCK 5: 72-1111021.8; BLOCK 6: 148-52-680-00-69-11;
BLOCK 7: IMPL. DOCUMENT; BLOCK 8: 9-30-85;
BLOCK 9: AID/W - AAA/AFR/DR; BLOCK 10: 680-0201, DATED 8/30/1980; BLOCK 11.A: CHECK AID CONTRACT (HB 14);
BLOCK 11.B: N/A; BLOCK 12.A. (2) DOLS 490,000.
BLOCK 12.A. (4) DOLS 490,000. BLOCK 13: NONE BLOCK 14.A.: AUTHORIZED AGENT IS REQUESTED TO EXECUTE A CONTRACT OR A WORK ORDER UNDER THE APPROPRIATE INDEFINITE QUANTITY CONTRACT FOR THE SERVICES OF A VILLAGE HEALTH EDUCATION SPECIALIST. THE SCOPE OF WORK FOR TECHNICAL SERVICES PROVIDED AS ATTACHMENT NO. ONE. ESTIMATED BUDGET IS PROVIDED AS ATTACHMENT NO. TWO.
BLOCK 14.B.: VAAC, KEDSO/WA, AMERICAN EMBASSY B.P. 1712, ABIDJAN, IVORY COAST; BLOCK 15: AS REQUIRED BY AFR/DR;
BLOCK 16: COOPERATING COUNTRY AGREEMENT CONTAINED IN

19C

ORIGINAL OF PROAG REFERENCED ABOVE BLOCK 17: BY AAA/AFR/DR. BLOCK 18: SEE STATEMENT OF WORK AS ATTACH 1 BELOW; BLOCK 19.A: SOLID ABILITY TO READ, WRITE, AND SPEAK THE FRENCH LANGUAGE AT THE FSI-3 LEVEL; BLOCK 19.B: SECURITY CLEARANCE WILL NOT BE REQUIRED; BLOCK 19.C: DUTY POST WILL BE KANDI, PEOPLES REPUBLIC OF BENIN (SEE ATTACH 3 LIVING CONDITION BELOW). INITIAL TOUR WILL BE FOR 24 MONTHS RENEWABLE FOR A SECOND 21 MONTH TOUR. BLOCK COMD: DEPENDENTS WILL NOT BE PERMITTED (EXCEPT AT CONTRACTOR'S EXPENSE) SEE PARA FIVE BELOW; BLOCK 19.E: N/A. BLOCK 19.F: CHECK HAS BEEN OBTAINED. BLOCK 19.G: 44 HOUR WORK-WEEK AUTHORIZED. QUALIFICATIONS: TECHNICIAN SHALL HAVE AT LEAST A MASTER'S DEG E IN PUBLIC HEALTH. MUST HAVE HAD 3 YEARS WORK EXPERIENCE IN RURAL AREAS OF DEVELOPING COUNTRIES - IDEALLY IN WEST AFRICA. MUST BE ABLE TO PLAN THE VILLAGE HEALTH EDUCATION IMPROVEMENT PROGRAM, THE REQUIRED TRAINING PROGRAM DEVELOPMENT OF TRAINING MATERIALS, AND THE EVALUATION OF THOSE ACTIVITIES. BLOCK 20: PROJECT RPER - BENIN ROJAL WAVER SUPPLY WFD SANITATION (AUGUST 1988); THE HEALTH ANALYSIS PREPARED IN JUNE 1978 FOR PROJECT DESIGN; THE PROJECT AGREEMENT DATED 030 AUGUST 1980. THESE DOCUMENTS ARE AVAILABLE IN AID/AFR/CWA AND AID/AFR/DR/CAVARAP. BLOCK 21: DETAILED BUDGET PROVIDED AS SECTION D. DETAIL STATEMENT OF WORK PROVIDED AS SECTION B BELOW.

A. ATTACHMENT ONE, - STATEMENT OF WORK: THE FIRST COMPONENT OF THIS PROJECT CALLS FOR THE INSTALLATION OF 225 DRILLED TUBEWELLS EQUIPPED WITH PUMPS IN APPROXIMATELY 100 RURAL VILLAGES IN THE BORGOU REGION OF BENIN AND SPRING CAPTATION IN THE ATACORA REGION. THE SECOND COMPONENT CALLS FOR IMPROVING HEALTH EDUCATION AND SANITATION IN THE VILLAGES WHERE WELLS HAVE BEEN INSTALLED UNDER THE PROJECT IN NORTHERN BORGOU PROVINCE.

Revised 5 May 1981 JES

*WENTHARD
AUSTIN*

Vic.

I suggest that you tell Barnes, AFR/DR that Austin on TDY this week but we will have him call next week.

UNCLASSIFIED
Department of State

INCOMING
TELEGRAM

PAGE 01 LOME 02174 02 OF 04 020806Z 4847 070116 AID5125
ACTION AID-35

LOME 02174 02 OF 04 020806Z 4847 070116 AID5125

ACTION OFFICE AFDR-06
INFO AAAF-01 AFRA-03 AFCW-03 CH6-01 PPCE-01 PDPR-01 PPPD-03
PPEA-01 STA-10 FM-02 AADS-01 CMGT-02 CTR-02 DSHE-01
CH8-01 AFDA-01 HEV-09 RELO-01 HAST-01 OO-01 AFPM-01
/053 A4 82

INFO OCT-01 /036 W

-----031756 020806Z /34

P 020736Z MAY 81
FM AMEMBASSY LOME
TO SECSTATE WASHDC PRIORITY 1667
INFO AMEMBASSY COTONOU

UNCLAS SECTION 02 OF 04 LOME 02174

AIDAC

AID/W FOR AFR/DR (BARNES), DS/HEA (AUSTIN)

THE CONTRACT TECHNICIAN WILL WORK WITH THE SECOND COMPONENT OF THIS PROJECT AND WILL PROVIDE TECHNICAL ASSISTANCE IN THE DEVELOPMENT, IMPLEMENTATION AND EVALUATION OF THE VILLAGE HEALTH EDUCATION COMPONENT OF THE PROJECT. UNDER THIS CONTRACT, ADVISOR WILL BE REQUIRED TO:

- 1) VISIT THE REGIONS AND SOME OF THE VILLAGES WHERE NEW SOURCES OF SAFE WATER WILL BE OR ARE BEING DEVELOPPED AND MAKE PRELIMINARY ASSESSMENTS AS TO: CURRENT LEVELS OF VILLAGERS' AWARENESS OF CLEAN WATER AND ITS RELATIONSHIP TO GOOD HEALTH; ON-GOING PRACTICES WHICH COULD SERVE TO NEGATE POTENTIAL HEALTH IMPROVEMENTS ARISING FROM THE INTRODUCTION OF SAFE WATER SOURCES; PRESENT LEVELS OF CAPABILITY OF THE VARIOUS BENINESE GOVERNMENT PERSONNEL WHO WILL BE INVOLVED IN VILLAGE-LEVEL HEALTH EDUCATION AND SANITATION IMPROVEMENT EFFORTS TO MAKE AN EFFECTIVE CONTRIBUTION TO THE EFFORT. DURING THE PLANNING STAGE CLOSE COLLABORATION WILL BE MAINTAINED WITH THE PEACE CORPS AND INSTRUCTIONAL MATERIALS, SURVEY INSTRUMENTS, EVALUATION INSTRUMENTS WILL BE DESIGNED BY THE HEALTH CONTRACTOR IN COLLABORATION WITH THE PEACE CORPS VOLUNTEERS AND BENINESE COUNTERPARTS ASSIGNED TO THE PROJECT.
- 2) BASED ON MY ASSESSMENT (AND ON INFORMATION PROVIDED FROM GPRB AND USAID SOURCES) AND WORKING WITH COLLEAGUES FROM THE MINISTRIES OF HEALTH, SOCIAL AFFAIRS AND OTHER CONCERNED AGENCIES, ASSIST IN THE DEVELOPMENT OF A COMPREHENSIVE PLAN FOR CARRYING OUT A BASIC AND ELEMENTARY HEALTH EDUCATION/SANITATION IMPROVEMENT PROGRAM IN THE VILLAGES TO BE PROVIDED WITH NEW SOURCES OF SAFE WATER. THE PROGRAM IS TO BE AIMED AT: A) RAISING VILLAGERS' AWARENESS OF THE INTERRELATIONSHIP BETWEEN UNHYGIENIC PRACTICES AND UNSANITARY CONDITIONS ON THE ONE HAND AND DISEASE AND DEATH ON THE OTHER; B) MOTIVATING VILLAGERS TO CHANGE INAPPROPRIATE PRACTICES; AND C) HELPING THEM TO DO SO. IN ADDITION THE TECHNICIAN WILL WORK CLOSELY WITH THE PEACE CORPS ASSOCIATE DIRECTOR AND PEACE CORPS VOLUNTEERS ENGAGED IN PREVENTIVE HEALTH ACTION ACTIVITIES IN THE COMMUNITIES. ASSISTANCE WILL BE GIVEN IN TRAINING PEACE CORPS VOLUNTEERS AND THEIR COUNTERPARTS AS WELL AS ASSISTING THEM WITH THEIR ACTIVITIES IN THE FIELD. THE ACTIVITIES OF CONSULTANTS SUPPLIED BY THE WASH PROJECT WILL BE COORDINATED BY THE TECHNICIAN.

- THE PLAN WILL SPECIFY THE KINDS OF PARTICIPATION THAT WILL BE REQUIRED OF VILLAGERS, HEALTH AND OTHER WORKERS, OFFICIALS AND POLITICAL LEADERS. IT WILL INCLUDE A PLAN FOR IN-SERVICE EDUCATION OF THE PERSONNEL OF THE MINISTRIES OF HEALTH, SOCIAL AFFAIRS AND OTHER AGENCIES WHO WILL BE INVOLVED IN THE HEALTH EDUCATION/SANITATION

- IMPROVEMENT ACTIVITIES. IT WILL DEFINE SANITATION STANDARDS REQUIRED TO ASSURE THAT WATER SAFETY IS MAINTAINED IN THE VILLAGE SITUATION. IT WILL DESCRIBE HOW THE HEALTH EDUCATION/SANITATION IMPROVEMENT COMPONENT OF THE PROJECT WILL BE MANAGED AND WILL SPECIFY RESPONSIBILITIES OF COLLABORATING MINISTRIES, AGENCIES, AND PERSONNEL. IT WILL SPELL OUT THE PHASING, TIMING, AND SYNCHRONIZING OF ACTIVITIES OF THIS COMPONENT WITH THE OTHER COMPONENTS OF THE PROJECT. IT WILL OUTLINE PLANS FOR ON-GOING, MID-POINT, AND FINAL EVALUATION OF THIS COMPONENT OF THE PROJECT (THE EVALUATION PLAN WILL IDENTIFY SPECIFIC OBJECTIVES OF PROJECT ACTIVITIES, BENCHMARKS OF PROGRESS, BASELINE DATA TO BE GATHERED, ETC.)

- 3) ASSIST THE MINISTRY OF HEALTH TO DETERMINE TRAINING NEEDS AND TO DEVELOP INITIAL AND SUPPLEMENTARY TRAINING PROGRAMS TO PREPARE THE PERSONNEL WHO WILL ACTUALLY CARRY OUT THE HEALTH EDUCATION AND SANITATION IMPROVEMENT ACTIVITIES AT THE VILLAGE LEVEL AS WELL AS IN THE SCHOOLS TO CARRY OUT THEIR DUTIES EFFECTIVELY. THE PERSONNEL TO BE TRAINED INCLUDE SOCIAL AGENTS, CULTURAL EXTENSION AGENTS, TEACHERS AND MOH PERSONNEL ASSIGNED TO AREAS WHERE NEW SAFE WATER SOURCES ARE BEING DEVELOPED. THE CONTRACTORS WILL REVIEW DIFFERENT TRAINING METHODS, DETERMINE THE MOST APPROPRIATE METHOD, ESTABLISH COURSE CONTEXT, AND DEVELOP MATERIALS REQUIRED FOR THE TRAINING. THE CONTRACTOR SHOULD USE EXISTING MATERIALS AS MUCH AS POSSIBLE INITIALLY, BUT SHOULD AIM TO DEVELOP LOCAL CAPACITY FOR MATERIALS DEVELOPMENT AS SOON AS POSSIBLE. THE CONTRACTOR WILL TRAIN THE MOH PERSONNEL AND WORK WITH THEM TO CONDUCT THE TRAINING PROGRAMS. THE CONTRACTOR WILL MONITOR THE PERFORMANCE OF THE PERSONNEL CARRYING OUT THE VILLAGE-LEVEL HEALTH EDUCATION AND SANITATION IMPROVEMENT ACTIVITIES. BASED UPON THEIR OBSERVATIONS, THE CONTRACTOR WILL MODIFY TRAINING PROGRAMS AND PLANS AS APPROPRIATE. THE TRAINING PROGRAMS WILL BE BASED ON THE PERFORMANCE OBJECTIVE APPROACH TO TRAINING.

- 4) ASSIST IN CARRYING OUT THE MID-POINT EVALUATION OF

48

UNCLASSIFIED
Department of State

INCOMING
TELEGRAM

PAGE 01 LOHE 02174 03 OF 04 020814Z 4858 070119 A105126
ACTION AID-35

LOHE 02174 03 OF 04 020814Z 4858 070119 A105126

ACTION OFFICE AFDR-06
INFO AAF-01 AFRA-03 AFCW-03 CH6-01 PPCE-01 PDPR-01 PPPB-03
PPEA-01 STA-10 FM-02 AADS-01 CMGT-02 CTR-02 DSHE-01
CH8-01 AFDA-01 HEV-09 RELO-01 MAST-01 OO-01 AFPM-01
/053 A4 82

INFO OCT-01 /836 W

-----032015 020814Z /34

P 020736Z MAY 81
FM AMEMBASSY LOM3
TO SECSTATE WASHDC PRIORITY 1668
INFO AMEMBASSY COTONOU

UNCLAS SECTION 03 OF 04 LOHE 02174

AIDAC

AID/W FOR AFR/DGY (BARNES), DS/HEA (AUSTIN)

- THE PROJECT. THIS IS SCHEDULED TO BE CARRIED OUT ABOUT
- 18 MONTHS FOLLOWING THE INITIATION OF THE VILLAGE HEALTH
- EDUCATION/SANITATION IMPROVEMENT ACTIVITIES (OR, ABOUT
- SIX MONTHS AFTER THE CONTRACTOR COMPLETES THE INITIAL
- PHASE OF THEIR WORK). IT WILL ENTAIL REVIEW AND ANALYSIS
- OF DATA GATHERED, FIELD OBSERVATIONS, INTERVIEWS WITH
- PROGRAM MANAGERS AND VILLAGERS, AND WORK WITH THE EVALUATION
- COMMITTEE (TO BE ESTABLISHED BY THE GPRB) TO FRAME
- CONCLUSIONS AND RECOMMENDATIONS AND TO PREPARE A REPORT.
- VILLAGERS, AS WELL AS PROJECT STAFF, WILL PARTICIPATE
- IN THE EVALUATION PROCEDURE.

