

PD-DAU-406  
47411

WATER AND SANITATION  
FOR HEALTH PROJECT



COORDINATION AND  
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SUMMARY OF  
WASH PROJECT  
ACTIVITIES FOR  
BUREAU FOR AFRICA

September 1, 1980 - May 26, 1984

-SYNOPSIS-

The WASH Project is managed  
by Camp Dresser & McKee  
Incorporated. Principal  
Cooperating Institutions and  
subcontractors are: Interna-  
tional Science and Technology  
Institute; Research Triangle  
Institute; University of North  
Carolina at Chapel Hill;  
Georgia Institute of Tech-  
nology—Engineering Experi-  
ment Station

Summary of WASH Project Activities for Bureau for Africa

September 1, 1980 - May 26, 1984

-SYNOPSIS-

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Summary of AID Water Supply and Sanitation Projects by Bureaus: 1976-1984

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 Actual (\$000's)	FY 83 OYB (\$000's)	FY 84 CP (\$000's)
Africa									
DA	--	500	992	3,360	6,359	10,206	7,885	4,675	2,445
SH	--	--	1,000	4,168	2,914	2,809	4,022	--	--
ES	--	--	--	--	--	--	--	--	--
FDA	500	--	--	--	--	2,000	6,000	6,445	--
Asia									
DA	20,000	6,800	3,684	3,500	16,104	10,150	3,033	5,200	--
ES	--	--	--	--	--	--	--	--	--
Latin America									
DA	--	4,748	581	8,754	18,621	676	5,520	5,700	1,000
ES	--	--	--	--	--	--	--	9,700	--
Near East									
DA	3,627	11,738	5,752	4,450	3,363	5,650	3,800	3,079	1,077
ES	22,500	87,000	120,000	158,921	23,500	125,100	10,000	344,500	215,000
FDA	--	--	--	--	--	--	--	2,800	--
Science & Technology									
DA	241	253	340	962	4,426	3,706	2,450	2,400	2,300
TOTAL Development Assistance (Includes Sahel)	23,868	24,039	12,349	25,194	51,787	33,197	26,710	21,054	6,818
TOTAL Economic Support (Includes FDA)	23,000	87,000	120,000	158,921	23,500	127,100	16,000	363,445	215,000
Sub-TOTAL (appropriated)	46,868	111,039	132,349	184,115	75,287	160,297	42,710	384,499	221,818
Housing WS&S Components			45,000	55,000	70,500	42,000	46,000	46,000	60,000
Grand Total WS&S	46,868	111,039	177,349	239,115	145,787	202,297	88,710	430,499	281,818

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## A.I.D. PROJECT DATA LISTINGS

The following section has three parts:

1. An explanatory description of the A.I.D. Water Resources and Environmental Health Information Data Base developed by the WASH Project for the Office of Health using an Apple II Microcomputer. It includes definitions and comments on procedures used and data sources, a sample computer terminal display layout of the input format, and an Appendix A that identifies the alphabetical coding of project characteristics - functional subcategories, activity codes, scope, agents and service level.
2. A computer print-out of Regional Bureau projects identified as having a water supply and/or environmental sanitation component. It includes country project title, project number, beginning and ending fiscal years, appropriation source, functional subcategories included in the projects and fiscal year funding from 1976 through 1984. Funding is sub-totalled by year for each country.
3. A computer print-out similar to the above. It includes only potable water supply and sanitation projects. Funding data for these projects covers fiscal years 1980-1985.

AID WATER SUPPLY AND ENVIRONMENTAL HEALTH PROJECTS  
INFORMATION DATA BASE: FY 1973 - Present

DEFINITION OF PROJECTS INCLUDED IN DATA BASE:

Those A.I.D. supported projects in which water, its development, use, management, and environmental sanitation activities appears as an element in any project as a development activity.

PROCEDURES USED TO IDENTIFY PROJECTS:

1. A.I.D. ST/DIU Design and Evaluation computer files were reviewed for initial identification of projects which included water as a key word in the description of the project.

2. A.I.D. Congressional Presentations were reviewed from FY 1978-1983 for project identification and funding data.

3. A.I.D. PFC Reports on Summaries of Obligations by Appropriation and Functional Subcategories for FY 1983 Congressional Presentation have been used as current sources of project funding data for FY 1978 through requested FY 1983.

4. Early historical Health Account funding files maintained in ST/Health provided additional references for project identification and funding data. Office of Financial Management provided obligation information on a limited number of projects funded between FY 1973 and FY1978.

5. Reports on Active and Completed projects prepared by A.I.D.'s Office of Financial Management (W-253 Reports) were also used for funding references.

PROCEDURES USED TO ENTER DATA INTO SYSTEM:

1. Initial project identification has been done by reviewing projects for each A.I.D. Regional Bureau and the Central Bureau for Science and Technology.

2. Data has been entered on an Apple II+ microcomputer. Use has been made of software programs such as VISICALC, VISIFILE, VISITREND/VISIFLOT, CONDOR, and APPLE II BUSINESS GRAPHICS.

3. Data is stored on floppy disks. Files are maintained on the disks by Bureau. Project data include: Title, Project Number, Beginning and End Year, Life of Project Funding, Appropriation code (from which project funded), Agent(Implementor), Scope(National, Pilot, etc.), No. of Beneficiaries(where info available), Cost per Beneficiary(where available), Service level(taps,springs,etc.), Activity Codes and SUBCATS (See attached for description), Water Component Code to determine whether water is major project activity or only a component part of the project, and Fiscal Year funding data FY 1973 to present.

4. Printouts of the data can be made easily by selecting out desired information through search procedures of files stored in the data base.

5. The data base currently contains over 600 records.

DATA ANALYSIS:

1. Graphics software is being used to plot and chart a variety of presentations based on information contained in the data base. Separate files have been created of computed funding data by Activity codes, SUBCATS, Appropriation codes, Bureaus, and Fiscal Year.

2. A variety of graphic and statistical summaries are possible using the APPLE II and a compatible printer. Line, bar, area and pie charts can be produced as well as funding trend forecasting.

<<< W A T E R >>>

[REG].....: ---  
 [COUNTRY].....: -----  
 [TITLE].....: -----  
 [PROJ#].....: -----  
 [LOP#].....: -----  
 [APPR].....: -----  
 [AGENT].....: -----  
 [BEG].....: ---  
 [END].....: ---

[FY73] -----	[FY74] -----	[FY75] -----	[FY76] -----
[FY77] -----	[FY78] -----	[FY79] -----	[FY80] -----
[FY81] -----	[FY82] -----	[FY83] -----	[FY84] -----

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 [#BENEF].....: -----  
 [COST/BENEF]..: -----  
 [SVC.LEVEL]...: -----  
 [ACT.CODE]...: -----  
 [SUBCAT].....: -----

[WTRCOMP].....: -----  
 <<< G L O B A L >>>

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 [PROJ#]: -----  
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[FY73]: -----	[FY74]: -----	[FY75]: -----	[FY76]: -----
[FY77]: -----	[FY78]: -----	[FY79]: -----	[FY80]: -----
[FY81]: -----	[FY82]: -----	[FY83]: -----	[FY84]: -----

[SCOPE]: -----  
 [SERVICE LEVEL]: -----  
 [ACT.CODE]: -----  
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 [WTRCOMP]: -----

APPENDIX A  
FUNCTIONAL SUBCATEGORIES:

WSS	WATER SUPPLY AND SANITATION	IRG	IRRIGATION
WRM	WATER RESOURCES MANAGEMENT	FSH	FISHERIES
FHC	PRIMARY HEALTH CARE	NUT	NUTRITION
HIG	HOUSING INVESTMENT GUAR.	ENG	ENERGY
WLS	WATER FOR STOCK PONDS	WRD	WATER RESOURCES DEV.
WSD	WATER SUPPLY DEVELOPMENT	WAT	WATER SUPPLY (POT.)
ST	SCIENCE AND TECHNOLOGY		
GWD	GROUND WATER DEVELOPMENT	EVH	ENVIRONMENTAL HEALTH
TDC	TROPICAL DISEASE CONTROL	SST	SEW. OR SEWAGE TREAT.

ACTIVITY CODES:

TT TECHNOLOGY TRANSFER/TECHNICAL ASSISTANCE  
HR HUMAN RESOURCES DEVELOPMENT (TRAINING)  
RD RESEARCH AND DEVELOPMENT  
ID INFRASTRUCTURE DEVELOPMENT  
CP COMMUNITY PARTICIPATION  
PV PRIVATE SECTOR INVOLVEMENT  
FE FEASIBILITY STUDIES  
HE HEALTH EDUCATION

SCOPE:

NATIONAL	PILOT
PROVINCIAL	REGIONAL
MULTI-PROVINCIAL	URBAN
DISTRICT	RURAL

AGENT:

UNC UNIVERSITY CONTRACT  
PVO PRIVATE VOLUNTARY AGENCY  
NGO NON-GOVERNMENT AGENCY  
PSC PERSONAL SERVICES CONTRACT  
PVC PRIVATE SECTOR CONTRACT  
MLT MULTILATERAL AGENCY  
HCC HOST COUNTRY CONTRACTOR  
LDC HOST COUNTRY GOVERNMENT  
FEC PEACE CORPS  
PAS PASA (INTERAGENCY AGREEMENT)

SERVICE LEVEL:

SPRING CAPTATION	WELLS	SEWERS
PIT LATRINES	DIKES	PONDS
COMMUNITY TAPS	DAMS	HAND PUMPS
INDIVIDUAL HOUSE CONNECTIONS		PERCOLATION
METERED HOUSE CONNECTIONS		STORAGE TANKS

## AFRICA PROJECTS WITH A WATER SUPPLY AND OR SANITATION COMPONENT

DATE: 04/15/83

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COUNTRY	TITLE	PROJ#	APPR	BEG	END	AGENT	ACT. CODE	SUBCAT	LOP#	FY76	FY77	FY78	FY79	FY80	FY81	FY82	FY83	FY84
Botswana	Housing Guarantee	G 6330100	HIG	78	80	PVC	ID, TT	WSS, HIG, MAT	2500	0	0	2500	0	0	0	0	0	0
Botswana	Housing Guarantee	L 633HG02	HIG	82	82	LDC	ID, TT, PV	WAT, HIG, WSS	15000	0	0	0	0	0	0	0	0	0
Botswana	Major Villages	G 6330230	ES	84	89	PVC	TT, CP, HR	WAT, WSS, HIG	10000	0	0	0	0	0	0	15000	0	0
								Subtotal	27500	0	0	2500	0	0	0	15000	0	1000
Botswana(R)	Shasni Project	L 6900025	DL	71	75	LDC	TT	WRD, MAT	6393	0	0	0	0	0	0	0	0	0
								Subtotal	6393	0	0	0	0	0	0	0	0	0
Cameroon	Low Income Housing	G 6310003	SD	77	81	PVC	CP, TT, ID	HIG, MAT	814	0	319	100	200	195	0	0	0	0
Cameroon	Handara Mt. Water Re.	G 6210012	FN	79	82n	LDC	ID, TT, HE, CP	WRD, MAT	6916	0	0	0	1875	775	2300	0	0	0
Cameroon	No. Cameroon Community Develop	G 6310010	FN	78	79	PVD	CP, TT	MAT, EVH, IRG	351	0	0	142	209	0	0	0	0	0
								Subtotal	8081	0	319	242	2284	970	2300	0	0	0
Cape Verde	Sal/Desalination/Power	G 6550005	SD	78	83	LDC	TT, CP, HR	ENG, IRG, MAT	5765	0	0	5765	0	0	0	0	0	0
Cape Verde	Sal/Desalination/Power	G 6550005	SH	78	83	LDC	TT, HR, ID	MAT, ENG, IRG	1500	0	0	900	0	0	0	600	0	0
								Subtotal	7265	0	0	6665	0	0	0	600	0	0
Chad	Irrigated Crop Protection	G 6770009	SH	78	81	PC	TT, CP, HR	MAT	185	0	0	85	100	0	0	0	0	0
								Subtotal	185	0	0	85	100	0	0	0	0	0
Djibouti	Infrastructure & Energy Inits.	G 6030013	ES	81	86	LDC	RD, TT, ID, FE	MAT, ENG	4000	0	0	0	0	0	2000	2000	0	0
								Subtotal	4000	0	0	0	0	0	2000	2000	0	0
Ethiopia	Reg. Rural Development	G 6630214	FN	78	78	PVD	CP, HR, TT, HE	WSS, EVH, MAT	724	0	0	724	0	0	0	0	0	0
Ethiopia	Rural Agriculture Dev.	G 6630167	FN	72	78	LDC	TT, CP, HE	EVH	819	0	0	0	0	0	0	0	0	0
Ethiopia	Upper Bidesa Development	G 6630179	FN	78	81		TT	MAT, WRM	4970	0	0	2090	0	0	0	0	0	0
								Subtotal	5613	0	0	2724	0	0	0	0	0	0
Ghana	Farm. Assoc. & Agribus. Develop.	G 6410072	FN	78	81	PVD	TT, CP	MAT	3400	0	0	1500	1150	200	0	0	0	0
								Subtotal	3400	0	0	1500	1150	200	0	0	0	0
Ivory Coast	Housing Guarantee	L 681HG04	HIG	81	81	LDC	TT, PV, ID	HIG, MAT, WSS	20000	0	0	0	0	0	20000	0	0	0
								Subtotal	20000	0	0	0	0	0	20000	0	0	0
Kenya	Housing Guarantee	L 615HG05	HIG	79	79	LDC	TT, PV, ID	MAT, WSS, HIG	17000	0	0	0	17000	0	0	0	0	0
Kenya	Housing Guarantee	L 615HG06	HIG	80	80	LDC	TT, ID, PV	WAT, HIG, WSS	16000	0	0	0	0	16000	0	0	0	0
Kenya	Kibwezi Primary Health Care	G 6150179	HE	79	81	PVD	FE, HE, TT, CP	WSS, PHC	815	0	0	0	0	0	0	0	0	0
Kenya	Kitui Rural Health	G 6150185	HE	79	79	PVD	CP, HE	EVH, PHC	413	0	0	0	413	0	0	0	0	0
Kenya	Kitui Rural Health	G 6150206	HE	82	85	PVC	CP, HR	WSS, EVH, PHC	4893	0	0	0	0	0	0	4893	0	0
Kenya	Kitui Rural Health	L 6150206	HE	82	82		TT, HR	WSS, EVH, PHC	4630	0	0	0	0	0	0	4630	0	0
Kenya	Vihiga Rural Development	G 6150147	FN	71	78	PVD	CP	WSS	1639	165	1	0	0	0	0	0	0	0
								Subtotal	45390	165	1	0	18231	16000	0	9523	0	0
Lesotho	Rural Health Development	G 6320058	HE	78	83	UNC	HR, CP, HE	EVH	2755	0	0	855	0	304	1101	0	455	0
Lesotho	Rural Health Development	G 6320058	ES	79	83	UNC	HR, CP, HE	EVH	147	0	0	0	147	0	0	0	0	0
								Subtotal	2902	0	0	855	147	304	1101	0	455	0
Liberia	Housing Guarantee	L 669HG02	HIG	79	79	LDC	TT, ID, PV	HIG, MAT, WSS	17000	0	0	0	17000	0	0	0	0	0
Liberia	Lofa Co. Rural Health	G 6690125	HE	76	78	PAS	TT, ID, HR	PHC, EVH	1861	575	693	615	0	0	0	0	0	0
Liberia	Low Income Housing	G 6690146	SD	78	83	LDC	FE, HR	HIG, WSS	1672	0	0	400	400	250	298	0	0	0
Liberia	Low Income Housing	G 6690167	ES	79	80	LDC	TT, ID	HIG, MAT, WSS	5000	0	0	0	5000	0	0	0	0	0
Liberia	Low Income Housing	L 6690146	DL	78	83	LDC	TT	MAT, HIG	4000	0	0	4000	0	0	0	0	0	0
Liberia	MicroHydro (IRT7)	G 6980407	FN	80	81		TT	MAT	70	0	0	0	0	50	20	0	0	0

## AFRICA PROJECTS WITH A WATER SUPPLY AND OR SANITATION COMPONENT

DATE: 04/15/83

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COUNTRY	TITLE	PROJ#	APPR	BEG	END	AGENT	ACT.CODE	SUBCAT	LOP#	FY76	FY77	FY78	FY79	FY80	FY81	FY82	FY83	FY84
Liberia	Program Grant	G 6690169	ES	80	82	LDC	TT,HR	WAT,TDC	200	0	0	0	0	0	0	0	0	0
Liberia	YMCA Agric. Training	G 6690141	FM	77	79	PVD	CP,TT	EVH	67	0	57	10	0	200	0	0	0	0
								Subtotal	29870	575	750	5025	22400	500	318	0	0	0
Mali	Rural Health Services	G 6880208	SH	78	83	UMC	CP,TT,HE	EVH,PHC	3240	0	0	535	1115	260	1330	680	0	0
Mali	Self-Help:Koula Well&Garden	G 6880400	SH	02	62	LDC	TT,CP	WAT	3	0	0	0	0	0	0	3	0	0
Mali	Self-Help:Konodimini Garden	G 6881100	SH	82	82	PEC	CP,TT	WAT	1	0	0	0	0	0	0	1	0	0
Mali	Self-Help:Kouabougou Garden	G 6880200	SH	82	82	LDC	CP,TT	WAT	5	0	0	0	0	0	0	0	0	0
Mali	Self-Help:Zantieougou Garden	G 6882200	SH	82	82	PEC	TT,CP	WAT	1	0	0	0	0	0	0	5	0	0
								Subtotal	3250	0	0	535	1115	260	1330	690	0	0
Mauritania	Development of Dases	G 6820207	SH	80	83	PVC	TT,CP,HR	WRD,IRG,WAT	5991	0	0	0	0	1142	1900	700	1000	0
Mauritania	Rural Land Reclamation	G 6820203	SH	81	85	PVD	FE,HR,TT	WSS,TDC,WAT	8900	0	0	0	0	0	2122	0	1580	1800
								Subtotal	14891	0	0	0	0	1142	4022	700	2580	1800
Mauritius	Housing Guarantee	L 642HG01	HIG	80	80	LDC	TT,PV,ID	HIG,WAT,WSS	6000	0	0	0	0	6000	0	0	0	0
								Subtotal	6000	0	0	0	0	6000	0	0	0	0
Niger	Basic Health Services	G 6830214	SH	76	80	PVD	HE,CP,TT	EVH,PHC	1468	890	550	800	0	0	0	0	0	0
Niger	Niamey Dept. Development II	G 6830240	SH	81	85		FE,TT	WAT	13582	0	0	0	0	0	0	0	0	0
Niger	Rural Health Improvement	G 6830208	SH	79	85	PVC	TT,CP,HE	WSS,EVH,PHC	12029	0	0	0	2600	2573	2000	0	750	2000
Niger	Rural Health Improvement	G 6830208	HE	78	85	PVC	TT,CP,HE	WSS,EVH,PHC	2000	0	0	2000	0	0	0	0	0	0
								Subtotal	29079	890	550	2800	2600	2573	7704	0	3250	4500
Regional	Improved Rural Technology	G 6980407	FM	78	82	PVC	TT,CP,HR	WAT	6100	0	0	400	515	522	759	1200	0	0
Regional	Primary Health Care Develop.	G 6980446	HE	94	88	PVC	TT,HR,ID	PHC,WAT,WSS	10000	0	0	0	0	0	0	0	0	2500
Regional	Water Resources	G 6980415	FM	77	78		ID,FE	WAT,IRG	2360	0	1625	735	0	0	0	0	0	0
								Subtotal	18460	0	1625	1135	515	522	759	1200	0	2500
Sahel Regional	Environmental Train.& Manag.	G 6250942	SH	81	84		IR,TT	EVH	875	0	0	0	0	0	210	100	0	0
Sahel Regional	Gambia River Basin	G 6250012	SH	80	85		ID,FE	IRG,WRM,EVH	13400	0	0	0	0	4000	4611	0	0	0
Sahel Regional	Socio-Economic Develop. OPG	G 6250930	FM	78	81	PVD	ID,HR,TT	WRD,WAT,WRM	1000	0	0	1000	0	0	0	0	0	0
Sahel Regional	Socio-Economic Develop. OPG	G 6250930	SH	79	81	PVD	HR,TT,ID	WAT,WRD,WRM	3000	0	0	0	1000	1000	1000	0	0	0
								Subtotal	18275	0	0	1000	1000	5000	5821	100	0	0
Senegal	Rural Health II	G 6850242	SH	83	87		TT,ID,HE	PHC,EVH,MUT	8000	0	0	0	0	0	0	1200	0	0
Senegal	Rural Health Services	G 6850210	HE	78	81	PSC	TT,CP,HE,HR	EVH,PHC	1494	0	0	1000	494	0	0	0	0	0
Senegal	Rural Health Services	G 6850210	SH	79	83	PSC	TT,CP,HE,HR	EVH,PHC	2155	0	0	0	1825	0	0	0	330	0
Senegal	Small Irrigated Perimeters	G 6850208	FM	77	81	PVD	CP,TT,HR	WSS,IRG	4200	0	3000	1200	0	0	0	0	0	0
Senegal	Village Development (AIP)	G 6850239	SH	79	79	PVD	TT,CP	EVH	212	0	0	0	212	0	0	0	0	0
								Subtotal	16061	0	3000	2200	2531	0	0	1200	330	0
Somalia	Bay Region Development	G 6490113	FM	80	83	PVC	CP,HR,ID	WAT,WLS	11171	0	0	0	0	2500	2700	3548	2423	0
Somalia	Compreh.GFDWR Development	G 6490104	FM	82	85	PVD	FE,ID,TT	WRD,WAT,GND	6444	0	0	0	0	0	0	3401	3043	0
Somalia	Kisimao Port	G 6490035		61	75	PVC	TT	WRD,WAT,ENG	12202	0	0	0	0	0	0	0	0	0
								Subtotal	29817	0	0	0	0	2500	2700	6949	5466	0
Sudan	Abyei Rural Development	G 6500025	FM	78	81	PVD	CP,HR,RD	WSS	1302	0	0	495	702	0	105	0	0	0
Sudan	North Primary Health Care	G 6500011	HE	78	82	PVC	HR,ID	PHC,EVH	5863	0	0	1900	3963	0	0	0	0	0
Sudan	South Primary Health Care	G 6500019	HE	78	83	PVD	HR,HE	PHC,EVH	3686	0	0	1500	1686	0	500	0	0	0
Sudan	Wadi Halfa Community Develop.	G 6500026	FM	78	80	PVD	CP,TT,HE	WSS,IRG,WAT	498	0	0	498	0	0	0	0	0	0
								Subtotal	11349	0	0	4393	6351	0	605	0	0	0

AFRICA PROJECTS WITH A WATER SUPPLY AND OR SANITATION COMPONENT

DATE: 04/15/83

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COUNTRY	TITLE	PROJ#	APPR	BEG	END	AGENT	ACT.CODE	SUBCAT	LDP#	FY76	FY77	FY78	FY79	FY80	FY81	FY82	FY83	FY84
Swaziland	RDA Infrastructure Support	G 6450068	FN	79	84	PVC	TT, ID, HR	WAT, FSH, IRG	5070	0	0	0	695	0	1500	2297	0	578
Swaziland	RDA Infrastructure Support	G 6450068	ES	78	84	PVC	TT, HR, ID	WAT, FSH, IRG	2077	0	0	2077	0	0	0	0	0	0
Swaziland	RDA Infrastructure Support	L 6450068	ES	78	84	PVC	TT, HR, ID	WAT, FSH, IRG	5400	0	0	5400	0	0	0	0	0	0
Swaziland	RDA Infrastructure Support	L 6450068	FN	78	84		TT, ID, PV	WSS, FSH, WRM	4600	0	0	2000	2600	0	0	0	0	0
Swaziland	Rur. Water-borne Disease Cont.	G 6450087	HE	79	85	LDC	TT, CP, HE	WSS, EVH, TDC	3297	0	0	0	640	800	800	0	1057	0
								Subtotal	20444	0	0	9477	3935	800	2300	2297	1057	578
Swaziland (R)	Agriculture Development Loan	L 6900012	DL	71	75	LDC	TT, ID	WAT, IRG, WRM	2200	0	0	0	0	0	0	0	0	0
								Subtotal	2200	0	0	0	0	0	0	0	0	0
Tanzania	Arusha Village Development	G 6210143	FN	78	83		HR, TT, HE	WSS, WAT, WRM	14591	0	0	6834	1910	2353	2848	646	0	0
Tanzania	Manang Village Health	G 6210138	HE	78	79		TT, HE, CP	WSS, PHC	499	0	0	340	159	0	25	0	0	0
Tanzania	Village Environment Improve.	G 6210160	SD	81	84	PVD	CP, TT, HR	WAT, IPS, EVH	499	0	0	0	0	499	0	0	0	0
								Subtotal	15589	0	0	7174	2069	2353	3372	646	0	0
Togo	Housing Guarantee	L 693HG01	HIG	80	80	LDC	TT, PV, ID	HIG, WAT, WSS	15000	0	0	0	0	15000	0	0	0	0
Togo	Low Income Shelter	G 6930213	SH	79	81	LDC	FE, ID	HIG, WAT, SST	910	0	0	0	225	355	330	0	0	0
								Subtotal	15910	0	0	0	225	15355	330	0	0	0
Upper Volta	Seguenega Integrated Rural Dev	G 6860231	FN	79	83	PVD	HR, CP	WAT, MSD, WSS	3956	0	0	0	1000	1000	1256	1600	0	0
Upper Volta	Seguenega Integrated Rural Dev	G 6860231	SH	78	83	PVD	HR, CP	WSS, MSD, IRG	1000	0	0	1000	0	0	0	0	0	0
Upper Volta	Strengthening VOL. Sector Dev	G 6860249	SH	82	84		CP, TT	WSS	2300	0	0	0	0	0	0	947	1353	0
								Subtotal	7256	0	0	1000	1000	1000	1256	2547	1353	0
Zaire	Basic Family Health	G 6600067	HE	80	83		TT, CP	WSS, EVH, PHC	3000	0	0	0	0	50	0	0	0	0
Zaire	Basic Rural Health	G 6600086	HE	81	83	PVD	CP, TT	EVH, WAT, PHC	4864	0	0	0	0	0	900	1929	1035	0
Zaire	Develop. of Manpower Training	G 6600098	ED	80	84		HR, ID	EVH, WSS	5544	0	0	0	0	1000	1225	0	1500	0
Zaire	Health System Development	G 6600057	HE	80	80	PVC	HR	EVH, PHC	610	0	0	0	0	610	0	0	0	0
Zaire	Integrated Rural Development	G 6600093	HE	81	81	PVD	TT	EVH	490	0	0	0	0	0	489	0	0	0
Zaire	North Shaba Development	G 6600059	FN	76	82	PVC	TT, HR	WAT	11925	3454	0	0	0	3550	2287	2421	2000	0
Zaire	North Shaba Rural Dev.	L 6600059	FN	79	79	PVC	TT, RD	WAT	3500	0	0	0	3500	0	0	0	0	0
								Subtotal	29933	3454	0	0	3500	5210	4901	4350	4535	0
Zimbabwe	Housing Guarantee	L 613HG01	HIG	80	80	LDC	TT, PV, ID	HIG, WAT, WSS	25000	0	0	0	0	25000	0	0	0	0
Zimbabwe	Housing Guarantee	L 613HG02	HIG	82	82	LDC	TT, PV, ID	HIG, WAT, WSS	25000	0	0	0	0	0	0	25000	0	0
Zimbabwe	Integrated Rural Development	G 6130209	ES	82	85	LDC	TT, CP	WSS, IRG	45000	0	0	0	0	0	0	15000	0	0
Zimbabwe	Low Cost Shelter	G 6130205	ES	81	82	LDC	TT	HIG, WSS	730	0	0	0	0	0	750	0	0	0
Zimbabwe	Program Grant	G 6130206	ES	81	81	LDC	TT, ID	WAT	24000	0	0	0	0	0	24000	0	0	0
Zimbabwe	Rehabilitation Program Grant	G 6130202	ES	80	80	LDC	TT, ID, HR	WAT, FSH	20000	0	0	0	0	20000	0	0	0	0
								Subtotal	139750	0	0	0	0	45000	24750	40000	0	0
									538863	5084	6245	49310	69153	105689	85569	87802	19026	10378

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## AFRICA WATER SUPPLY AND SANITATION PROJECTS

DATE: 02/02/84

COUNTRY	TITLE	PROJECT#	APPR	BEG	END	AGENT	ACT.CODE	SUBCAT	LDPI
								SUBTOTAL	155
Rwanda (Reg)	Five Water (IRT25)	E 69B0407	FN	B1	B1		TT	WAT	60
								SUBTOTAL	60
Somalia	Compreh. ERDWF Development	E 6490104	HE	79	B3	PVD	FE, ID, HR	WRD, WAT, GWC	6556
Somalia	Mogadiscio Water Supply	E 6490037	FA	62	75	LDC	TT, FE, HR	WAT, WRD	970
Somalia	Mogadiscio Water Supply	L 6490037	DL	62	75	LDC	TT, ID, HR	WAT, WRE	7150
								SUBTOTAL	14676
Sudan	GEENEF Municipal Water Supply	E 6500065	FDA	B2	B4	PVC	TT, ID	WAT	7500
Sudan	Fort Sudan Water Supply	E 6500050	FDA	B1	B3	LDC	TT, ID	WSS, WAT	2500
Sudan	Water & Sanitation Project	E 6500065	MFA	B2	B5	PVD	FE, TT, ID	WAT, WSS, EVH	6000
								SUBTOTAL	16000
Swaziland (R)	Water Filtration (IRT 17)	E 69B0407	FN	B0	B0		TT, CP, HR	WAT	29
								SUBTOTAL	29
Tanzania	Self-Help: Maswa Water Reserv.	B2-6	SD	B2	B2	PVD	TT, CP	WAT	3
Tanzania	Self-Help: Tancabar Water Works	B2-5	SD	B2	B2	LDC	TT, CP	WAT	4
								SUBTOTAL	7
Togo	Rural Water and Sanitation	E 6930210	HE	B0	B5	LDC	CP, HE, HR	WAT, EVH, WSS	12131
								SUBTOTAL	12131
Togo (R)	Spring Water (IRT 17)	E 69B0407	FN	B1	B2		TT, CP	WAT	75
								SUBTOTAL	75
Upper Volta	Rural Water Supply	E 6860228	SH	79	B4	LDC	HE, HR, TT	WSS, EVH, WAT	12286
								SUBTOTAL	12286
Zaire (Reg)	Lionzo Water (IRT27)	E 69B0407	FN	B2	B2		TT	WAT	25
								SUBTOTAL	25
								TOTAL	81099

## AFRICA WATER SUPPLY AND SANITATION PROJECTS

DATE: 02/02/84 PAGE: 2

COUNTRY	PROJECT#	FY80	FY81	FY82	FY83	FY84	FY85	FY86	FY87	FY88
	SUBTOTAL	155	0	0	0	0	0	0	0	0
Rwanda (Reg)	E 69B0407	0	60	0	0	0	0	0	0	0
	SUBTOTAL	0	60	0	0	0	0	0	0	0
Somalia	E 6490104	2400	2200	1195	0	0	0	0	0	0
Somalia	E 6490037	0	0	0	0	0	0	0	0	0
Somalia	L 6490037	0	0	0	0	0	0	0	0	0
	SUBTOTAL	2400	2200	1195	0	0	0	0	0	0
Sudan	E 6500065	0	0	0	7500	0	0	0	0	0
Sudan	E 6500050	0	2500	500	0	0	0	0	0	0
Sudan	E 6500065	0	0	6000	0	0	0	0	0	0
	SUBTOTAL	0	2500	6500	7500	0	0	0	0	0
Swaziland (R)	E 69B0407	29	0	0	0	0	0	0	0	0
	SUBTOTAL	29	0	0	0	0	0	0	0	0
Tanzania	B2-6	0	0	3	0	0	0	0	0	0
Tanzania	B2-5	0	0	4	0	0	0	0	0	0
	SUBTOTAL	0	0	7	0	0	0	0	0	0
Togo	E 6930210	1500	3246	1000	2091	2292	2060	0	0	0
	SUBTOTAL	1500	3246	1000	2091	2292	2060	0	0	0
Togo (R)	E 69B0407	0	61	15	0	0	0	0	0	0
	SUBTOTAL	0	61	15	0	0	0	0	0	0
Upper Volta	E 6860228	2500	2277	4003	0	0	0	0	0	0
	SUBTOTAL	2500	2277	4003	0	0	0	0	0	0
Zaire (Reg)	E 69B0407	0	0	25	0	0	0	0	0	0
	SUBTOTAL	0	0	25	0	0	0	0	0	0
	TOTAL	9373	15015	16368	12750	3742	3294	0	0	0

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Summary of WASH Project Activities  
for Africa Bureau

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Summary of WASH Project Activities

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T - 26 Tanzania . . . . .	F.R. #s 7,8
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T - 36 Burundi . . . . .	F.R. #24
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Summary of WASH Project Activities  
for Africa Bureau (cont.)