- 5) THE CONTRACTOR WILL UTILIZE THE PROJECT PAPER AS THE
- DOCUMENT FOR THE WORK. IT IS ESTIMATED THAT THE SERVICES
- OF THE CONTRACTOR WILL BE REQUIRED FOR A TOTAL OF 45
- MONTHS. THE CONTRACTOR WILL RECEIVE FIVE DAYS OF ORIENTATION
- CONSULTATIONS WITH AID/W AND WASH BEFORE DEPARTURE
- FOR BENIN AND WILL DE-BRIEF AID/W PERSONNEL UPON EACH
- RETURN FROM BENIN.

B. ATTACHMENT TWO,

- LIVING CONDITIONS AT DUTY POST:
- KANDI IS A TOWN OF 3000 PEOPLE. 550 KM NORTH OF COTONOU. AVAILABLE HOUSING IS VERY MODEST WITHOUT ELECTRICITY OR RUNNING WATER. FACILITIES FOR CHILD HEALTH CARE AND SCHOOLING ARE NOT AVAILABLE. (2,54-594 28) 73 3/03:53S 59
SPEND AN AVERAGE OF 15 DAYS/MONTHS IN SMALL RURAL VILLAGES AT SOME DISTANCE FROM KANDI AND ANOTHER 5 DAYS/MONTHS ON MISSIONS TO COTONOU OR ELSEWHERE. LIVING CONDITIONS IN VILLAGES ARE PRIMITIVE.

- DUE TO THE PAUCITY OF EDUCATIONAL AND HEALTH FACILITIES IN THE PROJECT AREA, AND FREQUENT TRAVEL REQUIRED OF HEALTH ADVISOR, SEPARATE MAINTENANCE IN THE U.S. WILL BE PROVIDED FOR ELIGIBLE FAMILY MEMBERS. NO PROJECT FUNDS WILL BE MADE AVAILABLE FOR EITHER THE TRANSPORT OF FAMILY MEMBERS TO BENIN OR THEIR SUPPORT IN BENIN; DEPENDENTS OF HEALTH ADVISORS PRESENT IN BENIN WILL BE CONSIDERED UNOFFICIAL AND ON THEIR OWN.

- THE STANDARD WORK WEEK IN THE ADMINISTRATIVE CENTERS IS FOR 11 HOURS, SEVEN HOURS PER DAY MONDAY THROUGH FRIDAY AND FIVE HOURS ON SATURDAY. THE WORK WEEK IN THE FIELD CAN BE ALTERED, WITH THE AGREEMENT OF THE BENINESE COUNTERPARTS, TO FIT WORKING CONDITIONS. THE HEALTH ADVISOR WILL WORK AN EXTRA EIGHT HOURS EVERY TWO WEEKS WHICH WILL RESULT IN 26 DAYS ADDITIONAL LEAVE PER YEAR. HEALTH ADVISOR WILL BE ALLOWED AN ANNUAL ROUND-TRIP TICKET TO U.S., AT WHICH TIME HE/SHE MAY TAKE HIS/HER

REGULARLY ACCRUED LEAVE PLUS THE 26 DAYS OF ADDITIONAL LEAVE. AS A GENERAL RULE LEAVE WILL BE TAKEN DURING THE PROJECT AREA PLANTING SEASON. EXACT TIMING OF VACATIONS IS SUBJECT TO THE APPROVAL OF THE USAID PROJECT MANAGER AND THE GPRB PROJECT DIRECTOR.

- KANDI IS A THREE HOUR DRIVE FROM THE PROVINCIAL CAPITAL, PARAKOU. WHEN IN COTONOU THE HEALTH ADVISOR WILL HAVE ACCESS TO THE EMBASSY COMMISSARY AND MEDICAL FACILITIES ON THE SAME BASIS AS OFFICIAL AMERICAN EMPLOYEES. THE COMMISSARY HAS A LIMITED SELECTION OF AMERICAN CANNED GOODS AND MEAT. THE EMBASSY HAS A NURSE WHO IS PRESENT ONE DAY A WEEK AT THE EMBASSY BUT AVAILABLE WHEN NEEDED. THE STATE DEPARTMENT REGIONAL DOCTOR IS STATIONED IN LAGOS, NIGERIA AND MAKES REGULARLY SCHEDULED VISITS TO COTONOU. HEALTH ADVISOR WILL HAVE POUCH PRIVILEGES FOR FIRST CLASS LETTER MAIL ONLY. PROJECT VEHICLE WILL BE AVAILABLE TO HEALTH ADVISOR FOR OFFICIAL USE, WHICH INCLUDES TRAVEL BETWEEN WORK SITES AND REGIONAL CENTERS OR COTONOU.

C. ATTACHMENT THREE,

- ILLUSTRATIVE BUDGET:

(A) SALARIES

- 1) VILLAGE HEALTH

- EDUC. SPEC. (45 MONTHS) DOLS 132,000 DOLS 132,000

(B) POST DIFFERENTIAL (25 PERCENT)

= 33,000

(C) OVERHEAD (100 PERCENT)

= 132,000

(D) OTHER ALLOWANCES

- (COLA, LOA, FURNISHING, SMA)

- 18,000 45,000 15,000 18,000 = 96,000

(E) TRAVEL & TRANSPORTATION

- 1) INTERNATIONAL

- A) AIRFARE (5 TRIPS) 10,000

- B) STOP OVER PER DIEM 1,000

- C) TAXIS 500

UNCLASSIFIED
Department of State

INCOMING
TELEGRAM

PAGE 01 LOME 02174 04 OF 04 020821Z 4861 070123 A105128

LOME 02174 04 OF 04 020821Z 4861 070123 A105128
PROJECTS.

ACTION AID-35

ACTION OFFICE AFDR-06
INFO AAAP-01 AFRA-03 AFCV-03 CH6-01 PPCE-01 PDPR-01 PPPB-03
PPEA-01 STA-10 FM-02 AADS-01 CHGT-02 CTR-02 DSHE-01
CH8-01 AFDA-01 HEW-09 RELO-01 HAST-01 OO-01 AFPM-01
/053 A4 82

INFO OCT-01 /836 W

-----032034 020821Z /34

P 020736Z MAY 81
FM AMEMBASSY LOME
TO SECSTATE WASHDC PRIORITY 1669
INFO AMEMBASSY COTONOU

UNCLAS SECTION 04 OF 04 LOME 02174

AIDAC

AID/W FOR AFR/DR (BARNES), DS/HEA (AUSTIN)

-	D) EXCESS BAGGAGE	500	
-			12,800
-	2) U.S.:		
-	A) AIRFARE	1,000	
-	B) WASHINGTON PER DIEM	1,000	
-	C) TAXIS	300	
-			2,300
-	3) IN COUNTRY		
-	A) TRANSPORTATION	2,250	
-	B) PER DIEM	14,000	
-		16,250	31,550
-	F) AIR FREIGHT		
-	(500 LBS X 2 DIRECTION)		3,500
-	G) SECRETARIAL SUPPORT		3,000
-	H) OTHER DIRECT COSTS		
-	1) DBA INS.		
-	0,00714 X DOLS 60,500	1,500	
-	2) MEDICAL EXAMS, SHOTS		
-	PASSPORTS & VISAS	400	
-	3) MISCCELLANEOUS	1,250	3,150
-	SUBTOTAL		DOLS 434,200
-	10 PERCENT FIXED FEE		DOLS 43,420
-	CONTINGENCY		DOLS 12,380

4. BASED ON THE COMPLETED PROJECT PLAN FOR HEALTH COMPO-
NENT RECENTLY SUBMITTED BY HEALTH PLANNING CONSULTANT, OAR
FORESEES NEED FURTHER DETAILED SPECIFICATION/ELABORATION
SPECIFIC ELEMENTS THIS PLAN, I.E. EVALUATION CRITERIA AND
CURRICULUM MATERIALS FOR TRAINING VILLAGE LEVEL HEALTH
WORKERS. FOR THIS PURPOSE AND ALSO TO FACILITATE THE
INTEGRATION OF THE WORK OF THE FULL-TIME HEALTH ADVISOR,
WE RECOMMEND THAT A CONSULTANT FROM WASH COME TO BENIN
APPROXIMATELY ONE MONTH AFTER THE ARRIVAL IN BENIN OF THE
WATER PROJECT HEALTH ADVISOR TO ASSIST LATTER IN THE
FOLLOWING TASK:

- A) THE DEVELOPMENT OF A PROJECT EVALUATION INSTRU-
MENT (QUESTIONAIRES, DATA COLLECTIONS SHEETS,
ETC.) AND METHODOLOGY WHICH WILL SERVE THE DUAL
PURPOSE OF GATHERING BASELINE DATA FOR MEASURING
IMPACT OF HEALTH PROJECT ACTIVITIES ON THE
HEALTH STATUS OF PROJECT VILLAGES IN THE LONG
TERM AND OF INITIATING VILLAGE LEVEL UNDERSTAND-
ING OF, AND INVOLVEMENT IN, COMMUNITY ANALYSIS
FOR THE PLANNING OF SMALL SCALE VILLAGE LEVEL

B) THE DEVELOPMENT OF CURRICULUM MATERIALS FOR
THE TRAINING OF VILLAGE HEALTH WORKERS AND OF
GPRB CIVIL SERVANTS, SUCH AS PRIMARY SCHOOL
TEACHERS, WHOSE PARTICIPATION IN VILLAGE LEVEL
HEALTH ACTIONS MAY BE SOLICITED.

C) THE WASH CONSULTANT SHOULD HAVE EXPERIENCE IN
EVALUATION TECHNIQUES AND IN DEVELOPMENT OF
HEALTH TRAINING MATERIALS. WE SUGGEST THAT DR.
RAY ISELY WOULD BE AN EXCELLENT CHOICE. HIS
PARTICIPATION IN THE BENIN WATER PROJECT WOULD
BE NECESSARY FOR AT LEAST ONE MONTH AND, PROB-
ABLY, NOT MORE THAN SIX WEEKS.

5. IN ORDER TO GIVE HEALTH ADVISOR NECESSARY TIME TO
ESTABLISH REQUIRED CONTACTS WITH MCH OFFICIALS AND TO BE-
COME FAMILIAR WITH PROJECT PLANS AND NEEDS, WASH CONSULTANT
SHOULD NOT ARRIVE SOONER THAN ONE MONTH AFTER ARRIVAL OF
HEALTH ADVISOR IN COTONOU. ALSO, IN ORDER TO START PROJECT
ACTIVITIES AS SOON AS FEASIBLE WASH CONSULTANT SHOULD
ARRIVE NO MORE THAN SIX WEEKS AFTER ARRIVAL OF HEALTH
ADVISOR IN BENIN. BEGINNING OF FIELD ACTIVITIES DEPEND
ON ASSISTANCE OF WASH EVALUATION CONSULTANT. STRONGLY
SUGGEST HEALTH ADVISOR MEET WITH WASH CONSULTANTS IN WASH.
D.C. PRIOR TO DEPARTURE TO BENIN.

6. PLEASE ADVISE WHEN PIO/T FINALIZED AND CONTRACTING
ACTIONS BEGUN. JOHNSON

It may take some time to recruit
the "water project health advisor."
Living conditions @ duty post
are primitive. Also they want
no dependents. Also flight
Fees.

UNCLASSIFIED

Department of State

INCOMING TELEGRAM

PAGE 01 COTONO 00719 131437Z 2260 054490 A102163
ACTION AID-35

COTONO 00719 131437Z 2260 054490 A102163

REVIEW OF PL 480 PROGRAM IN APRIL, AS REQUIRED BY BENIN
AUDIT REPORT 80-24.

ACTION OFFICE AFCW-03
INFO ARAF-01 AFRA-03 AFDR-06 IG-01 FDC-02 IGPP-01 C-01 CALI-02
CMGT-02 CPS-02 CTR-02 DSNE-01 CH8-01 PVC-02 AFDA-01
/031 AS 113

8. PEACE CORPS RURAL WORKS 698-0410 AIP/IRT CANCELLED.
9. UNITARIAN UNIVERSALIST SERVICE COMMITTEE (UUSC)
CANCELLED.

INFO OCT-01 /036 W
-----315105 131439Z /34

10. INTERNATIONAL PROJECT, FAMILY PLANNING INTERNATIONAL,
INTRAM, JHPIEGO POPULATION PROGRAMS. NO NEW PROJECTS
WILL BE CONSIDERED FOR BENIN. BULLINGTON

R 131405Z APR 81
FM AMEMBASSY COTONOU
TO SECSTATE WASHDC 3381
AMEMBASSY ABIDJAN
INFO AMEMBASSY LOME

W B Amar

UNCLAS COTONOU 0719

BENIN OTD (Future)

AIDAC

DEPT FOR AFR/W CWA AFR/DR AFR/RA

ABIDJAN FOR BRADSKY, MULCAHY, WAGNER

E.O. 12055: N/A
SUBJECT: BENIN STATUS REPORT

REF: COTONOU 0849 PRIOR STATUS REPORT

HAVE JUST COMPLETED AN EXTENSIVE REVIEW OF ALL AID ACTIVITIES
IN BENIN WITH CHARGE, AND PROJECT MANAGERS.

1. BENIN RURAL WATER 680-0201. ALL FUNDS OBLIGATED, AND CPS. 4.1, 4.2 AND FIRST HALF OF 4.3 MET. AFTER REDSO CLEARANCE ON PROCUREMENT PLAN RECEIVED (LAST HALF OF CP 4.3) PIL NO. 1 WILL BE ISSUED. PROCUREMENT TEAM HAS RETURNED FROM SUCCESSFUL U.S. VISIT TO SER/COM, UND/CDP, MANUFACTURERS. PIO:XS AND PIO:TS DRAFTED AND AWAITING REDSO CLEARANCE. PROJECT MANAGER HAS VISITED ALL SPRING CAPTATION SITES, AND WILL SOON BE VISITING SEVERAL OF THE VILLAGE REGIONS DESIGNATED AS POSSIBLE WELL SITES. PSC HEALTH CONSULTANT WILL SUBMIT ASAP/HEALTH-SAITATION PLAN, WHICH WE PLAN TO INVITE WASH TO COMPLETE AN ON SITE REVIEW.
2. CRS COYA PRODUCTION/NUTRITION 680-0207. FIELD DEMONSTRATIONS WILL BEGIN ASAP AT DISTRICT LEVELS AND NATIONAL SEMINARS AT REGIONAL LEVEL COMPLETED VERY SUCCESSFULLY.
3. PARAKOU-MALANVILLE ROAD. 680-003/4 RECEIVED GPRB MAINTENANCE PLAN AND REDSO HAS RECOMMENDED TO ASSISTANT ADMINISTRATOR/AFRICA FOR CLOSURE OF RECOMMENDATION NO. 2 OF BENIN AUDI REPORT 80-24.
4. COTONOU BRIDGE/DAM 680-W-005. REDSO ENGINEERING WILL TOY COTONOU TO UNDERTAKE COMPLETION REPORT AND DISCUSS REQUIREMENTS FOR PROJECT EVALUATION. OLD BRIDGE HAS REOPENED AS OF 01 APRIL 81.
5. ROAP. SOCIO-ECONOMIC STUDY 698-0416.04. FIELD INTERVIEW STAFF HAS BEEN TRAINED/SELECTED/INSTALLED, AND HAVE BEGUN FIELD STUDY WITH PRINTED QUESTIONAIRES AS OF 01 APRIL 81. SOURCE/ORIGIN PROPRIETARY WAIVER FOR COMPASSES RECEIVED. CERTIFICATION SYSTEM FOR MASI VOUCHERS ESTABLISHED.
6. AMDP. FY 81 TRAINING PLAN APPROVED AND DOLS 85,000 ALLOTTED. OBLIGATION OF FUNDS WILL BE COMPLETED ASAP. THE THREE AFGRAD SCHOLARSHIPS RESERVED FOR BENIN HAVE BEEN TURNED BACK TO AAI DUE INABILITY OF BENIN TO COMPLETE FILES.
7. PL 480 TITLE II. NEW CRS DIRECTOR HAS ARRIVED, AND PREPARED THIRD QUARTER CALL FORWARD OF 450 MT. OUTREACH PROPOSAL APPROVED AND RELEASE OF APPROX. DOLS 250,000 REQUESTED. OAR WILL COMPLETE SEMI ANNUAL

UNCLASSIFIED



OTD #47

July 24, 1981

Technical Assistance in Review of Rural
Primary Health Care Project Paper - Zaire

AID/Kinshasa requested the services of WASH Associate Director Dr. Ray Isely to review the Rural Primary Health Care Project Paper with the Mission and Ministry of Health officials. Dr. Isely will stop off in Kinshasa on his return trip to the U.S. from Burundi, where he has been working on OTD #36. For further information, contact Dr. R. Isely.

Up to five (5) person days of effort, including four (4) person days of international per diem are authorized for this OTD.

JEB/CIC
7/29/81

((((

WATER AND SANITATION FOR HEALTH (WASH) PROJECT
ORDER OF TECHNICAL DIRECTION NUMBER 47
July 24, 1981

TO: Mr. Dennis Warner, P.E.
WASH Project Director (Acting)

FROM: Victor W. R. Wehman, Jr., P.E., R.S. *VWR*
A.I.D. WASH Project Manager

SUBJECT: Provision of Technical Assistance Under WASH Project Scope of Work
for U.S. A.I.D./Zaire

REF: A) State 144685, June 3, 1981
B) Kinshasa 6327, June 16, 1981
C) State 178143, July 8, 1981
D) Kinshasa 7404, July 15, 1981
E) WASH/Zaire 90, July 22, 1981
F) WASH/Burundi 89, July 22, 1981

1. WASH contractor requested to provide technical assistance to U.S. A.I.D./Zaire as per reference D, paragraph two, assuming Dr. Isely is still available to spend the two (2) days as planned in Kinshasa for meetings.
2. WASH contractor authorized to expend up to five (5) person days of effort over the period of July 25, 1981 through August 30, 1981 to accomplish this technical assistance effort and follow-up as required.
3. Contractor to provide detailed debriefing of visit within one (1) week of return from field and provide formal report and conclusions/recommendations of trip to Africa Bureau and U.S. A.I.D./Zaire within thirty (30) days of return from visit.
4. Contractor to coordinate directly with and keep informed AFR Desk Officer, AFR/DR/ENG (Mr. Gould) and AFR/DR/HN, Dr. Shepperd. Advise U.S. A.I.D. and above ~~ETA~~ *of* of Dr. Isely and other information as appropriate.
5. Contractor authorized up to four (4) person days of international per diem during this effort.
6. WASH contractor authorized to transport Dr. Isely from Burundi to Kinshasa, Zaire and pay local travel as necessary. Transport costs from Zaire to Washington, D.C. should be under OTD 36 on Burundi scope of work, i.e., return air fare from Burundi to Washington, D.C.
7. Miscellaneous costs NTE \$300 are authorized.

8. Contractor authorized to rent vehicle, but Mission is encouraged to support consultants local travel in Zaire to the extent possible and reasonable with Mission vehicles.
9. Mission and Dr. Isely should be contacted immediately and technical assistance initiated as soon as possible and convenient to U.S. A.I.D./Zaire.
10. Appreciate your prompt attention to this matter. Good luck!

ACTION
COPY

UNCLASSIFIED
Department of State

INCOMING
TELEGRAM

PAGE 01

KINSHA 07404 151543Z

6321 017630 AID621

ACTION AID-35

ACTION OFFICE AFDR-06

INFO AAAF-01 AFRA-03 AFCA-03 AADS-01 DSHE-01 AFDA-01 RELO-01
MAST-01 /018 A4 816

INFO OCT-01 /036 W

-----006745 151545Z /34

R 151513Z JUL 81
FM AMEMBASSY KINSHASA
TO SECSTATE WASHDC 0635
INFO AMEMBASSY BUJUMBURA

UNCLAS KINSHASA 07404

AIDAC
FOR ANDERSON, AFR/DR; WEHMAN, DS/HEA

E.O. 12065 N/A
SUBJECT ZAIRE - RURAL PRIMARY HEALTH (~~660-0086~~)

REF STATE 178143

1. MISSION CONCURS WITH VISIT O/A JULY 28 OF WASH PROJECT ASSOCIATE DIRECTOR, DR. RAY ISLEY.
2. SCOPE OF ACTIVITIES WOULD INCLUDE MEETINGS WITH ECZ MEDICAL ADVISORS MR. AND MRS. RALPH GALLOWAY AND MINISTRY OF HEALTH OFFICIALS, AS WELL AS STUDYING AND COMMENTING ON THE PROJECT PAPER. USAID BELIEVES TWO DAY TDY TO BE SUFFICIENT. PLEASE ADVISE EXACT ETA ASAP SO PREPARATIONS CAN BE MADE. OAKLEY

RECEIVED
JUL 16 4 29 PM '81
AFR/DR/CAHARAP

UNCLASSIFIED

55

WATER AND SANITATION FOR HEALTH (WASH) PROJECT
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 47

AMENDMENT NUMBER 1

December 16, 1981

TO: Dr. Dennis Warner, Ph.D., P.E.
WASH Contract Project Director

FROM: Victor W.R. Wehman, Jr., P.E., R.S. *VWR*
AID WASH Project Manager
S&T/HEA/CWSS

SUBJECT: OTD Number 47

1. Para. 2 of subject OTD Number 47 amended to read as follows:
"WASH contractor authorized to expend up to 15 person days of effort over a 3 month period to accomplish this technical assistance effort."
2. Para. 5 of subject OTD Number 47 amended to read as follows:
"Contractor authorized up to seven (7) person days of international/ domestic per diem to accomplish this mission."
3. Nothing follows.

VWR:ja



OTD #53

August 27, 1981

Participation in AID Health Officers
Workshop in Lome, Togo, 15-20 November 1981

WASH design and implementation assistance for the above workshop is requested by the Africa Bureau. Specifically, WASH is to prepare the agenda and educational materials for that portion of the workshop dealing with water supply and sanitation in relation to the proper planning and implementation of primary health care programs. The remainder of the agenda is being planned by the American Public Health Association.

The WASH consultant will work closely with the APHA to ensure that the content of the WASH material will meet APHA standards for continuing education credits for physicians. Materials will be prepared in both French and English.

For further information contact Dr. R. Isely.

This OTD authorizes up to twenty (20) person days for preparing and presenting educational materials and for debriefing. Authorization is provided for twenty-one (21) days of international travel time and per diem plus miscellaneous expenses to conduct the workshop in Lome. This allows for a maximum of three (3) persons to assist with workshop preparations, however, the number of persons to be sent to Lome will be determined later.

JEB/CIC
9/4/81

WATER AND SANITATION FOR HEALTH (WASH) PROJECT
ORDER OF TECHNICAL ASSISTANCE NUMBER 53

August 27, 1981

MEMORANDUM

TO: Dennis Warner, Ph.D., P.E.
WASH Project Director (Acting)

FROM: S&T/HEA, John H. Austin *John H. Austin*

THRU: S&T/HEA, Victor W.R. Wehman, Jr., P.E., R.S. *VWRW/HAJWW*
AID WASH Project Manager

SUBJECT: Participation in AID Health Officers' Workshop in Lome, Togo,
15-20 November 1981

REFS: 1. Letter Jim Shepperd to Vic Wehman, 30 April 1981
2. STATE 221236

1. The WASH contractor is requested to provide assistance to the Africa Bureau in the design and implementation of the Africa Region Health Officers Workshop in Lome, Togo, 15-20 November 1981 as per REF. 1 and 2 above.
2. Authorization is provided for up to 20 days for the preparation of workshop objectives, materials, Continuation Education Unit (CEU) forms and program and debriefing. All materials must be available in both French and English. All exceptions must be approved by Jim Shepperd.
3. Authorization is provided for 21 days of international travel time and per diem and miscellaneous expenses to conduct workshop in Lome. This is for a maximum of three persons to assist with the workshop. The actual number sent will be determined when the number of participants is finalized.
4. All efforts are to be approved by Jim Shepperd and coordinated with Sarita Henry, S&T/HEA (235-9649).
5. Capability for delivery of workshop must be in both French and English.
6. A debriefing should be held within 30 days of return of team from Lome for AFR/DR/HH and S&T/HEA..

58

AFRICA BUREAU HEALTH OFFICERS conference.

UNITED STATES INTERNATIONAL DEVELOPMENT COOPERATION AGENCY

AGENCY FOR INTERNATIONAL DEVELOPMENT

WASHINGTON, D.C. 20523

C-97

WASH Proj. DIR
ATTN: R. Isely

30 APRIL 80

Mr. Victor Wehman
Project Manager
WASH Project
DS/HEA
Rm. 309 - SA-16, RP
AID

Dear Mr. Wehman:

The American Public Health Association (APHA) has been contracted by the Agency for International Development (AID) to organize and conduct conferences and workshops on subjects vital to the promotion, development, operations and better understanding of primary health care and affordable health and family planning delivery systems.

APHA will plan, organize and conduct one conference a year in collaboration with AID. These conferences will be designed primarily to keep AID and AID contractors' field staff and national participants current on developments in the field of primary health care and to provide for the exchange of information about lessons learned from AID-assisted country programs and activities.

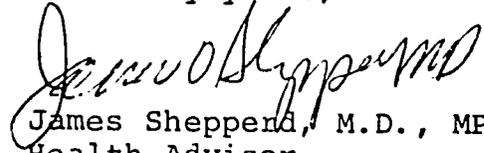
APHA and representatives of the Bureau for Africa are developing a provisional agenda based on subjects of interest from the field missions. Water and sanitation in relation to planning and implementing primary health care programs has been identified as one of the important subjects to be addressed in the conference in Africa. To ensure that the subject is addressed properly and AID's goals are reached, the Africa Bureau requests that the Water and Sanitation for Health Project (WASH) provide this agenda. The WASH Representative would work closely with the APHA planning committee to ensure that the content of the seminar will meet the APHA Standards for continuing education units for physicians.

- 2 -

Your early consideration of this request will be appreciated.

If you need further information please call me at 632-8175.

Sincerely yours,

A handwritten signature in cursive script, appearing to read "James Sheppard".