<u>Summaries of Specific Activities</u>	<u>WASH Report*</u>
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\*The June 1984 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 - May 26, 1984

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	\$ 3,213	C
T-16	Mauritania	Water Supplies from Rural Land Reclamation	68	\$ 18,634	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	95	\$ 35,784	C
T-34	Africa Bureau	Coordination and Facilitation of Use of WASH Technical Assistance Services in Africa	239	\$ 86,063	O
T-36	Burundi	Evaluation of Rural Water Supply Project	82	\$ 31,223	C
T-45	Benin & Togo	Village Health Education and Training: Program Planning, Implementation and Evaluation	151	\$ 75,897	C
T-47	Zaire	Technical Assistance in Review of Rural Primary Health Care Project Paper	17	\$ 5,131	C
T-53	Togo/USAID	Participation in AID Health Officers' Workshop in Lome, Togo, 15-20 November 1981	105	\$ 34,94	C

\*Status

C: Completed  
O: Ongoing

Summary of WASH Project Activities for Africa Bureau (cont.)  
September 2, 1980 - May 26, 1984

WASH Number	Country/Bureau	Title	Person Days Authorized	Estimated Costs	Status*
T-60	Sudan	Technical Assistance in Water Supply and Sanitation Planning and Training	220	\$ 78,301	C
T-64	Mali	Technical Assistance for Well Siting	80	\$ 18,327	C
T-75	Tanzania	Development of The National Sanitation Environmental Education Master Plan	170	\$ 57,579	C
T-78	Senegal	Training of Sanitarians	83	\$ 19,695	C
T-88	Lesotho	Technical Assistance to GOL in Waste Water Reuse and Bucket Latrine Disposal	70	\$ 28,684	C
T-91	Togo	Planning Assistance for Rural and Village Health Activities	28	\$ 13,339	C
T-95	Botswana	Kanye Village Sewerage and Sanitation Feasibility Study	100	\$ 38,778	C
T-100	Zaire	Technical Assistance in Training of Trainers for Public Health Nurse Supervisors and in Training for Spring Cappers	146	\$ 60,412	C
T-104	Kenya	Investigation of Appropriate Water and Sanitation Systems for Low Cost Housing	105	\$ 72,305	C
T-106	Central African Republic	Technical Assistance in Developing a National Drinking Water Supply and Sanitation Plan	326	\$ 143,735	O

\*Status

C: Completed  
O: On-going

Summary of WASH Project Activities for Africa Bureau (Cont.)  
September 2, 1980 - May 26, 1984

WASH Number	Country/Bureau	Title	Person Days Authorized	Estimated Costs	Status*
T-107	Africa Bureau	Technical Assistance in Development of Inter-Sectoral Water Supply and Sanitation Strategy Paper for the Africa Bureau - AFR/TR/HNP	65	\$ 20,687	C
T-108	Cameroon	Training Assistance to the Assistant Sanitary Technician Schools	140	\$ 8,409	C
T-116	Togo	Inservice Training on Spring Capping and Rainwater Harvesting	175	\$ 62,117	C
T-118	Cameroon	Cameroon/CARE-To Assist in Developing Water Project Aspects of CARE's 5-Year Development Plan	66	\$ 35,445	C
T-127	Senegal	Reconnaissance Visit to Prepare Workshop	19	\$ 7,060	C
T-131	Swaziland	Management Assistance to Public Health Inspectorate	85	\$ 25,859	O
T-137	Burundi	Develop Educational Plan for Spring Capping Project	30	\$ 11,679	C
T-141	Zaire	Rural Health Zones Program Planning	24	\$ 6,609	C
T-142	Tanzania	Public Health Education for Low Cost Sanitation	42	\$ 13,303	C
T-144	Malawi	Trainer for Public Health Workers	109	\$ 27,614	C
T-145	Togo	Assistance to Evaluation of RWS Project	27	\$ 11,042	C
T-147	Senegal	Design and Delivery of Workshop on Latrine Construction, Solid Wastes Disposal, and Wastewater Disposal for Rural Areas	75	\$ 25,032	C

\*Status

C: Completed  
O: On-going

Summary of WASH Project Activities for Africa Bureau (Cont.)  
September 2, 1980 - May 26, 1984

WASH Number	Country/Bureau	Title	Person Days Authorized	Estimated Costs	Status*
T-149	Malawi	Rural Water Supply Evaluation	164	\$ 74,720	C
T-157	Kenya	CARE Water Evaluation Guidelines	46	\$ 23,161	C
T-164	Ivory Coast	Technical Assistance for Alternate Design for Low Cost Sewerage Systems	105	\$ 27,607	C
T-166	Sierra Leon	Workshop on Latrine Construction	78	\$ 25,140	C
T-167	Zaire	Rainwater Harvesting Workshop	103	\$ 32,960	O
T-168	Swaziland	Evaluation of Rural Water Borne Disease Control Project	71	\$ 30,301	O
T-170	Togo	Technical Assistance for Development of Project Paper Amendment for Rural Water Supply and Sanitation Project		Cancelled	
T-172	Mauritania	Drought Emergency Assistance	100	\$ 40,341	C
T-174	Upper Volta	Rural Water Supply Project Evaluation & Recommendations	193	\$ 72,482	O
T-179	Mozambique	Assessment of Water and Sanitation Emergency	20	\$ 5,079	O

\*Status

C: Completed  
O: Ongoing

Summary of WASH Project Activities for Africa Bureau (Cont.)  
September 2, 1980 - May 26, 1984

WASH Number	Country/Bureau	Title	Person Days Authorized	Estimated Costs	Status*
C-47	Malawi	Evaluation Methods for Community Rural Water Supply and Sanitation Projects in Developing Countries: A Synthesis of Available Information		\$ 6,094	C
C-49A	Cameroon	Synthesis Report: Training of Rural Community Development			
C-49B	Cameroon	The Choice of Health Status Indicators to Evaluate Water and Sanitation Projects in North Cameroon: A Synthesis of Available Information		\$ 12,974	C
C-65	REDSO	Rural Water Supply Information for REDSO		\$ 53	C
C-97	Africa Bureau	Technical Support to APHA in Planning Africa Bureau Health Officers' Conference		\$ 1,821	C
C-176	Africa Bureau	Analysis of Community Health Education Participation Applied to WS&S Programs in Africa		\$ 14,297	C
C-223	Africa Bureau	O.M.V.S. Project Review		\$ 4,801	C
C-224	Africa Bureau	Water and Sanitation Strategy Paper		\$ 6,340	C
C-322	Kenya	Synthesis of Krystall Data		\$ 5,886	O

\*Status

C: Completed  
O: Ongoing

WASH Costs as of 5/26/84

AFRICA BUREAU

USAID BUREAU: AF

:B-0450	Integrating Water/Sanitation into Primary Health Care projects in Africa		
	WS&S Tech Assist		515
			-----
			515
C-0065	Information Request Rural Water Supply Development from REDSD/EA		
	Information		3
			..
			..
C-0097	Participate with APHA in Planning WS&S Agenda for Africa Bureau Health Officers Conference		
	WS&S Tech Assist		1,756
	CIC Co-ordin.		65
			-----
			1,821
C-0122	Zaire: Preliminary Work Leading to OTD		
	WS&S Tech Assist		72
			-----
			72
C-0155	Make Camera Ready Copy of Niger Report for AID on Word Processor		
	CIC Co-ordin.		2,283
			-----
			2,283
C-0224	Africa Bureau Water/Sanitation Strategy Paper		
	CIC Co-ordin.		760
	Supplies		45

Training	224
WS&S Tech Assist	5,017
Travel	264
	-----
	6,340

T-0053 Togo: USAID Health Officers' Workshop

CIC Co-ordin.	3,633
Equipment	32
Information	3,028
Miscellaneous	120
Supplies	3,590
Training	3,038
Travel	11,034
Tech. Transfer	2,941
Boston Support	725
WS&S Tech Assist	6,805
	-----
	34,946

Totals for Not Mission Specific: -----  
46,030

- Benin

:C-0103 Preliminary Activity Leading to WASH Technical Assistance to Benin Rural Water Supply Project

WS&S Tech Assist	108
	-----
	108

T-0045 Togo & Benin - Technical Assistance

WS&S Tech Assist	18,175
Boston Support	43
CIC Co-ordin.	3,012
Equipment	14
Information	864
Tech. Transfer	861
Travel	43,480
Training	5,619
Supplies	3,829
	-----

75,897

Totals for Benin:

-----  
76,005

- Botswana

:C-0248 Activities leading to possible OTD  
to Assist Botswana

WS&S Tech Assist 1,158  
Supplies 130  
CIC Co-ordin. 72  
-----  
1,360

T-0095 Botswana technical assistance for  
Kanye Village sewerage and  
sanitation

WS&S Tech Assist 16,618  
Boston Support 19  
CIC Co-ordin. 2,603  
Miscellaneous 133  
Supplies 4,302  
Travel 15,103  
-----  
38,778

Totals for Botswana:

-----  
40,138

- Burundi

:C-0087 Evaluate UNICEF Rural Water Supply  
and Sanitation Project

WS&S Tech Assist 66  
-----  
66

C-0369 Burundi: Preliminary Work Leading  
to an OTD

WS&S Tech Assist 484  
CIC Co-ordin. 7  
Travel 4  
-----

WS&S Tech Assist	33,779
CIC Co-ordin.	3,126
Information	5,847
Miscellaneous	25
Supplies	2,028
Travel	27,649
Tech. Transfer	5,847
	-----
	78,301

Totals for Sudan:	-----
	79,888

- Ghana	:B-0332	Tamale (Ghana): Improved Household Waste Disposal Systems	
		WS&S Tech Assist	1,388
			-----
			1,388

	C-0110	Preliminary Activity Leading to Request from Mission	
		CIC Co-ordin.	33
			-----
			33

Totals for Ghana:	-----
	1,421

- Kenya	:B-0400	KENYA; CARE RURAL WATER PROJECTS EVALUATION	
		WS&S Tech Assist	1,013
		CIC Co-ordin.	401
		Supplies	40
		Travel	29
			-----
			1,483

	B-0422	Kenya: Solid Waste Assistance to RHUDO/Kenya	
--	--------	--	--

	WS&S Tech Assist	449
	CIC Co-ordin.	6
	Travel	7
		-----
		462
C-0281	Kenya: Activities leading to OTD to assist Housing Office Water/Sanitation Project	
	WS&S Tech Assist	3,965
	CIC Co-ordin.	1,080
	Supplies	355
	Travel	2,477
		-----
		7,877
C-0322	Kenya: Synthesis of Krystall Data	
	Supplies	185
	Miscellaneous	1,734
	CIC Co-ordin.	532
	WS&S Tech Assist	3,247
	Travel	188
		-----
		5,886
T-0104	Kenya: Low-cost water and sanitation services in Umoja II (Phase I)	
	WS&S Tech Assist	43,377
	Tech. Transfer	637
	Travel	23,822
	CIC Co-ordin.	2,596
	Information	29
	Supplies	1,769
	Training	75
		-----
		72,305
T-0157	Kenya: Care Water Evaluation Guidelines	
	WS&S Tech Assist	16,057
	CIC Co-ordin.	2,099

	Supplies	520
	Travel	4,485
		-----
		23,161
		-----
Totals for Kenya:		111,174
- Lesotho	:A-0205 Obtain Approximately 100 Documents for Lesotho Mission	
	Information	230
	Supplies	7
		-----
		237
	C-0124 Coordinate Visit of Mr. Hendrich, Dir. of Lesotho Water Branch, July 6, 7, or 8	
	WS&S Tech Assist	248
		-----
		248
	C-0229 Lesotho: Preliminary Activity Leading to a Possible OTD	
	WS&S Tech Assist	263
		-----
		263
	T-0088 LESOTHO: Technical Assistance to GOL in Waste Water reuse and bucket latrine disposal.	
	Tech. Transfer	6,775
	Travel	10,707
	Supplies	1,303
	Information	43
	CIC Co-ordin.	2,097
	WS&S Tech Assist	7,759
		-----
		28,684
		-----

- Central African Republic :

C-0294 CAMEPOON: Preliminary work leading to an OTD for training of trainers for sanitary agents in August - September.

WS&S Tech Assist	1,366
CIC Co-ordin.	331
Supplies	224
Training	268
	-----
	2,189

T-0106 Central African Republic: Investigations into Decade Planning Activities

Training	473
Travel	26,752
WS&S Tech Assist	98,454
CIC Co-ordin.	8,075
Information	31
Miscellaneous	3,694
Supplies	6,256
	-----
	143,735

Totals for Central African Republic: -----  
145,924

- Sudan

:C-0050 Reproduce Documents on Refugee WS&S for USAID - Khartoum

CIC Co-ordin.	96
	-----
	96

C-0144 Preliminary Work Leading to an OTD

CIC Co-ordin.	965
Information	526
	-----
	1,491

T-0060 Sudan: Health Project Assessment

Totals for Lesotho: 29,432

- Mali :C-0102 Preliminary Activity Prior to Request from Mali

WS&S Tech Assist	950
CIC Co-ordin.	31
	-----
	981

T-0064 Mali: Hydrogeologist Technical Assistance

WS&S Tech Assist	9,228
Boston Support	45
CIC Co-ordin.	1,233
Information	682
Supplies	398
Training	29
Travel	6,712
	-----
	18,327

Totals for Mali: 19,308

- Malawi :B-0381 Malawi: Water Project Evaluation Terms of Reference

Boston Support	1,004
WS&S Tech Assist	8,432
Miscellaneous	1,241
Travel	6,106
Supplies	3,004
CIC Co-ordin.	695
	-----
	20,482

B-0384 Malawi: Review of Rural Water Supply Handbook

Training	44
CIC Co-ordin.	100
Miscellaneous	173

	WS&S Tech Assist	232
		-----
		549
C-0047	Synthesis of Evaluation Method & Approaches to Community Water Supply & Sanitation	
	Information	122
	CIC Co-ordin.	5,972
		-----
		6,094
C-0184	Respond to Malawi Request for Information Concerning Pipe Corrosion and Air Locks	
	Boston Support	92
	WS&S Tech Assist	170
		-----
		262
T-0144	Malawi: Trainer for Public Health Workers	
	Information	138
	CIC Co-ordin.	1,208
	WS&S Tech Assist	7,455
	Miscellaneous	842
	Travel	3,870
	Training	9,950
	Supplies	4,151
		-----
		27,614
0149	Malawi: Rural Water Supply Evaluation	
	CIC Co-ordin.	4,366
	WS&S Tech Assist	56,062
	Miscellaneous	609
	Supplies	1,890
	Travel	11,793
		-----
		74,720

			-----
	<b>Totals for Malawi:</b>		<b>129,721</b>
-	<b>Mozambique</b>	<b>:B-0438</b>	<b>Mozambique - Flood Disaster Assistance</b>
			CIC Co-ordin. 22
			WS&S Tech Assist 258
			-----
			280
		<b>T-0179</b>	<b>Mozambique - Assessment of Water and Sanitation Emergency</b>
			WS&S Tech Assist 478
			CIC Co-ordin. 820
			Supplies 407
			Travel 3,374
			-----
			5,079
	<b>Totals for Mozambique:</b>		-----
			<b>5,359</b>
-	<b>Mauritania</b>	<b>:B-0419</b>	<b>Mauritania Drought Emergency</b>
			WS&S Tech Assist 1,579
			Boston Support 885
			CIC Co-ordin. 547
			Travel 248
			Supplies 79
			-----
			3,338
		<b>B-0435</b>	<b>Mauritania - Identify French Speaking &amp; Well Program Supervisor</b>
			CIC Co-ordin. 72
			Boston Support 416
			-----
			488
		<b>T-0016</b>	<b>Review Effects of New Barrages on Health</b>

WS&S Tech Assist	1,269
CIC Co-ordin.	2,090
Supplies	20
Travel	15,255
	-----
	18,634

T-0172 Mauritania: Drought Emergency Assistance

Training	74
Supplies	798
Information	68
CIC Co-ordin.	1,830
Boston Support	11,859
WS&S Tech Assist	15,324
Travel	10,388
	-----
	40,341

Totals for Mauritania: -----  
62,801

- Niger

:T-0027 Technical Assistance for Niger

Supplies	362
Travel	9,224
WS&S Tech Assist	21,580
Information	2,398
CIC Co-ordin.	2,220
	-----
	35,784

Totals for Niger: -----  
35,784

- Senegal

:B-0308 Preparation of sanitation training materials for Senegal

CIC Co-ordin.	1,300
Information	262
Supplies	236
WS&S Tech Assist	20,108

	Travel	2,544
		-----
		24,450
C-0044	Provide Info. on Health Surveillance	
	Information	143
		-----
		143
C-0201	Senegal: Preliminary Work Leading to OTD	
	CIC Co-ordin.	33
	WS&S Tech Assist	341
		-----
		374
T-0078	Senegal: Assessment and Operational Training or Development of Training Materials	
	Information	183
	Supplies	1,322
	Training	660
	Travel	815
	Tech. Transfer	62
	WS&S Tech Assist	15,526
	CIC Co-ordin.	1,127
		-----
		19,695
T-0127	Senegal: Reconnaissance Visit to Prepare Workshop	
	Travel	6
	Training	3,326
	WS&S Tech Assist	2,565
	CIC Co-ordin.	698
	Supplies	465
		-----
		7,060
T-0147	Senegal: Workshop on Sanitation	

WS&S Tech Assist	1,024
CIC Co-ordin.	2,589
Travel	6,142
Training	14,321
Supplies	956
	-----
	25,032

Totals for Senegal:	-----
	76,754

- Sahel :C-0223 O.M.V.S. Project Review

WS&S Tech Assist	3,014
Boston Support	29
CIC Co-ordin.	317
Supplies	561
Information	203
Travel	677
	-----
	4,801

Totals for Sahel:	-----
	4,801

- Sierra Leone :B-0390 Sierra Leone: Preliminary Work Leading to OTD on Sanitation Workshop

Supplies	32
Training	1,175
CIC Co-ordin.	649
WS&S Tech Assist	1,268
	-----
	3,124

B-0166 Sierra Leone: Workshop on Construction

Travel	8,962
WS&S Tech Assist	11,949
CIC Co-ordin.	2,032
Training	1,504
Supplies	638

		Miscellaneous	55
			-----
			25,140
			-----
		Totals for Sierra Leone:	28,264
			-----
-	Somalia	:C-0099 Preliminary Activities Leading to Request from Somalia Information	165
			-----
			165
			-----
		Totals for Somalia:	165
			-----
-	Swaziland	:B-0339 Swaziland: Academy for Educational Development Has Requested Visual Perception Information	
		Travel	389
		WS&S Tech Assist	18,061
		Supplies	664
		CIC Co-ordin.	1,664
		Information	2
		Miscellaneous	540
			-----
			21,320
			-----
		B-0418 Identify an Evaluation team for Rural Water Borne Disease Control Project	
		Travel	5
		Supplies	70
		CIC Co-ordin.	273
		WS&S Tech Assist	379
			-----
			727
			-----
		C-0222 Swaziland: Collect/Send Information on Cholera control to AID/Swaziland	

	WS&S Tech Assist	350
		-----
		350
T-0131	Swaziland: Management Assistance to Public Health Inspectorat	
	WS&S Tech Assist	13,515
	Boston Support	43
	CIC Co-ordin.	1,790
	Miscellaneous	382
	Supplies	1,982
	Training	4,130
	Travel	4,017
		-----
		25,859
T-0168	Swaziland: Evaluation of Rural Water Borne Disease Control Project	
	Supplies	928
	WS&S Tech Assist	11,376
	CIC Co-ordin.	1,273
	Miscellaneous	507
	Travel	16,217
		-----
		30,301
	Totals for Swaziland:	-----
		78,557
- Tanzania	:C-0056 Tanzania Sanitation Training	
	Travel	14
	WS&S Tech Assist	183
	Training	275
	Information	19
	Boston Support	295
		-----
		786
C-0061	Tanzania Health & Environmental Monitoring Project (HEMP)	
	CIC Co-ordin.	425

	Travel	24
	WS&S Tech Assist	433
		-----
		882
C-0360	Tanzania: Public health Education for Low Cost Sanitation	
	WS&S Tech Assist	585
	CIC Co-ordin.	135
	Miscellaneous	86
	Supplies	18
		-----
		824
T-0026	Technical Assistance to Tanzania	
	Training	11,463
	Travel	5,440
	Tech. Transfer	1,911
	Boston Support	1,693
	WS&S Tech Assist	5,977
	Supplies	401
	CIC Co-ordin.	72
	Information	1,911
	Miscellaneous	1,954
		-----
		30,822
T-0075	Tanzania: Master Plan for Sanitation Training	
	Travel	19,440
	Tech. Transfer	10,072
	Boston Support	142
	CIC Co-ordin.	3,826
	Information	633
	Miscellaneous	87
	Supplies	2,831
	WS&S Tech Assist	15,036
	Training	5,512
		-----
		57,579
T-0142	Tanzania: Public Health Education for Low Cost Sanitation	

35

Travel	4,803
Training	228
Supplies	349
Miscellaneous	278
CIC Co-ordin.	566
WS&S Tech Assist	7,079
	-----
	13,303

Totals for Tanzania:	-----
	104,196

Togo

:B-0389 TOGO: Recruit two Technicians for  
Togo RWS Project

Supplies	16
CIC Co-ordin.	382
WS&S Tech Assist	459
	-----
	857

B-0417 Identify Sanitary Engineer for PP  
Revision

CIC Co-ordin.	401
Supplies	693
WS&S Tech Assist	1,146
	-----
	2,240

C-0076 Preparation for WASH Tech.  
Assistance - Togo.

WS&S Tech Assist	1,380
	-----
	1,380

T-0091 Togo Technical Assistance RWS  
Project

WS&S Tech Assist	7,617
CIC Co-ordin.	981
Information	142
Miscellaneous	52

Supplies	1,195
Training	45
Travel	3,307
	-----
	13,339

T-0116 Togo: Spring Capping/Rainwater Harvesting Training

WS&S Tech Assist	26,787
Miscellaneous	692
Supplies	3,517
Training	14,784
Travel	11,506
CIC Co-ordin.	4,831
	-----
	62,117

T-0145 Togo: Assistance to Evaluation of RWS Project

Travel	3,572
Supplies	390
Information	45
CIC Co-ordin.	844
WS&S Tech Assist	6,191
	-----
	11,042

Totals for Togo:

-----  
90,975

- Uganda

:C-0169 Setup and Meet with Cole Dodge, UNICEF-Uganda Country Rep. re: Potential WASH Assistance

Information	45
WS&S Tech Assist	234
	-----
	279

Totals for Uganda:

-----  
279

Upper Volta	:B-0428	Upper Volta: Project Evaluation	
		CIC Co-ordin.	662
		Miscellaneous	69
		Supplies	1
		Training	106
		WS&S Tech Assist	1,138
			-----
			1,976
	B-0446	Upper Volta/OFDA Operational Requirements of Well Drilling Rig	
		CIC Co-ordin.	10
		WS&S Tech Assist	485
		Miscellaneous	50
		Information	418
		Supplies	43
			-----
			1,006
	C-0236	Preliminary activity leading to request Upper Volta	
		CIC Co-ordin.	28
		WS&S Tech Assist	556
		Information	33
			-----
			617
	T-0174	Upper Volta Rural WS Project Evaluation & Recommendations	
		Information	209
		Supplies	598
		Training	263
		Travel	22,206
		CIC Co-ordin.	2,984
		WS&S Tech Assist	46,222
			-----
			72,482
			-----
		Totals for Upper Volta:	76,081

- Zaire

:B-0379 Zaire: Procurement of Handpumps for Zaire

CIC Co-ordin.	32
WS&S Tech Assist	203
Miscellaneous	703
Supplies	584
	-----
	1,522

B-0391 Zaire: Rainwater Harvesting Training

WS&S Tech Assist	1,845
CIC Co-ordin.	1,019
Miscellaneous	63
Supplies	268
Training	735
Travel	43
	-----
	3,973

B-0442 Zaire: Preliminary Response to Rural Water Supply Planning Request

WS&S Tech Assist	483
CIC Co-ordin.	29
	-----
	512

C-0289 Zaire: Preparatory work leading to an OTD on training of trainers and spring capping

CIC Co-ordin.	9
Training	403
WS&S Tech Assist	549
	-----
	961

T-0047 Zaire: Revision of PID Section Re: Latrine Construction & Water Sources

WS&S Tech Assist	2,931
CIC Co-ordin.	825

Information	391
Supplies	204
Tech. Transfer	780
	-----
	5,131

T-0100 Zaire: Spring Capping trainer and trainer of trainers to train PCV's and Zairians in July - August and produce a manual.

WS&S Tech Assist	26,667
CIC Co-ordin.	5,195
Information	130
Miscellaneous	957
Supplies	3,266
Training	1,713
Travel	22,484
	-----
	60,412

T-0141 Zaire: Rural Health Zones Program Planning

Travel	1,824
Training	18
Supplies	657
Miscellaneous	346
Information	31
WS&S Tech Assist	3,516
CIC Co-ordin.	217
	-----
	6,609

T-0167 Zaire: Rainwater Harvesting Workshop

CIC Co-ordin.	2,876
WS&S Tech Assist	18,554
Miscellaneous	454
Training	370
Supplies	439
Travel	10,267
	-----
	32,960

Totals for Zaire:

-----  
112,080

C-0297 CAR: preliminaries to future OTD  
for Decade Plan

WS&S Tech Assist	748
CIC Co-ordin.	588
Supplies	56
	-----
	1,392

C-0176 Analysis of Community Health  
Education Participation Applied to  
WS&S Programs in Africa

Training	268
Supplies	3
Travel	30
Information	301
WS&S Tech Assist	12,096
CIC Co-ordin.	1,599
	-----
	14,297

B-0404 IVORY COAST TECH ASST IN SITE  
SELECTON IN SECONDARY CITIES IN  
ALTERNATIVE DESIGNS FOR LOW COST  
SEWERAGE SYSTEMS

WS&S Tech Assist	3,941
CIC Co-ordin.	699
Miscellaneous	33
Supplies	90
Travel	4,365
	-----
	9,128

T-0164 Ivory Coast-Technical Assistance  
for Alternate Designs for Low Cost  
Sewerage Systems

WS&S Tech Assist	19,666
Boston Support	51
CIC Co-ordin.	1,184
Miscellaneous	55
Supplies	2,748
Travel	3,903
	-----
	27,607

Totals for Ivory -----  
36,735

3-0431 African Saheel Countries:  
Aquisition of Hydrological Maps

Boston Support	534
CIC Co-ordin.	16
	-----
	550

T-0010 Provide Expert Public Health  
Technical Assistance To Africa  
Bureau Regional Health Officers'  
Conference 25PD

CIC Co-ordin.	1,532
Information	1,681
Supplies	22
	-----
	3,235

T-0034 Technical Assistance to African  
Bureau - Awareness of WASH

CIC Co-ordin.	7,430
WS&S Tech Assist	53,054
Information	4,580
Miscellaneous	2,019
Supplies	1,200
Training	4,512
Travel	24,973
Tech. Transfer	6,544
	-----

104,312

T-0107 Africa Bureau: Intersectoral Water  
Supply and Sanitation Operational  
Strategy

WS&S Tech Assist	13,023
CIC Co-ordin.	1,348
Information	2,699
Miscellaneous	360
Supplies	708
Training	48
Travel	2,501
	-----
	20,687

Totals for AF: -----  
-----  
1,650,529



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.

November 21, 1980

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' Conference  
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 tentative  
Agenda for Abidjan, 7-13 December 80

1. WASH contractor/sub-contractor/consultants requested to provide the services of Public Health Officer in WASH CIC during period of 7-13, December 80, to prepare for travel, to attend, participate in, and give formal presentations at the Africa Bureau Regional Health Officers' Conference at Abidjan, Ivory Coast.
2. WASH Contractor Associate Director will be providing resource back-up to Mr. Victor Wehman (AID direct hire sanitary engineer) who has been asked to serve as a special resource person to the conference to discuss the International Drinking Water and Sanitation Decade, its implications on African health and nutrition programs and various resources (like the WASH) that African Bureau missions have to accelerate progress in water supply and sanitation interventions in their respective countries. The field people are also very interested in any inter-sectoral information that can be provided to assist in their competition for programing priority for WS&S activities in their respective countries.
3. WASH contractor authorized up to a total of 25 person days level 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 notes on attitudes, desires, interests, and needs of African Bureau health offices' 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 bibliography (by country) of primary inter-sectoral documents that are available that 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 synchrisis, (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

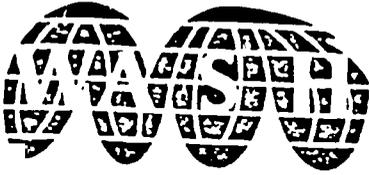
The Second A.I.D. African Health Officers Conference will be held in Abidjan, December 8-13, 1980. The Bureau for Africa requests that Mrs. Mary Ann Anderson, Mr. Victor Wehman and Mr. Edgar Smith of the Development Support Bureau serve as resource persons to the conference. We would have liked to have 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

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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 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. *MKS*  
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

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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

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. L3 1.A AND 1.B 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.

JA Vry  
VUU  
FEMC

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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

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ACTION  
COPY

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Department of State

INCOMING  
TELEGRAM

PAGE 01 NOUAKC 04977 0905522  
ACTION AID-35

034757 A109349

NOUAKC 04977 0905522

034757 A109.

ACTION OFFICE AFDP-03  
INFO AAHF-01 AFFW-04 AFCII-03 AFDP-02 STA-10 AADS-01 DSAG-02  
DSHE-01 CM8-01 RELO-01 MAST-01 AFDA-01 /034 A1 11

INFO OCT-01 /030 W

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P 090324Z DEC 50  
FM AMEMBASSY NOUAKHOTT  
TO SECSTATE WASHDC PRIORITY 7147  
INFO AMEMBASSY ABIDJAN

UNCLAS NOUAKHOTT 04977

AIDAC

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

E.O. 12055: 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. GIRN 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 BRANKIA 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 HLT 15 JANUARY 1951.

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

UNCLASSIFIED

52

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

WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 16

AMENDMENT NUMBER 1

December 15, 1981

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

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

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

1. Para. 2 of subject OTD Number 16 amended to read as follows:

"WASH contractor/subcontractor/consultants authorized to expend up to sixty-eight (68) person days of effort to accomplish this technical assistance effort."

2. Para. 4 of subject OTD Number 16 amended to read as follows:

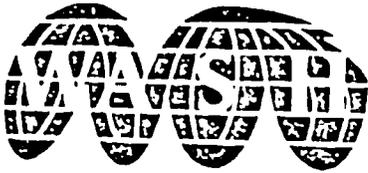
"Contractor authorized to expend up to 66 person days of international and/or domestic per diem to accomplish this TA effort. Contractor authorized to provide up to two (2) international round trips from consultant's home base to WASH CIC to Mauritania and return through WASH CIC to consultant's home base. Local travel in Mauritania authorized. Miscellaneous expenses authorized NTE \$300 without prior approval of S&T/HEA project manager.

3. Nothing follows.

VWV:ja

Wamp, Crosser & McKee  
WASH PROJECT

DEC 15 1981



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

5

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. Turmarello (AFR/DR/ENCR), 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.

DS/HEA:V.Wehrman:ja:2/13/81

10 DEC 80  
ACTION  
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Department of State

INCOMING  
TELEGRAM (K)

PAGE 01 DAR ES 06923 01 OF 02 102336Z 045449 AID0733

DAR ES 06923 01 OF 02 102336Z 045449 41

ACTION OFFICE 02NE-01  
INFO AA4F-01 AFPA-03 AFRA-03 AFDP-02 AFDR-06 PPCE-01 POPK-01  
PPPB-03 PPEM-01 STA-10 AMOS-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 W

A TECHNICIAN COURSE IS PROPOSED TO START IN JULY, 1981 AT THE ARDHU 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 MUMBIILI 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/W FOR DS/HEA/EH WASH PROJECT MANAGER

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

E.O.: 12055: N/A

SUBJ: GOVERNMENT OF TANZANIA REQUEST FOR WASH SERVICES

4. ANTICIPATED SHORT TERM TRAINING: IT IS PLANNED TO SEND 50 STUDENTS TO ROCKIE 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.

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:

THE PUBLIC HEALTH ENGINEERING DIPLOMA COURSE AT ARDHU

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.

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.

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ACTION  
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Department of State

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TELEGRAM (K)  
045437 AID

PAGE 01 DAR ES 06923 02 OF 02 191157Z 045437 AID7313

DAR ES 06923 02 OF 02 191157Z

VIETS

ACTION OFFICE DOME-01  
INFO ARAF-01 AFEA-03 AFRA-03 AFDP-02 AFDR-06 PFCE-01 PDR-01  
PPPB-03 PPEA-01 STA-10 AADS-01 CMGT-02 CIR-02 ENGR-02  
CHS-01 NEW-03 RELO-01 PAST-01 AFDA-01 /052 A1 11

INFO OCT-01 /035 V

-----119623 191206Z /12

R 101457Z DEC 80 ZOK CTG SD 1880W  
FM AMEMBASSY DAR ES SALAAM  
TO SECSTATE WASHDC 9030

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 ARDHI 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.

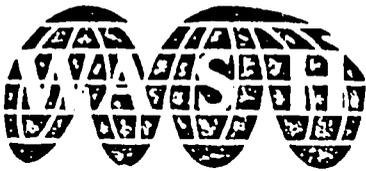
TANZANIAN ENGINEERS TRAINED THROUGH ABOVE PROGRAMS WILL BE REQUIRED TO SPEND A MINIMUM OF ONE YEAR WORKING WITH A CONTRACTOR, BUILDING SANITATION SYSTEMS IN ONE OF THE MAJOR OVIG. IDEALLY A FURTHER YEAR SHOULD BE SPENT WITH A CONSULTING ENGINEER DESIGNING SUCH WORKS.

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.

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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

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

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

*Q.W.W. Q.W.W.*

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. Tummarello), AFR/DR/HNP (Dr. Sheldon), an 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 <sup>(2)</sup> round trips in and out of Niger from consultant home base through Washington for briefing and debriefing. total  
NOT 060
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.