James Sheppard, M.D., MPH
Health Advisor
Bureau for Africa

Department of State

TELEGRAMS *Amelio*
8416 054879 AID3149

PAGE 01 STATE 221236
ORIGIN AID-35

8416 054879 AID3149

STATE 221236

ORIGIN OFFICE AFDR-06
INFO AAAF-01 AFEM-03 AFEA-03 AFSA-03 AFFW-04 AFCW-03 AFCA-03
PERS-05 AAST-01 CHGT-02 CTR-02 STHE-01 HNS-09 AFDA-01
RELO-01 IC-00 /248 AD

INFO CCT-00 INR-10 AF-10 SIG-83 OES-09 /067 R

DRAFTED BY AID/AFR/DR/HM: JANDERSON
APPROVED BY AID/AA/AFR FERUDDY
AID/AFR/DR LHEILMAN
AID/AFR/DR/HM JOEPPERD
AID/AA/AFR/DR JACEHRING
AID/AFR/DR/POP VTRAYFORS
AID/DS/HEA DFERGUSON
AID/PH/TO DCREEDON

-----225322 2088582 /22

- P 200614Z AUG 81
- FM SECSTATE WASHDC
- TO AMEMBASSY ABIDJAN PRIORITY
- AMEMBASSY ACCRA PRIORITY
- AMEMBASSY ADDIS ABABA PRIORITY
- AMEMBASSY BAHAKO PRIORITY
- AMEMBASSY BANJUL PRIORITY
- AMEMBASSY BISSAU PRIORITY
- AMEMBASSY BUJUMBURA PRIORITY
- AMEMBASSY CONAKRY PRIORITY
- AMEMBASSY COTONOU PRIORITY
- AMEMBASSY DAKAR PRIORITY
- AMEMBASSY DAR ES SALAAM PRIORITY
- AMEMBASSY DJIBOUTI PRIORITY
- AMEMBASSY FREETOWN PRIORITY
- AMEMBASSY GABORONE PRIORITY
- AMEMBASSY KAMPALA PRIORITY
- AMEMBASSY KANSASVILLE PRIORITY
- AMEMBASSY KIGALI PRIORITY
- AMEMBASSY KINSHASA PRIORITY
- AMEMBASSY LAGOS PRIORITY
- AMEMBASSY LILONGWE PRIORITY
- AMEMBASSY LUSAKA PRIORITY
- AMEMBASSY MASERU PRIORITY
- AMEMBASSY MBABANE PRIORITY
- AMEMBASSY MOSADISIKU PRIORITY
- AMEMBASSY MONROVIA PRIORITY
- AMEMBASSY NAIROBI PRIORITY
- AMEMBASSY NIAMEY PRIORITY
- AMEMBASSY NOUAKCHOTT PRIORITY
- AMEMBASSY OUAGADOUGOU PRIORITY
- AMEMBASSY PRAIA PRIORITY
- AMEMBASSY YAOUNDE PRIORITY
- AMEMBASSY LOME PRIORITY
- AMEMBASSY SALISBURY PRIORITY

33 countries

UNCLAS STATE 221236

AIDAC

E.O. 12855: N/A

TAGS:

SUBJECT: CONTINUING EDUCATION TRAINING PROGRAM ON PRIMARY HEALTH CARE (PHC) IN AFRICA

REF: STATE 28312

1. THE SUBJECT TRAINING PROGRAM SPONSORED BY THE BUREAU FOR AFRICA WITH SUPPORTING SERVICES OF THE BUREAU OF SCIENCE AND TECHNOLOGY AND THE OFFICE OF PERSONNEL MANAGE-

MENT IS SCHEDULED TO BE HELD IN LOME, TOSO, NOVEMBER 15-20, 1981. THE PROGRAM WILL BE IMPLEMENTED BY THE AMERICAN PUBLIC HEALTH ASSOCIATION (APHA) UNDER THE ACCELERATED DELIVERY SUPPORT CONTRACT (ADSS).

2. THE PURPOSE OF THE TRAINING PROGRAM IS TO PROVIDE AN OPPORTUNITY FOR A.I.D. HEALTH OFFICERS, PHC PROJECT COORDINATOR HEALTH OFFICERS AND THEIR AFRICAN COUNTERPARTS:

TO LEARN ABOUT NEWER PHC CONCEPTS AND TECHNOLOGIES;
TO SHARE THEIR EXPERIENCES IN DEVELOPMENT PROGRAMS;
TO EXCHANGE APPROACHES TO SOLVING IMPLEMENTATION PROBLEMS;
TO EARN CONTINUING EDUCATION CREDITS REQUIRED TO MAINTAIN THEIR PROFESSIONAL LICENSES.

3. THE TRAINING PROGRAM WILL FOCUS ON THREE COMPONENTS OF PHC TO ALLOW IN-DEPTH STUDY OF THE SUBJECT MATTER: THE INTEGRATION OF POTABLE WATER SUPPLIES; THE INTEGRATION OF ORAL REHYDRATION TREATMENT; AND THE ROLE OF COMMUNITY PARTICIPATION IN PHC PROGRAMS. TOPICS WILL INCLUDE: PRACTICAL CONCEPTS AND PRINCIPLES IN INTEGRATING WATER SUPPLY AND SANITATION WITH HEALTH, POPULATION AND NUTRITION PROGRAMS; SETTING HEALTH OBJECTIVES AND MEASURING ACHIEVEMENTS OF WATER SUPPLY SANITATION COMPONENTS; PRACTICAL PRINCIPLES OF INTEGRATING ORAL REHYDRATION IN PHC; STRENGTHENING THE COMMUNITY PARTICIPATION COMPONENT AND MOBILIZING COMMUNITY RESOURCES FOR PHC; TRAINING FOR COMMUNITY LEVEL ACTIVITIES. SEMINAR METHODS INCLUDE PRESENTATIONS, CASE STUDIES, DISCUSSIONS, REVIEW OF SELECTED READINGS. THE FACULTY TEAM OF U.S. AND AFRICAN SPECIALISTS WITH EXPERIENCE IN AFRICA IS BEING RECRUITED AND WILL BE ANNOUNCED.

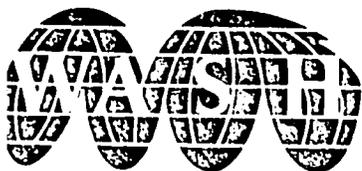
4. SIMULTANEOUS TRANSLATION INTO FRENCH WILL BE AVAILABLE.

5. APHA WILL DIRECT TRAINING PROGRAM PLANNING, SECURE FACULTY, ARRANGE FOR SEMINAR FACILITIES, PROVIDE MEETING SUPPORT SERVICES, ARRANGE FOR ACCREDITATION OF THE CONTINUING EDUCATION COMMITTEES OF THE APPROPRIATE PROFESSIONAL ORGANIZATIONS, CARRY OUT POST SEMINAR EVALUATION AND REPORTING. THE STEERING COMMITTEE OF FIELD OFFICERS WILL BE EXPECTED TO SERVE AS A RESOURCE TO THE FACULTY AND TO MS. ALBERTA BRADFELD, APHA, FOR PRE-SEMINAR PLANNING AND DURING THE SEMINAR.

6. ATTENDANCE OF ONE AFRICAN COUNTERPART FROM EACH HOST COUNTRY IS ENCOURAGED. REGRETTABLY APHA LACKS THE FUNDS TO COVER TRAVEL OF ALL AFRICAN COUNTERPARTS. MISSIONS ARE URGED TO PROVIDE FOR THEIR TRAVEL UTILIZING PROJECT OR TRAINING FUNDS.

7. MISSIONS ARE REQUESTED TO COMMENT AND INDICATE ATTENDANCE PLANS TO AFR/DR/HM, DR. J. SNEPPERD/MS. J. ANDERSON, CLARK

UNCLASSIFIED



OTD 60

October 6, 1981

Technical Assistance in Water Supply and
Sanitation Planning and Training - Sudan

WASH contractor is requested to supply technical assistance in assessing and making recommendations in relation to USAID/Sudan planning efforts in water supply and sanitation in six project areas. These are:

1. Northern Primary Health Care Project - a regional project to construct new health centres in North and South Kordofan Provinces;
2. Rural Health Support - a national dispensary and school construction project contracted to the African Medical Research Foundation of Nairobi;
3. Reafforestation Program - provision of potable water to farmers in this program in conjunction with CARE;
4. Refugee camps on three borders of Sudan - WS&S requirements;
5. Port Sudan Refugee Water Supply Project-in conjunction with CARE;
6. Darfor Region - study of allocation of water for domestic, livestock and agricultural uses.

For further information, contact Dr. R. Isely.

Up to ninety-five (95) person days over a three (3) month period, ninety (90) days of international and/or domestic per diem and three (3) international airfare round trips are authorized for this OTD. Seven day week, hiring of secretarial/interpreter services not to exceed twenty-five (25) days, and miscellaneous expenses not to exceed \$2,000 are also authorized.

JEB/CIC
10/19/81

MEMORANDUM

October 6, 1981

WATER AND SANITATION FOR HEALTH (WASH) PROJECT
ORDER OF TECHNICAL DIRECTION NUMBER 60

TO: Dr. Dennis Warner, Ph.D., P.E.
WASH Project Director

FROM: Mr. Victor W.R. Wehman, Jr., P.E., R.S. *VWR*
AID WASH Project Manager

SUBJECT: Provision of Technical Assistance Under WASH Project Scope of Work
for USAID/Sudan.

REFS: A) Khartoum 08159
B) Khartoum 03038
C) Khartoum 07720
D) Khartoum 06506
E) Khartoum 06143

1. WASH contractor requested to provide technical assistance to USAID/Sudan as per Ref. D., para. 1-5 and Ref. A, para. 4.d. Scope of Work.
2. WASH contractor/sub-contractor/consultants authorized to expend up to 95 person days effort over a three (3) month period to accomplish this technical assistance effort.
3. Contractor to provide draft final report to mission before leaving field. Consultants to return to WASH office in Rosslyn, Virginia to complete final versions of reports and for debriefing purposes before returning to consultant's home base. Final report due in S&T/HEA and mission within 30 days of consultant's finishing technical assistance mission and leaving Sudan.
4. Contractor to coordinate directly with USAID/Sudan (Dr. Micha). Ensure that this OTD is provided to and discussed with AFR/DR/IN (Dr. Shepperd), AFR/DR/ENGR (Mr. Gould and/or Mr. Snead), and Sudan desk officer. Keep these people apprised of progress, ETA's, etc.
5. Ninety (90) days of international or domestic per diem is hereby authorized.
6. Three international airfare round trips are authorized from consultant's home base to WASH CIC, to Khartoum, Sudan, to WASH CIC and return to home base.
7. Local travel and transportation within Sudan is authorized as necessary. WASH contractor authorized to rent car, vehicle, pay taxis or rent animals as appropriate to accomplish mission inside Khartoum and outside Khartoum.
8. Seven day work week authorized if necessary and proper and certified by team leader and WASH project director.

Sheely
Graham & McKee, Inc.
WASH PROJECT
OCT 6 1981

9. Miscellaneous expenses authorized NTE \$2,000.
10. Contractor authorized to hire secretarial/interpreter services up to and NTE 25 person days to accomplish mission.
11. Contractor personnel should take 35 mm camera and take well composed photo essay of conditions to assist WASH CIC in debriefing and in allowing CIC staff to better understand water supply and sanitation and PHC problems of Sudan. Recommend contractor take 10 rolls of 36 black and white print film with team.
12. Mission and consultants should be contacted immediately and technical assistance initiated as soon as possible or convenient to USAID/Sudan. Ensure WASH consultants are well backstopped during period of technical assistance.
13. Contractor should require 7-10 day detailed progress reports by team leader by cable to WASH CIC.
14. Appreciate your prompt attention to this matter.

VWV:ja

16 Sept 81

UNCLASSIFIED
Department of State

INCUMBING TELEGRAM
KHARTO 08159 01 OF 02 160746Z 5815 079767 AID0598

PAGE 01 KHARTO 08159 01 OF 02 160746Z 5815 079767 AID0598
ACTION AID-35

ACTION OFFICE AFDR-05
INFO AARF-01 AFEA-03 PPCE-01 PPEH-01 PDPR-01 PPPB-03 FH-02
PERS-05 AACT-01 STAG-02 STEY-01 SINE-01 ENGN-02 POP-04
AFDA-01 CHIO-01 TRSY-05 RELO-01 DAEN-01 MAST-01 AFPH-01
/045 A4 816

INFO OCT-01 AF-10 EB-05 AGRE-00 OES-00 /033 W
-----225736 160810Z /14

P 160539Z SEP 81
FM AMEMBASSY KHARTOUM
TO RUEHC/SECSTATE WASHDC PRIORITY 2310
INFO AMEMBASSY NAIROBI PRIORITY

UNCLAS SECTION 1 OF 2 KHARTOUM 8159

AIDAC

E.O. 12055: N/A
SUBJECT: FY 1982 PROJECT SCHEDULING PLANS

REF: (A) STATE 240823, (B) KHARTOUM 7720 (C) STATE 196527

1. BELOW IS LISTING AND SCHEDULING OF SIGNIFICANT FY 1982 PROJECT DESIGN/IMPLEMENTATION AND RELATED ACTIVITIES FOR USAID/SUDAN, WHICH REQUIRE SUPPORT BEYOND MISSION STAFFING CAPABILITIES. PER REF A PARA 5, PRIORITIES ARE INDICATED AS HIGH, MEDIUM, OR LOW.

2. ENERGY SECTOR:
A. ENERGY SECTOR STRATEGY FORMULATION; MEDIUM PRIORITY. NOVEMBER 1981. PERSONNEL REQUIREMENTS: MISSION: ENERGY OFFICER, PROGRAM OFFICER, SOCIAL SCIENTIST AND CAPITAL PROJECTS DEVELOPMENT OFFICER FOR 2 WEEKS.
REDSO: REFORM ENERGY OFFICER FOR 2 WEEKS.

B. RURAL RENEWABLE ENERGY PROJECT (G50-0041); LOP AMT \$4,600,000; CONTRACTING ACTION: MEDIUM PRIORITY. OCTOBER 1981 TWO-WEEK REQUIREMENT FOR REDSO (OR AIR/W) CONTRACTING OFFICER TO ASSIST MISSION (I) PREPARE/ISSUE RFP AND ESTABLISH SELECTION/CONTRACTING PROCEDURES FOR MAJOR TA CONTRACT; (II) DEVELOP PROCEDURES FOR MAKING RENEWABLE ENERGY DEVELOPMENT GRANTS. FEBRUARY 1982 TWO-WEEK REQUIREMENT FOR REDSO (OR AID/W) CONTRACTING OFFICER TO ASSIST WITH NEGOTIATION WITH FIRM SELECTED TO PROVIDE TA. FUNDING: FY-1982 - \$2.0 MILLION; FY 1983 - \$2.588 MILLION.

3. AGRICULTURE SECTOR:
A. SOUTHERN MAINPOWER DEVELOPMENT (G50-0021); LOP AMOUNT \$5.94 MILLION; EVALUATION; HIGH PRIORITY. FEBRUARY 1982 PERSONNEL REQUIREMENTS; MISSION: EVALUATION OFFICER, PROJECT MANAGER AND AGRICULTURAL OFFICER FOR TWO WEEKS. OTHER: OUTSIDE AGRICULTURE TRAINING SYSTEMS CONSULTANTS FOR ONE MONTH.

B. WESTERN SUDAN AGRICULTURE RESEARCH (G50-0020); LOP AMT \$26 MILLION; EVALUATION; MEDIUM PRIORITY. JUNE 1982 PERSONNEL REQUIREMENTS: MISSION: EVALUATION OFFICER, PROJECT MANAGER AND SENIOR AGRICULTURE OFFICER. OTHER: OUTSIDE AGRICULTURE RESEARCH AND EXTENSION AND AGRICULTURE DEVELOPMENT CONSULTANTS FOR ONE MONTH. FUNDING: FY 1982 - \$2.84 MILLION.

C. BLUE NILE INTEGRATED AGRICULTURAL DEVELOPMENT (G50-0015); LOP AMT \$1250 MILLION; EVALUATION HIGH PRIORITY. DECEMBER 1981. PERSONNEL REQUIREMENTS: MISSION EVALUATION OFFICER AND PROJECT

MANAGER.
OTHER: OUTSIDE AGRONOMIST AND AGRICULTURE DEVELOPMENT EXPERTS, EACH FOR ONE MONTH.
FUNDING: FY - 1982 - \$2,505 MILLION
D. AGRICULTURE PRODUCTION & MARKETING (G50-0054); LOP AMT \$30 MILLION; PID/PP PREPARATION HIGH PRIORITY.
PID: BEGINS NOVEMBER 1981; SUBMITTED TO AID/W DECEMBER 1981.

PERSONNEL REQUIREMENTS; MISSION: AGRICULTURE OFFICER, AGRICULTURE ECONOMIST, SOCIAL SCIENTIST, CAPITAL PROJECTS DEVELOPMENT OFFICER AND ENVIRONMENTAL OFFICER.
PP: BEGINS MARCH 1982. SUBMITTED TO AID/W APRIL 1982
PERSONNEL REQUIREMENTS: MISSION: SAME AS ABOVE
OTHER: 6 PERSONS MONTHS OF TECHNICAL EXPERTISE INCLUDING SKILLS, RELATED TO PRIVATE SECTOR SUPPORT FOR AGRIC. PRODUCTION AND MARKETING.
FUNDING: FY 1982 - 16 MILLION; FY 1983 - 1.867 MILLION
E. SOUTHERN REGION AGRICULTURE DEVELOPMENT (G50-0046) LOP AMT 120 MILLION; PID/PP PREPARATION: HIGH PRIORITY. PID: BEGINS NOVEMBER 1981. SUBMITTED TO AID/W DECEMBER 1981.
PERSONNEL REQUIREMENTS: MISSION: SAME AS PARA 3 D ABOVE. PP BEGINS FEBRUARY 1982. SUBMITTED TO AID/W MARCH 1982
PERSONNEL REQUIREMENTS: MISSION: SAME AS PARA 3 D ABOVE
OUTSIDE: SIX PERSON-MONTHS OF TECHNICAL EXPERTISE.
FUNDING FY 1982 - \$7,255 MILLION; FY 1983 - 2.745 MILLION.
F. PL 480 TITLE III. LOP AMT. \$100 MILLION; EVALUATION AND PERIODIC REVIEWS; MEDIUM PRIORITY.
PERSONNEL REQUIREMENTS: REDSO REGIONAL FOOD FOR PEACE OFFICER (RFFPO). OCTOBER 1981 - 1 WEEK; DECEMBER 1981 - 1 WEEK. JUNE 1982 - 1 WEEK AND SEPTEMBER 1982 - 1 WEEK.
FUNDING FY 1982 - 120 MILLION; FY 1983 - 120 MILLION.
G. PL 480 TITLE II. OUTSIDE GRANT \$1 MILLION. EVALUATION OF FIRST EIGHTEEN MONTHS OF ACTIVITY. MEDIUM PRIORITY. PERSONNEL REQUIREMENTS: REDSO RFFPO FOR 10 DAYS. JANUARY 1982. DAVISON

65

PAGE 01 KHARTO 08159 02 OF 02 160759Z 5816 079768 A100599
ACTION: AID-35

KHARTO 08159 02 OF 02 160759Z 5816 079768 A100599
AND CAPITAL PROJECTS DEVELOPMENT OFFICER.
REDSO: SENIOR ROAD ENGINEER FOR ONE WEEK.
OTHER: ROAD ECONOMIST FOR ONE MONTH. FUNDING: FY -1983-120MILLION
D. RIVER TRANSPORT; LOP AMT TO BE DETERMINED; DETERMINE
POSSIBILITIES OF USE PL 160 AND CIP LOCAL CURRENCY PROCEEDS, CIP
US GOODS AND/OR SEPARATE PROJECT TO SUPPORT RIVER NAVIGATION
IN SUDAN IN SUPPORT OF AGRICULTURAL PRODUCTION; HIGH PRIORITY.
NOVEMBER/DECEMBER 1981. TWO PERSON MONTHS OF OUTSIDE RIVER
NAVIGATION TRANSPORT/AIDC EXPERTISE.

ACTION OFFICE AFDR-06
INFO AARF-01 AFEA-03 PPCE-01 PPEH-01 PPR-01 PPP-03 FII-02
PERS-05 AAST-01 STAG-02 STEY-01 SINE-01 ENGR-02 POP-04
AFDA-01 CHLO-01 TRSY-05 RELO-01 DACH-01 NAST-01 AFPH-01
/045 A4 816

INFO OCT-01 AF-10 EB-06 AGRE-00 OES-09 /063 W
-----226253 160818Z /14

P 160639Z SEP 81
FM AMEMBASSY KHARTOUM
TO SECSTATE WASHDC PRIORITY 2311
INFO AMEMBASSY NAIROBI PRIORITY

UNCLAS SECTION 2 OF 2 KHARTOUM 8159

AIDAC

4. HEALTH SECTORS

A. NORTHERN PRIMARY HEALTH CARE (650-0011); LOP AMT \$5.663
MILLION; EVALUATION MEDIUM PRIORITY; MID JANUARY 1982

PERSONNEL REQUIREMENTS: MISSION: HEALTH OFFICER, ENGINEER,
EVALUATION OFFICER (PART TIME ONLY). AID/W: EVALUATION OFFICER
AS TEAM-LEADER.

OTHER: LOGISTICS, ARABIC SPEAKING TRAINING, PRIMARY HEALTH
CARE AND DATA ANALYST SPECIALIST. OUTSIDE CONSULTANTS EACH
FOR 4 WEEKS.

FUNDING: FY 1982 - \$3.3 MILLION.

B. SOUTHERN PRIMARY HEALTH CARE (650-0019); LOP AMT \$3.7MILLION;
EVALUATION, MEDIUM PRIORITY. MARCH 1982.

PERSONNEL REQUIREMENTS: MISSION: HEALTH OFFICER AND ENGINEER
AND EVALUATION OFFICER (PART TIME ONLY). REDSO: HEALTH
ECONOMIST.

AID/W: HEALTH OFFICER, OUTSIDE; BEHAVIORAL SCIENTIST,
LOGISTICS AND DATA ANALYST SPECIALIST. EACH FOR ONE MONTH.

C. DEVELOPMENT OF IMPLEMENTATION PLAN FOR POPULATION STRATEGY
LOP AMT \$3 MILLION; STRATEGY FORMULATION AND PID PREPARATION:
MEDIUM PRIORITY.

STRATEGY FORMULATION: NOVEMBER 1981

PERSONNEL REQUIREMENTS: MISSION: HEALTH OFFICER AND PROGRAM
OFFICER.

AID/W POPULATION OFFICER; OTHER: 2 SPECIALISTS. EACH ONE
MONTH. PID PREPARATION. BEGIN MARCH 1982 AND SUBMIT TO
AID/W AUGUST 1982. PERSONNEL REQUIREMENTS: MISSION: HEALTH
OFFICER, PROGRAM OFFICER, SOCIAL SCIENTIST, CAPITAL PROJECTS
DEVELOPMENT OFFICER. OTHER: SIX PERSON MONTHS OF POPULATION
ASSISTANT.

D. WATER AND SANITATION IN HALTH (WASH); SUBSECTOR REVIEW
AND STRATEGY FORMULATION: LOW PRIORITY.

OCTOBER-NOVEMBER 1981

PERSONNEL REQUIREMENTS: MISSION: HEALTH OFFICER, PROGRAM
OFFICER, ENGINEER AND SOCIAL SCIENTIST (PART TIME ONLY).

OUTSIDE: 3 PERSON INTERDISCIPLINARY WASH TEAM, FOR 6 WEEKS.

5. INFRASTRUCTURE IN SUPPORT OF AGRICULTURE/HEALTH SECTORS.

A. PORT SUDAN REFUGEE WATER SUPPLY (650-0050); LOP AMT
\$2.0 MILLION ENGINEERING REVIEW OF FINAL DESIGN: HIGH PRIORITY.
DECEMBER 1981 FOR 1 WEEK.

PERSONNEL REQUIREMENTS: REDSO ENGINEER ALONG WITH MISSION ENGINEER.

B. SOUTHERN SUDAN ACCESS ROAD (650-0036); LOP AMT 110
MILLION; ENGINEERING MONITORING OF ROAD CONSTRUCTION; HIGH
PRIORITY. PERSONNEL REQUIREMENTS: ONE WEEK PER MONTH OF REDSO
SENIOR ROAD ENGINEER DURING FY 1982.

C. SOUTHERN RURAL SUDAN INFRASTRUCTURE PHASE II (650-0043);
LOP AMT \$20 MILLION; PID PREPARATION: MEDIUM PRIORITY.
BEGIN JUNE 1982. SUBMIT TO AID/W JULY 1982.

PERSONNEL REQUIREMENTS: MISSION: ENGINEER, SOCIAL SCIENTIST

6. DEVELOPMENT MANAGEMENT SECTOR.
A. SUDAN REGIONALIZATION PROJECT; LOP AMT \$3.0 MILLION;
PID AND PP PREPARATION: HIGH PRIORITY.
PID BEGINS SEPTEMBER 1981. SUBMITTED TO AID/W NOVEMBER 1981
PERSONNEL REQUIREMENTS: MISSION: PROJECT MANAGER, ECONOMIST
SOCIAL SCIENTIST AND CAPITAL PROJECTS DEVELOPMENT OFFICER.
AID/W: ECONOMIST FOR 2 WEEKS.
PP BEGINS MARCH 1982. SUBMITTED TO AID/W APRIL 1982
PERSONNEL REQUIREMENTS: SAME AS ABOVE FOR PID PLUS 3 OUTSIDE
CONSULTANTS IN FINANCE, PUBLIC ADMINISTRATION AND DECENTRAL-
IZATION POLICY. EACH FOR ONE MONTH.
FUNDING: FY 1982 - \$1 MILLION; FY 1983 - \$2 MILLION

7. HOPE ABOVE PROVES USEFUL TO AFR/DR AND REDSO FOR FY 1982.
PROJECT SCHEDULING.
STEVEN HINTZ, USAID CAPITAL PROJECTS DEVELOPMENT OFFICER,
WILL REPRESENT MISSION AT SUBJECT CONFERENCE IN NAIROBI
ETA TO FOLLOW SEPT. DIVISION

*had a health care workshop
for this!*

COPY

Department of State

TELEGRAM

PAGE 01 KHARTO 06506 21112

6796 022400 AID0436

TO 06506 211120Z

6796 022400 AID0436

ACTION OFFICE DSHE-01
INFO AAFF-01 AFEA-03 AFOP-02 AFDR-06 PPCE-01 POPR-01 PPPB-03
PPEA-01 AADS-01 AFDA-01 RELO-01 MAST-01 /0.1 J A1 1123

INFO OCT-01 /036 V

R 211025Z JUL 81
FM AMEMBASSY KHARTOUM
TO SECSTATE WASHDC 1468
INFO AMEMBASSY NAIROBI

UNCLAS KHARTOUM 6506

AIDAC

AID/W FOR DS/HEA/EH
NAIROBI FOR REDSO

E.O. 12065: N/A

TAGS:

SUBJ: WASH PROJECT REQUEST FOR ASSISTANCE

REF: (A) STATE 278993 (B) KHARTOUM 6143

1. USAID REQUESTS SUBJECT PROJECT SERVICES PER REF (A) TO ASSIST WITH ASSESSMENT OF WATER-RELATED ISSUES ASSOCIATED WITH CURRENT HEALTH PROJECTS AND BROADER WATER QUESTIONS SPECIFIC TO SUDAN. USAID INVOLVEMENT WITH SEVERAL WATER-RELATED ACTIVITIES INVARIABLY LEADS TO QUESTIONS OF ENVIRONMENTAL IMPACT, HEALTH AND SANITATION IMPLICATIONS, WATER RESOURCE COMPETITION, MISMANAGEMENT, ETC.

2. USAID REQUESTS WASH COLLABORATION WITH TWO ON-GOING HEALTH PROJECTS.

- NORTHERN PRIMARY HEALTH CARE (650-0011)
THIS PROJECT WILL BE CONSTRUCTING 20 NEW CLINICS IN NORTH AND SOUTH KORDOFAN PROVINCES. EACH CLINIC HAS PLANS FOR WATER/SANITATION FACILITIES. REQUEST WASH REVIEW PLANS FOR APPROPRIATENESS AND MAINTENANCE REQUIREMENTS.

- RURAL HEALTH SUPPORT (650-0030)
THIS PROJECT WILL BE CONSTRUCTING 12 DISPENSARIES AND 5 SCHOOLS IN DARFUR, KORDOFAN AND SOUTHERN REGIONS EACH WITH WATER/SANITATION FACILITIES.

REQUEST WASH COLLABORATION AS ABOVE.