NIGER

Department of State

TELEGRAM

FORM 81  
ACTION 410-35

NIGER 0011 20015Z

052750 AIC3307

NIGER 0011 20015Z

052750

ACTION OFFICE AFDR-05  
INFO 44AF-01 AFPA-01 AFPM-04 CHG-01 PPOE-01 AFPS-01 PFPB-03  
PFER-01 STA-10 FM-22 4403-01 4404-01 4405-01 4406-01 4407-01  
CHG-01 FM-03 RELO-01 MAST-01 4404-01 4405-01 4406-01 4407-01

- RECOGNIZE TIME CONCERNING EFFORTS INVOLVED IN LINDING PEOPLE UP AND APPRECIATE FOR OR AND DUNEA CONTINUES SUPPORT. BISHOP

*Handwritten signature*

INFO OCT-01 /036 W

035215 20016Z /33

R 030102Z JAN 81  
FM AMEMBASSY NIGER  
TO SECSTATE WASHDC 0216

UNCLAS NIGER 00315

AIDAC

E.O. 12958: N/A

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, REGARDING NO DIFFICULTIES ASSOCIATED WITH LINDING UP AN EVALUATION TEAM AS WE HAVE IN MIND, REQUEST DUNEA 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 MACLEAN ALSO AT JOHNS HOPKINS. MACLEAN COULD ALSO LIT -S IMMUNIZATION ASPECTS OF PROJECT. LINDSAY ROBINSON, AS HEALTH ECONOMIST OR RALPH ANDREWS, IF HIS FRENCH IS ACCEPTABLE. TO EXAMINE THE ENVIRONMENTAL SANITATION COMPONENT, CAN THE USAH PROJECT DO EITHER OR BOTH: (1) PROVIDE SOMEONE (ISELY) AND/OR FUND SOME 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 MACLEAN UNAVAILABLE, ISELY WOULD BE CANDIDATE FOR PUBLIC HEALTH PHYSICIAN WITH HEALTH EDUCATION AND ENVIRONMENTAL SANITATION EXPERTISE NEEDED. THE NIGER 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 MACLEAN NOT AVAILABLE TRY BOCES BERNIER AT CDC FOR EPIDEMIOLOGY AND SURVEILLANCE COMPONENT. WILL NOT RULE OUT OTHER CANDIDATES PROPOSED 8FUA/CR 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 AND 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 LIST OF PROBLEMS AND DISADVANTAGES OF RURAL RURAL AREAS. TEAM WILL TO BE AVAILABLE DATA AND BE IN THE KNOWLEDGE OF THE PROBLEMS IN VILLAGES. TRAVEL TO DEPARTMENTS TO RE. E. TO THE VILLAGES HEALTH TEAMS IN TRAINING AND IN ACTION, ASSESS PROBLEMS OF COMPONENTS LISTED ABOVE, IDENTIFY CONSTRAINTS TO THE PROJECT GOALS, RECOMMEND MODIFICATIONS TO THE PROJECT AGREEMENT AND REPORT IN MODIFYING ORIGINAL PROJECT PAPER. FRENCH LANGUAGE A MUST.

UNCLASSIFIED

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WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 27

AMENDMENT NO. 1

April 6, 1982

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

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

*VWW*

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

1. Para 2 of subject OTD #27 is cancelled. New para 2 of OTD #27 is now to read as follows:

"Wash contractor/subcontractor/consultants authorized to expend up to 95 person days effort over a 10 month period to accomplish this technical assistance effort."

2. Para 11 of subject OTD #27 is cancelled.  
New para 11 of OTD #27 is now to read as follows:

"WASH contractor authorized up to 80 person days of international/domestic per diem to accomplish technical assistance effort."

3. Nothing follows.

VWW:ja

WATER AND ANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 27  
AMENDMENT NO. 2  
17 January 1983

OTD # 27 (Ref A) P. 11  
17 JAN 1983

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

JAN 18 1983

FROM: Mr. Victor W. R. Wehman Jr., P.E., R.S.  
AID WASH Project Manager  
AID/S&T/H/NS

17 JAN 1983

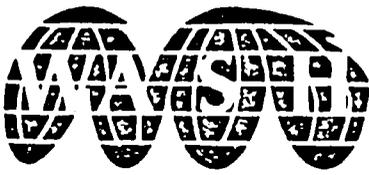
SUBJECT: Provision of Technical Assistance Under WASH Project  
Scope of Work for USAID/Niger

REFERENCE: A) OTD # 27, dated 13 Feb 1981

1. Para 11 of subject OTD # 27 (Ref A) is cancelled. New para 11 of subject OTD # 27 (Ref A) is now to read as follows:

"11. WASH contractor authorized up to 82 person days of international and/or domestic per diem to accomplish this technical assistance effort."

2. Nothing follows.



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

6/6

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

*JWW*

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 montns to carry out this difficult, diplomatic, and hopefully tecnnically 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.

WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 34  
Amendment Number 1  
January 27, 1982

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

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 AFR/DR

REF: A) OTD #34, dated April 6, 1981

1. Paragraph 2 of subject OTD #34 (dated April 6, 1981) is cancelled. New paragraph 2 to subject OTD #34 to read as follows:

"WASH contractor/subcontractor/consultants authorized to expend up to one hundred (100) person days effort over a twenty (20) month period to accomplish this technical assistance effort."

WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 34  
Amendment No. 2  
September 16, 1982

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

FROM: Mr. Victor W. R. Wehman Jr., P.E., R.S.  
AID WASH Project Manager  
AID/S&T/H/WS

*VWR*

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

REFERENCES: A) OTD # 34, dated 6 April 1981  
B) OTD # 34 (Amendment No. 1), dated 27 Jan 1982

1. Paragraph 2 of subject OTD # 34 (dated April 6, 1981) is cancelled. New para 2 to subject OTD # 34 is now to read as follows:

"2. WASH contractor/subcontractor/consultants authorized to expend up to one hundred and twenty (120) person days of effort over a twenty-two (22) month period to accomplish this technical assistance effort."

2. Nothing follows:

WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 34  
AMENDMENT No. 3  
November 10, 1982

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

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

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

REFERENCES: A) OTD #34, dated 6 April 1981

1. Para. 2 of subject OTD #34 (Ref. A) is cancelled. New para. 2 to subject OTD #34 is now to read as follows:

"2. WASH contractor/subcontractor/consultants authorized to expend up to one hundred and eighty (180) person days of effort over a twenty-four (24) month period to accomplish this technical assistance effort."

2. Nothing follows.



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

72

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

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

April 6, 1981

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

*VWW*

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. Sheppherd), 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

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INCOMING  
TELEGRAM

PAGE 01 BUJUMB 0620 231472 7413 020477 AIDU133

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

ACTION OFFICE AFDR-06  
INFO AAAP-01 AFEA-03 AFCA-03 PPCE-01 POPR-01 PFPB-03 PFEA-01  
STA-10 AADS-01 DSHE-01 ENGR-02 CHS-01 AFDA-01 RELO-01  
MAST-01 /037 A4 623

3. SCOPE OF SERVICES REQUIRED:  
A. DEVELOP EVALUATION CRITERIA FOR THE SPRING CAPTATION COMPONENT OF THE UNICEF RURAL WATER PROJECT;

INFO OCT-01 /026 W  
-----101276 2314372 /J4  
R 231445Z MAR 81  
FM AMEMBASSY BUJUMBURA  
TO SECSTATE WASHDC 1394  
AMEMBASSY NAIROBI

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;

UNCLAS BUJUMBURA 0520  
AIDAC  
FOR: AID/W FOR AFR/DR AND DS/HEA/HE  
NAIROBI FOR REDSO/EA  
E.O. 12065: N/A  
SUBJ: REQUEST FOR WATER AND SANITATION FOR HEALTH PROJECT (WASH) SERVICES

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;

1. SUMMARY: AAO REQUESTS WASH ASSISTANCE TO HELP EVALUATE IMPACT OF ON-GOING UNICEF/R'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.

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

2. PROBLEM:  
A. BURUNDI IS CLASSIFIED BY THE U.N. AS ONE OF THE 39 QUOTE RELATIVELY LEAST-DEVELOPED COUNTRIES UNQUOTE. WITH A YEARLY AVERAGE RAINFALL OF 600 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.

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 GRB OFFICIALS AND POSSIBLE HEALTH AND OTHER IMPACTS OF SUCH A PROGRAM.

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 73 COMMUNES OF THE COUNTRY THROUGH A NETWORK OF TRAINED COMMUNITY WORKERS AND A SUBSTANTIAL SELF HELP CONTRIBUTION.

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;

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

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 AAO AND UNICEF;

D. LANGUAGE REQUIREMENTS - FRENCH 5-3;

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 M. BLANK FOR SUBJECT ACTIVITY.  
COOK

WASH

WEN/192/WASH  
Received DS/HEA (Webster)  
0943 21 Mar  
Passed to WASH 21 MAR 81

UNCLASSIFIED

ns



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

76

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

THRU: DS/HEA: Victor W.R. Wehman, Jr., P.E. R.S.  
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 - Statment of Work),  
2) COTONOU 0719, (Para 1), 3) LOME 02939, (Para 5) and Austin memo  
March 19, 1981 to Lundgren

Handwritten signature of John H. Austin and Victor W.R. Wehman, Jr. (V.W.W.)

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 arrangment 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 appraised 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

12

**BENIN**

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Department of State

INCOMING TELEGRAM

PAGE 01 LOME 02174 01 OF 04 020756Z 4813 070113 A105123  
ACTION AID-35

LOME 02174 01 OF 04 020756Z 4813 070113 A1051

ACTION OFFICE AFR-06  
INFO AAAF-01 AFR-03 AFR-03 CH6-01 PPCE-01 PDPR-01 PPPB-03  
PPEA-01 STA-10 FM-02 AADS-01 CMGT-02 CTR-02 DCHE-01  
CH8-01 AFDA-01 HEW-09 RELO-01 MAST-01 DO-01 AFPM-01  
/053 A4 82

INFO OCT-01 /036 W  
-----031637 020756Z /34

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

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/MANAGER 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 HELLM 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: 72-1111021.0; 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.: WAAC, NEDSO/WA, AMERICAN EMBASSY B.P. 1712, ABIDJAN, IVORY COAST; BLOCK 15: AS REQUIRED BY AFR/DR;  
BLOCK 16: COOPERATING COUNTRY AGREEMENT CONTAINED IN

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 FS1-3 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 WAYER SUPPLY WFO SANITATION (AUGUST 1980); 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/CAWARAP. 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 JEC*

*WENMAN  
AUSTIN*

*Vic.*

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

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Department of State

INCOMING  
TELEGRAM

PAGE 01 LOME 02174 02 OF 04 02006Z 4847 070116 AID5125  
ACTION AID-35

LOME 02174 02 OF 04 02006Z 4847 070116 AID51

ACTION OFFICE AFOR-06  
INFO AAAF-01 AFRA-03 AFCV-03 CH6-C1 PPCE-01 PDR-01 PPPD-03  
PPEA-01 STA-10 FM-02 AADS-01 CMGT-02 CTR-02 DSHE-01  
CH8-01 AFDA-01 HEW-09 RELO-01 MAST-01 OO-01 AFPM-01  
/053 A4 82

INFO OCT-01 /036 W

-----031756 02006Z /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 THE 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

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ACTION OFFICE AFDR-06  
INFO ARAF-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 HEW-09 RELO-01 MAST-01 DO-01 AFFM-01  
/053 A4 82

INFO OCT-01 /036 W

-----032015 020814Z /34

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

UNCLAS SECTION 03 OF 04 LOME 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. (18,54--594 281) 73 3/03:535 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 FORTY 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 GPRD 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 = 1,000 18,000 = 96,000

**(E) TRAVEL & TRANSPORTATION**

- 1) INTERNATIONAL
- A) AIRFARE (5 TRIPS) 10,000
- B) STOP OVER P.R. DIEM 1,000
- C) TAXIS 500

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PROJECTS.

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INFO AAAF-01 AFRA-03 AFCW-03 CH6-01 PCPE-01 PDPR-01 PPPB-03  
PPEA-01 STA-10 FM-02 AADS-01 CMGT-02 CTR-02 OCHE-01  
CM8-01 AFDA-01 HEV-09 RELO-01 HAST-01 DO-01 AFPM-01  
/053 A4 82

INFO OCT-01 /036 W

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

UNCLAS SECTION 04 OF 04 LOME 02174

AIDAC

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

-	D) EXCESS BAGGAGE	500	
			12,000
-	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) MISCELLANEOUS	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 COMPONENT RECENTLY SUBMITTED BY HEALTH PLANNING CONSULTANT, OUR 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 LATER IN THE FOLLOWING TASK:

- A) THE DEVELOPMENT OF A PROJECT EVALUATION INSTRUMENT (QUESTIONNAIRES, 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 UNDERSTANDING 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, PROBABLY, NOT MORE THAN SIX WEEKS.

5. IN ORDER TO GIVE HEALTH ADVISOR NECESSARY TIME TO ESTABLISH REQUIRED CONTACTS WITH MCH OFFICIALS AND TO BECOME FAMILIAR WITH PROJECT PLANS AND NEEDS, WASH CONSULTANT SHOULD NOT ARRIVE SOONER THAN ONE MONTH AFTER ARRIVAL OF HEALTH ADVISOR IN COTOHOU. 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 PIOT 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 funds.

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2260 054490 AID216J

COTONO 00719 131437Z

2260 054490 AID21

REVIEW OF PL 480 PROGRAM IN APRIL, AS REQUIRED BY BENIN  
AUDIT REPORT 90-24.

ACTION OFFICE AFCW-03  
INFO AAAF-01 AFRA-03 AFDR-06 IG-01 PDC-02 IGPP-01 C-01 CALI-02  
CMGT-02 CPS-02 CTR-02 DSHE-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

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

R 131405Z APR 81  
FM AMEMBASSY COTCHOU  
TO SECSTATE WASHDC 3381  
AMEMBASSY ABIDJAN  
INFO AMEMBASSY LOHE

*W B Amar*

*BENIN OTD (Futer)*

UNCLAS COTONOU 0719

AIDAC

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

ABIDJAN FOR BRADSKY, HULCAHY, WAGNER

E.O. 12855: N/A  
SUBJECT: BENIN STATUS REPORT

REF: COTONOU 0049 PRIOR STATUS REPORT

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

1. BENIN RURAL WATER 688-0201. 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) P/L NO. 1 WILL BE ISSUED. PROCUREMENT TEAM HAS RETURNED FROM SUCCESSFUL U.S. VISIT TO SER/COM, UNH/CDP, MANUFACTURERS. P/O:XS AND P/O: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 688-0207. FIELD DEMONSTRATIONS WILL BEGIN ASAP AT DISTRICT LEVELS AND NATIONAL SEMINARS AT REGIONAL LEVEL COMPLETED VERY SUCCESSFULLY.
3. PARAKOU-MALANVILLE ROAD. 688-003/4 RECEIVED GPRB MAINTENANCE PLAN AND REDSO HAS RECOMMENDED TO ASSISTANT ADMINISTRATOR/AFRICA FOR CLOSURE OF RECOMMENDATION NO. 2 OF BENIN AUDI REPORT 88-24.
4. COTONOU BRIDGE/DAM 688-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 QUESTIONNAIRES AS OF 01 APRIL 81. SOURCE/ORIGIN PROPRIETARY WAIVER FOR COMPASSES RECEIVED. CERTIFICATION SYSTEM FOR MASI VOUCHERS ESTABLISHED.
6. AMP. FY 81 TRAINING PLAN APPROVED AND DOLS 85,000 ALLOTTED. OBLIGATION OF FUNDS WILL BE COMPLETED ASAP. THE THREE AFRAD 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

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WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 45  
AMENDMENT No. 1  
December 15, 1982

TO: 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  
AID/S&T/H/WS

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

REFERENCE: A) OTD #45 dated July, 1981

1. Paragraph 2 of subject OTD #45 (Reference A) is cancelled.  
New para. 2 of subject OTD #45 is now to read as follows:

"2. WASH contractor authorized to expend up to 151 person  
days of effort over an 18 month period to accomplish this  
technical assistance effort."

2. Nothing follows.

Camp, Dresser & McKee, Inc.  
WASH PROJECT

DEC 16 1982



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

A small, handwritten signature or mark is located in the bottom right corner of the page.

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!

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

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6321 017630 AID6

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ACTION OFFICE AFDR-06

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

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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 (660-0036)

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/CAWARAP

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WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 47  
AMENDMENT NO. 2  
17 January 1983

Camp, Dresser & McKee, Inc.  
WASH PROJECT

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

FROM: Mr. Victor W. R. Wehman Jr., P.E., R.S.  
AID WASH Project Manager  
AID/S&T/H/WS

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

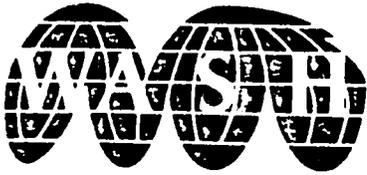
REFERENCE: A) OTD # 47, dated 24 July 1983

JAN 18 1983

*VWR*

1. Para 2 of subject OTD # 47 (Ref A) is cancelled. New para 2 of subject OTD # 47 (Ref A) is now to read as follows:  

"2. WASH contractor authorized to expend up to 17 person days of effort over a three (3) month period to accomplish this technical assistance effort."
2. Nothing follows.



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

91

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/HAQWW*  
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..

AFRICA BUREAU HEALTH OFFICERS CONFERENCE.

UNITED STATES INTERNATIONAL DEVELOPMENT COOPERATION AGENCY

AGENCY FOR INTERNATIONAL DEVELOPMENT

WASHINGTON DC 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.

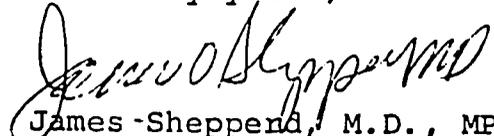
APHA will plan, organize and conduct one conference a year in collaboration with AID. These conferences will be designed primarily to keep AID and AID contractors' field staff and national participants current on developments in the field of primary health care and to provide for the exchange of information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

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

TELEGRAM *Aut*

PAGE 01 STATE 221236 8416 054879 AID3149

STATE 221236

8416 054879 57

ORIGIN OFFICE AFDR-06  
 INFO AAF-01 AFEM-03 AFEA-03 AFQA-03 AFPA-04 AFCA-03 AFCA-03  
 PEPS-05 AAST-01 CMGT-02 CTR-02 STATE-01 HHS-09 AFDA-01  
 RELO-01 IC-00 /048 AD

INFO CCI-00 INR-10 AF-10 SIG-23 OES-09 /057 R

DRAFTED BY AID/AFR/DR/HM: JANDERSON  
 APPROVED BY AID/AA/AFR PERLODDY  
 AID/AFR/DR LHEILMAN  
 AID/AFR/DR/HM JOHNEPPO  
 AID/AA/AFR/DR JOCHERING  
 AID/AFR/DR/POP JTRAYFORS  
 AID/OS/NEA DFERGUSON  
 AID/PH/TO DOREEDON

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 FM SECSTATE WASHDC  
 TO AMEMBASSY ABIDJAN PRIORITY  
 AMEMBASSY ADDRA PRIORITY  
 AMEMBASSY ADDIS ABABA PRIORITY  
 AMEMBASSY BANJO 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 KINSHASA PRIORITY  
 AMEMBASSY KIGALI PRIORITY  
 AMEMBASSY KINSHASA PRIORITY  
 AMEMBASSY LAGOS PRIORITY  
 AMEMBASSY LILONGWE PRIORITY  
 AMEMBASSY LUSAKA PRIORITY  
 AMEMBASSY MADRID PRIORITY  
 AMEMBASSY MBABANE PRIORITY  
 AMEMBASSY MOGADISHU PRIORITY  
 AMEMBASSY MONROVIA PRIORITY  
 AMEMBASSY NAIROBI PRIORITY  
 AMEMBASSY NIAMEY PRIORITY  
 AMEMBASSY NOUAKHOTT PRIORITY  
 AMEMBASSY OUAGADOUGOU PRIORITY  
 AMEMBASSY PRATA PRIORITY  
 AMEMBASSY YAOUNDE PRIORITY  
 AMEMBASSY LOME PRIORITY  
 AMEMBASSY SALISBURY PRIORITY

-----225322 262658Z /22  
 3.3 *can file*

UNCLAS STATE 221236

AIDAC

E.O. 12855: N/A

TAGS:

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

REF: STATE 23342

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, TOGO, NOVEMBER 13-20, 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 MOST 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. SNEPPER/MS. J. ANDERSON. CLARK

UNCLASSIFIED

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

AMENDMENT NO. 1

April 6, 1982

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

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

VWW

SUBJECT: Provision of Technical Assistance Under WASH Project  
Scope of Work for AFR/DR/HPN for the Africa Bureau  
Health Officers Workshop in Lome, Togo.

1. Para 2 and para 3 of subject OTD #53 are cancelled. New para 2  
and 3 of subject OTD #53 is now to read as follows:

" 2. WASH contractor/subcontractor/consultants author-  
ized to expend up to 85 person days effort over a 7  
month period to accomplish this technical effort."

" 3. Sixty (60) person days of international and  
domestic per diem is authorized."

2. Nothing follows.

WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 53  
AMENDMENT No. 2  
17 January 1983

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

FROM: Mr. Victor W. R. Wehman Jr., P.E., R. S. *WASH*  
AID WASH Project Manager  
AID/S&T/H/WS

SUBJECT: Provision of Technical Assistance Under WASH Project  
Scope of Work for AFR?DR?HN for the Africa Bureau  
Health Officers Workshop in Lome, Togo.

REFERENCE: A) OTD # 53, dated 27 August, 1981

1. Para 2 of subject OTD # 53 (Ref A) is cancelled. New para 2 of subject OTD # 53 (Ref A) is now to read as follows:

"2. WASH contractor/subcontractor/consultants authorized to expend up to 105 person days of effort over a 10 month period to accomplish this technical assistance effort."

2. Para 3 of subject OTD # 53 (Ref A) is cancelled. New para 3 of subject OTD # 53 (Ref A) is now to read as follows:

"3. WASH contractor authorized to expend up to 45 person days of international/domestic per diem to accomplish this OTD scope of work. Contractor authorized a total of three (3) international round trips from consultants home base through Washington D.C. to Lome, Togo and return to consultants home base by way of Washington D.C. Contractor authorized to expend up to six (6) domestic trips from consultants home base to Washington D.C. and return for purposes of preparation of workshop and debriefing, follow-up on workshop."

3. Nothing follows.

Camp. Dresser & Co. Inc.  
WASH PROJ

JAN 24 1983



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

92

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/HN (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.

*Healy*  
WASH PROJECT  
OCT 6 1981  
WASH PROJECT & M.K. Inc.

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.

VW:ja

100

Department of State

INCOMING TELEGRAM

PAUF 01 KHARTO 02159 01 OF 02 160746Z 5815 J79767 A100036  
ACTION AID-33

KHARTO 02159 01 OF 02 160746Z 5815 079767 A100036

ACTION OFFICE AFDR-05  
INFO AAF-01 AFEH-01 PPCE-01 PPEH-01 PDPR-01 PPHB-03 FM-02  
PERS-05 WAST-01 STAG-01 STEY-01 SIFE-01 ENGH-02 POP-04  
AFCA-01 CHIO-01 TRSY-05 RELO-01 DAEH-01 MAST-01 AFPH-01  
/045 #4 816

INFO OCT-01 AF-10 ED-05 AGRE-10 CES-03 /053 W  
-----225730 160510Z /14

P 160539Z SEP 81  
TO RUEHC/ECOSTATE WASHDC PRIORITY 2310  
INFO RUEADSSY HAIKOEI 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 198527

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. FOR 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.  
NEEDS: REFORM ENERGY OFFICER FOR 2 WEEKS.

B. RURAL RENEWABLE ENERGY PROJECT (650-0041); LOP AMT \$4,000,000; CONTRACTING ACTION: MEDIUM PRIORITY. OCTOBER 1981 TWO-WEEK REQUIREMENT FOR REDCO (OP 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 REDCO (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 MANPOWER DEVELOPMENT (650-0021); 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 (650-0020); 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 (650-0010); LOP AMT \$1250 MILLION; EVALUATION HIGH PRIORITY. DECEMBER 1981. PERSONNEL REQUIREMENTS: MISSION EVALUATION OFFICER AND PROJECT

MANAGER.  
OTHER: OUTSIDE AGRONOMIST AND AGRICULTURE DEVELOPEMENT EXPERTS, EACH FOR ONE MONTH.  
FUNDING: FY - 1982- \$2.505 MILLION  
D. AGRICULTURE PRODUCTION & MARKETING (650-0054); 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- 3.867 MILLION  
E. SOUTHERN REGION AGRICULTURE DEVELOPEMENT (650-0046) LOP AMT \$20 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-MONTH 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: REDCO REGIONAL FOOD FOR PEACE OFFICER (RFFFO). OCTOBER 1981 - 1 WEEK; DECEMBER 1981 - 1 WEEK. JUNE 1982 - 1 WEEK AND SEPTEMBER 1982 - 1 WEEK.  
FUNDING FY 1982 - \$20 MILLION; FY 1983 - \$20 MILLION.  
G. PL 480 TITLE II. GULF. IN GRANT \$1 MILLION. EVALUATION OF FIRST EIGHTEEN MONTHS OF ACTIVITY. MEDIUM PRIORITY. PERSONNEL REQUIREMENTS: REDCO RFFFO FOR 10 DAYS. JANUARY 1982. DAVIDSON

PAGE 01 KHARTO 00159 02 OF 02 160759Z 5016 070760 #100599  
ACTION AID-00

KHARTO 00159 02 OF 02 160759Z 5016 070760 A1  
AND CAPITAL PROJECTS DEVELOPMENT OFFICER.  
REDDO: SENIOR ROAD ENGINEER, 107 ONE WEEK.  
OTHER: ROAD ECONOMIST FOR ONE MONTH. FUNDING: FY 1952-120 MILLION  
D. RIVER TRANSPORT; LOP AMT TO BE DETERMINED; DETERMINE  
POSSIBILITIES OF USE PL 460 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 1961. TWO PERSON MONTHS OF OUTSIDE RIVER  
NAVIGATION TRANSPORT/AIDS EXPERTISE.

ACTION OFFICE AFDP-00  
INFO AAF-01 AFEA-03 FPCE-01 FREN-01 PDPR-01 FPPD-03 FII-07  
PEFO-05 RAAT-01 STAG-02 STEY-01 STLE-01 ENGR-02 POP-04  
AFDA-01 CHID-01 TRDY-05 RELO-01 DIEN-01 HART-01 AFPH-01  
/045 AA 216

INFO OCT-01 -F-10 EB-03 AGRE-00 CEC-03 /003 W  
-----226253 1606122 /14

P 160639Z SEP 61  
FM AMEMBASSY KHARTOUM  
TO SECSTATE WASHDC PRIORITY 0311  
INFO AMEMBASSY WAIKOB PRIORITY

UNCLAS SECTION 2 OF 2 KHARTOUM 0159

AIDAC

4. HEALTH SECTOR

A. NORTHERN PRIMARY HEALTH CARE (550-0011); LOP AMT 15.5 MILLION; EVALUATION MEDIUM PRIORITY; MID JANUARY 1962

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 1962 - 3.3 MILLION

B. SOUTHERN PRIMARY HEALTH CARE (550-0019); LOP AMT 13.7 MILLION; EVALUATION, MEDIUM PRIORITY, MARCH 1962

PERSONNEL REQUIREMENTS: MISSION: HEALTH OFFICER AND ENGINEER AND EVALUATION OFFICER (PART TIME ONLY). REDDO: 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 12 MILLION; STRATEGY FORMULATION AND PID PREPARATION. MEDIUM PRIORITY.

STRATEGY FORMULATION: NOVEMBER 1961

PERSONNEL REQUIREMENTS: MISSION: HEALTH OFFICER AND PROGRAM OFFICER.

AID/W POPULATION OFFICER; OTHER: 2 SPECIALISTS, EACH ONE MONTH. PID PREPARATION. BEGIN MARCH 1962 AND SUBMIT TO

AID/W AUGUST 1962. 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 HEALTH (WASH); SUBSECTOR REVIEW AND STRATEGY FORMULATION. LOW PRIORITY.

OCTOBER-NOVEMBER 1961

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

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

*Handwritten note:* Had a meeting with the mission on 2/15/62

5. INFRASTRUCTURE IN SUPPORT OF AGRICULTURE/HEALTH SECTORS.

A. PORT SUDAN REFUGEE WATER SUPPLY (550-0050); LOP AMT 12.0 MILLION; ENGINEERING REVIEW OF FINAL DESIGN; HIGH PRIORITY. DECEMBER 1961 FOR 1 WEEK.

PERSONNEL REQUIREMENTS: REDDO ENGINEER ALONG WITH MISSION ENGINEER.

B. SOUTHERN SUDAN ACCESS ROAD (550-0036); LOP AMT 11.0 MILLION; ENGINEERING MONITORING OF ROAD CONSTRUCTION; HIGH PRIORITY. PERSONNEL REQUIREMENTS: ONE WEEK PER MONTH OF REDDO SENIOR ROAD ENGINEER DURING FY 1962.

C. SOUTHERN RURAL SUDAN INFRASTRUCTURE PHASE II (550-0043); LOP AMT 10.0 MILLION; PID PREPARATION. MEDIUM PRIORITY. BEGINS JUNE 62. SUBMIT TO AID/W JULY 1962.

PERSONNEL REQUIREMENTS: MISSION: ENGINEER, SOCIAL SCIENTIST

DUPLY

Department of State

TELEGRAM

PAGE 01 KHARTO 06506 21112

6796 022400 A100436

TO 06506 2111202

6796 022400 A1

*Handwritten:* WASH

ACTION OFFICE DSHE-01  
 INFO AAAF-01 AFAA-03 AFDP-02 AFDR-06 PPCE-01 POPR-01 PPPB-03  
PPEA-01 AADS-01 AFDA-01 RELO-01 HAST-01 /0.J A1 1123

INFO CCT-01 /036 W

-----144615 2111212 /34

R 211075Z JUL 81  
 FM AMEMBASSY KHARTOUM  
 TO SECSTATE WASHDC 1468  
 INFO AMEMBASSY NAIRCB1

*Handwritten:* WEHARTO

*Handwritten:* Please note  
K

UNCLAS KHARTOUM 6506

AIDAC

AID/W FOR DS/HEA/EH  
 NAIRCB1 FOR REDSO

E.O. 12865: 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.

*Handwritten:* Passed to WASH  
 view  
 7/31/81

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

- NORTHERN PRIMARY HEALTH CARE (650-2011)  
 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 (650-0830)  
 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.

3. 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.

*Handwritten:* I am familiar with this project.  
B

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

*Handwritten:* Consultants should have physical stamina and high tolerance of hard labor.  
Harry Brown would be excellent on this.

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

UNCLASSIFIED

103

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

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

AMENDMENT NO. 2

April 6, 1982

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

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

*VWW*

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

1. Para 2 of subject OTD #60 dated 6 Oct 81 and para 1 of OTD #60  
(Amendment 1 dated 11 Dec 81) are cancelled. New para 2 of subject  
OTD #60 is now to read as follows:

"WASH contractor/subcontractor/consultants authorized  
to expend up to 220 person days effort over a seven (7)  
month period to accomplish this technical assistance  
effort."

2. Nothing follows.



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

106

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 Sahal 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

*W. J. ...*

UNCLASSIFIED  
Department of State

INCOMING TELEGRAM

PAGE 01 BAMAko 03600 161129Z 9754 028752 AID4110  
ACTION AID-35

ACTION OFFICE AFDR-06  
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

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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 WELLHSA. I. P. (625-0337). 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 (193 233 U); 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

UNCLASSIFIED

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

AMENDMENT NO. 1

April 6, 1982

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

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

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

1. Para 2 of subject OTD #64 is cancelled. New para 2 of OTD #64 is now to read as follows:

"WASH contractor/subcontractor/consultants authorized to expend up to 80 person days effort over a 6 month period to accomplish this technical assistance effort."

2. Para 4 of subject OTD #64 is cancelled. New para 4 of OTD #64 is now to read as follows:

"Fifty-five (55) person days of international/domestic per diem is authorized."

3. Nothing follows.



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

111

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

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

For VWRW  
JH  
Quater

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/HII 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.

VWV:ja:12/23/81



OTD 78

19 January 1982

Training of Sanitarians - Senegal

AID/Senegal requested WASH assistance in improving the sanitation 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.

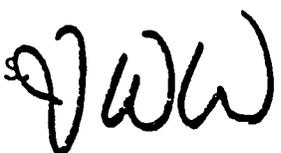
Up to seventy-five person days, seventy international or domestic per diem days, and two round trips over a four month period are authorized. Local travel is authorized as is up to \$2,800 for secretarial, graphics or reproduction services in Senegal.

JEB/CIC  
1/20/82

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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.   
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.

PAGE 01 DAKAR 00192 091055Z 9246 003402 A105363

DAKAR 00192 091055Z 9246 00340

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

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

B) PREVIOUS EXPERIENCE TRAINING VILLAGE LEVEL HEALTH WORKERS.

C) FSI 3/3 FRENCH SPEAKING LEVEL.

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

INFO OCT-00 AF-10 AMAD-01 /046 W  
-----276041 091056Z /33

O 091050Z JAN 82  
FM AMEMBASSY DAKAR  
TO SECSTATE WASHDC IMMEDIATE 2228  
INFO AMEMBASSY ABIDJAN  
AMEMBASSY BAMAKO

UNCLAS DAKAR 00192

AIGAC  
SECSTATE FOR ST/HEALTH/VICTOR VEHMAN, AFR/DR/HEALTH  
ABIDJAN FOR REDSO  
BAMAKO FOR SDPT

E.O. 12065: N/A  
SUBJECT: SENEGAL RURAL HEALTH (685-0210) - 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 25 JANUARY.

5. QUALIFICATIONS

*Received at/for (Doherty) 1/12/82*  
*Passed to WASH 1/12/82*

*Ray Isely*

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.

WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 78  
AMENDMENT NO. 1  
17 January 1983

Camp, Dresser & McKee, Inc.

WASH PROJECT

JAN 18 1983

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

FROM: Mr. Victor W. R. Wehman Jr., P.E., R.S.  
AID/WASH Project Manager  
AID/S&T/H/WS

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

REFERENCE: A) OTD # 78, dated 19 January 1982

1. Para 2 of subject OTD # 78 (Ref A) is cancelled. New para 2 of subject OTD # 78 (Ref A) is now to read as follows:

"2. WASH contractor/subcontractor/consultants authorized to expend up to 83 person days of effort over a four (4) month period to accomplish this technical assistance effort."

2. Para 3 of subject OTD # 78 (Ref A) is cancelled. New para 3 of subject OTD # 78 (Ref A) is now to read as follows:

"3. WASH Contractor authorized up to 76 person days of international/domestic per diem to accomplish this effort."

3. Nothing follows.

Camp, Dresser & McKee, Inc.  
WASH PROJECT

JAN 17 1983



OTD #88

April 26, 1982

Feasibility Analysis and Design Study of  
Effluent Reuse and Night Soil Disposal for  
Maseru - Lesotho

AID/Lesotho requested WASH technical assistance for feasibility analysis and preliminary design work on utilization and disposition of human wastes from the city of Maseru. The scope of work for the first task, effluent re-use from the sewage treatment plant for crop irrigation, includes a feasibility analysis; determination of rough design parameters, cost/benefits, and/or a preliminary pilot plant design; evaluation of health hazards and control requirements; and preparation of a report. The scope of work of the second task, night soil disposal, includes investigation of alternatives, their feasibility and costs, and recommending the most appropriate method of disposal. For further information see Mr. Craig Hafner.

Up to fifty-five person days of effort, forty-five days of international/domestic per diem and one international air round trip are authorized over a four month period. Local car rental and up to \$800 for secretarial, graphics and reproduction services are also authorized.

JEB/CIC  
5/11/82

122

WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 88  
April 26, 1982

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

FROM: Victor W.R. Wehman, Jr., P.E., R.S. *VW*  
A.I.D. WASH Project Manager  
A.I.D./S&T/H/IS

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

REF: A) Maseru 00825, dated 18 Mar 82  
B) State 044006  
C) Maseru 0394  
D) Letter and Exhibits (maps and designs), Hendrich/Hafner, dated  
16 Mar 82  
E) WASH Telex to Henrich, dated 16 Mar 82  
F) Henrich Telex to WASH (Hafner), dated 17 Mar 82

1. WASH contractor requested to provide technical assistance to U.S. A.I.D./Lesotho as per Reference A, paragraph(s) 4.A.1-4 and paragraph(s) 4.B.1-3. Paragraph(s) 4.A.5 and 4.B.4-5 will be authorized as an extension or amendment to this OTD subject to satisfactory development of analysis, assessment, feasibility reports and agreement by GOL to course of action. S&T/H will send a cable to U.S. A.I.D./Lesotho soon indicating to them that the Mission should not be planning on WASH doing an extensive design (second phase), but could consider a modest design involvement due to limitations on WASH funds.
2. WASH contractor/subcontractor/consultants authorized to expend up to 55 (fifty-five) person days of effort over a 4 (four) month period to accomplish this technical assistance effort.
3. Contractor authorized up to 45 (forty-five) person days of international/domestic per diem to accomplish this effort.
4. Contractor to coordinate with AFR/DR/HNP (J. Shepperd), AFR/DR/ENGR, (J. Snead), and Lesotho Desk Officer and should provide copies of this OTD along with periodic progress reports, invitations to briefing/debriefings and ETAs as requested by S&T/H or AFR Bureau personnel.
5. Contractor authorized to provide up to 1 (one) international round trip from consultants' home base through Washington, D.C. to Lesotho and return to home base through Washington, D.C. during life of OTD.
6. Contractor authorized local travel within Lesotho as necessary to accomplish mission.
7. Contractor authorized to obtain secretarial, graphics or reproduction services in Lesotho as necessary to accomplish tasks. These services are

in addition to the level of effort specified in paragraph(s) 2 and 3 above. For these items contractor authorized NTE \$800 without written approval of A.I.D. WASH Project Manager.

8. Contractor authorized to provide for car(s) rental if necessary to facilitate effort. Mission is encouraged to provide Mission vehicles, if available and appropriate.
9. WASH contractor will adhere to normal established administrative and financial controls as established for WASH mechanism in WASH contract.
10. WASH contractor should definitely be prepared to administratively or technically backstop field consultants and subcontractors.
11. Contractor/consultant will leave draft coordinated reports with Mission before leaving Mission. Pending formal comments by Mission and GOL, WASH contractor will either (a) develop final report and close OTD or (b) initiate second phase design services at authorization of A.I.D. WASH Project Manager and formalize final report for Phase I. This section of OTD will have to be amended substantially if 11.(b) is initiated.
12. Mission should be contacted immediately and technical assistance initiated as soon as convenient to Mission/GOL.
13. Appreciate your prompt attention to this matter. Good luck!

ACTION COPY

Department of State

INCOMING TELEGRAM

PAGE 01 MASERU 00825 180942Z 2276 044317 AID5626

MASERU 00825 180942Z 2276 044317 AID5626

ACTION OFFICE TIME-01  
INFO AAAP-01 AFSA-03 AFDR-06 PPCE-01 PDPR-01 PPPB-03 AAST-01  
ENGR-02 HNS-09 AFDA-01 RELO-01 DAEN-01 MAST-01 WAB-01  
/033 AA 518

INFO OCT-80 AF-10 AMAD-01 OES-09 /055 W  
-----023406 161023Z /38

R 180918Z MAR 82  
FM AMEMBASSY MASERU  
TO SECSTATE WASHDC 7293

UNCLAS MASERU 00825

AIDAC

FOR VICTOR WEHMAN, ST/HEA \*

E.O. 12065 NA  
SUBJECT WASH PROJECT TECHNICAL ASSISTANCE, LESOTHO

REF: A) MASERU 0394; B) STATE 044026

1. REQUESTED MOPS, PLAN AND PLANT DESCRIPTION HAVE BEEN FORWARDED TO HEFIER BY HENDRICH, MANAGING DIRECTOR OF THE WATER AND SEWERAGE BRANCH. HOPEFULLY THESE WILL BE ADEQUATE.

2. TIMING OF THE CONSULTANTS VISIT IS SUGGESTED FOR JUNE AND JULY, 1982. NO PROBLEMS ARE ANTICIPATED REGARDING COUNTRY CLEARANCE. TIMING AS SUGGESTED APPEARS A BIT SHORT. USAID AND GOL SUGGEST AN ALLOWANCE OF FIVE WEEKS FOR THE FEASIBILITY WORK.

3. THE POPULATION ON THE SANITARY SYSTEM IS CURRENTLY ABOUT 50 PERCENT OF THE DESIGN FLOW OF THE PLANT. THE POPULATION PRESENTLY SERVED IS APPROXIMATELY 15,000 PLUS SOME LIGHT INDUSTRY. THE BUCKET LATRINE SYSTEM SERVES APPROXIMATELY 30,000 PEOPLE THROUGH 2,145 BUCKETS LOCATED THROUGHOUT MASERU. EVERY BUCKET IS EMPTIED THREE TIMES PER WEEK AND ROUGHLY 10,000 GALLONS OF NIGHT SOIL IS COLLECTED EVERY WEEK. THE NIGHT SOIL IS BURIED IN 2M DEEP TRENCHES WHICH ARE LOCATED IN THE WATER SHED OF THE PRINCIPLE RESERVOIRS OF MASERU AND PRESENT A SERIOUS HEALTH HAZARD AT PRESENT.

4. THE SCOPE OF SERVICES ENVISAGED ARE AS FOLLOWS:  
A) EFFLUENT REUSE THROUGH IRRIGATION OF CROPS.

- 1. INVESTIGATE THE FEASIBILITY OF AN EFFLUENT REUSE SYSTEM FOR THE MASERU TREATMENT PLANT.
- 2. DETERMINE ROUGH DESIGN PARAMETERS, COST, BOTH CAPITAL AND OPERATIONAL, BENEFITS DERIVED, SUITABLE CROPS ETC. AND/OR DESIGN A PILOT SCHEME TO DETERMINE THE ABOVE.
- 3. EVALUATE HEALTH HAZARDS AND DETERMINE CONTROLS REQUIRED.
- 4. PREPARE A REPORT CONCERNING THE IMPLEMENTATION OF AN EFFLUENT REUSE FOR MASERU.
- 5. IF THE PROJECT APPEARS FEASIBLE, UNDERTAKE DETAILED DESIGNS TO IMPLEMENT AN EFFLUENT REUSE SCHEME IN LESOTHO. THIS WOULD BE ACCOMPLISHED AS A FOLLOW UP OR SECOND PHASE.

B) NIGHT SOIL DISPOSAL.

- 1. TO INVESTIGATE ALTERNATIVES AVAILABLE FOR THE DISPOSAL OF NIGHT SOIL IN LESOTHO ESPECIALLY LOOKING AT AEROBIC DIGESTION OF THE NIGHT SOIL OR LAGOONING WITH LAND DISPOSAL AFTER STABILIZATION.
- 2. TO PREPARE A FEASIBILITY REPORT OUTLINING CAPITAL AND OPERATIONAL COSTS OF VARIOUS DISPOSAL SCHEMES.
- 3. TO RECOMMEND TO GOVERNMENT A PROPOSED METHOD OF NIGHT SOIL DISPOSAL.
- 4. UPON APPROVAL OF THE GOVERNMENT OF LESOTHO, PREPARE DETAILED DESIGN DRAWINGS OF THE PREFERRED ALTERNATIVE AS A FOLLOW UP OR SECOND PHASE PROJECT.
- 5. FOLLOW UP OR SECOND PHASE SERVICES, IF FEASIBILITY STUDIES SHOW SUCH A NEED, COULD PROBABLY BE ACCOMPLISHED AT THE WASH HOME OFFICES. TIME REQUIREMENTS OF SUCH SERVICES SHOULD BE DEVELOPED DURING THE FEASIBILITY STUDIES. HICHAL

Received ST/HEA (Wehman) 3-22-82  
Passed to WASH 3-22-82

D. Warner

UNCLASSIFIED

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Mar 15, 1982

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T-88

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-253 BB  
OUR TELEX 188

TO: JEFF HENDRICH, MANAGING DIRECTOR, WATER BRANCH,  
GOVERNMENT OF LESOTHO  
FROM: CRAIG HAFNER, WASH

- 1) RECEIVED YOUR LETTER AND MATERIALS DATED FEB. 27. MANY THANKS.
- 2) UNABLE TO PROCEED WITH OBTAINING A CONSULTANT UNTIL AID, SET/OFF. OF HEALTH RECEIVES CARLE FROM AID/LESOTHO RESPONDING TO THEIR PRIORITY CABLE OF FEB. 17, ASKING FOR THE MOST ADVANTAGEOUS TIMING FOR CONSULTANTS VISIT. IS 2-3 WEEKS ENOUGH TIME?
- 3) WE HAVE POTENTIAL CONSULTANT CANDIDATES AVAILABLE BUT CANNOT HOLD THEM TOO LONG. WOULD APPRECIATE YOUR EFFORT TO CLARIFY TIMING AND ANY OTHER CONCERNS.

MMMM  
.002.0 MIN

WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 88  
Amendment Number 1  
June 17, 1982

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

FROM: Victor W.R. Wehman, Jr., P.E., R.S. *[Signature]*  
A.I.D. WASH Project Manager  
A.I.D./S&T/H/WS

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

REF: A) OTD #88 dated 26 April 82

1. Paragraph 5 of subject OTD #88 (Reference A) is cancelled. New paragraph 5 of OTD #88 (Reference A) is to read as follows:

"Contractor authorized to provide up to two (2) international round trips from each consultant's home base and/or initial entry of travel point (one consultant is already in Africa) through Washington, D.C. for briefing, to Lesotho and return to consultants' home base or to initial point of entry for this travel through Washington, D.C. during life of this OTD."

2. Nothing follows.



OTD #91

May 4, 1982

Planning Assistance for Rural and Village  
Health Activities - Togo

AID/Togo requested WASH technical assistance for planning rural and village level health activities in plateaux and savane regions. The scope of work includes review and revision, as appropriate, of base-line medical, hygiene and water usage surveys and procedures; assisting in the planning of management and implementation strategies to integrate current affaires sociales activities into the proposed water project health program; and exploration of technical possibilities for alternative water resource development strategies in villages where drilled wells have proven unfeasible. The consultant will also work with government officials to outline ways of increasing community participation in village health activities.

For further information, contact Dr. R. Isely.

Up to twenty-eight person days of effort, twenty days of international/domestic per diem, and one international round trip by air over a three month period are authorized. Local travel expenses up to \$2,000 and secretarial, graphics and reproduction costs in Togo are also authorized.

JEB/CIC  
6/2/82

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WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 91  
May 4, 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/H/WS

SUBJECT: Provision of Technical Assistance Under WASH Project Scope of Work  
for U.S. A.I.D./Togo (Lome)

REF: A) WASH Telex 209, dated 30 Apr 82  
B) Lome 1075, dated 25 Feb 82  
C) WASH Telex 167, dated 3 Feb 82  
D) Lome 374, dated 20 Jan 82 *telex 347*  
E) State 118320, dated 1 May 82

1. WASH contractor requested to provide technical assistance to U.S. A.I.D./Togo as per Reference B, paragraph 2A-D.
2. WASH contractor/subcontractor/consultants authorized to expend up to 28 (twenty-eight) person days of effort over a 3 (three) month period to accomplish this technical assistance effort.
3. Contractor authorized up to 20 (twenty) person days of international and/or domestic per diem to accomplish this effort.
4. Contractor to coordinate with AFR/DR/HNP (Dr. Shepperd or Dr. Stockard), AFR/DR/ENGR (Mr. J. Snead) and Togo Desk Officer. The above should receive copies of this OTD along with information on progress and ETAs as they are appropriate. Reports on this activity should go to these individuals as well as to U.S. A.I.D./Togo.
5. Contractor authorized to provide up to 1 (one) international round trip from Washington, D.C. area; to Lome, Togo; through Tunis, Tunisia; through the IRC at The Hague in the Netherlands (2 days); and return to Washington, D.C. Approximately 10-15 person days in Tunisia will be necessary and economical to the government as described in OTD Number 92. This travel paragraph provides authority for the travel to and in Tunisia for OTD 92.
6. Contractor authorized local travel within Togo as necessary and appropriate to carry out technical assistance effort NTE \$2,000 (two thousand) without written approval of A.I.D. WASH Project Manager.
7. Contractor authorized to obtain secretarial, graphics or reproduction services in Togo as necessary to accomplish technical assistance effort. Mission encouraged to support WASH project representative with Mission personnel support resources to maximum extent possible within practical limits of U.S. A.I.D. resources.

8. Contractor authorized to provide for car or taxi rental if necessary to facilitate effort. Mission is encouraged to provide Mission vehicles if available.
9. WASH contractor will adhere to normal established administrative and financial controls as established for WASH mechanism in WASH contract.
10. WASH contractor should definitely be prepared to administratively or technically backstop field consultants and subcontractors as appropriate.
11. Contractor to have consultant leave draft report with Mission before leaving Togo. Final report to Mission required within 30 (thirty) days of his/her return to the U.S.
12. Mission should be contacted immediately and technical assistance initiated before end of May 82.
13. Appreciate your prompt attention to this matter. Good luck!

Department of State

OUTGOING  
TELEGRAM

PAGE 01 STATE 118320  
ORIGIN AID-20

4747 079310 AID2211

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ORIGIN OFFICE SIHE-01  
INFO AFCW-03 AFDR-06 AAST-01 AFDA-01 RELO-01 MAST-01 7V-00  
/014 AD

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INFO OCT-00 AMAD-01 /021 R

*vic file*  
*Geo*

DRAFTED BY AID/ST/H/WS: JAUSTIN: SMS  
APPROVED BY AID/ST/H: CAPEASE  
: AID/ST/H/WS: FEMCJUNKIN (DRAFT)  
AID/AFR/DR: JSTOCKARD (INFO)  
AID/AFR/CWA: BLANE (PHONE)

-----156353 011049Z /38

R 010542Z MAY 82  
FM SECSTATE WASHDC  
TO AMEMBASSY LOME

UNCLAS STATE 118320

ADM: AID - PASS TO JOHN LUNDGREN

E. O. 12065: N/A

TAGS:

SUBJECT: DR. RAYMOND B. ISELY CONSULTATION

REF: LOME 1075

1. CLEARANCE REQUESTED FOR ISELY CONSULTATION. HE PROPOSES VISITING TOGO MAY 10-22, AS PART OF A TWO COUNTRY TRIP. ISELY WILL BE PREPARED TO ACCOMPLISH AS MUCH OF SCOPE OF WORK AS POSSIBLE SUBJECT TO MODIFICATIONS BY MISSION, A. PRINS, GOT, PC. PLEASE ADVISE IF DATES ACCEPTABLE. HAIG

*To WASH: 4 MAY 82 JHQ*

UNCLASSIFIED

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TELEGRAM

PAGE 01  
ACTION AID-35 LOME 01075 251146Z

7774 026588 AID7840

ACTION OFFICE STHE-01  
 INFO AAAF-01 AFCW-03 AFDR-06 PPCE-01 POPR-01 PPPB-03 AAST-01  
 ENGR-02 MHS-09 AFDA-01 RELO-01 DAEN-01 MAST-01  
 /032 A4 825

INFO OCT-00 AF-10 AMAD-01 /046 W  
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P 251145Z FEB 82  
 FM AMEMBASSY LOME  
 TO SECSTATE WASHDC PRIORITY 4026

UNCLAS LOME 01075

AIDAC

AID/W FOR ST/HEA, PASS WASH FOR HEFNER AND ISELY

E. O. 12065: N/A

SUBJECT: TOGO RURAL WATER (693-0210) REQUIREMENTS FOR WASH ASSISTANCE

REF: HEFNER/LUNDGREN PHONCON; ISELY TELEGRAM

1. GOT AND TOGO WATER PROJECT STAFF DELIGHTED AT PROPOSED ISELY CONSULTATION FOR 3 WEEKS STARTING O/A MARCH 3TH.
2. SCOPE OF WORK SIMILAR TO WHAT WAS DISCUSSED IN NOVEMBER WITH FOLLOWING SPECIFICATIONS:
  - A. BASE-LINE DATA SURVEYS (MEDICAL, HYGIENE, WATER USAGE)
    - TO BEGIN ACTIVE FIELD DATA GATHERING PHASE DURING 1ST OR 2ND WEEK OF MARCH. REQUEST ISELY OBSERVE, CRITIQUE AND HELP REVISE PROCESS IF NECESSARY.
  - B. WE ARE CURRENTLY ENGAGED IN PLANNING OF VILLAGE LEVEL HEALTH ACTIVITIES IN THE PLATEAUX REGION. ISELY'S INPUT IN PLANNING MANAGEMENT AND IMPLEMENTATION STRATEGIES TO INTEGRATE AND COORDINATE EXISTING AFFAIRES SOCIALES ACTIVITIES INTO COMPLEX PROPOSED WATER PROJECT HEALTH PROGRAM WOULD BE INVALUABLE. WOULD RECOMMEND SEVERAL WORKING SESSIONS WITH GOT REGIONAL AFFAIRES SOCIALES PEOPLE TO OUTLINE WAYS OF INCREASING ACTIVE COMMUNITY PARTICIPATION IN VILLAGE HEALTH ACTIVITIES.
  - C. PLANNING FOR PROGRAM IN THE SAVANNE REGION IS ALSO STARTING. ISELY WOULD BE HELPFUL IN ADAPTING PLATEAUX PLANS TO SAVANNE SOCIO-CULTURAL CONDITIONS.
  - D. WE NEED TO EXPLORE REAL TECHNICAL POSSIBILITIES FOR ALTERNATIVE WATER RESOURCE DEVELOPMENT STRATEGIES IN VILLAGES WHERE DRILLED WELLS HAVE PROVEN UNFEASIBLE (CURRENT FAILURE RATE AVERAGES OVER 35).
3. YOLANDE MOUASSEAU-GERSHMAN HAS PC TRAINING WELL IN HAND AND HAS BEEN VALUABLE RESOURCE TO PROJECT. REGRET HER EARLY DEPARTURE. FINAL REPORT TO HER ACTIVITES FOLLOWS.  
HICKS

To WASH 26 Feb 82 JHq

R. Isely

UNCLASSIFIED

132

Internatic



Western Union International, Inc



al Telex

TL5  
cc. J. Austin ✓  
D. Donaldson  
C. Hafner

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ATTN: M.L.E. DJET BANFON TOU. ON

-----  
PRIERE DE PASSER CE MESSAGE A MR. JOHN LUNDGREN - MERCI  
-----

OUR TLX 167

R. ISELY AVAILABLE FOR 2-3 WEEKS BEGINNING MARCH BTH IF SUCH  
ACCEPTABLE TO YOU, PRING, AND DOT. ASSUME SCOPE OF WORK SIMILAR  
TO WHAT WE DISCUSSED IN NOVEMBER. PLEASE DETAIL AND UPDATE  
AS APPROPRIATE. NEED CURRENT JUSTIFICATION FOR AID APPROVAL.

R. ISELY, WASH PROJECT - WASHINGTON

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5264 TOSTEL TO  
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Best Available Document

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PAGE 01 LOME 00347 2008022  
 ACTION AID-35  
 ACTION OFFICE AFCW-03  
 INFO AAF-01 AFDR-06 AAST-01 STHE-01 IT-06 AFDA-01 RELO-01  
 MAST-01 /021 A4 820  
 INFO OCT-00 AF-10 AMAD-01 /046 W  
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P 200746Z JAN 82  
 FM AMEMBASSY LOME  
 TO SECSTATE WASHDC PRIORITY 3688  
 INFO AMEMBASSY COTONOU

*W. L. ...*

UNCLAS LOME 00347

AIDAC

AID/W FOR WASH: HAFNER, ISELY, ROSENSWEIG, FROM USAID/LOME  
 COTONOU FOR PEACE CORPS

E. O. 12065: N/A  
 SUBJECT: PC/BENIN HEALTH TRAINING

REF: WASH/USAID LOME TELCON 1-18-82

1. SUBJECT HEALTH TECHNICAL TRAINING IS SCHEDULED TO BEGIN O/A JAN 20 AND END O/A MARCH 7. INTRODUCTORY SESSIONS ARE BEING HANDLED BY BENIN HEALTH PCV IN COTONOU. EXPECT TO MOVE T'S TO TRAINING SITE IN ATAKPAME. TOGO O/A JAN 30, WHERE HEALTH TRAINER WILL PROVIDE 5 WEEK TECHNICAL TRAINING WITH ASSISTANCE FROM AID HEALTH ADVISORS PRINS AND FRY, AND TOGO WELLS PROJECT PERSONNEL. TRAINING WILL COVER WATER/SANITATION-RELATED DISEASES, HEALTH EDUCATION, COMMUNITY ORGANIZATION, ORAL REHYDRATION, NUTRITION EDUCATION. BASIC TRAINING PLAN WILL BE READY FOR HEALTH TRAINER USE. HOWEVER, URGE TRAINER TO BRING ANY USEFUL TRAINING MATERIALS.

2. GIVEN TIME CONSTRAINTS AND OTHER DUTIES OF FRY AND PRINS, MOST IMPORTANT QUALIFICATION FOR WASH CONSULTANT IS SOLID HEALTH TRAINING EXPERIENCE. FRENCH DESIRABLE BUT UNDER CIRCUMSTANCES SECONDARY. GINNY TURNER WOULD BE CANDIDATE OF CHOICE IF QUALIFIED FRANCOPHONE HEALTH TRAINER NOT AVAILABLE. SUGGEST CONTACTING KATHY PARKER, GENI ENG, DIANE HEDGECOCK FOR AVAILABILITY OR SUGGESTIONS.

3. PER REFCOM UNDERSTAND WASH CAN FIELD HEALTH TRAINER BY FEB 1. WOULD LIKE TO STRESS THAT A LATER ETA WOULD CAUSE SERIOUS PLANNING PROBLEMS FOR US. IDEAL WOULD BE TRAINER ARRIVING TOGO SAME WEEKEND AS T'S O/A JAN. 30.

4. FOR ISELY: ENCOURAGE VISIT TO TOGO IN FEB. IF STILL PLANNED. YOUR ASSISTANCE TO PROJECTS AND PC TRAINING WOULD BE INVALUABLE.

5. WE FULLY REALIZE DIFFICULTIES OF CURRENT SITUATION AND THANK YOU FOR YOUR CONTINUED SUPPORT. HICKS

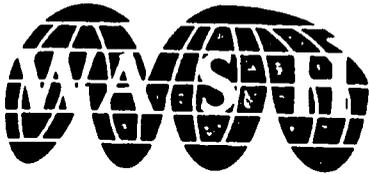
COMM. DIVISION 3145A, 100  
 WASH DC 20547

*[Handwritten signatures and initials]*

*Received by [unclear] 1/22/82*

*Project is not active*

UNCLASSIFIED



OTD #95

May 7, 1982

Kanye Village Sewerage and Sanitation  
Feasibility Study - Botswana

AID/Botswana requested WASH assistance to conduct a feasibility study for water supply and sanitation in Kanye Village, which has a population of about 22,000 people. The first phase of work is a comprehensive sectoral review and analysis of the current situation - resources, trends, practices, data collection and assessment, training, and tariffs - and an evaluation of relevant alternative technologies. The second phase of work is the development of an outline for a long-term sanitation plan including alternative phased development strategies, priorities and estimated costs.

For further information, contact Mr. P. Howard.

Up to sixty person days of effort, fifty-four days of international per diem and two international round trips over a five month period are authorized. Local travel up to \$900, local secretarial, surveying, graphics and map reproduction services up to \$3,800 are also authorized.

JEB/CIC  
6/7/82

135

WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 95  
May 7, 1982

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

FROM: Victor W.R. Wehman, Jr., P.E., R.S. *VW*  
A.I.D. WASH Project Manager  
A.I.D./S&T/H/WS

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

REF: A) Terms of Reference, 6 May 82  
B) WASH cable 187, 29 Apr 82  
C) WASH cable 186, 23 Apr 82  
D) Gaborone 1619, 22 Apr 82  
E) WASH cable 177, 13 Apr 82  
F) Memo routing slip, Frederick/McJunkin, 1 Apr 82  
G) Gaborone 932, 8 Mar 82

1. WASH contractor requested to provide technical assistance to U.S. A.I.D./Botswana as per Reference A, page 3, Phase I.1-I.6 and Reference A, page 4, Phase II.1. Contractor not to involve themselves with Reference A, page 4, Phase II.2.A and B.
2. WASH contractor/subcontractor/consultants authorized to expend up to 60 (sixty) person days of effort over a 5 (five) month period to accomplish this technical assistance effort.
3. Contractor authorized up to 54 (fifty-four) person days of international/domestic per diem to accomplish this effort.
4. Contractor to coordinate with AFR/DR/HNP, (J. Shepperd), Botswana Desk Officer, OSHA Project Officer (Ian Fredericks), AFR/DR/ENGR, (J. Snead) and should provide copies of this OTD along with periodic progress reports and ETA information as requested by S&T/H and Africa Bureau personnel.
5. Contractor authorized to provide up to 2 (two) international round trips from consultants' home base to Washington, D.C. (for briefings at WASH CIC); to Gaborone, Botswana and return to home base through WASH CIC in Washington, D.C. during life of this OTD.
6. Contractor authorized local travel within Botswana as necessary to accomplish this technical assistance effort NTE \$900 (nine hundred) without written approval of A.I.D. WASH Project Manager.
7. Contractor authorized to obtain secretarial, local surveyor, graphics, map production, or reproduction services in Botswana as necessary to accomplish tasks. These services are in addition to the level of effort

specified in paragraphs 2 and 3 above and NTE \$3,800 (three thousand eight hundred) without written approval of A.I.D. WASH Project Manager. Contractor representative will keep exact records of all costs and receipts for this paragraph and return them to WASH CIC Administrative Officer.

8. Contractor authorized to provide for car rental if necessary to facilitate effort. Mission is encouraged to provide Mission vehicles, if available.
9. Contractor will take following equipment for consultants' use in the field: (a) manual typewriter, (b) electronic calculator with printer, (c) percolator test equipment and procedures, and (d) simple hand level.
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. Any subcontracts in Botswana should be fixed price type subcontracts less than \$5,000 (five thousand). Contractor should attempt to contact directly with local personnel wherever possible to minimize institutional overhead costs.
12. WASH contractor report on overall progress of activity to be made orally by Task Manager (WASH CIC) to A.I.D. WASH Project Manager each 10 (ten) person days of activity by consultants in field. Consultants will leave draft copies of work to date with Mission before leaving country in accomplishment of Reference A, page 3, Phase I.1-I.6 and Reference A, page 4, Phase II.1 scope of work. Upon acceptance of draft report by Mission, the final report will be due within 30 (thirty) days to Mission.
13. Mission should be contacted immediately and technical assistance initiated in accordance with Mission timing requirements.
14. Appreciate your prompt attention to this matter. Good luck!

UNITED STATES GOVERNMENT

2-Way Memo

Subject:

DATE OF MESSAGE
April 21, 1982
DATE OF REPLY
<b>INSTRUCTIONS</b>
Use routing symbols whenever possible.
<b>SENDER:</b>
Forward original and one copy.
Conserve space.
<b>RECEIVER:</b>
Reply below the message, keep one copy, return one copy.

To:  
→

S&T/HEA  
 Room 709 SA-16  
 Agency for International Development  
 Washington, D.C. 20523

..FOLD

USE BRIEF, INFORMAL LANGUAGE

..FOLD

Attached is the scope of work (terms of reference) for the consultancy on the Kanye Village sewerage and sanitation feasibility study and sanitation development plan.

It seems that the consultancy might require two trips of 3-4 weeks, several months apart. We do not consider it appropriate to involve the consultant in II.2.(B) site supervision of construction.

Please make this available to Mr. Donaldson of WASH.

*Received S&T/Hea (Wehrman) 6 May 82*  
*Passed to WASH 6 May 82*

From:

L.A. Cohen  
 U.S. Agency for International Development  
 P.O. Box 90  
 Gaborone  
 Botswana

GOVERNMENT OF BOTSWANA

KANYE SEWERAGE AND SANITATION FEASIBILITY STUDY

TERMS OF REFERENCE

SYNOPSIS

Terms of reference relate to fee proposals for a civil engineering consultancy to assess the feasibility of sewerage the institution buildings in Kanye and connecting them to suitably located treatment ponds, making provision to extend at a later date the sewerage to include private house connections and as an interim measure make suggestions on how to improve the sanitation in the existing parts of the village.

BACKGROUND INFORMATION

Kanye is the administrative centre of the Southern District and the Headquarters of the Bangwaketse tribe. It is the second largest village in Botswana and is located 44km west of Lobatse which is its closest link to the railway line. The population is estimated at 22000 comprising some 6000 households. Development is low-density, housing being built both in traditional and contemporary materials. Water is supplied to the village from 5 boreholes. There are 275 private connections and some 60 standpipes. Parts of the supply are chlorinated. Mean daily water consumption is 18 lcd. The system is maintained by the Department of Water Affairs.

Being the administrative centre for Southern District, Kanye has District Council and Land Board offices. A number of Central Government Departments have branches operating at District level in Kanye. These include Agriculture, Veterinary Services, Information Services, Wildlife National Parks and Tourism, Police and National Library Services.

Kanye hospital which serves the Southern District is being reconstructed. Its sewers at present drain to two conservancy tanks from where sewage is pumped some 500m and discharged on top of the hill on which the hospital is built, to gravitate into the valley below. Other parts of the complex are on septic tanks or have no facilities. The majority of the institutions have septic tanks; however there are currently no facilities for desludging them.

The Government of Botswana has decided to undertake a long term programme to improve sanitation in the major villages, and in particular, in the short-term, to improve "institutional sanitation" (i.e. in schools, hospitals and public buildings). There is considerable need to improve the institutional sanitation in Kanye and to develop and implement an environmental sanitation plan for the village. These terms of reference are for consultancy services to assist the government in undertaking this work.

#### CLIENT MINISTRY

The client ministry will be the Ministry of Local Government and Lands through the Senior Public Health Engineer. The selected consultancy will report periodically once a month to the interministerial water and sanitation committee comprising members from Local Government and Lands, Ministry of Finance and Development Planning, Ministry of Mineral Resources and Water Affairs, Ministry of Health and Ministry of Works and Communications. A technical committee will be established by the Ministry and will meet every second week.

## Scope of Work

The consultant shall undertake the work in two phases:  
Phase I - Sectoral analysis and review  
Phase II - Sanitation development plan

The work to be undertaken in each phase is described in detail below. In his work the consultant shall focus on Kanye Village but shall also, where appropriate, give due consideration to the wider national context. Throughout the study, account shall be taken of all likely users of water supply and sanitation services, including domestic, commercial, institutional, light industrial, agricultural and pastoral. In both Phases, the consultant shall take full cognizance of the complex inter-relationships between the various aspects of the study, and shall ensure that his report and recommendations are self-consistent and reflect these linkages.