J. USAID HAS SUBMITTED PROPOSAL FROM PVO CARE, REFTEL B, FOR A WATER-WELL PROJECT IN NORTH KORDOFAN PROVINCE. USAID REQUESTS ON-SITE COLLABORATION WITH CARE TO REVIEW TECHNICAL QUESTIONS INCLUDING POSSIBLE ALTERNATIVES TO DEEP BORE HOLES, AS WELL AS RECOMMENDATIONS FOR MAINTENANCE TRAINING.

4. USAID REQUESTS WASH TO UNDERTAKE DIALOGUE WITH GOS AND UNHCR REGARDING POSSIBLE REFUGEE RELATED WATER/SANITATION PROJECTS IN EASTERN PROVINCES.

5. USAID PROPOSES WASH TEAM OF 1-3 PERSONS WORK IN COUNTRY 4-6 WEEKS BEGINNING AFTER RAINS, O/A MID OCTOBER. TEAM SHOULD BE MULTIDISCIPLINARY, ENGLISH SPEAKING, ABLE TO TRAVEL IN RURAL AREAS. FUNDS SHOULD BE PROVIDED TO COVER COST OF TRANSPORTATION WITHIN KHARTOUM. USAID CAN FURNISH ACCESS TO USAID PLANE FOR TRIPS OUTSIDE KHARTOUM, HOTEL ACCOMMODATIONS IN KHARTOUM ONLY AND AIRPORT CLEARANCE. FYI-USAID DOES NOT, REPEAT NOT, PRESENTLY HAVE ENGINEER ON STAFF, THOUGH WE HOPE TO HAVE ONE BY THE TIME WASH TEAM ARRIVES.
KIRBY

WEHARTO

Please note
K

Passed to WASH
view
7/31/81

I am familiar
with this project.
Dan

Consultants should have physical stamina and high tolerance of hardships.

Harry Brown would be excellent on this.

UNCLASSIFIED

67

WATER AND SANITATION FOR HEALTH (WASH) PROJECT
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 60

AMENDMENT NUMBER 1

December 11, 1981

TO: Dr. Dennis Warner, Ph.D., P.E.
WASH Contract Project Director

FROM: Victor W.R. Wehman, Jr., P.E., R.S. *VWW*
AID WASH Project Manager
S&T/HEA/CWSS

SUBJECT: Provision of Technical Assistance Under WASH Project Scope of Work
for USAID/Sudan

REFS: A) KHARTOUM 08159
B) KHARTOUM 08038
C) KHARTOUM 07720
D) KHARTOUM 06506
E) KHARTOUM 06143

1. Para. 2 of subject OTD #60 amended to read as follows:

"WASH contractor/subcontractor/consultants authorized to expend up to 140 person days effort over a four (4) month period to accomplish this technical assistance effort.

2. Para. 5 of subject OTD #60 amended to read as follows:

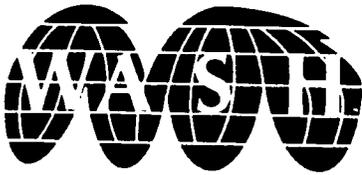
"One hundred and twenty-two (122) person days of international or domestic per diem is hereby authorized."

3. Para. 6 of subject OTD #60 amended to read as follows:

"Three international airfare round trips are authorized from consultant's home base to WASH CIC to Khartoum, Sudan, to WASH CIC and return to home base. Two additional round trips from consultant's home base to WASH CIC and return to consultant's home base is authorized for the purpose of finalizing OTD #60 final report to USAID/Sudan and delivering debriefing for Africa Bureau and S&T/HEA."

4. Nothing follows.

VWW:ja



OTD 64

October 20, 1981

Technical Assistance for Well Siting - Mali

USAID/Mali requested technical assistance for recommending siting of twenty-nine (29) wells in twenty-five villages of the First Region of Mali (Yalimane Circle). WASH consultant should be a qualified hydrogeologist with experience in siting hand-dug and borehole wells using aerial photography, soil resistivity tests and investigative drilling. Field experience in the Sahel and French language capability are also desirable.

For further information, contact Dr. R. Isely.

Up to fifty (50) person days over a three (3) month period, forty-four (44) person days of international and domestic per diem, and one (1) international airfare round trip are authorized by this OTD. Seven day weeks, in-country travel, and local secretarial and interpreter services not to exceed \$2,500 are also authorized by this OTD.

JEB/CIC
10/27/81

MEMORANDUM

October 20, 1981

WATER AND SANITATION FOR HEALTH (WASH) PROJECT WASH PROJECT
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 64

Camp, Dresser & McKee, Inc.

OCT 23 1981

TO: Dr. Dennis Warner, Ph.D., P.E.
WASH Project Director

FROM: Mr. Victor W.R. Wehman, Jr., P.E., R.S. *VWR*
AID WASH Project Manager

SUBJECT: Provision of Technical Assistance Under WASH Project Scope of Work
for USAID/Mali

REFS: A) BAMAKO 6234
B) STATE 261645
C) BAMAKO 03600
D) STATE 107022

1. WASH contractor requested to provide technical assistance to USAID/Mali as per REF. C, para. 1-4, scope of work. One hydrogeologist consultant, French fluency with expertise in Mali or in the Sahel preferred, if possible.
2. WASH contractor/sub-contractor/consultants authorized to expend up to fifty (50) person days effort over a three (3) month period to accomplish this technical assistance effort.
3. Contractor to coordinate directly with USAID/Mali (Lewis Lunce or Thomas Park), AID/Mali desk officer, AFR/DR/ENGR (Mr. J. Snead) and AFR/DR/HN (Dr. Shepperd or his representative). Contractor should keep above individuals apprised of ETA's and project progress as appropriate. Ensure individuals above receive copies of this OTD.
4. Forty-four (44) person days of international and domestic per diem is hereby authorized.
5. One (1) round trip from consultant's home base to Washington, D.C. (for briefing) to Bamako, Mali and return through Washington (for debriefing) to consultant's home base is authorized.
6. Local in-country travel is authorized as necessary to accomplish scope of work. If necessary, consultants authorized rental of local vehicles and conveyances, rental of local personal services (liaison, interpreter, typing, etc.) as necessary NTE \$2,500 without approval and authorization by AID Project Manager.
7. Seven day work week is authorized if mission verifies 7 day work week necessary, certified by consultant and Project Director upon consultant return to WASH for debriefing.

8. WASH consultant requested to take 35 mm camera and film to take representative group of 35 mm slides to adequately portray environmental health situation in Mali for purposes of debriefing and educating other WASH CIC and consultant staffs.
9. Mission and consultant should be contacted immediately and technical assistance initiated as soon as possible or convenient to USAID/Mali. WASH CIC should ensure backstopping of consultants.
10. Appreciate your prompt attention to this matter. Good Luck!

ACTION COPY

16 June 81

UNCLASSIFIED

Department of State

INCOMING TELEGRAM

PAGE 01
ACTION AID-35

BAMAKO 03600 161129Z

9754 028752 AID4110

ACTION OFFICE	AFDR-05						
INFO	AAAF-01	AFRA-03	AFFW-04	STA-10	AADS-01	DSHE-01	CH8-01
	AFDA-01	RELO-01	MAST-01	/030 A4	816		

INFO OCT-01 /036 W

-----025524 161129Z /34

P 160900Z JUN 81
FM AMEMBASSY BAMAKO
TO SECSTATE WAHSDC PRIORITY 2907

UNCLAS BAMAKO 3600

AIDAC

FOR AFR/DR/SWAP SIMMONS; DS/HEA/EH

E.O. 12065: N/A
SUBJ. WATER AND SANITATION FOR HEALTH PROJECT (WASH) CONSUL-
TANCY REQUEST FOR MALI

REF: WASH PAMPHLET

1. PROBLEM: USAID/MALI REQUESTS THE TDY SERVICES OF A WASH CONSULTANT GEOLOGIST WHO WILL MAKE RECOMMENDATIONS ON THE SITING OF APPROXIMATELY 25 WELLS PLANNED FOR JOINT FINANCING BY MALIAN VILLAGERS AND AID IN THE FIRST REGION OF MALI UNDER THE PROPOSED YELIMANE/TAMBACARA VILLAGE WELLSA. I. P. (625-0937) SUBJECT A. I. P. IS CURRENTLY UNDERGOING PREPARATION OF PID AND REPLY AS TO CONSULTANT AVAILABILITY WILL ESPEDITE PID COMPLETION.

2. SCOPE OF SERVICES REQUIRED: CONSULTANT SHOULD BE A QUALIFIED GEOLOGIST WITH EXPERIENCE IN SITING OF HAND-DUG WELLS USING AERIAL PHOTOGRAPHY, SOIL RESISTIVITY TESTS AND SOME INVESTIGATIVE DRILLING. DURATION OF PROPOSED DUTIES SHOULD BE APPROXIMATELY FIVE WEEKS TENTATIVELY BROKEN UP AS FOLLOWS: REVIEW OF AERIAL PHOTOGRAPHS IN BAMAKO (ONE WEEK); INVESTIGATIVE PRELIMINARY CONSULTATIONS WITH GRM HYDRAULICS OFFICE !! 9.3 233 0; CONSULTATIONS WITH REGIONAL GRM WELL-DIGGING AUTHORITIES AT REGIONAL CAPITAL OF KAYES (THREE DAYS); VISITS TO WELL SITES (TWO WEEKS); CONSULTATIONS WITH LOCAL WATER COMMITTEE IN YELIMANE (THREE DAYS). CONSULTANT SHOULD IDEALLY HAVE PRIOR SAHELIAN EXPERIENCE. FSI RATING OF 3 IN FRENCH IS HIGHLY DESIRABLE.

3. COORDINATING ORGANIZATION/CONTACT PERSONS: USAID/BAMAKO; LEWIS LUNCE, DEO, THOMAS PARK, GDO/HLS.

4. TIMING: IDEAL CONSULTANT ARRIVAL SHOULD BE NOVEMBER 16 THROUGH DECEMBER 18, 1981.

5. PLEASE ADVISE CONSULTANT AVAILABILITY.
WAUCHOPE

Craig Haffner

WASH Project

pick-up.

72

UNCLASSIFIED



OTD 75

December 23, 1981

Development of The National Sanitation
Environmental Education Master Plan - Tanzania

AID/Tanzania requested WASH technical assistance to develop the plan recommended in OTD Field Trip Report No. 7 of March 9, 1981, "Tanzania - A National Environmental Sanitation Education Master Plan - A Preliminary Review." The scope of work includes collection of relevant information on training and on the status of water supply and sanitation programs and projects in Tanzania and the development of the Master Plan based on the Field Trip Report. The Plan will outline educational objectives, operational strategies, roles of participating institutions, implementation requirements and schedules, evaluation procedures and estimated financial needs.

For further information, contact Dr. D. Warner.

Up to one hundred and seventy person days and one hundred and twenty-five international per diem days are authorized over a six month period. Seven international round trips to Tanzania and up to \$4,000 for miscellaneous, secretarial and drafting expenses, plus local travel in Tanzania, are also authorized.

JEB/CIC
1/7/82

WATER AND SANITATION FOR HEALTH (WASH) PROJECT
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 75

DEC 23 1981

December 23, 1981

TO: Dennis Warner, Ph.D., P.E.
WASH Project Director

FROM: S&T/HEA/CWSS, Victor W.R. Wehman, Jr., P.E., R.S.
AID WASH Project Manager

SUBJECT: Provision of Technical Assistance to USAID/Dar es Salaam

for view
JH

REFS: 1. DAR ES SALAAM 02747
2. OTD Number 26
3. WASH Field Trip Report, 22 Feb-13 Mar 81, A National
Environmental Sanitation Education Master Plan
4. DAR ES SALAAM 06294
5. STATE 291525

1. You are requested to provide technical assistance to USAID/Tanzania as outlined below.
2. Obtain copies of all relevant documents (as noted in Para. 6 in DAR ES SALAAM 06294) as soon as possible.
3. Prepare detailed list of information needs, indicating information desired, possible sources of information, level of detail needed. See STATE 291525 for some of items to be included in request.
4. As soon as possible, obtain as much information as possible on ongoing or proposed Tanzanian projects in the water and sanitation sector being sponsored by AID, PVO's, bilateral donors, UN Agencies, or the private sector.
5. Develop a work plan based on recommendations of section 6 of WASH Field report for the mission based on the above reference (3) and the reply to STATE 291525, for review by S&T/HEA.
6. WASH contractor authorized to expend up to 170 person days of effort over a six month period to accomplish this effort.
7. Contractor to provide draft progress reports to mission before leaving mission after each consultancy. Draft report including plan should be provided mission before consultants leave mission on last day of consultancy. Consultant should debrief mission and discuss report and follow-up action on each progress report.
8. Contractor to coordinate directly with Paul Ehmer in USAID/Dar es Salaam on all project matters dealing with master plan. Inform AFR/DR/ENGR, AFR/DR/HN and Tanzania desk and project officers of all coordination involving progress, including ETA's and country clearance of consultants.

9. Make sure individuals in (8) above receive copies of the OTD and (work plan) in (5) above.
10. Contractor authorized local travel and miscellaneous incurred expenses NTE \$3,000 US without approval from AID WASH project manager.
11. Contractor authorized to expend up to 125 international per diem days.
12. Contractor, authorized to allow 7 round trips in and out of Tanzania, as necessary over the next six months from consultant's home base, through Washington, D.C. to Tanzania and return to his/her home base through Washington, D.C. as appropriate during the effort. Consultants should return to Washington for debriefings with Africa Bureau and S&T/HEA.
13. Contractor authorized to obtain secretarial, graphics or reproduction services in Tanzania as necessary NTE \$1,000 to accomplish mission. These services are in addition to the level of effort specified in para. 6, para. 10 and para. 11 above.
14. Contractor authorized to provide for vehicle rental if necessary to facilitate effort. Mission is encouraged to provide mission vehicles to support this effort if available.
15. Mission should be contacted as soon as Paul Ehmer returns to the mission (about 4 Jan 1982) and assistance initiated as soon as convenient to USAID/Dar es Salaam.