In Phase I, the following studies shall be made of Kanye village:

- I.1 An assessment of the current status of water supply and sanitation services and usage patterns, and of the likely impact of ongoing or planned programmes.
- I.2 An identification of both short and long-term (to the year 2000) needs in water supply and sanitation, taking into account factors such as:
  - Population trends, land use plans, current trends and planned developments in industry, commerce, agriculture and social services.
  - Household water and sanitation usage, as affected by: behavioral patterns, beliefs, customs and values; the possible use of water or sullage for horticulture; water requirements of domestic livestock; cottage industries; the linkages between water usage and alternative sanitation technologies; and willingness and ability to pay for the services.
- I.3 An evaluation of alternative sanitation technologies including low water consumption system, to meet the above demands, and an assessment and ranking of them in terms of:
  - cost-effectiveness, taking into account both capital and operating costs;
  - operation and maintenance implications;
  - manpower and training requirements;

- consumer preferences;
- the potential for ground water pollution;
- relationship to other infrastructure services, in particular storm water drainage, sullage management and refuse disposal;
- construction methods and options;

Detailed costings of all technical options shall be presented in both financial and economic terms; for the latter, appropriate discount rates and shadow price conversion factors will be given to the consultant by the client.

I.4 Compilation and assessment of available data on topography, soil, geology and hydrogeology, supplemented by such additional investigations as the consultant shall deem necessary to fully undertake the study. To include the need to protect the existing water sources from pollution and to identify the areas which are prone to potential pollution, also to locate the optimum point of final effluent disposal.

I.5 A review of existing health education programmes, and recommendations on the strengthening or reduction of these programmes to ensure that the potential health benefits of water supply and sanitation improvements are fully realized.

I.6 A review of current water supply and sanitation tariffs and cost recovery policies and performance, together with recommendations on possible alternative strategies.

In Phase II, the consultant shall undertake the following:

The development of an outline long-term sanitation plan.

II.1 This plan will consider alternative phased development strategies and include the necessary complementary inputs including water supply, health education, institutional arrangements, manpower and training requirements. The plan will indicate priorities of the alternative strategies, and of particular components within each strategy.

The strategies will be costed in financial and economic terms, showing each component separately.

II.2 The consultant shall submit full details of his proposals to undertake the following:

- a) detailed design; working drawings; tender documentation; tender administration including submission of a tender evaluation report;
- b) and, separately, site supervision of construction

### Personnel

The consultant shall submit with his proposal full details including Curricula Vitae of all personnel who would work on the consultancy together with details of the consultancy firm indicating staff strengths both in Botswana and elsewhere.

### Project Team

The proposal shall contain details of the project team the consultant proposes for the work. It is anticipated that the project team will have expertise in the following disciplines

- Public Health (sanitary) Engineering
- Hydrogeology
- Soils
- Social anthropology
- Health Education
- Economics

The proposal shall contain details of the anticipated time inputs from each discipline.

### Facilities, Resources and Information to be provided by GOB

The following will be made available by Government at no cost to the consultant:

1. One copy of all Reports listed in Annex I.
2. One copy each of all relevant printed maps of the areas in which the consultant will work.
3. The use of all available aerial photography.
4. Access to other relevant government data.

Details of most of the available mapping and photography is shown in the Department of Surveys and Lands map catalogue. Other materials are available from the Director of Surveys and Lands, Gaborone who the consultant should contact.

### Facilities, Resources and Information to be provided by the Consultant

The Consultant shall provide all other facilities, resources and information required for full execution of the consultancy including other facilities, transport, personnel, travel expenses, site investigation costs, printing costs, additional mapping, etc. The cost of these shall be fully covered in the fee proposal.

## Reports

The consultant shall submit the following reports:

Phase I Draft - 20 copies  
Final (incorporating comments by Government)  
- 100 copies

Phase II Draft - 20 copies  
Final (incorporating comments by Government)  
- 100 copies

The consultant will be given comments by Government on each draft report within four weeks of receipt. These comments shall, within four weeks of receipt, be incorporated into a final report of the consultant.

## Work Plan

The consultant shall prepare a detailed work plan illustrating his proposals. It is anticipated that the overall study duration will not exceed 6 months.

## FORMS OF ENGAGEMENT

The consultant shall operate from an office in Gaborone, and all reports, drawings and documentation shall be produced in Botswana. However, in the event that the consultant is unable to undertake all the work in Botswana, he should indicate in the proposal that part of the work which would be undertaken outside giving details such as name and domicile of firm carrying out the work.

The terms of engagement shall be those of the South African Association of Consulting Engineers (Form 1). All Disciplines 1979, with the exception of those relating to fees.

## Fee Proposal

The consultant shall, in a separate envelope submit details of the fees he would require to undertake the consultancy. The fee proposal shall contain full details of all fees, costs, out of pocket expenses, travel, printing, etc. Man-month rates for project staff shall also be shown. Fees shall be shown separately for Phase I and II. A fee basis for detailed design and supervision shall also be shown. The appointment of the consultant for Phases I and II in no way binds or commits the client to appoint the consultant to undertake the detailed design and supervision work. Proposals should reach the Secretary, Central Tender Board Private Bag 0058, Gaborone (or by hand to the Secretary at Room 306 Finance Building) not later than 0900 hours on 1982  
Separate technical and fee proposals appropriately marked in sealed envelopes should be contained in an outer envelope marked 'Kanye Sewerage and Sanitation Study.'

Fees will be paid as follows:

Phase I	Draft final report	30%
	Final Report	20%
Phase II	Draft Final Report	30%
	Final Report	20%

Comments on Terms of Reference

The consultant shall, with his proposal, submit any comments on and suggested changes to the Terms of Reference. The fee proposal shall contain details of any increase or decrease in cost which these suggested changes may have.

ANNEX I

Reports to be made available to the Consultants

1. Botswana National Development Plan NDPV (1979 to 1985)  
(Ministry of Finance and Development Planning)
2. District Development Plan for all Districts  
(Ministry of Local Government and Lands - MLGL)
3. Final Report on the IDRC/MLGL Low-Cost Sanitation Study
4. Low-Cost Sanitation in Old Naledi (Gaborone Self Help Housing Agency - SHHA)
5. Appropriate Technologies for Water Supply and Sanitation in Developing Countries (World Bank)
6. Social Research of Residents Preference, Need and Ability to Pay (SHHA)
7. Relevant data relating to Kanye Village Development (MLGL, DTRP)

Additional reprints to be added to this listing.

WASH  
PREP  
DIR

UNCLASSIFIED

Department of State

INCOMING  
TELEGRAM

PAGE 01  
ACTION AID-35

GABORO 01619 221124Z

7282 072594 AID4063

ACTION OFFICE ASHA-01  
INFO AAAF-01 AFSA-03 AFDR-06 AAST-01 STHE-01 AFDA-01 RELO-01  
MAST-01 /016 A4 823

INFO OCT-00 INR-10 AF-10 EB-08 AMAD-01 /064 W  
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R 220736Z APR 82  
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TO SECSTATE WASHDC 4636

*Wehman*

UNCLAS GABORONE 1619

AIDAC

FOR ASHA AND USAID WASH PROJECT/D. DONALDSON

E.O. 12065: N/A  
SUBJECT: ASHA GRANT AID/ASHA 203: SAWS KANYE HOSPITAL I

REFS: (A) WASH COMMERCIAL CABLE 177, (B) GABORONE 0932

1. TERMS OF REFERENCE POUCHED TO ST/HEA.
2. PROPOSAL CONTAINED REFTTEL A ACCEPTABLE TO USAID IF ASHA CONCURS.
3. MET WITH ROBINSON OF KANYE HOSPITAL AND HE CONCURS THIS APPROACH.  
DAWSON

*Received ST/HEA (Wehman) 4-26-82  
Passed to WASH 4-26-82*

Camp, Dresser & McKee, Inc.  
WASH PROJECT

APR 27 1982

UNCLASSIFIED

146

OUR CABLE NO. 187

WUI GA

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WASHAID 64552

0009068 1115 04/29

PLS ENTER SELECTION

RR

WUI GA

1112\*

WASHAID 64552

TELUS 014 1123 04/29

LTO: USAID

GABORONE (BOTSWANA)

FROM: DAVID DONALDSON

WASH PROJECT

SUBJECT: POTENTIAL WASH MISSION TO ASSIST AID MISSION TO ASSESS FEASIBILITY OF SERVING THE INSTITUTIONAL BUILDINGS IN KANYE VILLAGE AND CONNECTING THEM TO SUITABLE SEWERAGE TO INCLUDE PRIVATE HOUSE CONNECTIONS.

1. DURING RECENT VISIT TO WORLD BANK, WASH OFFICIALS MET MR. JIM WILSON, SENIOR PUBLIC HEALTH ENGINEER ASSIGNED TO MINISTRY OF LOCAL GOVERNMENT AND LANDS IN BOTSWANA.
2. DURING OUR CONVERSATIONS WITH HIM, WASH LEARNED THAT HE IS HANDLING TERMS-OF-REFERENCE FOR TECHNICAL ASSISTANCE MISSION THAT SOUNDS SIMILAR TO THAT DESCRIBED IN YOUR CABLE.
3. WILSON INDICATED THAT HE WAS UNAWARE OF ASSISTANCE BEING REQUESTED OF USAID, BUT THAT IT SOUNDED SIMILAR TO WHAT WAS BEING REQUESTED OF UNICEF.
4. WE ARE IN RECEIPT OF YOUR CABLE 1619. WOULD A STARTING DATE OF MID-JUNE BE ACCEPTABLE TO THE MISSION?

NNNN\*

ACCEPTED THU948 BEING PROCESSED

Best Available Document

C-248

Western Union International, Inc.

WUI GA  
11123  
WASHAID 64552

TELEUS 001 1926 04/23

OUR CABLE NO. 136

FR

TO: USAID  
EMBASSY  
GABORONE (BOTSWANA)

FROM: DAVID DONALDSON  
WASH PROJECT

SUBJ: NEED FOR TERMS OF REFERENCE FOR PROPOSED TECHNICAL ASSISTANCE MISSION.

1. FURTHER OUR MARCH 13 APRIL PRIOR WASH CAN PROCEED FURTHER WE WILL NEED YOUR TERMS OF REFERENCE FOR THE PROPOSED MISSION AND DESIRED TRAINING.
2. WE WOULD AT THAT YOU CONSIDER TECHNICAL TERMS AND DESIRED TRAINING TO BE OBTAINED. ATTN: VTC WEIMAN. IF YOU ARE INTERESTED IN WASH ASSISTANCE AND MISSION.
3. WE ARE UNABLE TO PROCESS ANY FURTHER UNITS UNDER ITEMS RECEIVED BY TELETYPE.

WASHAID 64552

NNNN  
ACCEPTED THROUGH BEING PROCESSED

WESTERN UNION INTERNATIONAL

WU

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142

Western Union International

WASH CABLE # 177

International Telex

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WASHAID 84552

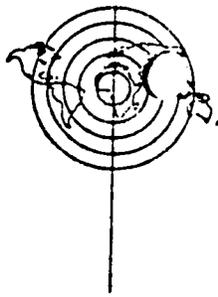
TELUS 002 1619 04/13  
LT

USAID MISSION/ BOTSWANA ✓  
P.O. BOX 90  
(GABORONE, (BOTSWANA) \*  
OUR CABLE 177

TO: USAID /BOTSWANA  
FROM: USAID WASH PROJECT/D. DONALDSON

1. REUR CABLE 0932 REQUESTING WASH ASSISTANCE FOR SOLUTION HOSPITAL DISPOSAL /OUTFALL
2. ST/HEA OF AID/WASHINGTON HAS REQUESTED WASH TO INVESTIGATE INTEREST /AVAILABILITY OF POSSIBLE CONSULTANTS WHILE WE AWAIT TERM-OF-REFERENCE TO BE SENT BY YOUR MISSION.
3. IN OUR PRELIMINARY SEARCH WE HAVE DEVELOPED THE FOLLOWING ITEMS:  
 DURATION OF MISSION: 3/4 WEEKS  
 QUALIFICATIONS: SANITARY ENGINEER KNOWLEDGEABLE ABOUT SIMPLE LOW COST AND UPGRADEABLE SEWER SYSTEMS AND TREATMENT PROCEDURES (ESPECIALLY SEWAGE LAGOONS) WITH OVERSEAS EXPERIENCE ( IN AFRICA PREFERRED).  
 SCOPE OF WORK: SEE ITEM 4 OF YOUR CABLE  
 REPORT: IT IS EXPECTED THAT THE CONSULTANT WILL REVIEW THE SITUATION, DEVELOP HIS RECOMMENDATIONS AND DISCUSS THEM WITH HOSPITAL AND GOV AUTHORITIES. HIS REPORT, A DRAFT OF WHICH WILL BE LEFT IN BOTSWANA PRIOR TO HIS DEPARTURE, WILL CONTAIN A TECHNICAL SOLUTION ACCEPTABLE TO LOCAL AUTHORITIES AND ENOUGH DETAILS SO THAT IT CAN BE USED AS THE GUIDELINES FOR A DESIGN TEAM.
4. WOULD APPRECIATE YOUR REVIEW AND COMMENTS OF ABOVE ITEMS IN ORDER THAT WE CAN PROCEED TO IDENTIFY POSSIBLE CONSULTANTS. MISSION ACCEPTED THIS IS BEING PROCESSED

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OFFICE OF THE  
EXECUTIVE DIRECTOR

# SEVENTH-DAY ADVENTIST WORLD SERVICE

INTERNATIONAL HEADQUARTERS 6840 EASTERN AVENUE NW, WASHINGTON, D.C. 20012 USA  
TELEPHONE: (202) 722-6770 CABLE: ADVENTIST, WASHINGTON TELEX: 89-500

722-6777

February 17, 1982

R. L. Robinson, Senior Administrator  
Kanye Hospital  
P.O. Box 11  
Kanye, Botswana

Dear Bob:

RE: Sewage system for Kanye City

This letter is to comment on the background of the sewage problem there at Kanye, as well as give you an up-date on how things look from here.

It has been more than three years since the first meeting was held between the Ministry of Health and the Hospital, Union, Division, and General Conference Health personnel. Apparently, at that meeting, due to the problem of waste disposal there at Kanye and the simultaneous need of the municipality, someone from our side made an implicit or implied commitment to provide funds to the city for "sewer construction." A figure of \$60,000 was mentioned. There was a long delay in implementing Phase I, especially when it was pointed-out that the \$60,000 provided in Phase I could not be made as contribution to the studies that the city would need to undertake. When Mr. Lou Cohen, the Director of USAID Botswana was appraised of the problem he expressed an interest in being helpful so that the project could be initiated. It was at that time that it was requested through SAWS that the Frame of Reference be prepared--this was nearly two years ago, however it must be pointed-out that there never was, nor is, a USAID grant for \$60,000--only an interest in seeing the problem resolved and a request through SAWS for a "Frame of Reference."

At this time I would suggest to you, visit Mr. Cohen and put in his hand the Frame of Reference Document and explain the situation further with him. Whatever aid that is given will be direct aid between the USAID and the GOB and SAWS will not be involved in it.

The \$60,000 from the Phase I is for the hospital to use to address the problem of waste disposal at the institution i.e., the temporary system you refer to.

166-2  
155

R. L. Robinson  
February 17, 1982

Page Two

We are pleased that things are moving along nicely there.

Sincerely Yours,

*RWO*  
Richard W. O'Fall  
Executive Director

RWO/gj

XC :  Nan Frederick  
Tom Lawson  
H. C. Currie  
Norman Tarter

going out to Botswana  
~~to~~ about 11-14 May

JOHN D. LATIMER AND ASSOCIATES, INC.

ARCHITECTS                      ENGINEERS                      PLANNERS

DURHAM, NORTH CAROLINA - TAUNTON, MASSACHUSETTS

REPLY TO: TAUNTON

February 8, 1982

RECEIVED  
FEB 16 1982  
S A W S

Elder Richard O'Ffill, Executive Director  
Seventh Day Adventist World Services  
General Conference of SDA Church  
6840 Eastern Avenue, NW  
Washington, DC 20012

Re: Visit to Kanye Hospital  
January 26 - January 29, 1982

Dear Elder O'Ffill:

Per the direct request of Norman Tarter, Development Officer for the TAD and Bob Robinson, Administrator of Kanye Hospital, I have made an on-site visit to the hospital during the period referenced above. I wish to report the following findings and observations for your information:

1. Phase I Project

a. I am pleased to report that since my last on-site visit in late September 1981, real progress has been made toward the completion of this phase of the overall project. The school of nursing which was nearing completion in late September is now fully operational, and it appears to be working well. Currently a concerted effort is being made to develop the landscaping around the facility. The large stone wall which formerly ran in front of the building has been removed and an expanded front yard has been developed with lawn as has the other sides of the building. A formal dedication is currently scheduled for Sunday, February 28, 1982.

b. As reported previously the water storage tank has been completed and has been fully operational for several months. The increased water pressure has been of great benefit in terms of adequately serving those facilities at the higher elevations of the campus. The increased pressure has also "forcefully" shown up various weak points in the water distribution system as evidenced by the development of several major leaks. These have all been subsequently repaired.

c. With respect to the ambulatory care/surgical complex this structure is moving ahead at good speed. All walls interior and exterior are now up, the roof is on, the floor is poured, and most of the windows have been installed. Currently finish work is occurring

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Elder Richard O'Ffill, Executive Director  
Page 2  
February 8, 1982

on the surgical side. This work will proceed from this side forward. Three rooms in surgery will be completely finished and put into temporary use so that the old surgical building can be demolished and Phase II structures can be started.

d. With respect to the sewerage problem, it was noted that the requested information concerning the design studies of the central sewerage system had not yet been obtained from the proper government sources, and therefore no progress can be reported toward the solution of this very important aspect of the project. Bob Robinson indicated that he would follow up on this item and has also asked the question of your office whether or not this offer of \$60,000.00 as a separate USAid grant to the Government of Botswana was still available. In the meantime Bob Robinson is investigating further those steps that would be necessary to take in the event that no central system is forthcoming or in the event that such a system is seen to be a long way off. It is our opinion that if a study were to start today, it would be several years before the actual hook-up of the hospital to such a central system would be made. The further question is raised concerning whether or not additional USAid monies might be available for such an on-site solution to the problem.

e. A change in the public toilets connected to the side of the main patient waiting area is being made. This block of toilets are being moved to a location directly across the road from the front of the ambulatory care facility. This will further remove the odor problems and nuisance factor this type of facility would bring to the institution and yet the facilities will be readily available to the institution for their intended use.

f. The earlier projected completion date of December, 1982, still seems quite valid and obtainable.

## 2. Phase II Project

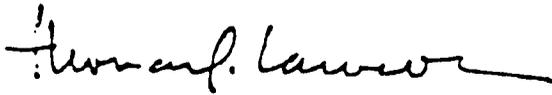
a. The main purpose of my visit was to resolve certain conflicts concerning the plans for this phase of the project as they related to the Ministry of Health. These have previously been documented by letters from Anderson and Anderson as well as ourselves. After two meetings of all parties involved it was decided to follow the developed revised sketch for the main level of the administration building and the revised sketch for the mortuary building. Both of these sketches were approved verbally by the Chief Architect and we were instructed to proceed with our final drawings with priority to be placed on the mortuary building which can be constructed immediately.

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Elder Richard O'Ffill, Executive Director  
Page 3  
February 8, 1982

b. The former out-patient clinic has been demolished to make way for the new administration building. As soon as the temporary new surgical suite is finished the old surgery will be demolished and excavation can proceed. It is anticipated this will occur sometime during the month of February. Earth probes indicate that it should not be difficult to excavate the basement area and the parking area in front.

Sincerely,



Thomas G. Lawson, AIA  
JOHN D. LATIMER AND ASSOCIATES, INC.

(617) 822-7184

TGL/rt

cc N. Tarter, TAD  
Elder H. Carl Currie, Zambesi Union  
R. Robinson, Kanye

WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 95  
AMENDMENT NO. 1  
23 January 1983

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

FROM: Mr. Victor W.R. Wehman Jr., P.E., R.S.  
AID WASH Project Manager  
AID/S&T/H/WS

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

REFERENCE: A) OTD # 95, 7 May 1982

1. Para 2 of subject OTD # 95 (Ref A) is cancelled. New para 2  
to subject OTD # 95 (Ref A) is now to read as follows:

"2. WASH contractor/subcontractor/consultants authorized to  
expend up to 80 person days of effort over a 12 month period  
to accomplish this technical assistance effort."

2. Para 3 of subject OTD # 95 (Ref A) is cancelled. New para 3  
to subject OTD # 95 (Ref A) is now to read as follows:

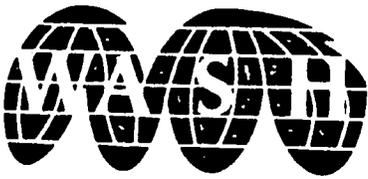
"3. WASH contractor authorized to expend up to 68 person days of  
international/domestic personnel to accomplish this effort."

3. New para 7.A. to subject OTD # 95 (Ref A) is now to read as  
follows:

"7.A. Contractor authorized to hire local professional services  
in Botswana (translator and/or social scientist) to assist  
in performing this technical assistance. Para. 7.A. not to  
exceed (NTE) \$5000 without the written approval of the AID  
WASH Project Manager and are to be treated as services  
**related** to the level of effort specified in paragraphs 2 and  
3 of this OTD."

4. Nothing follows.

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OTD #100

29 June 1982

Technical Assistance in Training of Trainers  
for Public Health Nurse Supervisors and  
in Training for Spring Cappers - Zaire

AID/Zaire requested technical assistance in two training tasks: training of trainers (TOT) for fifteen public health nurse supervisors who will work with village health committees, and training of Peace Corps Volunteers (PCVs) in spring capping techniques. The two week training-of-trainers course will emphasize adult learning processes, preparation of training objectives, planning of training sessions, and innovative health education approaches. The WASH training consultant will draft TOT instructional materials, plan and implement this course, and also assist in preparing instructional materials for the spring capping course. In the two week Peace Corps spring capping course the sanitary engineering training consultant will assist the Peace Corps on-site trainer and will emphasize practical site assessment, flow measurement, and physical design. This consultant will also advise PCVs and Zairians of possible solutions to waterflow, drainage and design problems of existing spring boxes in specific areas and prepare a draft spring capping instructional manual. For further information, contact Mr. C. Hafner.

Up to ninety person days of effort, seventy-two person days of international/domestic per diem and two international air round trips are authorized. Local travel expense up to \$1,200, secretarial services up to \$800, and up to \$2,200 for training materials are also authorized. In addition, up to three simple spring caps may be installed for training purposes at a cost not to exceed \$400 each.

JEB/CIC  
7/6/82

WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 100  
June 29, 1982

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

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

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

REF: A) Kinshasa 6622 dated 14 June 82  
B) Kinshasa 6419 dated 9 June 82  
C) Kinshasa 4953 dated 6 May 82

1. WASH contractor requested to provide technical assistance to U.S. A.I.D./Zaire as per Reference A (paragraph 2.A and 2.B.).
2. WASH contractor/subcontractor/consultants authorized to expend up to 90 (ninety) person days of effort over a five (5) month period to accomplish this technical assistance effort.
3. Contractor authorized up to 72 (seventy-two) person days of international and/or domestic per diem to accomplish this effort.
4. Contractor to coordinate with AFR/TR/HNP (J. Shepperd), Zaire Desk Officer, AFR/TR/ENGR (J. Snead) and AFR/PD (Zaire) projects officer and should provide copies of this OTD along with periodic progress reports and ETA of personnel as requested by S&T/H/WS and Africa Bureau or Mission personnel.
5. Contractor authorized to provide up to two (2) international round trips from consultants' home base through Washington, D.C. (for WASH briefings) to Zaire and return to home base through Washington, D.C. (for WASH debriefing) during life of OTD.
6. Contractor authorized local travel within Zaire as necessary and appropriate to accomplish this technical assistance effort NTE \$1,200 (one thousand two hundred) without written A.I.D. WASH project manager approval.
7. Contractor authorized to obtain secretarial, graphics or reproduction services in Zaire as necessary and appropriate to accomplish tasks outlined in Reference A, paragraphs 2.A-2.B. These services NTE \$800 (eight hundred) without prior written approval of A.I.D. WASH Project Manager.
8. Contractor authorized to expend up to \$2,200 (two thousand two hundred) for the training materials (models, documents, graphic presentations, slides, etc.) for the development and/or printing/support services associated with Reference A, paragraph 2.A.-2.B.

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9. Contractor authorized to provide for car rental, taxi rental or vehicular rental to accomplish this technical assistance effort.
  10. Contractor to take portable (manual) typewriter for consultant's use in the field.
  11. Contractor to fabricate simple flow measurement equipment in Zaire in such a way as to allow replication of equipment by Zairians.
  12. WASH contractor is authorized to install up to three (3) simple spring caps and train locals in installation, operation and maintenance of facilities. Each spring cap NTE \$400 (four hundred) from WASH project in terms of materials (cement, reinforcing bar, wooden forms, braces, tools, sand, aggregate, etc.). U.S. A.I.D./Zaire or Zairian Government to provide any additional resources for training/site development.
  13. WASH contractor will adhere to normal established administrative and financial controls as established for WASH mechanism in WASH contract.
  14. WASH contractor should definitely be prepared to administratively or technically backstop field consultants and subcontractors.
  15. Contractor to prepare or provide draft written report before consultants leave field Mission. The final report is due within 30 (thirty) days of consultants' returning from technical assistance effort.
  16. Mission and coordination points in paragraph 4 above should be contacted immediately and technical assistance initiated in conjunction with timing requirements of U.S. A.I.D./Zaire.
14. Appreciate your prompt attention to this matter. Good luck!

ACTION COPY

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INCOMING TELEGRAM

PAGE 01 KINSHA 06622 141309Z  
ACTION AID-35

3791 015396 AID3547

KINSHA 06622 141309Z

3791 015396 A

ACTION OFFICE STHE-01  
INFO AAF-01 AFDR-06 AFCA-03 SACT-01 IT-06 HMC-09 AFDA-01  
ATPC-04 RELO-01 MAST-01 /014 A6 815

INFO OCT-88 COPY-01 AF-10 /846 W

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R 141326Z JUN 82  
FM AMEMBASSY KINSHASA  
TO SECSTATE WASHDC 7378

UNCLAS KINSHASA 06622

AIDAC  
FOR S&T/HEA

E.O. 12055 N/A  
SUBJECT: WASH TECHNICAL ASSISTANCE

1. PLEASE PASS THIS MESSAGE TO: WASH PROJECT; PEACE CORPS  
JIM BELL, O.P.D.; AND PEACE CORPS DESK OFFICER FOR INFO.

2. FOLLOWING DISCUSSIONS WITH HAFNER, FRANKLIN BAER AND  
ECZ STAFF, WILLIAM PRUITT AND P.C. STAFF, MISSION REQUESTS  
THE FOLLOWING CONSULTANT ASSISTANCE:

- A. TRAINING OF TRAINERS (TOT) CONSULTANT:
  - TO CONDUCT 2 WEEK TRAINING OF TRAINERS (TOT) FOR 15  
PUBLIC HEALTH NURSE SUPERVISORS ATTENDING A MONTH TRAIN-  
ING AT UNIVERSITY OF KINSHASA FROM JULY 5 - AUG. 5  
SPONSORED BY BASIC RURAL HEALTH PROJECT, 66D-0036;
  - TO ARRIVE NLT JULY 15 FOR 4 WEEKS - WITH JULY 15-25  
FOR DESIGN AND PREPARATION, JULY 26-AUG. 5 TRAINING, AND  
AUG. 6-13 FOR REPORT PREPARATION;
  - SCOPE OF WORK (SOW) TO INCLUDE:
    - PREPARE PRELIMINARY DESIGN IN U.S. IN CONSULTATION  
WITH WASH.

SUBJECTS INCLUDED IN TOT:

- ADULT LEARNING
- DEFINING AND WRITING OF TRAINING OBJECTIVES BASED ON
- METHODS FOR APPROACHING AND RELATING TO VILLAGE HEALTH  
COMMITTEES
- PLANNING TRAINING SESSIONS
- PRACTICE TRAINING SESSIONS
- INTRO TO INNOVATIVE HEALTH ED. APPROACHES;
- INTERVIEW PARTICIPANTS AND FINALIZE TRAINING DESIGN  
IN CONSULTATION WITH ECZ STAFF;
- IMPLEMENT TRAINING SESSIONS;
- PREPARE DRAFT INSTRUCTIONAL MATERIALS AND DESIGN TO  
BE LEFT WITH ECZ STAFF;
- ASSIST ENGINEER TRAINER (SEE BELOW) IN PRODUCING DRAFT  
SPRING CAPPING INSTRUCTIONAL MATERIALS;
- TRAINER QUALIFICATIONS: FRENCH FSI-3, MINIMUM 4 YEARS  
PROFESSIONAL TRAINING EXPERIENCE WITH THIRD WORLD NATION-  
ALS AT SUPERVISORY LEVEL.
- TRAINEES CHARACTERISTICS: MEDICAL ASSISTANT DIPLOMA-  
NURSE (A2) AND AUXILIARY NURSE (A3), ALL MALE, AGE LATE  
20'S, 30'S. FRENCH PLUS ZAIRIAN VERBACULAR LANGUAGE,  
RESPONSIBILITIES INCLUDE SUPERVISION OF CURATIVE AND  
PUBLIC HEALTH WORK IN AREA SURROUNDING REFERENCE HOSPIT-  
AL.

B. SANITARY ENGINEER TRAINER CONSULTANT:

- TO ASSIST IN SPRING CAPPING IN-SERVICE TRAINING OF  
10-12 PCVS JULY 15-30, IN MWENE DITU, E. KASAI REGION.  
TRAINING TO EMPHASIZE PRACTICAL DESIGN AND CONSTRUCTION  
SKILL, FLOW MEASUREMENT AND SITE ASSESSMENT;
- TO PREPARE DRAFT SPRING CAPPING INSTRUCTIONAL MATERIALS  
FOR 2 WEEK TRAINING COURSE IN COLLABORATION WITH P.C.,  
ECZ STAFF, AND TOT CONSULTANT;

- TO ADVISE ECZ STAFF ON PLANNING AND PREPARING FOR 2  
WEEK SPRING CAPPING TRAINING PROGRAM LATER THIS YEAR;
- TO ADVISE PCVS AND ZAIRIANS ON POTENTIAL SOLUTIONS TO  
WATERFLOW, DRAINAGE, AND DESIGN PROBLEMS OF EXISTING  
SPRING BOXES AND WILLS IN MWENE DITU AND KONGOLO APAS;
- PROPOSED SCHEDULE 4-5 WEEKS BEGINNING NLT JULY 12;
- CONSULTANT QUALIFICATION:
- PRACTICAL FIELD ENGINEER OR TECHNICIAN WITH MINIMUM 5  
YEARS RURAL AFRICA OR SIMILAR EXPERIENCE;
- EXPERIENCED CONSTRUCTION SKILL TRAINER;
- ABLE TO WORK AND LIVE UNDER SPARSE CONDITIONS;
- DESIRABLE, BUT NOT REQUIRED: PEACE CORPS TRAINING,  
INSTRUCTIONAL MATERIAL PREPARATION EXPERIENCE, FRENCH NOT  
CRITICAL SINCE TRAINING AND SITE VISITS WILL BE WITH  
PCVS.

3. NOTE THAT HAFNER WILL HANDCARRY SPECIFIC PROJECT  
INFO BACK TO U.S. AND WILL BRIEF CONSULTANTS PRIOR TO  
THEIR DEPARTURE. MCHAMARA

Received ST/H (Wehman) 6-18  
Passed to WASH 6-18-82

McJunkin  
Austin  
Wehman

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Scope of Work  
For  
Training of Trainers Consultant

- 1) Conduct a needs assessment including interviewing of participants, ECZ staff, and appropriate AID and GOZ officials. July 13 - 25, 1982.
- 2) Prepare a design for a training of trainers (TOT) for 15 public health nurse supervisors as part of the last two weeks of a 5 week course conducted by ECZ project staff at the University of Kinshasa, July 5 - Aug. 5, 1982. (July 13 -26, 1982). Subjects should include but not be limited to:

- a) adult learning theory
- b) defining and writing of training objectives based on task analysis
- c) methods for approaching and relating to village health committees
- d) designing training sessions
- e) selecting appropriate training methods
- f) stand up practice of training sessions
- g) innovative health education approaches

Problems and examples used during the training should be in the area of environmental health.

- 3) Conduct the two week training session. July 26 - Aug 5, 1982.
- 4) Prepare draft report including a description of the workshop and materials used and leave with ECZ. Aug. 6 - 9, 1982.
- 5) Assist Sanitation Engineer Consultant in producing a draft spring capping instructional manual. Aug 6 - 14, 1982.
- 6) Prepare final report for assignment in U.S.
- 7) Conduct a debriefing at the WASH office on the assignment.

Scope of Work  
For  
Sanitary Engineer Trainer Consultant-OTD 100

- 1) To assist a Peace Corps Volunteer trainer in a spring capping in-service training of up to 12 Peace Corps Volunteers, July 15 - 30, 1982 in and near Mwene Ditu, E. Kasai Region of Zaire. The training should emphasize practical design and construction skills, flow measurement, and site assessment.
- 2) To advise PCV'S and Zairians on potential solutions to waterflow, drainage, and design problems of existing spring boxes and wells in the Mwene Ditu as well as the Kongolo areas, July 31 - Aug. 5, 1982.
- 3) To advise Dr. Frank Baer and the ECZ staff in Kinshasa on planning and preparing for a two week spring capping training program tentatively scheduled for later this year. A set of guidelines and recommendations regarding sites, logistics, staff, supplies and equipment should be prepared for ECZ. Aug. 6 - 9, 1982.
- 4) To prepare a draft spring capping instructional manual, in French if possible, for a two week training course in collaboration with the Peace Corps, ECZ staff and with the assistance of the WASH training of trainers consultant. Aug. 6 - 14, 1982 in Zaire. Draft to be left for P.C. and ECZ.

WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 100  
AMENDMENT NUMBER 1  
December 10, 1982

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

FROM: Victor W.R. Wehman, Jr., P.E., R.S. *QJWW*  
A.I.D. WASH Project Manager  
A.I.D./S&T/H/WS

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

REFERENCE: (A) Kinshasa 13558 Nov. 30, 1982  
(B) Kinshasa 12865 Nov. 12, 1982  
(C) State 341873 Dec. 08, 1982  
(D) OTD #100 Dated June 29, 1982

1. Paragraph 2 of subject OTD #100 Ref. D. is cancelled. New paragraph 2 of OTD #100 is now to read as follows:

"2. WASH contractor/subcontractor/consultants authorized to expend up to 120 (one hundred and twenty) person days of effort over a six (6) month period to accomplish this technical assistance effort."

2. Paragraph 3 of subject OTD Ref. D is cancelled. New paragraph 3 of OTD 100 is now to read as follows:

"3. Contractor authorized up to 105 (one hundred and five) person days of international and/or domestic per diem to accomplish this effort."

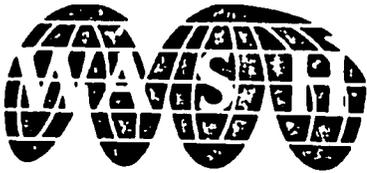
3. Nothing follows.

JHA/ddc

Camp, Dresser & McKee, Inc.  
WASH PROJECT

DEC 15 1982

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OTD #104

July 2, 1982

Investigation of Appropriate Water and Sanitation  
Systems for Low Cost Housing - Kenya

AID/Kenya and the Regional Housing Office, Nairobi, requested WASH technical assistance in investigating appropriate water supply and sanitation systems for low cost housing in Nairobi. Rising construction costs require that suitable alternative technologies be identified and their feasibility assessed on a preliminary basis. The scope of work includes a review of technologies that might be technically, economically, socially and politically acceptable, discussion of these technologies with AID and Kenyan officials, and preparation of a preliminary report on potentially feasible alternatives for low cost housing. For further information contact Dr. Dennis Warner.

Up to twenty person days of effort, up to eighteen person days of international per diem, and one international air round trip are authorized over a two month period. Local travel within a fifty mile radius of Nairobi and up to \$800 for local secretarial, graphics and reproduction services are also authorized.

JEB/CIC  
8/11/82

WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 104  
July 2, 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/H/WS

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

REF: 'A) PRE/H Scope of Work dated 7 May 82  
'B) Nairobi 13266 dated 4 Jun 82  
'C) Telcon Warner (WASH) - Olinger and Mann (PRE/H) - Morris (RHUDO/  
ESA) dated 30 Jun 82  
'D) WASH Telex Number 232 to RHUDO/ESA dated 10 Jun 82  
'E) WASH Telex Number 235 to RHUDO/ESA dated 16 Jun 82  
'F) WASH Telex Number 244 to RHUDO/ESA dated 24 Jun 82  
'G) Hussey (RHUDO/ESA) Telex to WASH dated 25 Jun 82  
H) Document - "Request for Proposal for Consulting Services for  
Development of Umoja II"  
I) Document - "Sanitation for Site and Service Schemes," Housing  
Research and Development Unit, University of Nairobi  
J) Memorandum, Warner (WASH)/Wehman (S&T/H), Scope of Work for WASH  
Assistance to U.S. A.I.D./Kenya Umoja II Housing Project

1. WASH contractor requested to provide technical assistance to U.S. A.I.D./Kenya (RHUDO) as per Reference J, paragraph 1, phase 1, page 2 and appropriate parts (subject to availability of time) of Reference A, paragraphs 1.a. and 1.d. and appropriate parts of Reference G, paragraph 2, phases IA and 1E.
2. WASH contractor/subcontractor/consultants authorized to expend up to 20 (twenty) person days of effort over a two (2) month period to accomplish this technical assistance effort.
3. Contractor authorized up to 18 (eighteen) person days of international per diem to accomplish this effort.
4. Contractor to coordinate with AFR/TR/HNP (J. Shepperd), AFR/TR/ENGR (J. Snead), Kenya Desk Officer and PRE/Housing Officer (D. Olinger) and should provide copies of this OTD along with periodic progress reports as requested by S&T/H Staff, AFR Bureau, or PRE/Housing.
5. Contractor authorized to provide up to one (1) international round trip from Washington, D.C. to Kenya and return to Washington, D.C. during life of OTD.
6. Contractor authorized local travel in Kenya only within 50 mile radius of Nairobi, Kenya for field evaluation.

7. Contractor authorized to obtain local secretarial, graphics or reproduction services in Kenya as necessary and appropriate to accomplish tasks NTE \$800 (eight hundred) without prior written approval of A.I.D. WASH Project Manager. These services are in addition to the level of effort specified in paragraph(s) 2 and 3 above.
8. Contractor authorized to provide for car or vehicle rental if necessary to facilitate technical assistance effort. Mission is encouraged to provide Mission vehicles, if available and appropriate.
9. WASH contractor will adhere to normal established administrative and financial controls as established for WASH mechanism in WASH contract.
10. WASH contractor should definitely be prepared to administratively or technically backstop field consultants and subcontractors.
11. Contractor to provide interim report repeat interim report on this activity. No final report will be required until a decision has been made to go to phase II and/or phase III identified in Reference J. A coordinated draft report should be provided Mission before consultant leaves Kenya. Interim report due within 20 (twenty) days of return of consultant to U.S. from Kenya.
12. Mission and coordination points in paragraph 4 should be contacted immediately and technical assistance initiated as soon as convenient to PRE/Housing and U.S. A.I.D./Kenya (RHUDO).
13. Appreciate your prompt attention to this matter. Good luck!

DRAFT

Ref A

WASH TDY SOW  
May 7, 1982

Purpose

Assist RHUDO/E&SA and Nairobi City Council (NCC) to reach agreement on optimum type of water and sanitation suste (system), for proposed \$25 million HG project called Umoja II. Problems: Construction costs and interest rates have risen faster than beneficiary incomes since Umoja Phase I was built, making past plans too expensive for use in Phase II, for which a designer is now being selected. Substantial cost reductions will be necessary, even below the levels reached in more recent NCC site and service projects. Significant savings may be realized by adoption of more appropriate water and sanitation system. Site conditions may complicate system selection: there is a shallow layer of black cotton soil over roughly level rock. Also, all of Nairobi suffers from recurrent water shortages. However, the major obstacle probably will be NCC's commitment to unaffordable standards, for example, metered water and cistern-flush toilets for every plot regardless of occupant income.

Task

The work will be performed in two separate trips to Nairobi.

1. Prior to NCC selection of Umoja II design and consultancy:
  - a) Review systems now acceptable to NCC, GOK and AID and identify those which are technically and socially suitable for Umoja II, and for large scale application in Nairobi.
  - b) With the assistance of NCC quantity surveyors, estimate

16/82

the capital and operating costs of each suitable alternative.

- c) With the assistance of the AID Umoja Resident Technical Advisor, estimate the minimum income necessary to afford low-income housing incorporating each suitable alternative.
  - d) Discuss, with RHUDO/E&SA and with NCC technical staff, all significant findings, conclusions and recommendations, with the aim of reaching consensus on the relative merits of alternative systems.
  - e) Assist RHUDO/E&SA to present agreed recommendations to NCC non-technical staff and councillors, with the aim of reaching agreement on the system or systems which would be possible for use in Umoja II and for large scale application in Nairobi. Prepare simple visual aids for this purpose.
2. Following selection of an Umoja II design consultant:
- a) Review those recommendations of the design consultant regarding project design criteria which pertains to water and sanitation systems and advise RHUDO/E&SA whether the recommendations are consistent with agreements reached prior to consultant selection.
  - b) With RHUDO/E&SA, and NCC officials and design consultant, participation in discussions of Umoja II design criteria

with the aim of reaching consensus regarding those criteria which concern water and sanitation systems.

- c) Before leaving Nairobi, submit a draft report to RHUDO/E&SA on both stages of the task described herein and within 30 days after departure, submit a final draft to PRE/H.

Timing

The first TDY should be for four weeks beginning in early July 1982. The second should be for two weeks in October 1982.

COPY

Department of State

TELEGRAM

PAGE 01 NAIROBI 13266 041259Z 8238 208737 AID6589

ACTION OFFICE STAF-01  
INFO AFSA-03 AFSA-08 HO-04 AAST-01 ENGR-02 AFDA-01 RELO-01  
MAST-01 /020 A4 737  
INFO OCT-00 AMAD-01 /036 W

REF B

R 041230Z JUN 82  
FM AMEMBASSY NAIROBI  
TO SECSTATE WASHDC 2708

UNCLAS NAIROBI: 13266

AIDAC

FOR ST/HFA VICTOR WEHMAN

EO 12065 NA

SUBJECT: WASH ENGINEERING SERVICES

1. RHUDD AND USAID/KENYA APPRECIATE SERVICES OF WASH TO INVESTIGATE APPROPRIATE SANITATION SYSTEMS FOR KENYA LOW COST HOUSING AND TO PROVIDE ASSISTANCE TO HOUSING DEVELOPMENT DEPARTMENT, CITY COUNCIL OF NAIROBI ALL AS OUTLINED IN SCOPE OF WORK HANDCARRIED TO AID/W BY DAVID CLINGER OF PRE/HUD MID-MAY.

2. RHUDD AND USAID/K WOULD APPRECIATE INFORMATION WHEN AVAILABLE UPON TEAM COMPOSITION, ETAS AND ANY SIGNIFICANT CHANGE FROM PROPOSED SCOPE OF WORK.

3. VERY MUCH APPRECIATE PROMPT ACTION TO SECURE WASH SERVICES. HOUDEK

Received ST/H (Wehman) 6-9-82  
Passed to WASH 6-9-82

UNCLASSIFIED

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MEMORANDUM

DATE: June 30, 1982

TO: Victor W.R. Wehman Jr., S&T/H/WS

FROM: Dennis Warner, WASH Project *Dennis Warner*

SUBJECT: Scope of Work for WASH Assistance to USAID/Kenya Umoja II Housing Project (C-281)

REF: A) Draft WASH TDY Scope of Work, dated May 7, 1982.  
B) Nairobi 13266, dated 4 June 1982.  
C) WASH Telex No. 232 to RHUDO/E&SA, dated 10 June 1982.  
D) WASH Telex No. 235 to RHUDO/E&SA, dated 16 June 1982.  
E) WASH Telex No. 244 to RHUDO/E&SA, dated 24 June 1982.  
F) HUSSEY (RHUDO/E&SA) Telex to WASH, dated 25 June 1982.  
G) Telcon Warner (WASH)-Olinger & Mann (PRE/H)-Morris (RHUDO/E&SA), dated 30 June 1982.

As a result of recent conversations with the Office of Housing (PRE/H) and the Regional Office (RHUDO/E&SA), the following issues appear to be important in developing a WASH response to the above request for assistance:

(1) RHUDO believes it necessary to initially maintain a low profile because the concept of alternative WSS systems is not yet widely accepted. Such an approach can be used to determine the potential acceptability of the concept among relevant Kenyan officials without fully committing either RHUDO, S&T/H/WS, or the WASH Project.

(2) There is need to bring together the main elements of the activity in a preliminary synthesis report. These elements include technical alternatives, cost aspects, sociological considerations, and political acceptability.

(3) It would be useful to coordinate initial WASH assistance with expert personnel resources available in RHUDO and the Nairobi City Council (NCC).

In the telephone conversation of 30 June 1982 (Ref. G), the following revised scope of work and schedule was agreed upon. WASH assistance will involve three phases of field interventions,

V. Wehman  
page 2  
June 30, 1982

as follows:

Phase I. One WASH consultant (Warner) to visit Kenya for two weeks (19-30 July 1982) to develop overall WASH assistance with RHUDO, synthesize available information, begin discussions with NCC technical officials, and prepare a preliminary report on potentially feasible alternatives for Umoja II. This report will also define the likelihood of successfully implementing low cost WSS and will outline the subsequent process for obtaining formal approval of innovative systems by AID, GOK, and NCC.

Phase II. A team of two or three WASH consultants (possibly a sanitary engineer, an economist, and a social scientist) to visit Kenya for approximately three weeks to develop a detailed feasibility study on recommended low cost WSS system (s). The team will work closely with RHUDO officials and the technical staff of the NCC. The team will conclude its field work with a presentation of its recommendations to the NCC in order to obtain formal approval of the political decision-makers. The feasibility study and recommendations will be incorporated in a report to RHUDO. Subsequent to Phase II and to agreement being reached between RHUDO and the NCC, the local design consultants will be selected by RHUDO (late-September or early-October 1982).

Phase III. One or two WASH consultants return to Kenya for approximately two weeks in October 1983 to work with the Kenyan design consultants. The outcome of this phase will be a set of firm design criteria and guidelines for preparing the final design and construction plans for the Umoja II Project. The WASH consultants will prepare a final report reviewing the entire three-phase process and describing the extent to which the actual design criteria of the consultants adhere to the agreements reached in Phase II.

The resources needed to carry out the above three-phase process are estimated as follows:

Personnel time = 125 DPPD'S  
Per diem, international and domestic = 100 days  
International round trips USA-Kenya =6 trips  
Miscellaneous expenses =\$3,000  
(secretarial, communications, local  
transport, etc.)

V. Wehman  
Page 3  
June 30, 1982

We recommend that a single OTD be issued to cover all three phases of the work. Each subsequent phase, however, will be more fully defined by the interactions between WASH, RHUDO, and NCC as the work progresses.

cc: D. Olinger, PRE/H  
W. Mann, PRE/H

DW:mh

( Ref D )

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0018678 1641 06/10

22764 AMEMB  
OUR TELEX NO. 232

TO: JEREMY HADGER  
USAID MISSION  
RHUDO/E + SA  
AMEMBASSY NAIROBI  
FROM: DENNIS WATER  
WASH PROJECT DIRECTOR

1. WASH (WATER AND SANITATION FOR HEALTH) PROJECT ABLE TO PARTICIPATE IN DESIGN OF ALTERNATIVE WS AND S SYSTEM FOR UHOJA II NEIGHBORHOOD PROJECT (NAIROBI) IF AID, GOK AND NCC REQUIRE ASSISTANCE.
2. WASH FAMILIAR WITH BASIC DOCUMENTATION ON UHOJA II AND CAPABLE OF FIELDING THREE PERSON TEAM OF SENIOR PROFESSIONALS (LINDINLIK, ECONOMIST/PLANNER, ANTHROPOLOGIST, SOCIOLOGIST) IN LATE JULY OR EARLY AUGUST TO WORK WITH AID, GOK, NCC COUNTERPARTS FOR 4 WEEKS TO DEVELOP SYSTEM. PLEASE CONFIRM EARLIEST AND LATEST DATES TEAM COULD TRAVEL TO KENYA.
3. WASH AWARE OF STUDY PREPARED BY G.J.W. DE KRUIJFF OF HOUSING RESEARCH AND DEVELOPMENT UNIT OF UNIVERSITY OF NAIROBI AND WOULD BE PREPARED TO INVOLVE THIS UNIT AND LOCAL CONSULTANTS FAMILIAR WITH DESIGN ISSUES. DOES RHUDO KNOW OF GOOD KENYAN SOCIOLOGIST WITH INSIGHTS INTO HOUSING ISSUES AVAILABLE TO ASSIST WASH TEAM DURING THE FIELD VISIT?
4. WASH WILL COORDINATE ALL ACTIVITIES THROUGH SETHEA (Y. WEHMAN) AND PREZH (D. OLINGER).

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22964 AMEMB

OUR TELEX NO. 235

TO: JEREMY HADLER  
USAID, RHODESIAN  
EMBASSY, NAIROBI  
(KENYA)

FROM: DENNIS WARNER  
WASH PROJECT DIRECTOR

SUBJECT: WASH TELEX 232 OF 10 JUNE REQUESTING CONFIRMATION  
EARLIEST AND LATEST DATES TEAM COULD TRAVEL KENYA.

1. IN ORDER THAT WASH CAN DEVELOP FIRM PLANS, WE WOULD APPRECIATE YOUR SWIFTEST RESPONSE TO THIS MATTER.
2. WASH ALSO LOOKING FORWARD TO ANY ADVISE YOU CAN PROVIDE RE KENYAN SOCIOLOGIST.

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OUR TELEX NO. (244)

TO: PAMELA HUSSEY  
RHUDO/E+SA  
USAID MISSION  
AMEMBASSY  
NAIROBI

FROM: DENNIS WARNER, WASH PROJECT

RE: 1) NAIROBI 13266

2) WASH TELEX NO. 232 DATED 6/10/82.

3) WASH TELEX NO. 235 DATED 6/16/82.

1. IN RESPONSE TO RE (1) AND DISCUSSIONS WITH PRE/H (OLINGER), WASH HAS ASSEMBLED THREE PERSON TEAM WITH EXPECTATIONS OF BEGINNING WORK IN NAIROBI O/A 6 JULY 1982. WE HAVE BEEN AWAITING RESPONSE TO RE (2) AND (3) BEFORE SENDING BIO-DATA AND ETAS.

2. RECENT CONVERSATIONS WITH PRE/H HAVE INDICATED THAT RHUDO/ESA MAY WANT TO DELAY WASH VISIT TO KENYA AND TO MODIFY SCOPE OF WORK OF WASH TEAM. WE WOULD APPRECIATE YOUR CONFIRMATION OF CURRENT STATUS OF REQUEST FOR WASH ASSISTANCE. DESPITE UNCERTAINTY, WILL CONTINUE TO PLAN FOR 6 JULY START DATE, UNLESS INSTRUCTED OTHERWISE. PLEASE INFORM US OF STATUS BY 28 JUNE IN ORDER TO INSURE AVAILABILITY OF TEAM FOR EXISTING TRAVEL SCHEDULE.

3. IN EVENT NEW SCHEDULE IS REQUIRED, WASH IS READY TO WORK WITH RHUDO/ESA AND PRE/H TO PROVIDE NECESSARY ASSISTANCE. WE WILL REMAIN FLEXIBLE IN ORDER TO DEVELOP BEST POSSIBLE RESPONSE TO YOUR NEEDS.

4. WE WOULD APPRECIATE YOUR GUIDANCE ON THIS MATTER VIA EITHER STATE CABLE TO PRE/H OR S+T/H/WS (WEHMAN), TELEX/CABLE TO WASH, OR WEEKEND TELEPHONE TO WARNER (703-532-4539).

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KENYA

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WASHAID 64552

22964 AMEMB

WARNER  
WASH PROJECT  
TELEX WASHAID 64552  
WASHINGTON

REFERENCE YOUR TELEX 244. FOLLOWING CABLE SENT  
OLINGER REPEATED FOR YOUR ACTION:

SUBJECT: WASH ASSISTANCE FOR KENYA HG UMOJA II PROJECT.

1. RHUDO/NAIROBI APPRECIATES WASH OFFER OF TEAM TO ASSIST WITH UMOJA DESIGN. INITIALLY NEED LOW PROFILE AS CONSIDERATION OF ALTERNATIVE SYSTEMS NOT YET WIDELY ACCEPTED. THEREFORE REQUEST ONE SANITARY ENGINEER FOR THREE WEEKS COMMENCING JULY 19-AUG 6 TO ALSO ALLOW OVERLAP WITH RHUDO SOCIOLOGIST TDY. ENGINEER SHOULD ETA NAIROBI JULY 18. FYI DE KRUIJFF NOW WORKING IN ZIMBABWE BUT RHUDO AGREES HIS WORK VALUABLE AND RELEVANT AND HRDU INVOLVEMENT APPROPRIATE. PLEASE ADVISE BACKGROUND PROPOSED WASH ENGINEER.

2. SCOPE OF WORK.

PURPOSE: ASSIST RHUDO/NAIROBI AND NAIROBI CITY COUNCIL REACH AGREEMENT OPTIMUM TYPE OF WATER AND SANITATION SYSTEM (WSS) FOR PROPOSED DOL.25 MILLION UMOJA II HG PROJECT. CONSTRUCTION COSTS AND INTEEST RATES RISEN FASTER THAN BENEFICIARY INCOMES SINCE UMOJA I WAS BUILT MAKING PAST PLANS TO EXPENSIVE FOR PHASE II, FOR WHICH DESIGNER NOW BEING SELECTED. SUBSTANTIAL COST REDUCTIONS NECESSARY EVEN BELOW LEVELS REACHED IN MORE RECENT COUNCIL SITE AND SERVICE PROJECTS. SIGNIFICANT SAVINGS MAY BE REALIZED BY ADOPTION MORE APPROPRIATE WSS. SITE CONDITIONS MAY COPPLICATE SELECTION AS THERE IS SHALLOW LAYER OF BLACK COTTON SOIL OVER ROUGHLY LEVEL ROCK. NAIROBI ALSO SUFFERS RECURRENT WATER SHORTAGES. MAJOR OBSTICALE PROBABLY WILL BE COUNCIL COMMITMENT TO UNAFFORDABLE STANDARDS LIKE METERED WATER AND CISTERN FLUSH TOILETS FOR EVERY PLOT REGARDLESS OCCUPANT INCOME.

PHASE I: PRIOR TO DESIGN AND CONSULTANCY SELECTION, A) REVIEW SYSTEMS ACCEPTABLE TO COUNCIL, GOK AND AID AND IDENTIFY THOSE TECHNICALLY SUITABLE FOR UMOJA II AND LARGE SCALE APPLICATIONS, B) WITH ASSISTANCE OF RHUDO SOCIOLOGIST/ANTHROPOLOGIST CURRENTLY CONDUCTING MARKET PREFERENCES STUDY, ESTIMATE SOCIAL ACCEPTABILITY OF EACH TECHNICALLY SUITABLE ALTERNATIVES, C) WITH COUNCIL ARCHITECT/ENGINEER AND QUANTITY SURVEY ESTIMATE CAPITAL AND OPERATING COSTS EACH ALTERNATIVE, D) ESTIMATE MINIMUM INCOME NECESSARY TO AFFORD LOW INCOME HOUSING INCORPORATING EACH ALTERNATIVE, E) DISCUSS ALL SIGNIFICANT FINDINGS, CONCLUSIONS AND RECOMMENDATIONS WITH AIM OF REACHING CONSENSUS ON RELATIVE MERITS OF ALTERNATIVE SYSTEMS WITH RHUDO AND COUNCIL. PHASE II, FOLLOWING DESIGN CONSULTANT SELECTION (TDY DATES TO BE DECIDED LATER) : A) REVIEW THOSE RECOMMENDATIONS OF DESIGN CONSULTANT REGARDING DESIGN CRITERIA PERTAINING TO WSS AND ADVISE WHETHER RECOMMENDATIONS CONSISTENT WITH AGREEMENTS REACHED PRIOR TO CONSULTANT SELECTION, B) PARTICIPATE IN DISCUSSIONS OF DESIGN CRITERIA PERTAINING TO WSS AND ADVISE WHETHER RECOMMENDATIONS CONSISTENT WITH AGREEMENTS REACHED PRIOR TO CONSULTANT CRITERIA CONCERNING WSS, C) ASSIST IN PRESENTATION OF AGREED RECOMMENDATIONS TO COUNCIL WITH AIM OF REACHING AGREEMENT ON SYSTEM(S) FOR POSSIBLE USE UMOJA II AND LARGE SCALE APPLICATIONS AND PREPARE SIMPLE VISUAL AIDS THIS PURPOSE, D) BEFORE LEAVING NAIROBI SUBMIT DRAFT REPORT TO RHUDO ON BOTH STAGES OF TASKS DESCRIBED HEREIN WITHIN 30 DAYS OF DEPARTURE AND FINAL DRAFT TO PRE/HUD.

TIMING: FIRST 3-WEEK TDY BEGINNING JULY 19 AND SECOND 2-3 WEEK TDY PROBABLY OCTOBER 1982.

3. PLEASE ADVISE ACCEPTABILITY PHASE I SCOPE OF WORK ONLY. PHASE II TASKS PROVIDED FOR REFERENCE ONLY AND WILL BE DISCUSSED DURING FIRST TDY.

4. ADVISE ETA.

HUSSEY, RHUDO/E AND SA-AMEMBASSY, NAIROBI  
BT

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WASHAID 64552

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VIA WUI Q

WATER AND SANITATION FOR HEALTH (WASH) Project  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 104  
Amendment No. 1  
August 23, 1982

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

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

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

REFERENCES: A) OTD # 104, dated July 2, 1982  
B) Interim Report No 1, City Council of Nairobi,  
Design Criteria for Low Cost Water Supply and  
Sanitation in Umoja II Housing Project in  
Nairobi, Kenya, Dennis Warner, July 1982.

1. Para 1 of subject OTD #104 (July 2, 1982) is cancelled. New para 1 of subject OTD #104 is now to read as follows:

"1. WASH contractor requested to provide technical assistance to USAID/Kenya/RHUDO as per Ref A (reference C and J, p.2, Phase I and Phase II) and per Ref A (reference A, para 1.a to 1.e) and per Ref A (reference G, para 2., phase I.A to I.E.)."

2. Para 2 of subject OTD #104 (July 2, 1982) is cancelled. New para 2 of subject OTD #104 is now to read as follows:

"2. WASH contractor/subcontractor/consultants authorized to expend up to one hundred and five (105) person days over a four (4) month period to accomplish this technical assistance effort."

3. Para 3 of subject OTD #104 (July 2, 1982) is cancelled. New para 3 of subject OTD #104 is now to read as follows:

"3. Contractor authorized up to ninety-six (96) person days of international/domestic per diem to accomplish this effort."

4. Para 5 of subject OTD #104 (July 2, 1982) is cancelled. New para 5 of subject OTD #104 is now to read as follows:

"5. Contractor authorized to provide up to four (4) international round trips from consultants home base to Washington D.C. to Nairobi Kenya ~~and~~ and return to Washington D.C. to consultants home base during life of OTD."

U.S.A.I.D. PROJECT # 104  
WASH PROJECT

AUG 24 1982

5. Para 7 of subject OTD #104 (July 2, 1982) is cancelled. New para 7 of subject OTD #104 is now to read as follows:

"7. Contractor authorized to obtain local secretarial, graphics, reproduction or surveyor/data collection services in Kenya as necessary and appropriate to accomplish tasks NTE \$2100 without prior written approval of A.I.D. WASH Project Manager. These services are in addition to the level of effort specified in paragraphs 2 and 3 above. USAID/RHUDO is encouraged to provide services to team where possible and appropriate."

6. Para 11 of subject OTD #104 (July 2, 1982) is cancelled. New para 1 of subject OTD #104 is now to read as follows:

"11. Contractor to provide interim report for Phase I activity. Contractor will provide interim report for Phase II activity. No final report will be required until a decision has been made to go to phase III identified in Ref A (reference J). A coordinated draft report should be provided Mission before consultant leaves Kenya under Phase I and before consultants leave Kenya under Phase II. Interim report on Phase I and II due within 20 days of return of consultant to U.S. from Kenya."

7. New para 14 of subject OTD #104 (July 2, 1982) is to read as follows

"14. Contractor will approach phase II of this OTD as per Ref B, pp. 24-27 providing three (3) members of the seven (7) person design/strategy team ( a sanitary engineer, a development economist, a social scientist). Other personnel in the field may be supported by the WASH element as long as they are actively working on the design/strategy development; however, contractor is encouraged to minimize these costs NTE \$1100 without prior written approval of AID WASH Project Manager."

8. Nothing follows:



OTD #106

July 20, 1982

Technical Assistance in Developing a National  
Drinking Water Supply and Sanitation Plan  
Central African Republic

AID/Central African Republic (CAR) requested WASH assistance in developing a national drinking water supply and sanitation plan similar to that prepared for Sri Lanka. The WASH consultant will provide preliminary coordination for plan formulation which includes discussions with AID and CAR officials of the water supply and sanitation situation, needs and implementation capabilities; review of resources required to design a national plan; and initial schedule of plan development activities. Recommendations regarding the preparation of a national plan will be influenced by CAR efforts to establish an interministerial National Action Committee and by the degree of cooperation available from the donor community. For further information contact Mr. David Donaldson.

Up to fifteen person days of effort, ten days of international per diem and one international round trip are authorized over a two month period. Local travel expenses not to exceed \$900, and local interpreter and secretarial services not to exceed \$900 are also authorized.

JEB/CIC  
8/11/82

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WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 106  
July 20, 1982

Ganta, Dresser & McKee, Inc.  
WASH PROJECT  
JUL 20 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/H/WS

SUBJECT: Provision of Technical Assistance Under WASH Project  
Scope of Work for USAID/Central African Republic (Bangui)

REF: A) BANGUI 1810  
B) STATE 181172, 3 June 82  
C) WASH Telex No. 252, 8 July 82  
D) BANGUI 2097, 3 July 82  
E) BANGUI 2091, 3 July 82  
F) YAOUNDE 5690, 17 July 82

1. WASH contractor requested to provide technical assistance to USAID/CAR as per Ref. E, para. 2.
2. WASH contractor/subcontractor/consultants authorized to expend up to 15 person days of effort for preliminary coordination of scope of work described in Ref. E, para. 2 over a two month period to accomplish this technical assistance.
3. Contractor authorized up to 10 person days of international/domestic per diem to accomplish this technical assistance.
4. Contractor to coordinate with AFR/TR/HNP (J. Shepperd), AFR/TR/ENGR (J. Snead), CAR desk officer and CAR Project Development officer in AFR/PD, and should provide copies of this OTD along with periodic progress reports as requested by S&T/H/WS or Africa Bureau personnel.
5. Contactor authorized to provide for one (1) international round trip from Washington D.C. to Paris, France; to Bangui, CAR; to Paris, France; to Washington D.C. during life of this OTD.
6. Contractor authorized local travel within CAR as necessary and appropriate to accomplish this technical assistance effort NTE \$900 without prior written approval of A.I.D. WASH Project Manager.
7. Contractor authorized to obtain local interpreter, secretarial, graphics, or reproduction services in CAR as necessary to accomplish tasks. These services are in addition to the level of effort specified in para. 2 and para. 3 above NTE \$900 without prior written approval of A.I.D. WASH Project Manager. Mission is encouraged to provide support if available and appropriate.

8. Contractor authorized to provide for car or vehicle rental if necessary and appropriate to facilitate effort. USAID/Bangui is encouraged to provide mission vehicles if available and appropriate.
9. WASH contractor will adhere to normal established administrative and financial controls as established for WASH mechanism in WASH contract.
10. WASH contractor should definitely be prepared to administratively or technically backstop field consultants and subcontractors.
11. Contractor to leave a coordinated draft report with USAID/Bangui before leaving CAR. Final report is due within 30 days of return by consultant to U.S.
12. Mission should be contacted immediately and technical assistance initiated as soon as convenient to USAID.
13. Appreciate your prompt attention to this matter. Good Luck.

WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 106  
AMENDMENT No. 1  
August 20, 1982

Dr. Crocker & McKee, Inc.  
WASH PROJECT

AUG 23 1982

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

FROM: Mr. Victor W.R. Wehman Jr., P.E., R.S.  
AID WASH Project Manager  
AID/S&T/H/WS

VWW

SUBJECT: Provision of Technical Assistance Under WASH Project  
Scope of Work for USAID/Central African Republic (Bangui)

- REFERENCES:
- A) Bangui 1810
  - B) State 181172, 3 June 1982
  - C) WASH Telex No. 252, 8 July 1982
  - D) Bangui 2097, 3 July 1982
  - E) Bangui 2091, 3 July 1982
  - F) Yaounde 5690, 17 July 1982
  - G) WASH Telex No. 311, 17 August 1982
  - H) Bangui 2590, 18 August 1982
  - I) Recommendations for Initial Water and Sanitation Decade Planning Activities in the Central African Republic, WASH Field Report No. 53, August 1982, (Final Draft for Review)
  - J) OTD #106, dated 20 July 1982
1. Paragraph 2 of subject OTD # 106 (Ref J) is cancelled. New para 2 of OTD # 106 is now to read as follows:
    - "2. WASH contractor/subcontractor/consultants authorized to expend up to 105 person days of effort for preliminary coordination of scope of work described in Ref. E, para 2 and Ref I, para 5.2.2 (Preparation of Water and Sanitation Strategy Document) over a four (4) month period to accomplish this technical assistance effort"
  2. Paragraph 3 of subject OTD #106 (Ref J) is cancelled. New para 3 of OTD #106 is now to read as follows:
    - "3. Contractor authorized up to 85 person days of international/ domestic per diem to accomplish this technical assistance effort."
  3. Paragraph 5 of subject OTD #106 is cancelled. New para 5 of OTD # 106 is now to read as follows:
    - "5. Contractor authorized to provide for Four (4) international round trips from consultants home base to Washington D.C. (for briefings and preparatory work) to Bangui CAR to Washington D.C. (for debriefings and preparatory work for third stage of effort) to consultants home base."
  4. Nothing follows.

WASH  
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Department of State

INCOMING TELEGRAM

PAGE 01 BANGUI 02590 181135Z 3858 019200 A100482

BANGUI 02590 181135Z 3858 019200

ACTION AID-08

ACTION OFFICE SHE-01  
INFO AFDR-06 AFCA-03 GC-01 GCAF-01 GCFL-01 SC1-01 SAST-01  
ED-02 ENGR-02 AFDA-01 RELO-01 MAST-01 /022 A4 718

INFO OCT-00 INR-10 AF-60 EB-08 10-15 AMAD-01 /079 V  
-----142175 181135Z /38

R. 181040Z AUG 82  
FM AMEMBASSY BANGUI  
TO SECSTATE WASHDC 7155  
INFO AMEMBASSY YAOUNDE

UNCLAS BANGUI 02590

AIDAC

FOR ST/H/VS

E.O. 12356: N/A

TAGS: EAID,CT

SUBJECT: WASH/AID DIRECTOR VISITS BANGUI

1. WASH DIRECTOR DENNIS WARNER COMPLETED A SIX DAY MISSION IN THE CAR AUG 2-8 DURING WHICH HE HAD EXTENSIVE MEETINGS WITH GOCAR AND UN OFFICIALS AS WELL AS A SHORT TRIP INTO THE INTERIOR OF THE COUNTRY.