VWW:ja:12/23/81



OTD 78

19 January 1982

Training of Sanitarians - Senegal

AID/Senegal requested WASH assistance in improving the sanitarian training school of the Senegal Rural Health project. The scope of work includes collecting relevant training materials in French and English; assisting in task analysis and performance objective development; suggesting training activities and appropriate evaluation techniques; designing and assisting delivery of a two week program emphasizing hands-on skills; making recommendations for improving the overall two year training program; and preparing a final report. The WASH consultant will also assist preparations and supervision of the construction of latrines, composting site, wells, spring captation, etc., which are part of the two week practical training program.

For further information, contact Dr. R. Isely.

Up to seventy-five person days, seventy international or domestic per diem days, and two round trips over a four month period are authorized. Local travel is authorized as is up to \$2,800 for secretarial, graphics or reproduction services in Senegal.

JEB/CIC
1/20/82

WATER AND SANITATION FOR HEALTH (WASH) PROJECT
ORDER OF TECHNICAL DIRECTION NUMBER 78
January 19, 1982

TO: Dennis Warner, Ph.D., P.E.
WASH Contract Project Director

FROM: Victor W.R. Wehman, Jr., P.E., R.S. *VWW*
A.I.D. WASH Project Manager
A.I.D./S&T/HEA/CWSS

SUBJECT: Provision of Technical Assistance Under WASH Project Scope of Work
for U.S. A.I.D./Senegal

REF: A) Dakar 192, dated January 9, 1982
B) Scope of Work

1. WASH contractor requested to provide technical assistance to U.S. A.I.D./Dakar as per reference A (paragraphs 3A through E) and reference B, Scope of Work.
2. WASH contractor/subcontractor/consultants authorized to expend up to seventy-five (75) person days of effort over a four (4) month period to accomplish this technical assistance effort.
3. Contractor authorized up to seventy (70) person days of international and/or domestic per diem to accomplish this effort.
4. Contractor to coordinate with AFR/DR/HN (Dr. James Shepperd), AFR Senegal Desk Officer, AFR/DR/ENGR (Jack Snead) and U.S. A.I.D. Project Officer. Copies of this OTD as well as progress and ETA information should be provided as requested by S&T/HEA or Africa Bureau.
5. Effort is to be an intensive one involving both assessment and operational training or operational development of training materials. Contractor to produce a task analyses and a set of performance objectives and suggested activities for each objective on the knowledge and skill needed by trainees to carry out each task under on-the-job conditions in water and sanitation, i.e., tasks.
6. Contractor authorized to provide up to two (2) international round trips from consultants home base through Washington, D.C. for briefing to Dakar, Senegal and return to home base through Washington, D.C. for debriefing and final report preparation.
7. Contractor authorized local travel within Senegal to accomplish technical assistance request. Contractor authorized to rent car(s), or conveyances as appropriate and necessary to accomplish technical assistance. Mission is encouraged to support local travel requirements of team if appropriate and available. Contractor authorized to utilize Mission vehicles if Mission provides these resources.
8. Contractor authorized to obtain secretarial, graphics or reproduction services in Senegal or WASH Coordination and Information Center in U.S. as

necessary to accomplish tasks. These services are in addition to the level of effort specified in paragraphs two and three above, but NTE \$2,800 without approval of A.I.D. WASH Project Manager.

9. Contractor is authorized to supervise installation of training devices and train locals in installation, operation, maintenance and hygenic features/procedures of devices. Training devices cost and installation to be paid for by U.S. A.I.D./Senegal Rural Health Project (685-0210).

10. WASH contractor will adhere to normal established administrative and financial controls as established for WASH mechanism in WASH contract.

11. WASH contractor should definitely be prepared to administratively or technically backstop field consultants and subcontractors.

12. Contractor to provide final draft report on scope of work to Mission before leaving Mission insuring that Mission and host government organizations comments and concerns are properly reflected in the draft final document. Final report due within thirty (30) days of receipt of comments from Mission and host government.

13. A debriefing should be held within thirty (30) days of return to the U.S.

14. Mission should be contacted immediately and technical assistance initiated before or about January 26, 1982 upon coordination with Mission. Insure travel authorization obtained.

15. Appreciate your prompt attention to this matter. Good luck.

ACTION COPY

Department of State

ROUTING TELEGRAM

PAGE 01 DAKAR 00192 091055Z
ACTION AID-35

9246 065402 A105360

DAKAR 00192 091055Z

9246 065402 A10

A) PREVIOUS LONG TERM WORK EXPERIENCE IN FRANCOPHONE WEST AFRICA.

ACTION OFFICE STHE-U1
INFO AFFW-04 AFCD-03 AFDR-06 AAST-U1 AFDA-01 RELO-01 MAST-01
DO-01 AFPH-01 /020 A2 39

B) PREVIOUS EXLARIENCE TRAINING VILLAGE LEVEL HEALTH WORKERS.

INFO OCT-00 AF-10 AHAD-01 /046 V
-----276041 091056Z /33

C) FSI 3/3 FRENCH SPEAKING LEVEL.

O 091050Z JAN 82
FM AMEMBASSY DAKAR
TO SECSTATE WASHDC IMMEDIATE 2223
INFO AMEMBASSY ABIDJAN
AMEMBASSY BAHAKO

6. ALL EXPENSES RELATED TO THE CONSULTANTS WORK MUST BE BORNE BY THE WASH PROJECT. ERAY

UNCLAS DAKAR 00192

AIDAC
SECSTATE FOR ST/HEALTH/VICTOR VEHMAN, AFR/DR/HEALTH
ABIDJAN FOR REDSO
BAHAKO FOR SDPT

E.O. 12065: N/A
SUBJECT: SENEGAL RURAL HEALTH (635-0210) - TRAINING
OF SANITATION AGENTS - THE WASH PROJECT.

1. THE SUBJECT PROJECT WILL BEGIN THE PROJECT ORIENTED TRAINING OF THE SECOND GROUP OF SANITATION AGENTS 8 FEBRUARY. THESE AGENTS HAVE ALREADY RECEIVED TWO YEARS OF ACADEMIC TRAINING AT THE KHOMBOLE SCHOOL. THIS TRAINING WILL BE VERY PRACTICAL - HOW ONE CONSTRUCTS LATRINES, PROTECTS WELLS, CREATES COMPOSTING SITES, BUILDS SAFE WOOD BURNING STOVES ETC. THE TRAINING PROGRAM WILL LIKEWISE STRESS THE SANITARIAN'S RESPONSIBILITIES AS A PLANNER, TRAINER AND SUPERVISOR OF THE VILLAGE LEVEL HYGIENIST/SECOURISTE WHO IS TRAINED AS PART OF THE PROJECT. FYI - THE SANITARIAN WORKS HAND IN HAND WITH THE DISPENSARY NURSE AS A SUPERVISOR OF THE VILLAGE HEALTH TEAM.

2. USAID/SENEGAL REQUESTS ST/HEALTH TO ASK THE WASH GROUP TO PROVIDE ONE OR TWO CONSULTANTS KNOWLEDGEABLE ABOUT SANITATION ISSUES, AND THE TRAINING OF VILLAGE LEVEL HEALTH WORKERS WHO CAN ACCOMPLISH THE SCOPE OF WORK LISTED BELOW.

3. SCOPE OF WORK

A) ASSIST THE PROJECT TRAINING TEAM PREPARE THIS YEAR'S PRACTICAL TRAINING PROGRAM.
B) PARTICIPATE, AS A TRAINER, IN THE PROGRAM.

C) ANALYZE THE STRENGTHS AND WEAKNESSES OF THE PROJECT TRAINING TEAM'S APPROACH TO THIS TYPE OF TRAINING PROGRAM AND RECOMMEND CHANGES TO BE MADE PRIOR TO NEXT SUCH TRAINING CYCLE.

D) OFFER ADVICE ON THE USE OF MATERIALS FOR SUCH TRAINING.

E) AFTER STUDYING THIS INITIAL TRAINING PROGRAM AND THE SANITARIAN'S RESPONSIBILITIES, THE CONSULTANT SHOULD MAKE VERY SPECIFIC RECOMMENDATIONS AS TO THE TYPE OF ONGOING SUPERVISION AND PERIODIC RECYCLAGE THAT WILL BE NECESSARY.

4. LEVEL OF EFFORT - ONE OR TWO CONSULTANTS FOR THREE TO FOUR WEEKS TO BEGIN ASAP AFTER 26 JANUARY.

5. QUALIFICATIONS

Received ST/HEA (W. Vehman) 1/12/82
Passed to WASH 1/12/82

Ray Isely

*W. Vehman
P. ...
D. ...*

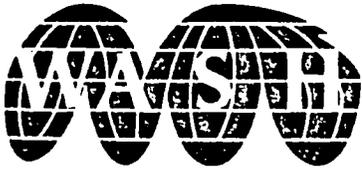
UNCLASSIFIED

SCOPE OF WORK
OTD 78
Senegal Rural Health Training of Sanitation Agents

1. Either prior to or immediately after their arrival, the WASH Team and A.I.D./Dakar will assemble as much as possible of the following information:
 - a. Trainee background.
 - 1) Number of trainees.
 - 2) Work experience of each trainee as a sanitation agent.
 - 3) Work experience of each trainee in practical skills (i.e., carpentry, mason, plumber, mechanic, etc.).
 - 4) Anticipated assignment of each trainee (location, duties, type of personnel to be supervised, programs to be managed, decision making responsibilities, etc.).
 - 5) Academic background of each trainee.
 - b. Copies of curricula, course descriptions, lesson plans, laboratory experiments, field trips which describe the two-year program just completed by trainees at the Khombole School.
2. The WASH Team and A.I.D./Dakar, if appropriate, will attempt to assemble at least four persons who are considered outstanding sanitation agents. That is they will have demonstrated over a period of at least two years the knowledge and skills required of a sanitary agent. If possible, these persons should have also demonstrated their ability as trainers. These persons should be free, if possible, to work full-time with the WASH Team in collecting data, developing and implementing the training program.
3. The Wash Team and A.I.D./Dakar, if possible, will arrange for construction materials, tools, transportation and sites for trainees to construct each of the types of latrines, composting pits, wells, spring captations, etc., that will be included in the training program. The WASH Team will not discuss or construct safe wood burning stoves.
4. Prior to arrival, the WASH Team will collect information and training materials in French or English that will assist with the development and implementation of the effort. Possible sources are:
 - a. Carlo Riefeldt/World Bank.
 - b. Leo Roy/WHO/Brazzaville.
 - c. Alex Redekopp/WHO/Geneva.
 - d. Joe Haratani/NE/TECH.
 - e. Jim Bell/Peace Corps.
 - f. Mary Morgan/IRW.
 - g. ENDA/Dakar.
5. Upon arrival in Senegal, depending upon available time and resources, team will carry out the following activities with the four sanitation agents assigned to them, plus other personnel made available for the effort:

- a. Task analysis of all activities sanitarians are responsible for (including planning, training, reporting, motivating, supervising, and collaborating with health personnel).
 - b. Develop performance objectives for the tasks identified above, including the conditions under which the action must be performed and the standard to which it must be performed.
 - c. Suggest training activities to accomplish these objectives.
 - d. Suggest evaluation techniques to measure trainee performance.
6. For the practical training course, using a subset of a, b, c and d above as background:
- a. Develop a curriculum, lesson plan, training activities and make assignments for who is responsible for what during training.
 - b. Develop logistics plans for transport of materials, tools, and trainees to work sites for practical work experience.
 - c. Assess local training staff as to their performance as trainers, and as time permits, assist in improving their skills as trainers.
7. During training program, WASH Team will:
- a. Assist with training of trainees.
 - b. Assist with upgrading knowledge and skills of trainers.
 - c. Evaluate existing two-year program and suggest ways to incorporate practice into the curricula, i.e., to find ways to include the material in this special effort into the two-year program.
8. Upon conclusion of the training, the WASH Team will prepare a report. A draft should be left with the Mission before departure. Within thirty (30) days of receipt of comments from the Mission and GOS, the report should be finalized. The report should contain, but not be limited to:
- a. Copy of existing curricula for sanitation agents.
 - b. Selection procedure for candidates for program.
 - c. Task analysis for sanitation agents.
 - d. Performance objectives, suggested sample training activities, and evaluation techniques for these tasks.
 - e. Training program as implemented.

- f. Analysis of training program implemented.
- g. Analysis of existing two-year curriculum and suggested changes.
- h. Recommendations for future activities for preparing sanitation agents.



CIC #47

December 10, 1980

Evaluation Methods for Community Rural
Water Supply and Sanitation Projects in
Developing Countries: A Synthesis of
Available Methods

This paper is designed to assist the Malawi Mission in the development of an evaluation design for the upcoming Malawi Rural Water Project and the Government of Malawi in the selection of an evaluation specialist. The paper, prepared by Dr. Robert J. Struba at the Research Triangle Institute, covers background information on rural water supply in Malawi, the rationale for evaluating water supply projects, optional evaluation approaches in terms of their resource requirements, and evaluation methods recommended as feasible for Malawi (29 pp., 25 refs.).

This synthesis is available as WASH Technical Report No. 4, "Evaluation Methods for Community Rural Water Supply and Sanitation Projects in Developing Countries: A Synthesis of Available Information."

RBI/WASH/CIC



CIC #49A

November 24, 1980

Synthesis Report: Training of Rural Community
Development Workers in Health Education

This paper was written in response to a request from the Cameroon Mission for information on, and assessment of, training methods used elsewhere for community development workers in health education. The particular application of the paper is to be to the Mandara Mountain Water Resources Project. Dr. Guy Steuart and Ms. Carla Rull of the Department of Health Education at the University of North Carolina prepared this paper. It covers role definitions and competencies for the community development worker in health education, recommended training models and strategies, training methods, and trainee selection criteria. Finally, organizational and administrative support of the worker and evaluation roles are discussed. (15 pp., 25 refs.)

This paper is available from WASH as Technical Report No. 3, March, 1981.