2. WHILE THE LACK OF ADEQUATE SUPPLIES OF POTABLE WATER HAS BEEN AND WILL CONTINUE TO BE ONE OF THE MORE DIFFICULT PROBLEMS OF THE CAR, EFFORTS TO COPE WITH IT TO DATE HAVE BEEN INEFFECTUAL EVEN WITH INTERNATIONAL ASSISTANCE. IN FACT, AS WITH MUCH OF THE REST OF THE COUNTRY'S INFRASTRUCTURE, WATER SUPPLY AND SANITATION SYSTEMS HAVE DETERIORATED DURING THE PAST 10 YEARS.

3. THERE HAS BEEN A PERCEIVED NEED FOR SOME TIME TO DEVELOP AN OVERALL COORDINATED PROGRAM AT THE NATIONAL LEVEL TO TACKLE THIS PROBLEM AND UNDP THROUGH UNICEF HAS BEEN TRYING TO PULL TOGETHER SUCH A PROGRAM. UP TO NOW THESE EFFORTS HAD COME TO NAUGHT DUE TO AN APPARENT LACK OF FOCUS ON THE PROBLEM AT SENIOR LEVELS OF GOVERNMENT.

4. IT IS IN THIS CONTEXT THAT THE WARNER VISIT MADE AN IMPORTANT CONTRIBUTION TOWARD GETTING THE GOVERNMENT TO FOCUS ON THE ISSUE AND WITH POSSIBLE WASH ASSISTANCE, TAKE THE FIRST NECESSARY STEPS TOWARD RESOLVING IT. EMBASSY SUMMER INTERN STEPHANIE LOIACCHIO, WITH PREVIOUS UN AND PRIVATE SECTOR EXPERIENCE IN THIS AREA, HELPED LAY THE GROUND WORK FOR THE VISIT. IN ANTICIPATION OF THE WARNER VISIT SHE HELPED GALVANIZE THE VARIOUS GOCAR AGENCIES INVOLVED IN POTABLE WATER AND SANITATION ACTIVITIES INTO FORMING A NATIONAL WATER COMMITTEE-A RECOGNIZED PRECONDITION FOR TAKING ACTION ON A NATIONAL SCALE AND BEING ABLE TO DRAW ON UN DECADE OF WATER ASSISTANCE. REPORTEDLY ONLY PRESIDENTIAL PREOCCUPATION WITH CHANGES IN THE GOVERNMENT PREVENTED THE SIGNING OF A DECREE OFFICIALLY ESTABLISHING THE COMMITTEE BEFORE WARNER'S DEPARTURE. WE ARE NEVERTHELESS ASSURED THAT THE PRESIDENTIAL DECREE IS FORTHCOMING.

5. WITH THIS HURDLE SURMOUNTED, THE WAY IS OPEN FOR A BROAD COORDINATED ATTACK ON THE COUNTRY'S POTABLE WATER AND SANITATION PROBLEMS. WARNER DREW UP A PROPOSED ACTION PLAN WHICH IF IMPLEMENTED WILL HELP GUIDE THE COUNTRY'S LEADERSHIP THROUGH THE FIRST CRUCIAL PLANNING STAGES FOR THE COMING "DECADE OF WATER". A COPY OF WARNER'S REPORT HAS BEEN FOUCHED TO USAID YAOUNDE FOR APPROVAL AND TRANSLATION. WARNER TOOK THE ORIGINAL BACK TO WASHINGTON WITH HIM FOR SUBSEQUENT PRESENTATION TO USAID WASHINGTON. ON RECEIPT OF THE TRANSLATED COPY EMBASSY WILL PASS THE RECOMMENDATIONS

ON TO THE NATIONAL WATER COMMITTEE. IT IS ANTICIPATED THAT THE COMMITTEE, REPRESENTATING THE GOCAR, WILL MAKE AN OFFICIAL REQUEST TO USAID TO HAVE WASH IMPLEMENT THE RECOMMENDATIONS. PRESUMING A FAVORABLE RESPONSE EMBASSY WOULD FORSEE THE COMMENCEMENT OF A PROGRAM VITAL TO THE COUNTRY'S HEALTH AND DEVELOPMENT WHICH WOULD BE EVENTUALLY SUPPORTED BY A NUMBER OF BILATERAL AND MULTILATERAL DONORS. WHILE THE UNDP COULD MAKE NO IMMEDIATE COMMITMENTS ITS SPOKESMAN INDICATED THAT THE WASH RECOMMENDATIONS DETAILED RATHER CLOSELY WITH THEIR OWN "DECADE OF WATER" PLANS.

6. THE EMBASSY IS HIGHLY PLEASED AT THE RESULTS OF THE WARNER VISIT AND COULD CONSIDER THE IMPLEMENTATION OF HIS RECOMMENDATIONS AS BEING HIGHLY SUPPORTIVE OF U.S. INTERESTS IN THE CAR. WOODRUFF

*M. J. Warner*  
*Austin*  
*Washington*

*Received ST/H (Warner) 8-17*  
*Passed to WASH 8-19-82*

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Western Union International, Inc.

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*T-106*

TO: RAY MARTIN YSAUD USAID YAOUNDE  
THIS IS COPY OF FOLLOWING TELEX  
OUR TELEX NO. 310

TO: STEPHANIE LOIACONO/JEFFERSON KENGUELEWA  
AMEMBASSY  
BANGUI

INFO: USAID-YAOUNDE, ATTN: RAY MARTIN

SUBJECT: WASH ASSISTANCE TO CAR WATER AND SANITATION PLANNING

REF: A) BANGUI 2091  
B) YAOUNDE 5690  
C) WASH ORDER OF TECHNICAL DIRECTION NO. 106

International Telex

1. PLEASE CONFIRM THAT FIELD REPORT ON WATER AND SANITATION DECADE PLANNING IN THE CAR BY WASH PROJECT DIRECTOR DENNIS WARNER HAS BEEN RECEIVED BY YOUR OFFICE. THIS REPORT WAS LEFT WITH PERCE CORPS CO-DIRECTORS ON AUGUST 8. ADDITIONAL COPIES ARE BEING POUCHED FROM WASHINGTON.
2. WE WOULD APPRECIATE BEING KEPT INFORMED OF THE STATUS OF THIS ACTIVITY. WE WILL BE HAPPY TO ANSWER ANY QUESTIONS THAT MAY ARISE.
3. THANKS FOR YOUR ASSISTANCE DURING THE VISIT.

J.....  
003.7 MIN

*106*

WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 106  
AMENDMENT NO. 2  
December 09, 1982

TO: 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  
AID/S&T/H/NS

SUBJECT: Provision of Technical Assistance Under WASH Project Scope of  
Work for USAID/Central African Republic (Bangui)

REFERENCE: J) OTD #106, dated 20 July 1982

1. Paragraph 2 of subject OTD #106 (Reference J) is cancelled. New para. 2 of OTD #106 is now to read as follows:

"2. WASH contractor/subcontractor/consultants authorized to expend up to 160 days of effort for preliminary coordination of scope of work described in Ref. E, para. 2 and Ref. I, para. 5.2.2. (Preparation of Water and Sanitation Strategy Document) over a eight (8) month period to accomplish this technical assistance effort."

2. Paragraph 3 of subject OTD #106 (Ref. J) is cancelled. New para. 3 of OTD #106 is now to read as follows:

"3. Contractor authorized up to 105 person days of international/domestic per diem to accomplish this technical assistance effort."

3. Paragraph 5 of subject OTD #106 is cancelled. New para. 5 of OTD #106 is now to read as follows:

"5. Contractor authorized to provide for six (6) international roundtrips from consultants home base to Washington, D.C. (for briefings and preparatory work) to Bangui CAR to Washington, D.C. (for debriefings and preparatory work for third stage of effort) to consultants home base."

**Camp, Dresser & McKee, Inc.**  
**WASH PROJECT**

DEC 16 1982

106

4. Paragraph 7 of subject OTD #106 is cancelled. New para. 7 of OTD #106 is now to read as follows:

"7. Contractor authorized to obtain local interpreter, secretarial, graphics, or reproduction services in CAR as necessary to accomplish tasks. These services are in addition to the level of effort specified in para. 2 and para. 3 above NTE \$2,000 without prior written approval of AID WASH Project Manager. Mission is encouraged to provide support if available and appropriate.

5. Nothing follows.

JHM/ddc

WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 106  
AMENDMENT NO. 3  
January 13, 1983

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

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

SUBJECT: Provision of Technical Assistance Under WASH Project  
Scope of Work for USAID/Central African Republic (Bangui)

REFERENCES: A) OTD #106, dated July 20, 1982  
B) Bangui 00111, dated Jan 12, 1983

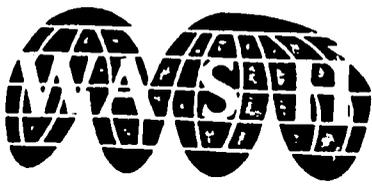
1. Para. 6 of subject OTD #106 (Ref A) is cancelled. New para. 6 of subject OTD #106 (Ref A) is now to read as follows:

"6. Contractor authorized local travel within CAR as necessary and appropriate to accomplish this technical assistance effort NTE \$5900 without the prior written approval of the AID WASH Project Manager. In conjunction with this local travel, consultants are authorized to rent or charter local vehicles, aircraft or other devices to accomplish this scope of work."

2. Nothing follows.

Camp, Dresser & McKee, Inc.  
WASH PROJECT

JAN 13 1983



OTD #107

July 26, 1982

Technical Assistance in Development of Inter-  
Sectoral Water Supply and Sanitation Strategy  
Paper for the Africa Bureau - AFR/TR/HNP

The Africa Bureau Health Nutrition Division requested WASH assistance to develop an inter-sectoral water supply and sanitation (WS&S) strategy statement. WASH consultants have been drafting an Africa WS&S strategy paper primarily from the health sector viewpoint and with an emphasis on human and institutional resource development. In reviewing this paper, the Africa Bureau recognized the need for a broader, more comprehensive inter-sectoral perspective and requested an appropriate revision of the paper. For further information contact Dr. Raymond Isely.

Up to twenty person days of effort, twelve days of domestic per diem and two domestic U.S. round trips to Washington, D.C., are authorized over a two month period. Supporting secretarial, graphics and reproduction services from the WASH CIC will be charged to C-Task #224.

JEB/CIC  
8/5/82

WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 107  
July 26, 1982

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

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

SUBJECT: Provision of Technical Assistance Under WASH Project Scope of Work for Africa Bureau (AFR/TR/HN) regarding development of Inter-sectoral Water Supply and Sanitation Operational Strategy consistent with Africa Bureau Health Strategy.

REFERENCE: A) Memo Shepperd/Wehman, 22 Feb 82  
B) Draft "Africa Bureau Water Supply and Sanitation Strategy Statement, May 82

1. WASH contractor requested to provide technical assistance to AFR/TR/HNP as per Ref A. Some work has been accomplished (preliminary) (Ref B) up to this point in time that was not inter-sectoral, but health sectoral in nature. Since the health strategy is necessarily inter-sectoral in application, this water and sanitation strategy element must also be inter-sectoral in nature.
2. WASH contractor/subcontractor/consultants authorized to expend up to 20 person days over a two (2) month period to accomplish this technical assistance effort.
3. Contractor authorized up to 12 person days of domestic per diem to accomplish this effort.
4. Contractor to coordinate with AFR/TR/HNP (J. Shepperd), and S&T/H/WS (V. Wehman) and should provide copies of this OTD to Dr. Shepperd along with periodic progress reports as requested by Africa Bureau or S&T/H/WS.
5. Contractor authorized to provide up to two (2) domestic U.S. round trips from consultants home base to Washington, D.C., and return to home base of consultant during life of this OTD.
6. Contractor authorized to support consultant document development with WASH CIC secretarial, graphics, or reproduction facilities as necessary to accomplish tasks. These support tasks should be recorded and accounted for under existing C-224 structure.
7. WASH contractor will adhere to normal established administrative and financial controls as established for WASH mechanism in WASH contract.
8. WASH contractor should definitely be prepared to administratively or technically backstop consultants on this effort.

9. Contractor to make interim report (oral briefing) to S&T/H WASH Project Manager after 1J-12 DPPD level of effort have been expended. Final report due within 20 days of joint acceptance of inter-sectoral document by AFR/TR/HPN (J. Shepperd) and ST/H/WS (V. Wehman).

10. AFR/TR/HPN (Shepperd) and consultant should be contacted immediately and technical assistance initiated immediately subject to availability of suitable, experienced consultant.

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

UNITED STATES INTERNATIONAL DEVELOPMENT COOPERATION AGENCY  
AGENCY FOR INTERNATIONAL DEVELOPMENT  
WASHINGTON, D.C. 20523

C-224

February 22, 1982

MEMORANDUM

TO: S/T Health, Victor Wehman  
FROM: AFR/DR/HN, James D. Shepperd, M.D.  
SUBJECT: Africa Bureau Water and Sanitation Strategy Paper

*James D. Shepperd*

The Division of Health and Nutrition of the Africa Bureau has developed a new strategy paper which attempts to address these special problems of health development in Africa. We have found that Sub-Sahara Africa present unique circumstances which call for solutions and strategies designed especially for Africa. We request, therefore, that the staff of S/T Water and the staff of WASH project prepare a Water and Sanitation and Health Strategy Paper which is consistent with the umbrella strategy paper developed by this office. A draft of our strategy paper will be available for discussion on March 1, 1982.

Please feel free to call upon us for further discussion and elaboration on this request.

*Dan Okun approved to do work  
5 March 82*

*Received ST/HEA (Wehman) 2-24-82  
Passed to WASH 2-24-82*

*Open a c-task & operate on this until we find out the real scope of work involved. An OTD will probably be issued at a later date on this effort depending on scope*

*VWW 2-24-82*

WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 107  
AMENDMENT No. 1  
November 02, 1982

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

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

SUBJECT: Provision of Technical Assistance Under WASH Project Scope of  
Work for AFR/TR/IN - Regarding Development of Inter-sectoral  
Water Supply and Sanitation Operational Strategy Consistent  
with Africa Bureau Health Strategy.

REFERENCE: A) OTD #107, dated 26 July 1982

1. Para. 2 of subject OTD #107 (Ref. A) is cancelled. New para. 2 of subject OTD #107 is now to read as follows:

"2. WASH contractor/subcontractor/consultants authorized to expend up to 40 person days of effort over a eight (8) month period to accomplish this technical assistance effort."

2. Para. 3 of subject OTD #107 (Ref. A) is cancelled. New para. 2 of subject OTD #107 is now to read as follows:

"3. Contractor authorized up to 34 person days of domestic per diem to accomplish this effort."

3. Para. 5 of subject OTD #101 (Ref. A) is cancelled. New para. 5 of subject OTD #101 is now to read as follows:

"5. Contractor to provide up to five (5) domestic U.S. round trips from consultants' home base to Washington, D.C. and return to home base of consultant during life of this OTD."

4. Nothing follows.

(

WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 107  
AMENDMENT NO. 2  
23 January 1983

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

FROM: Mr. Victor W.R. Wehman Jr., F.E., R.S.  
AID WASH Project Manager  
AID/S&T/H/WS

SUBJECT: Provision of Technical Assistance Under WASH Project  
Scope of Work for AFR/TR/HN---Regarding Development  
of Inter-sectoral Water Supply and Sanitation Operational  
Strategy Consistent with Africa Bureau Health Strategy

REFERENCE: A) OTD # 107, dated 26 July 1982

1. Para 2 of subject OTD # 107 (Ref A) is cancelled. New para 2 of subject OTD # 107 (Ref A) is now to read as follows:

"2. WASH contractor/subcontractor/consultants authorized to expend up to 65 person days of effort over an twelve (12) month period to accomplish this technical assistance effort."

2. Para 3 of subject OTD # 107 (Ref A) is cancelled. New para 3 of subject OTD # 107 (Ref A) is now to read as follows:

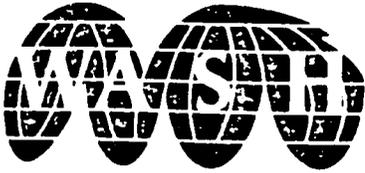
"3. Contractor authorized up to 53 person days of domestic and/or international per diem to accomplish this effort."

3.. Para 5 of subject OTD # 107 (Ref A) is cancelled. New para 5 of subject OTD # 107 (Ref A) is now to read as follows:

"5. Contractor to provide up to eight (8) domestic U.S. round trips from consultants home to Washington D.C. and return to home base of consultant. Contractor authorized three (3) international round trips from consultants home base to Washington D.C. and return to consultants home base for purpose of conferring with native Africans regarding implementation/planning aspects of the water and sanitation strategy."

4. Nothing follows.

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OTD #108

August 16, 1982

Training Assistance to the Assistant  
Sanitary Technician Schools - Cameroon

AID/Cameroon requested WASH training assistance for the Assistant Sanitary Technician Training Schools at Limbe and at Yaounde. Three consultants are required: one French speaking trainer of trainers for Yaounde, an English speaking trainer of trainers for Limbe, and an English speaking sanitarian also for Limbe. The scope of work for Limbe includes preparation of a technician task analysis; preparation of course objectives, syllabi, and training materials; the design, development and introduction of a community participation component in existing training programs; and preparation of evaluation instruments. Also included for both schools is the planning, designing and conducting of ten day training-of-trainers workshop in French and English. For further information contact Mr. C. Hafner.

Up to one hundred forty person days of effort, one hundred twenty-five days of instructional/domestic per diem, and three international air round trips are authorized over a four month period. Local travel up to \$900, secretarial, graphics and reproduction services up to \$1400, and up to \$1600 for development/support/printing support for training materials are also authorized.

JEB/CIC  
8/19/82

195

Water and Sanitation for Health (WASH) Project  
Order of Technical Direction (OTD) Number 108  
August 16, 1982

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

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

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

References: A. Yaounde 6167  
B. Yaounde ~~5174~~ 5774  
C. Yaounde 6451  
D. Scope of Work for Assistance to Ministry of Public  
Health/United Republic of Cameroon

1. WASH contractor requested to provide technical assistance to USAID/Cameroon as per Ref. C, para. A.4-12, B.1., C.1-3. and Ref D para. 4.A-C.
2. WASH contractor/subcontractor/consultants authorized to expend up to 140 person days of effort over a four (4) month period to accomplish this technical assistance effort.
3. Contractor authorized up to 125 person days of international and/or domestic per diem to accomplish this effort.
4. Contractor to coordinate with AFR/TR/HNP (J. Shepperd), AFR/PD Officer for Project in Question, Cameroon Desk Officer, AFR/TR/Engr (J. Sneed) and should provide copies of this OTD along with periodic progress reports as requested by S&T/H/WS or Africa Bureau personnel.
5. Contractor authorized to provide up to three (3) international round trips from consultants home-base through Washington (for briefing) to Yaounde Cameroon to Washington D.C. (for debriefing) to consultants home base.
7. Contractor authorized local travel (ground or air) in Cameroon as necessary and appropriate to accomplish this technical assistance. Local Travel NTE \$900 without prior written approval of AID WASH Project Manager.
8. Contractor authorized to obtain secretarial, graphics or reproduction services in Cameroon as necessary to accomplish tasks NTE \$1400 without prior written approval of AID WASH Project Manager. These services are in addition to the level of effort specified in para. 2 and para. 3 above.

9. Contractor authorized to expend up to \$1600 for the training materials for the development or printing/development/support services associated with Ref C, para. A.4-12, para B.1., para C.1-3, and para D., 1-6.
10. Contractor authorized to provide for car or vehicles rental if necessary to facilitate effort. Mission is encouraged to provide Mission vehicles, if available and appropriate.
11. WASH contractor will adhere to normal established administrative and financial controls as established for WASH mechanism in WASH contract.
12. WASH contractor should definitely be prepared to administratively or technically backstop field consultants and subcontractors.
13. Contractor should develop and provide a draft copy of all reports after each phase of effort to USAID/Cameroon and thoroughly debrief USAID mission staff and/or GCC as appropriately defined by USAID/Cameroon staff. Final reports due to mission (one on French effort and one on English Effort) within 30 days of return of consultants back to U.S. from overseas..
14. Mission should be contacted immediately and technical assistance initiated before the end of August 1982 or as soon as convenient to USAID.
15. Contractor will adhere to new procedures regarding cost negotiation and justification of selection of subcontractors/consultants for this order of technical direction.
16. Appreciate your prompt attention to this matter. Good luck.

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C.  
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*McJenks*  
*Hyster*  
*Welman* *VW*

UNCLAS YAOUNDE 6167

AIDAC FORM AND T/HEA FOR WELMAN

E. O. 12356: SN/A

TAGS:

SUBJECT. WASH PROJECT ASSISTANCE TO CAMEROON

REF: YAOUNDE 8774

1. INFORM HAFNER OF WASH PROJECT THAT MINISTER OF HEALTH HAS SENT LETTER FORMALLY REQUESTING ASSISTANCE AS OUTLINED IN SCOPE OF WORK DEVELOPED DURING HAFNER VISIT FOR CONSULTANTS TO ARRIVE BEGINNING AUGUST 20. ADVISE NAMES, QUALIFICATIONS AND ETA'S.  
SHINN

Received ST/H (Welman) 8-5-82  
Passed to WASH 8-5-82

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Department of State

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UNCLAS YAOUNDE 5774

AIDAC

FOR: S&T/HEA

E. O. 12065: N/A

TAGS:

SUBJECT: WASH PROJECT ASSISTANCE TO CAMEROON

REF: A) YAOUNDE 5103 B) HAFNER/MARTIN TELCON OF 7/15/82

1. INFORM-HAFNER OF WASH PROJECT THAT DIRECTOR OF PREVENTIVE MEDICINE CONCURS WITH PROPOSED WORKPLAN AS DRAWN UP BY HAFNER AND NTUBA AND HAS PREPARED LETTER OF REQUEST. ALTHOUGH GURC BUREAUCRATIC PROCEDURES MAY DELAY RECEIPT OF FORMAL REQUEST, IT IS ALMOST CERTAIN PROPOSAL WILL BE ACCEPTED. WASH SHOULD THEREFORE PROCEED AS DISCUSSED DURING HAFNER VISIT. ADVISE NAMES, QUALIFICATIONS AND ETA'S OF CONSULTANTS.

2. REQUEST COORDINATION WITH INTRAH AT UNIV. OF NORTH CAROLINA RE PROPOSED COMMUNICATIONS SEMINAR FOR FACULTY OF NURSING/SANITATION AGENT SCHOOLS IN SEPTEMBER.  
SHINN

McTurkin  
Austin  
Webster

Received ST/H (Webster) 7-23-82  
Passed to WASH 7-23-82

Craig:  
For your return as you  
see fit [Signature]

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Department of State

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1. 7 DAYS REMAINING DECISION FOR FUTURE TOP D AND P. ALL REPORT
2. SPECIFIC SUBJECTS TO BE COVERED IN FINAL REPORT.
  1. ADULT LEARNING THEORY
  2. SETTING AND PREPARING TRAINING OBJECTIVES
  3. HOW TO MAKE CURRICULUM LESS THEORETICAL AND MORE PRACTICAL AND RELEVANT
  4. HOW TO PREPARE AND IMPLEMENT INNOVATIVE TEACHING TECHNIQUES
  5. HOW TO MAKE TRAINERS USE OF TECHNOLOGY
  6. HOW TO PLAN AND ORGANIZE FIELD TRAINING ACTIVITIES. OTHER

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FOR: S AND T/HEA WENMAN MID AFR/TR/44

E.O. 12958: 1/A  
TAGS: 1/A  
CLASS: WASH PROJECT ASSISTANCE TO CAMEROON

REF: YAGUON 0187

SCOPE OF WORK FOR MONUSCA'S REQUEST FOR WASH ASSISTANCE IS AS FOLLOWS:

4. ASSISTANCE FOR THE NEW SANITATION TRAINING SCHOOL AT LIMBE CAN BE DIVIDED INTO STAFF TRAINER AND INSTRUCTIONAL MATERIALS DEVELOPMENT CONSULTANT
  1. TO ADD STAFF TRAINER WHO AND HIS STAFF IN THE COURSE AND MATERIALS DEVELOPMENT AND STAFF TRAINING FOR THE NEW ASSISTANT HEALTH TECHNICIAN TRAINING CENTER IN LIMBE FORMERLY VICTORIA IN SOUTHWEST PROVINCE, CAMEROON.
  2. TO ARRIVE ON OR ABOUT AUGUST 20 FOR, IDEALLY, 3 MONTHS BUT NO LESS THAN 6 WEEKS
  3. THE SCOPE OF WORK OF THE CONSULTANT WOULD BE THE FOLLOWING:
    4. ASSESSMENT OF THE PRESENT JOB REQUIREMENTS AND TASKS OF SANITATION TECHNICIANS AND AGENTS
    5. REVISE AND CLARIFY TRAINING OBJECTIVES AS A RESULT OF THE TASK ANALYSIS AND STAFF TRAINING
    6. PLAN, DESIGN AND CONDUCT TRAINING OF TRAINERS WORKSHOP FOR THE STAFF OF THE NEW SCHOOL, IN ENGLISH, IN LIMBE. THE DESIGN TO CORRESPOND TO TRAINING OF TRAINER WORKSHOP TO BE HELD IN YAGUON
    7. FOLLOW UP CRITIQUE OF STAFF TEACHING IN SCHOOL.
    8. DEVELOPMENT OF INSTRUCTIONAL MATERIALS WITH TEACHING STAFF DEVELOP REVISED TRAINING MATERIALS FOR EACH SUBJECT THAT REFLECTS THE TASK ANALYSIS.
    9. DESIGN AND IMPLEMENT NEW COMPONENTS FOR COMMUNITY PARTICIPATION AND TRAINING OF TRAINERS AS ADDITIONS TO THE COURSE SYLLABUS. THE SPECIFIC END PRODUCTS OF THE CONSULTANCY WILL BE:
      10. A REVISED, PRACTICAL INSTRUCTIONAL COURSE DESIGN AND MATERIALS FOR SANITATION TECHNICIANS AND AGENTS.
      11. COMMUNITY PARTICIPATION AND TRAINING OF TRAINERS COMPONENTS ADDED TO THE SYLLABUS FOR SANITATION TECHNICIANS.
      12. SIX CAMEROONIAN SANITATION TRAINING STAFF TRAINED IN TRAINING METHODS.
      13. REFRESHER COURSE ON TRAINING APPROACHES FRENCH SPEAKING TRAINER OF TRAINERS (TOT)
  1. TO DESIGN AND CONDUCT TOT IN FRENCH IN YAGUON FOR 18-25 SANITATION INSTRUCTORS AT THE MON'S SANITATION TECHNICIAN TRAINING SCHOOL AND SCHOOL OF NURSING.
  2. ASSIGNMENT FOR APPROXIMATELY 4-5 WEEKS INCLUDING:
    1. 14 DAYS IN YAGUON, AUGUST 20 - SEPT 4 FOR INTERVIEW WITH PARTICIPANTS, DESIGN AND PREPARATION.
    2. 19 DAYS CONDUCTING WORKSHOP AT SANITATION TRAINING SCHOOL IN YAGUON.

to WASH 16 Aug 82 JAG

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SCOPE OF WORK  
FCR  
ASSISTANCE TO MINISTRY OF PUBLIC HEALTH  
UNITED REPUBLIC OF CAMEROON

1, PROJECT OBJECTIVES

The objectives of this project are:

1. to assist the staff of the new Assistant Sanitary Technician Training Center at Limbe to learn and implement systematic procedures for the development, implementation and evaluation of training (to be done in English), and to revise the present curriculum
2. to assist the staff of the Assistant Sanitary Technicians Training School and school of Nursing in Yaounde with the development and implementation of a training of trainers program (to be in French)

2 PROJECT OUTPUTS

The outputs of this project will be:

A. Limbe Center (in English)

1. Complete a Task analysis of Assistant Sanitary Technicians
2. Complete set of course objectives and the syllabus (either revising old ones or developing new ones) based on the above task analyses
3. Complete design and implement a training of trainers workshop for Faculty at the Limbe Center of the above course
4. Evaluation instruments for evaluation, trainees, trainers, and all staff of the training center
5. Sample training materials and/or procedures for each major type of training approach as determined by the objectives set in 2 above
6. Complete a community participation component to be included in the training curriculum along with the existing components

B. Yaounde Center (in French)

1. Complete design of a training of trainers program, trainee workbook
2. Copies of all training materials used in conjunction with course
3. Copies of all session by session outlines

### 3. PURPOSE OF PROJECT

#### A. Limbe Center

The government of Cameroon has recently established a new assistant sanitary technician training center in Limbe (formerly Victoria) for English speaking Cameroon. Most of the proposed staff of the new school have had limited exposure to training methods, curriculum design, writing training objectives and performance based instruction. The proposed syllabus of the new center has little practical and field training activities.

The Government of Cameroon has requested USAID/Cameroon to provide assistance to the new center for staff development and training and curriculum revision to include practical field exercises and projects.

#### B. Yaounde Center

The Government of Cameroon has requested USAID/Cameroon to provide a trainer of trainers for the Yaounde French speaking assistant sanitary technician training center to up-grade the training skills fo the existing full and part-time staff.

### PROPOSED PROJECT

To carry out the above Limbe and Yaounde training projects, it is proposed that WASH provide 3 consultants: one French speaking trainer of trainers for Yaounde, and two English speaking consultants (one trainer and one sanitarian) for the Limbe project. The two training consultants will work closely together in order to insure similar workshop designs.

The specific tasks for the Limbe Sanitarian consultant will be to:

- carry out a task analysis for the assistant sanitary technician in SW Cameroon - Aug 25-Sept 10
- assist in the revision of the training objectives to more clearly match the task analysis for the technicians - Sept 10-15
- assist in the revision of the course design and materials to allow for practical field training exercises and activities - Sept 15-30

- travel to Yaounde at the completion of the Limbe assignment and brief Ministry of Health and AID officials - Oct 2-4

B. The specific tasks for the Limbe training consultant will be to:

- work closely with the WASH Yaounde training consultant to insure similar design and subjects in the training of trainers workshop. Subjects to be covered include: adult learning theory, writing and preparing training objectives, how to plan and organize field training activities given limited resources; how to prepare and implement innovative teaching techniques; others. - Aug 24-26, 1982
- plan, design and conduct a 10 day training of trainers workshop for English speaking staff in Limbe. - Aug 27-Sept 17
- with staff at Limbe, develop revised training objectives that more closely match the task analysis (coordinated by the WASH sanitarian consultant) - Sept 10-17
- design, develop and introduce a new training component on community participation and training of trainers as additions to the course syllabus. - Sept 15-25
- provide follow-up critiques of staff teaching in school. Sept 15-30
- travel to Yaounde at the completion of the Limbe assignment and brief the Ministry of Health and AID officials. - Oct 2-4

C. The specific tasks for the Yaounde training consultant will be to:

- work closely with the WASH Limbe training consultant to insure similar design and subjects in the training of trainers workshop. Subjects to be covered include: adult learning theory, writing and preparing training objectives, how to plan and organize field training activities given limited resources; how to prepare and implement innovative teaching techniques; others. - Aug 24-26
- interview the full-time staff of Yaounde Assistant Sanitary Technicians School. - Aug 22-27
- plan, design and conduct a ten day training of trainers (TOT) workshop for French speaking staff. - Aug 27-Sept 17
- train at least one of the school staff as an assistant in the TOT. - Aug 27-Sept 3
- work closely with the USAID consultant trainers from INTRA who will be conducting a TOT in late September for Ministry of Public Health teaching staff. - Sept 10-17
- prepare a TOT design report for Assistant Sanitary Technician Director. - Sept 15-18



OTD #116

September 15, 1982

Technical Assistance in Training Social Promotion Agents in  
Spring Capping and Rainwater Harvesting - Togo

USAID/Togo requested WASH assistance in the training of Social Promotions Agents in village level water supply and sanitation system design and construction as part of on-going AID funded projects. The technical and training instruction given to these agents is to prepare them to assist village populations in developing local springs and rainwater harvesting systems. Field construction is to be included in the training program.

The Training-of-Trainers training plan will address preparations, coordination, training sequence, agenda, types of performance demonstrations in the field, and identify controls to insure that the training materials/methodology used for these efforts with the Togo trainees will result in a package of field tested materials and methodology that can be translated and applied in many other country/geographic situations. For further information, contact Dr. R. Isely.

Up to one hundred and five days of person effort, ninety five days of international/domestic per diem and three international air round trips are authorized over a four month period. Local travel up to \$1,200 and up to \$3,200 for developing, testing and printing training materials and purchasing material are also authorized.