CIC #49B

November 24, 1980

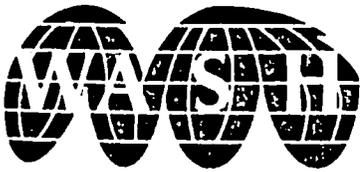
The Choice of Health Status Indicators
to Evaluate Water & Sanitation Projects
in North Cameroon: A Synthesis of
Available Information

The purpose of this paper, prepared by Drs. Robert J. Struba and Raymond B. Isely, is to guide the Yaounde Mission in the selection of health status indicators for the Mandara Mountains Water Resources Project. After a review of information on the Project itself, and an overview of evaluation methods and optional health status indicators, each indicator is assessed with respect to its usefulness in the North Cameroon Mandara Mountains. Three indicators: mortality rates and anthropometry in under five's, and dracunculosis prevalence in older children and adults, are recommended as the most feasible. (28 pp., 43 refs.)

This paper is available from WASH as Technical Report No. 5, April 9, 1981.

RBI/WASH/CIC

184



CIC #65

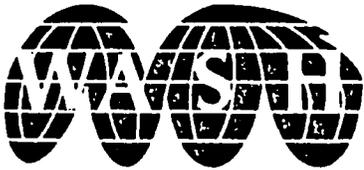
January 16, 1981

Rural Water Supply Information for REDSO

The Regional Water Resources Engineer for REDSO requested that the WASH Information Center supply him with several publications and conduct a literature search of several U.S. government and commercial computerized data bases. The information sought dealt with design standards, water quality standards and institutional arrangements used in developing countries, particularly in Africa.

This request was received by WASH on January 16, 1981, and was responded to by a series of mailings of information materials and computer abstracts and citations during the period February 13 through April 16, 1981. For further information contact Mr. James Beverly.

85



CIC #97

April 30, 1981

Technical Support to APHA in Planning
Africa Bureau Health Offices Conference

WASH staff support was requested by the Africa Bureau to provide an agenda for the water and sanitation aspects of primary health care programs. WASH will work with the APHA Planning Committee.

Twenty-one person days are authorized for this task which will be completed in November, 1981. For further information, contact Dr. Raymond Isely.



CIC #109

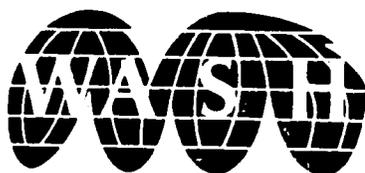
May 15, 1981

Seminar on Community Participation and
Health Education in Rural Water Systems
- Malawi

Two Malawian officials have been invited to discuss social, cultural, health and sanitation aspects of their rural water supply project with AID, WASH and others at the WASH office in mid-June 1981.

The officials will be on their return trip to Malawi from a short-course on water supply and sanitation given at the University of Ottawa. The WASH Project will cover their per diem expenses in Washington and any additional air-fare costs for the stop-over.

JEB/WASH/CIC



LIST OF WASH PUBLICATIONS: TECHNICAL REPORTS AND FIELD REPORTS
MARCH, 1982

TECHNICAL REPORTS

1. WASH Technical Report 1. Triocide Questions and Answers. November, 1980. RESTRICTED DISTRIBUTION
2. WASH Technical Report 2. Possible Disinfection of Oral Rehydration Solutions: Notes from November 13, 1980 meeting with Drs. Richard Chen and Lincoln Chen.
3. WASH Technical Report 3. Training of Rural Community Development Workers in Health Education, with Special Reference to Water Supply Protection and Use/Maintenance of Sanitation Facilities. March, 1981. Prepared for Mandara Mountains Water Resource Project, USAID Mission, Yaounde Cameroon by Guy Steuart and Carla Rull.
4. WASH Technical Report 4. Evaluation Methods for Community Rural Water Supply and Sanitation Projects in Developing Countries: A Synthesis of Available Information. March 31, 1981. Prepared for the USAID Mission, Malawi, by Robert Struba.
5. WASH Technical Report 5. The Choice of Health Status Indicators to Evaluate Water and Sanitation Projects in North Cameroon: A Synthesis of Available Information. April 9, 1981. Prepared for Mandara Mountains Water Resource Project, USAID Mission to the United Republic of Cameroon. CIC Task #49.
6. WASH Technical Report 6. Women, Water and the Decade. Presented at the International Affairs Session of the American Water Works Association, St. Louis, Missouri, June 9, 1981 by Mary Elmendorf. OTD #35.
7. WASH Technical Report 7. Facilitation of Community Organization: An Approach to Water and Sanitation Programs in Developing Countries. June 17, 1981. Prepared by Dr. Raymond B. Isely. CIC Task #94
8. WASH Technical Report 8. Integration de l'Approvisionnement en Eau et de l'Assainissement du Milieu dans les Programmes de Soins Primaires. Presented in Sousse, Tunisia, August 31, 1981 by Dr. Raymond B. Isely. OTD #52.
9. WASH Technical Report 9. Toward an Asia Bureau Water and Sanitation Policy Statement. September, 1981. Prepared for the Office of Health, Population and Nutrition of the Asia Bureau, USAID by James Thomson. CIC Task #98.
10. WASH Technical Report 10. Social and Economic Preconditions for Water Supply and Sanitation Programs. Prepared for AID/PPC by Dennis B. Warner, September 1981.

11. WASH Technical Report 11. The Role of Women as Participants and Beneficiaries in Water Supply and Sanitation Programs. December, 1981. Prepared for the Office of Health by Mary L. Elmendorf and Raymond B. Isely. CIC Task #51.
12. WASH Technical Report 12. Measuring and Evaluating Diarrhea and Malabsorption in Association with Village Water Supply and Sanitation. A Review of the Food Wastage/Sanitation Cost Benefit Methodology Project (Guatemala), Contract AID/csd-2959, by an External Panel of Experts. Prepared for the Office of Health by Branko Cvjetanovic, Lincoln Chen, Richard Kronmal, Charles Rohde and Robert Suskind. December, 1981. OTD #19.
13. WASH Technical Report 13. Participants Manual for Sessions on Water Supply and Sanitation: USAID Workshop on Primary Health Care in Africa, November 15-20, 1981, Lome, Togo. February, 1982. Prepared for the Africa Bureau, USAID by Raymond B. Isely, Craig R. Hafner, Daniel A. Okun, Morris A. Shiffman, Thomas Talbert and Marjorie L. Tupper. OTD #53.

FIELD REPORTS

1. WASH Field Report 1. Socio-Cultural and Economic Characteristics of Conditions in Ancash and La Libertad, Peru with Special Emphasis on the Callejones de Huaylas and Conchucos: Questions to be Considered in an Evaluation of CARE-Sponsored Water, Sewage and Health Projects by Charlotte D. Miller, Ph.D. November, 1980. OTD #6.
2. WASH Field Report 2. Review of AID Rural Potable Water Programs - Haiti. November 16-29, 1980. OTD #9.
3. WASH Field Report 3. Feasibility of Local Manufacture of the AID Hand-Operated Water Pump, and other Technology Appropriate for Rural Water Supply Programs in the Philippines. Prepared for USAID by Phillip W. Potts, Robert Knight and Yaron M. Sternberg. April 1979. OTD #11.
4. WASH Field Report 4. Tunisia, Aspects of Well Drilling Rural Potable Water Project - Report on a Field Trip, December 20-27, 1980. Prepared for USAID by Michael Glaze. OTD #15.
5. WASH Field Report 5. Dominican Republic Consultations on the Health Sector Loan II. Report of a Field Trip, January 26-30, 1980. OTD #21.
6. WASH Field Report 6. Report on the Peru Rural Water Systems and Environmental Sanitation Project. January 31, 1981. Prepared for USAID by Harold Shipman. OTD #18.
7. WASH Field Report 7. Tanzania - A National Environmental Sanitation Education Master Plan, A Preliminary Review. February

22-March 13, 1981. Prepared for USAID by Dennis B. Warner and Kenneth Woolf. OTD #26.

8. WASH Field Report 8. Tanzania - Health and Environmental Monitoring Project (HEMP): Recommendations for Project Paper Design Team, February 22-March 13, 1981. Prepared for USAID by Dennis B. Warner and Kenneth Woolf. OTD #26.
9. WASH Field Report 9. WASH/CDM Five - Quito, Ecuador (T-14). Prepared for USAID and the Fundacion Natura by Paul C. Dreyer. OTD #14.
10. WASH Field Report 10. Lebanon - Technical Recommendations for Wastewater Treatment Demonstration (Pilot) Plants for Lebanon. March, 1981. Prepared for USAID Mission, Lebanon, by A.A. Kalinske. OTD #20.
11. WASH Field Report 11. Mauritania - Public Health Assessment of Proposed Dams, Water-Related Diseases and Community Water Supplies. March, 1981. Prepared for USAID by Emile Matek and David Goff. OTD #16.
12. WASH Field Report 12. Ecuador - Institutional Development for IEOS: Instituto Ecuatoriano de Obras Sanitarias. March, 1981. Prepared for USAID by Charles S. Pineo, Henry Van and Guillermo Orozco. OTD #14.
13. WASH Field Report 13. Proyecto de Sistema de Entrega de Salud Rural Integrado - Saneamiento Rural. March, 1981. Prepared for USAID Mission, Ecuador, by Gonzalo Medina. OTD #24.
14. WASH Field Report 14. Targets of Opportunity for WASH: Report of A Reconnaissance Visit to India and Bangladesh, February 20-March 7, 1981. Prepared for USAID by Raymond B. Isely. OTD #28.
15. WASH Field Report 15. Guatemala - XIII Central American Congress of AIDIS, Guatemala City, March 15-20, 1981. Prepared for USAID by Charles S. Pineo, March, 1981. OTD #30.
16. WASH Field Report 16. Indonesia - Rural Sanitation and Manpower Development Project (RSMD). The Development of Appropriate Technology and the Improvement of Curricula for Training of Sanitarians. March, 1981. Prepared for the USAID Mission, Indonesia, by Clarence E. Calbert and Robert A. Gearheart. OTD #25.
17. WASH Field Report 17. Jordan - Recommended Wastewater Treatment Guidelines for the Hashemite Kingdom of Jordan. April, 1981. Prepared for the USAID Mission, Jordan, by Harris F. Seidel. OTD #31.
18. WASH Field Report 18. Coordination of WASH Information Activities and Exchange with International Information Centers, Holland and England. April 5-17, 1981. Prepared for USAID Washington by James E. Beverly. OTD #32.

19. WASH Field Report 19. Village Water Supply and Sanitation in Northeastern Thailand. July, 1981. Prepared for the USAID Mission, Thailand, by James Arbuthnot and Robert H. Thomas. OTD #38.
20. WASH Field Report 20. Technical Assistance in the Manufacture and Quality Control of the AID/Battelle Handpump in the Dominican Republic. June, 1981. Prepared for the USAID Mission, El Salvador, by Robert Knight. OTD #1.
21. Wash Field Report 21. Plan for a Health Education Component for the Health Sector II Bilateral Assistance Project in the Dominican Republic. July, 1981. Prepared for the USAID Mission, Dominican Republic, by Charles Llewellyn. OTD #21.
22. WASH Field Report 22. Evaluation of Yemen Water Supply Systems Management Project. August, 1981. Prepared for the USAID Mission, Yemen Arab Republic, by Martin Lang and Clarence Calbert. OTD #39.
23. WASH Field Report 23. Plan for the Health Impact Evaluation of the Health Sector II Bilateral Assistance Project in the Dominican Republic. August, 1981. Prepared for the USAID Mission, Dominican Republic, by Paul Howard and Robert J. Struba. OTD #21.
24. WASH Field Report 24. Community Water Supply and Sanitation in Burundi: Report of an Evaluation Team. October, 1981. Prepared for the USAID Mission, Burundi, by Raymond Isely, David Goff, and Herbert Blank. OTD #36.
25. WASH Field Report 25. Water and Sanitation Alternatives for Southern Italy Disaster Relief. December, 1980. Prepared for USAID Washington by David R. Goff and Michael A. Kostur. OTD #13.
26. WASH Field Report 26. Appropriate Technology for Rural Water Supply and Sanitation in El Salvador: A Brief Review and Bibliography. September, 1981. Prepared for the USAID Mission, El Salvador, by Charles S. Pineo. OTD #17.
27. WASH Field Report 27. Strategy for Implementation and Evaluation of the Togo Rural Wells and Sanitation Project. October, 1981. Prepared for the USAID Mission, Togo, by Felix Awantang. OTD #45.
28. WASH Field Report 28. Rural Sanitation and Manpower Development Project: Appropriate Technology and Information Dissemination. October, 1981. Prepared for the USAID Mission, Indonesia, by Robert A. Gearheart. OTD #44.
29. WASH Field Report 29. Participation in a Workshop on Primary Health Care, August 31 - September 3, 1981, Sousse, Tunisia. October, 1981. Prepared for Bureau of the Near East, USAID, by Dr. Raymond B. Isely. OTD #52.
30. WASH Field Report 30. UNICEF/PAHO Joint Workshop on Drinking Water and Sanitation in Rural and Urban Slum Areas - Lima, Peru,

November 17-22, 1980. December, 1981. Report of Emil T. Chanlett.
OTD #5.

31. WASH Field Report 31. Intensive Session on Water Sanitation and Health Education: A Workshop Held at UNICEF Headquarters, New York, April 22-23, 1981. December, 1981. Prepared by Raymond B. Isely. OTD #37.
32. WASH Field Report 32. Hydrogeological Reconnaissance of the Yelimara-Tambacara Area of Mali with Reference to the Village Wells Project. February, 1982. Prepared by George Taylor. OTD #64.
35. WASH Field Report 35. Scope of Work for the Health Outcome Evaluation of the Health Sector II Project in the Dominican Republic. February, 1982. Prepared by Kenneth R. McLeroy. OTD #58.
36. WASH Field Report 36. Municipal Water Conservation in Jordan: Report of a Seminar. February, 1982. Prepared by James L. Ogilvie. OTD #59.

REPORTS UNDER PREPARATION:

33. WASH Field Report 33. Implementation Plan for Unsewered Areas Demonstration Project in Greater Cairo. February, 1982. Prepared by Dennis B. Warner and David Donaldson. OTD #77.
34. WASH Field Report 34. A Proposed Action Plan for a National Training Program. OTD #55.