JEB/CIC  
9/20/82

Water and Sanitation for Health (WASH) Project System & Service, Inc.  
Order of Technical Director (OTD) Number 116 WASH PROJECT  
September 15, 1982

SEP 15 1982

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

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

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

REFERENCES: A) Lome 3186, dated 4 June 1982  
B) WASH Project Interim Report No. 1 (June 1982) for  
WASH/TOGO OTD No. 91  
C) WASH Telex No. 286, dated 30 July 82  
D) Lome 4560, dated 6 Aug 82  
E) Discussions between Isely and Hafner (WASH)/Isely and  
AGMA Prins (USAID/Togo) and V. Wehman (S&T/H/WS)

1. WASH contractor requested to provide technical assistance to USAID/Togo as per Ref A, para 2 and Ref D., para 1.
2. WASH contractor/subcontractor/consultants authorized to expend up to 105 person days of effort over a four (4) month period to accomplish this technical assistance effort.
3. Contractor authorized to expend up to 95 person days of international and/or domestic per diem to accomplish this effort.
4. Contractor to coordinate with USAID/Togo (Ms. Prins), Togo Desk Officer, AFR/TR/HNP (J. Shepperd), AFR/TR/ENGR (J. Snead), Togo Rural Water Supply and Sanitation Project Officer in AFR/PD/ and should provide copies of this OTD along with periodic progress reports as requested by S&T/H and AFR Bureau staff.
5. Contractor authorized to provide up to three (3) international round trips from consultants home base through Washington to Togo and return to consultants home base through Washington D.C. during life of this OTD.
6. Contractor authorized local travel within Togo as appropriate and necessary to carry out this technical assistance effort NTE \$1200 without the prior written approval of the AID WASH Project Manager.
7. Contractor authorized to obtain local secretarial, graphics or reproduction services in Togo as necessary to accomplish tasks. These services are in addition to the level of effort specified in para 2 and 3 above.
8. Contractor authorized to expend up to \$3,200 for the development, testing, and printing of the training materials for the spring capping, rainwater harvesting training sessions and any field materials (concrete, lamina, wood, plastics, etc.) needed for practical performance testing. Contractor authorized to conduct actual hands on rainwater harvesting/spring capping field demonstrations involving construction of actual physical field installations. *W*

9. Contractor authorized to provide for car/vehicle rental if necessary and appropriate for the effort. Mission is encouraged to provide mission vehicles and local logistics support if available.
10. Contractor authorized to install and train locals in the installation, operation and maintenance and training techniques of rainwater harvesting/spring capping systems at sites agreeable to and with the approval of the AID mission liaison officer (Ms. Prins)
11. WASH contractor will adhere to normal established administrative and financial controls as established for WASH mechanism in WASH contract.
12. WASH contractor should definitely be prepared to administratively or technically backstop field consultants and subcontractors.
13. New procedures regarding subcontractor cost estimates and subcontractor/consultant justifications remain in effect.
14. Contractor to develop a detailed training plan for effort to be approved by S&T/H/WS (Dr. John Austin) before consultants are to travel to Togo. Training plan should address preparations, coordination, training sequence, agenda, types of performance demonstrations in the field, and identify controls to insure that the training materials/methodology used for these efforts with the Togo trainees will result in a package of field tested materials and methodology that can be translated and applied in many other country/geographic situations. Contractor to leave a draft report with the mission before leaving the country. Final report due to S&T/H/WS within 30 days of consultant debriefing in Washington D.C.
15. Mission should be contacted immediately and technical assistance initiated as soon as convenient with mission.
16. Appreciate your prompt attention to this matter. Good luck.

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PAGE 01  
ACTION AID-35

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AIDAC

FOR ST/HEA PLS PASS WASH

E. O. 12065: N/A  
SUBJECT: TOGO RURAL WATER 693-0210 WASH ASSISTANCE

REF: LOME 02555

1. THE GOT MINISTRY OF SOCIAL AFFAIRS AND USAID WISH TO THANK WASH FOR VERY CAPABLE AND HELPFUL ASSISTANCE GIVEN TO TOGO RURAL WATER PROJECT BY DR. ISELY. ESPECIALLY APPRECIATED WERE HIS SUGGESTIONS FOR DEVELOPMENT OF ALTERNATE WATER SOURCES IN VILLAGES WHERE PROJECT WELLS WERE UNSUCCESSFUL, HIS REVISIONS OF THE MEDICAL QUESTIONNAIRES AND HIS INSIGHTS INTO ADAPTATION OF PROJECT ACTIVITIES TO THE NORTHERN SAVANNAH REGION.

2. MR. TCHA-TOKEY, THE GOT NATIONAL PROJECT COORDINATOR AND MR. BOULI, DIRECTEUR-GENERAL OF SOCIAL AFFAIRS, WISH TO EXPRESS THEIR HOPE THAT WASH WILL CONTINUE TO OFFER THEIR HIGHLY VALUED ASSISTANCE TO THIS PROJECT WHICH CONSTITUTES ONE OF THE MAJOR DEVELOPMENT EFFORTS IN TOGO. SPECIFICALLY, WASH ASSISTANCE IS REQUESTED IN THE TECHNICAL TRAINING OF SOCIAL AFFAIRS AGENTS TO ENABLE THEM TO ASSIST VILLAGE POPULATIONS TO DEVELOP LOCAL SPRINGS, HAND-DUG WELLS AND RAINWATER HARVESTING SYSTEMS AS WELL AS TO DESIGN AND CONSTRUCT LOCALLY APPROPRIATE LATRINES. ALSO, GOT WOULD LIKE TO SEE DR. ISELY RETURN TO TOGO IN 6 TO 9 MONTHS TO ASSIST WITH MID-TERM, IN-HOUSE, PROJECT EVALUATION. DR. ISELY'S WILLINGNESS TO TRAVEL EXTENSIVELY IN THE FIELD, HIS SENSITIVITY TO LOCAL PROBLEMS, HIS TACT IN INTERVIEWING PEOPLE OF ALL LEVELS AND HIS ABILITY TO SYNTHESIZE INFORMATION INTO EASILY UNDERSTOOD CONCRETE SUGGESTIONS WERE ESPECIALLY APPRECIATED.

3. CORRECTION FOR ISELY REPORT: PAGE 4 (HAND-WRITTEN DRAFT) NO 2.1, "190 VILLAGES, 250 SUCCESSFUL WELLS, 335 DRILLINGS"; PG. 7, NO 2.2, "CRITERIA FOR SELECTION INCLUDED POP. SIZE, MINIMUM 250, MAX 1500"; PG. 8, NO 2.2, "29 PERCENT CONTACTED VILLAGES WERE ELIMINATED, 13 VILLAGES WERE EVENTUALLY ABANDONNED IN FOUR DISTRICTS, LIST FOR THE FIFTH DISTRICT IS YET TO BE RECEIVED." PG. 9, NO 2.2, "SO FAR 24 OUT OF 129 DRILLED VILLAGES ARE NEGATIVE." PG. 12, NO 3.1.1, "31 OUT OF 65 DRILLINGS WERE NEGATIVE"; PG. 13, NO 3.1.1, "24 DRY VILLAGES"; PG. 39, NO 3.4.2, "TWO NORTHERN PREFECTURES OF TONE AND OTI"; PG. 55, NO 4.0, "TWO AMERICAN ADVISORS AT 15 MOS. EA." ALSO PLEASE EMPHASIZE THE IMPORTANCE OF RESPECTING POPULATION CRITERIA IN VILLAGE SITE SELECTION: PUMP OUTPUT IS ESTIMATED AT 1000 LITERS/HR. AT 10 HRS CONTINUOUS USAGE AND 30 LITERS/PERSON THAT MEANS THAT ONE PUMP CAN SERVE NO MORE THAN 350 PEOPLE. WALKER

NOT PASSED BY AID/W-MO/TEL. 6/4/82.

*Received ST/H (Walker) 6-7-82  
Passed to WASH 6-7-82*

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WASHAID 64552

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5264 TOGTEL TO  
30 JUL 1982 13:08 004

9865264+

OUR TLX NR. 286

ATT. Mlle. DIDI TOULON - HOTEL BENIN, TOGO

MERCI DE TRANSMETTRE CE MESSAGE A MS. AGMA PI  
MISSION.

ATT: AGMA PRINS

FROM: R.B. ISELY

CONSULTANT EXPERIENCED TRAINING IN SPRING-CA  
LIKELY TO BE IN AFRICA IN PERIOD SEPTEMBER-0  
PLEASE ADVISE IF HE COULD BE USEFUL IN TECHNI  
OF SOCIAL PROMOTION AGENTS AND CHEFS DE SECTE  
EGARDS.

International Telex



International, Inc.  
J3  
5264 TOGTEL TO.....  
001.8 MIN

203

ACTION COPY TO GO Department of State

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INCOMING TELEGRAM

PAGE 01 LOME 04560 061358Z

1708 010586 AID1470

ACTION OFFICE STHE-01  
INFO AFCW-03 AFOP-06 STAG-02 SAST-01 ENGR-02 IT-06 AFDA-01  
RELO-01 MAST-01 7024 706

INFO OCT-30 INR-10 AF-00 ER-02 AMAD-01 /064 W  
073027 0614222 /38

R 061316Z AUG 82  
FM AMEMBASSY LOME  
TO SECSTATE WASHDC 5703

UNCLAS LOME 04560

AIDAC

AID/W FOR ST/HEA PASS DR. ISELY, WASH

E. O. 12356: N/A  
SUBJECT: TOGO RURAL WATER (693-C210)

REF: 5264 TOGTEL TO DATED 30 JULY 82

1. OCTOBER WOULD BE A GOOD TIME TO DO TECHNICAL TRAINING OF SOCIAL AFFAIRS AGENTS FOR SPRING-CAPTATION AND RAIN WATER HARVESTING SINCE MICRO-PROJECT PLANNING IS TO START IN VILLAGES EARLY SEPTEMBER. IS IT POSSIBLE TO HAVE TWO SEPERATE TRAININGS FOR SAVANNA AND PLATEAUX BACK TO BACK? SAVANNA TRAINING COULD WAIT, IF NECESSARY. PROJECT STAFF WOULD NEED THE FOLLOWING INFO TO HELP ORGANIZE TRAINING IN TOGO: 1) PROPOSED DURATION OF TRAINING, 2) MAXIMUM NUMBER OF PARTICIPANTS, 3) MATERIALS NEEDED, 4) APPROX. TRAINING OUTLINE/SCHEDULE.

2. PROJECT IS BACK ON SCHEDULE. T. O. T. TRAINING WENT VERY WELL. TRAINING OF VILLAGE HEALTH COMMITTEES IS HALF DONE, TO BE FINISHED BY END OF AUGUST. SAVANNA AGENTS WERE INTRODUCED TO PROJECT BY PLATEAUX-AGENT-TRAINERS, JULY 26 - 30. FIRST SAVANNA TRAINING CYCLE SCHEDULED FOR SEPT 1-14. BASELINE RESEARCH IS COMPLETE FOR PLATEAUX REGION AND TOGOLESE COUNTERPART IS BEING TRAINED. TECHIICAL MEETING TO DECIDE ON LATRINE PLAN IS SCHEDULED FOR AUG 12. DR. ISELY'S REPORT WAS RECEIVED BUT GOT IS ANXIOUSLY AWAITING FRENCH VERSION. WASH ASSISTANCE HAS BEEN VERY HELPFULL AND IS MUCH APPRECIATED. WALKER

TOGO

ST/H  
McJunk  
Austin  
Wichman  
Vick

Dir.  
ISELY

Received ST/H (Wichman) 8-9-82  
Passed to WASH. 8-9-82

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209



OTD #118

September 25, 1982

Technical Assistance in Assessing and Planning Care Water Supply  
and Sanitation Projects - Cameroon

USAID/Cameroon requested WASH assistance in assessing and planning the CARE 1983-1987 Development Plan which is in preparation. The scope of work has two major tasks. The first is to assess the current status of CARE-managed water supply and sanitation (WS&S) programs in the Northern and Eastern Regions. Research and data gathering from files, and from Ministry and CARE personnel will provide the basis for a 1982 report of the CARE WS&S Program. The second task is to assist CARE to make reasonable and feasible projections of WS&S activities for the next five years. Sub-tasks here include the development of practical targets and reasonable "indicators" against which to measure progress, and to prepare a draft of relevant sections of CARE's multi-year plan. For further information, contact Mr. C. Hafner.

Up to fifty-six person days of effort, fifty-two days of international/domestic per diem, and two international air round trips for two consultants over a four month period are authorized. Local travel not to exceed \$1300 and local secretarial, graphic and reproduction services not to exceed \$1600 are also authorized.

JEB/CIC  
10/29/82

Water and Sanitation for Health (WASH) Project  
Order of Technical Direction (OTD) Number 118  
September 25, 1982

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

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

SUBJECT: Provision of Technical Assistance Under WASH Project Scope of Work  
for USAID/Camerouns and CARE/Camerouns

REFERENCE: A) Yaounde 6838, dated 27 August 1982  
B) State 255704, dated 11 Sept 1982  
C) Memorandum Isely (WASH)/Wehman (S&T/H/WS) dated 8 Sept 82

1. WASH contractor requested to provide technical assistance to USAID/Camerouns and CARE/Camerouns as per Ref. A, para 1-4. (Scope of Work and timing revised)
2. WASH contractor/subcontractor/consultants authorized to expend up to 56 person days of effort over a 4 month period to accomplish this technical assistance effort.
3. Contractor authorized up to 52 person days of international/domestic per diem to accomplish this effort.
4. Contractor to coordinate with AFR/TR/HNP (J. Shepperd), AFR/TR/ENGR (J.. Snead), Camerouns Desk Officer , USAID/Camerouns (R. Martin), and CARE/Camerouns staff and should provide copies of this OTD along with periodic progress reports as requested by S&T/H and/or AFR EUR staff.
5. Contractor authorized to provide up to two (2) international round trips from consultants home base through Washington DC (for briefing) to Yaounde, Camerouns and return to Washington, D.C. to consultants home base during life of this OTD.
6. Contractor authorized to initiate local travel within Camerouns to view and review CARE field program at selected sites representative of CARE efforts in water and sanitation in the Camerouns. Local travel NTE \$1300 without the written approval of the AID WASH Project Manager.
7. Contractor authorized to obtain local secretarial, graphics, reproduction, interpreter or miscellaneous professional services in Camerouns as necessary and appropriate to accomplish tasks. These services are in addition to and above the level of effort specified in para 2 and 3 above NTE \$1600 without the prior written approval of the AID WASH Project Manager.
8. Contractor authorized to provide for car/vehicle rental if necessary and appropriate to facilitate effort. Mission and CARE encouraged to support vehicle logistics needs of technical assistance team and provide vehicles support if available and appropriate.

9. WASH contractor will adhere to normal established administrative and financial controls as established for WASH mechanism in WASH contract.
10. WASH contractor should definitely be prepared to administratively or technically backstop field consultants and subcontractors.
11. Contractor to provide an overall final draft coordinated report to CARE/Camerouns and USAID/Camerouns (Health Office) before consultants leave Camerouns. Contractor to provide USAID with final report within 30 days of return of consultants to the U.S
12. New procedures regarding subcontractor cost estimates and justification of subcontractor and consultants remains in effect.
13. Contractor shall secure a senior sanitary/environmental engineer and a senior public health/programming specialist for the two consultants to be sent. French capability for the public health/programming specialist is especially important.
14. USAID/Camerouns and CARE/Camerouns should be contacted immediately and technical assistance initiated as soon as convenient to USAID and CARE.
15. Appreciate your prompt attention to this matter. Good luck.

ACTION  
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PAGE 01 YAOUNDE 05636 280956Z 5059 026223 A109451

YAOUNDE 05038 280956Z 5059 026223 A11

ACTION AID-00

EASTERN AND NORTHERN PROVINCES, AS IT RELATES TO BACKGROUND RESEARCH, THE GATHERING OF REQUIRED STATISTICAL DATA, AND THE EVALUATION OF ACTIVITIES IN THESE AREAS TO DATE, WITH A VIEW TO HELPING ESTABLISH NEW PROGRAMING GOALS AND ACTIVITIES FOR THE UPCOMING FIVE YEARS.

ACTION OFFICE STHF-01  
INFO ARAF-02 AFDF-06 AFCA-03 FVA-02 PPCE-01 POPF-01 PPRE-03  
CMGT-02 STAG-02 EAST-01 HNS-09 PVC-02 AFCA-01 RELO-01  
MAST-01 /C3E A4 230

INFO OCT-00 COPY-01 /036 V

4. CARE IS INVOLVED IN VARIOUS WATER PROJECTS IN CAMEROON, ONE OF THEM AID FUNDED. MISSION ENDORSES REQUEST FOR CONSULTANT. REQUEST NAME, QUALIFICATIONS, AND ETA OF CONSULTANT ASAP FOR CLEARANCE BY MISSION AND CARE.  
SHINN

-----171207 281029Z /10

R 271530Z AUG 82  
FM AMEMBASSY YAOUNDE  
TO SECSTATE WASHDC 6363

UNCLAS YAOUNDE 6636

AIDAC

FOR ST/HEA WEHMAN

E.O. 12356: N/A

TAGS:

SUBJ: CARE/CAMEROON REQUEST FOR WASH CONSULTANT

McJunkin  
Austin  
Wehman *WW*

1. FOLLOWING CRAIG HAFNER CONSULTATION WITH CARE DURING JUNE VISIT, CARE HAS REQUESTED USAID YDE THAT A WASH CONSULTANT BE MADE AVAILABLE FOR 30 WORKING DAYS TO ASSIST IN DEVELOPING WATER PROJECT ASPECTS OF CARE'S 1983-87 DEVELOPMENT PLAN, NOW BEING PREPARED. CONSULTANT'S DESIRED NLT OCTOBER 15. ASSIGNMENT WILL INVOLVE APPROXIMATELY THREE WEEKS IN YAOUNDE AND ONE WEEK EACH IN NORTHERN AND EASTERN PROVINCES.

2. QUALIFICATIONS INCLUDE: A) THE CONSULTANT SHOULD HAVE A FULL WORKING KNOWLEDGE OF FRENCH, SPOKEN AND WRITTEN, B) EXPERIENCE IN THE FIELD OF AFRICAN WATER SYSTEMS, WELLS AND SPRINGS, C) STUDENTS IN SOCIOLOGY OR CULTURAL ANTHROPOLOGY PREFERRED, D) BACKGROUND IN THE DELIVERY OF SERVICES TO RURAL COMMUNITIES IN THE LDC'S AN ACCET, E) EXPERIENCE AND ABILITY IN RESEARCHING AND GATHERING BACKGROUND STATISTICS AND DATA, F) EXPERIENCE AND ABILITY IN ASSEMBLING STATISTICS AND DATA IN THE FORM OF WRITTEN BACKGROUND SECTIONS FOR PROJECT DOCUMENTS.

3. TASK RESPONSIBILITIES ARE: A) RESEARCH AND GATHER STATISTICAL DATA AS REQUIRED TO UPDATE BACKGROUND DATA SECTIONS OF THE 1979 CARE MULTI-YEAR PLAN (MYP). B) RESEARCH AND GATHER STATISTICAL AND OTHER DATA, FROM SUCH SOURCES AS THE MINISTRY OF HEALTH, MINISTRY OF AGRICULTURE, COMMUNITY DEVELOPMENT DEPARTMENT, DEPARTMENT OF RURAL ENGINEERING, MINISTRY OF PLAN, ETC., AS REQUIRED TO ESTABLISH BASE LINE DATA FOR CARE WATER AND HEALTH EDUCATION PROJECT DOCUMENTS. C) RESEARCH AND GATHER STATISTICAL AND OTHER DATA ON EXISTING CARE PROJECTS WITH A VIEW TO HELPING DEVELOP REALISTIC PROJECT PLANS FOR THE NEW MYP. D) ASSIST CARE CAMEROON IN THE DEVELOPMENT OF REASONABLE AND PRACTICAL PROJECT TARGETS AND DIRECTIONS DURING THE NEW FIVE YEAR PLAN (MYP). E) ASSIST CARE CAMEROON IN THE DEVELOPMENT OF REASONABLE AND PRACTICAL "INDICATORS" AGAINST WHICH TO MEASURE ITS PROJECT ACTIVITIES IN THE AREA OF WATER AND HEALTH EDUCATION. F) PREPARE A DRAFT OF THOSE SECTIONS OF THE CARE MYP WHICH RELATE TO THE ABOVE NOTED TASKS. G) UNDERTAKE AND CARRY OUT THE ABOVE NOTED TASKS AT THE APPROPRIATE LEVELS, NATIONAL, PROVINCIAL AND LOCAL. H) IN GENERAL, THE CONSULTANT WILL ASSIST IN PREPARING THOSE PARTS OF CARE CAMEROON'S NEW MYP PERTAINING TO WATER AND HEALTH EDUCATION PROJECTS IN THE

Received ST/H (Wehman) 8-31-82  
Passed to WASH 8-31-82

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OUTGOING TELEGRAM

PAGE 01 STATE 255704

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ORIGIN OFFICE STHE-21  
INFO AFDR-02 AFCA-03 EAST-01 ENGR-02 AFDA-01 RELO-01 MAST-01  
7M-00 218 AC

INFO OCT-00 AF-00 /045 R

DRAFTED BY AID/ST/H/WS, V WEHMAN  
APPROVED BY AID/ST/H, C A PEASE  
AID/AFR/CA, W PAULNER (PHONE)  
AID/AFR/TR/HNP, J SHEPHERD (INFO)  
AID/AFR/TR/ENGR, J SNEAD (INFO)

R 110518Z SEP 82  
FM SECSTATE WASHDC  
TO AMEMBASSY YAOUNDE

UNCLAS STATE 255704

AIDAC PASS TO CARE

E O 12356: N/A

TAGS:

SUBJECT CARE/CAMEROON REQUEST FOR WASH CONSULTANT  
SULTANT

REF. A) YAOUNDE 6838, 27 AUG 82

1. ST/H/WS PLEASED WITH INTEREST BY USAID-CARE/YAOUNDE  
IN WASH PROJECT PLANNING/PROGRAMMING TECHNICAL ASSISTANCE  
IN WATER SUPPLY AND SANITATION.

2. ST/H/WS (WEHMAN) AND WASH STAFF HAVE REVIEWED SCOPE  
OF WORK AND QUALIFICATIONS FOUND IN PARA. 2-3 OF REF. A  
AND FIND DISPARITY WITH TIME ESTIMATES IN PARA. 1 OF REF.  
A. WE HAVE DISCUSSED THIS WITH R. MARTIN O RECENT TDY  
AND ARE PRESENTLY ANALYZING SCOPE MORE CLOSELY TO PROVIDE  
MISSION WITH ST/H/WS RECOMMENDATIO ON TIME REQUIREMENTS  
AND NUMBER OF CONSULTANTS NEEDED TO ACCOMPLISH WORK  
SPECIFIED. WASH CONTRACTOR WILL CALL CARE DIRECTOR TO  
CLEAR UP SCOPE AND TIME REQUIREMENTS.

3. WILL REPLY SUBSTANTIVELY IN LATER CABLE ASAP. SHULTZ

McJunkin  
Austin

Wehman

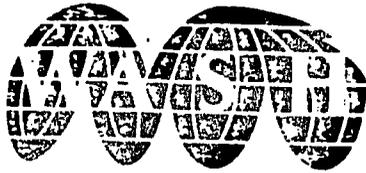
WASH  
Proj.  
Dir.

Received ST/H (Wehman) 9-24-82

Passed to WASH 9-24-82

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MEMORANDUM

TO: Victor Wehman  
FROM: R.B. [Signature]  
RE: Request from CARE/Cameroon, Reftel Yaoundé 6383  
DATE: September 8, 1982

In the cable a number of subsidiary tasks are detailed, but the overall task appears to be two-fold.

1. Assess the current status of CARE-managed WS&S programs in the Northern and Eastern Regions. This objective would be addressed through several subtasks taken from the cable:
  - a. Research and data gathering from CARE files on WS&S projects (Cable task A)
  - b. Research and data gathering from relevant Ministries of information related to CARE WS&S projects (Cable task B)
  - c. Research and data gathering from existing CARE WS&S projects (Cable task C)

The output of this set of tasks will be a 1982 status report of the CARE WS&S Program. This product will feed directly into the second task.

2. Assist CARE/Cameroon to make reasonable and feasible projections of water supply and sanitation activities for the next five years. Subsidiary tasks include:
  - a. Assist in the development of reasonable and practical targets (goals) (Cable task D)
  - b. Assist in the development of reasonable "indicators" against which to measure progress (Cable task E)
  - c. Prepare a draft of relevant sections of the mult-year plan (Cable task F)

The output of this task is the final product.



MEMO to Victor Wehman  
RE: Care/Cameroon  
September 8, 1982

The two major tasks could be carried on simultaneously, although it would be preferable to begin the first task about two weeks in advance.

The time for each subtask is estimated as follows:

Task or Subtask	Estimated Person-days
Task 1	
Subtask a	5
Subtask b	10
Subtask c	10
Subtotal 25	
Task 2	
Subtask a	3
Subtask b	3
Subtask c	8
Subtotal 14	
TOTAL	39 Person-days

It would be preferable to send a two person team. Person A should be a person with information-gathering skills related to WS&S project planning. This person would perform subtasks 1a and b alone and assist person B in performing subtasks 1c and 2a through c. Person B should be a senior policy analyst/planner. That person would have responsibility for the whole task as well as the specifics of 2a through c.

WASH proposes as person A a junior level individual with S3R3 French and research skills. For person B, John Tomaro of RTI is proposed.

Person A could go to Cameroon around the 15th of October as requested by the Mission and Tomaro could follow around the 28th or as soon as he is available.

I think we are ready for an OTD. Please let me have your reactions.

## SCOPE OF WORK

CARE:CAMEROON-T-118

The WASH consultants, an analyst and a planner will have the following tasks to perform:

### I. ANALYST

Assess the current status of CARE-managed WS&S programs in the Northern and Eastern Regions. This objective would be addressed through several subtasks taken from the cable:

- a. Research and data gathering from CARE files on WS&S projects (Cable task A)
- b. Research and data gathering from relevant Ministries of information related to CARE WS&S projects (Cable task B)
- c. Research and data gathering from existing CARE WS&S projects (Cable task C)
- d. Work closely with CARE, government officials and WASH consultant planner.

The output of this set of tasks will be a 1982 status report of the CARE WS&S Program. This product will feed directly into the second task.

### II. PLANNER

Assist CARE/Cameroon to make reasonable and feasible projections of water supply and sanitation activities for the next five years. Subsidiary tasks include:

- a. Assist in the development of reasonable and practical targets (goals) (Cable task D)
- b. Assist in the development of reasonable "indicators" against which to measure progress (Cable task E)
- c. Prepare a draft of relevant sections of the multi-year plan (Cable task F)
- d. Work closely with CARE, government officials and WASH consultant analyst.

The output of this task is the final product.



OTD #127

November 9, 1982

Reconnaissance Visit in Preparation for Sanitation Workshop  
Senegal

USAID/Senegal requested WASH services to plan a workshop on latrine construction and solid waste disposal. The workshop will be for nurses working in the Bakel Health Component of the Irrigated Perimeters Project as well as for other participating institutions that provide health personnel for rural areas. The workshop will be held in April 1983 in Bakel, Senegal. The purposes of the planning visit were to review workshop planning to date, assess the proposed workshop site, and investigate the participation of other Senegalese institutions.

For further information, contact Mr. F. Rosensweig.

Up to nine person days of effort, seven days of international per diem and one international air trip are authorized over a two month period. Local travel up to \$800 and local secretarial, graphics and reproduction services up to \$400 are also authorized.

JEB/CIC  
11/16/82

WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 127  
November 9, 1982

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  
AID/S&T/H/WS

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

REFERENCES: A) Dakar 9223, dated 8 Oct 82  
B) Memo Isely (WASH)/Wehman (S&T/H/WS) dated 29 Oct 82  
C) WASH Telex #407, dated 11/1/82  
D) WASH Telex #408, dated 11/2/82  
E) Protocol for the Development of Training Materials  
for the Bakel (Senegal) Sanitation Workshop  
F) Letter Isely (WASH)/Diop (USAID/Senegal) dated 9 Sept 82  
G) Letter Isely (WASH)/Diop (USAID/Senegal) dated 2 Sept 82

1. WASH contractor requested to provide technical assistance to USAID/Senegal as per Ref. A, para. 1 - 2.
2. WASH contractor/subcontractor/consultants authorized to expend up to nine (9) person days of effort over a two (2) month period to accomplish this technical assistance effort.
3. Contractor authorized up to seven (7) person days of international/domestic per diem to accomplish this technical assistance effort.
4. Contractor to coordinate with AFR/TR/IN (J. Shepperd), AFR/TR/ENGR (J. Snead), Senegal desk officer, USAID/Senegal (Ms. Diop) and insure that S&T/H/WS (Dr. J. Austin) is fully appraised of progress. Contractor to provide copies of this OTD to above mentioned individuals along with periodic progress reports as requested by Africa Bureau for S&T/H/WS.
5. Contractor authorized to provide for one (1) international trip from Tunis, Tunisia to Paris, France, to Dakar, Senegal to Washington, D.C. during life of this OTD.
6. Contractor authorized local travel within Senegal as necessary and appropriate to accomplish work scope NTE \$800 without prior written approval of AID WASH Project Manager.
7. Contractor authorized to obtain secretarial, graphics or reproduction services in Senegal or WASH Project CIC as necessary to accomplish tasks NTE \$400 without

prior written approval of AID WASH Project Manager. These services are in addition to level of effort specified in para. 2 and 3 above.

8. Contractor authorized to provide for car rental or use of taxis if necessary to facilitate effort. Mission is encouraged to provide mission vehicles if available.

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

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

11. New procedures regarding cost estimates for subcontractors and justifications for choice of subcontractors and consultants remain in effect.

12. Contractor to leave draft report with USAID/Senegal before leaving mission. No final report is to be prepared as this is an interim action.

13. USAID/Senegal should be contacted immediately and technical assistance initiated as soon as possible.

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

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Department of State

INCOMING TELEGRAM

PAGE 01 DAKAR 0922 020935Z  
ACTION AID-CC

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ACTION OFFICE AFDP-06  
INFO AFFW-04 AFCA-03 SIME-01 SAST-01 ENGR-02 AFDW-01 RELO-01  
STHP-01 MACT-01 CG-01 /002 44 73L

INFO OCT-00 AF-CC AMAD-01 /346 W  
-----254123 060938Z /30

R 060919Z OCT 82  
FM AMEMBASSY DAKAR  
TO SECSTATE WASHDC (595)  
INFO AMEMBASSY ABIDJAN  
AMEMBASSY BAKAO

UNCLAS DAKAR 09:23

AIDAC  
SECSTATE FOR AFR/DR/HEALTH, ST/HEALTH, ST/H/VS/  
VIC KENN-N  
ABIDJAN FOR REDCO  
BAKAO FOR SDPT

E.O. 12356: N/A  
SUBJECT: PROPOSED WORKSHOP SITE VISIT FOR NOVEMBER 29 -  
DECEMBER 3, 1982 BY WASH REPRESENTATIVE.

REF: LETTERS FROM ICELY DATED SEPT. 2 AND SEPT. 5, 1982

1. USAID/DAKAR WOULD LIKE TO CONFIRM THE DATES OF  
NOVEMBER 29 - DECEMBER 3 AS STATED IN REF FOR A WASH  
REPRESENTATIVE TO MAKE A FIELD VISIT TO BAKEL TO  
ASSESS THE PROPOSED WORKSHOP SITE, DISCUSS THE PLANS  
WITH DR. N'DIAYE AND MARY DIOP AND ALSO LOOK INTO  
PARTICIPATION OF OTHER SENEGALESE INSTITUTIONS.

2. AFTER SPEAKING WITH DR. N'DIAYE, MARY DIOP AND  
HE ARE IN GENERAL AGREEMENT THAT THE PROTOCOL IS IN  
KEEPING WITH THE REQUEST THAT WAS MADE IN WASHINGTON  
IN AUGUST. FURTHER DISCUSSION IS NECESSARY.

3. THEY WOULD LIKE TO HAVE ONE OF THE PEOPLE ON THE  
TEAM (PREFERABLY THE TRAINER) FOR THE TRAINING IN  
MARCH TO BE THE ONE COMING OUT IN NOVEMBER IN ORDER  
TO HAVE CONTINUITY.

4. THEY WOULD ALSO PREFER TO HAVE SOMEONE THAT HAS  
ALREADY WORKED IN AFRICA PARTICULARLY SENEGAL, IF  
POSSIBLE. FELIX AWANTANG WAS SUGGESTED AS A POSSIBLE  
CONSULTANT -- IS HE NOT AVAILABLE AT THIS TIME?

5. IF NOT, THEY WOULD APPRECIATE CV'S ON BARRY  
KARLIN AND JEAN BORDMAN. WE ASSUME THAT FRENCH  
LEVELS ARE AT FCR-3.

6. FROM YOUR CABLE, THE NEEDED REMAINING RESOURCES  
ARE: 1 ROUNDTRIP TICKET AND UP TO 35 DAYS IN TRAVEL  
PER DIEM, THE TOTAL WHICH COMES TO ABOUT DOLS 3,500.  
PLEASE CONFIRM ESTIMATE.

7. PLEASE CLARIFY "WASH CIC" IN LEVEL OF EFFORT.

8. AS PER YOUR SEPTEMBER 5, 1982 LETTER, MISSION  
TENDS TO AGREE WITH THE IDEA THAT A SEPARATE TRAINING  
WORKSHOP BE DEVOTED TO WELL PROTECTION, PROVIDED  
FUNDS ARE AVAILABLE. TEAMS OF NURSES AND MIDWIVES  
WOULD CERTAINLY BE PREFERABLE. HOWEVER, PERHAPS AT  
THAT TIME, SANITATION AGENTS (T.A.'S) SPECIFICALLY  
TRAINED IN SUCH ACTIVITIES WOULD BE AVAILABLE AT THE  
PROJECT SITE. (THE PROJECT HAD REQUESTED TWO SUCH  
AGENTS BUT THE USG HAS NOT AS YET ASSIGNED THEM TO  
THE AREA).

9. MARY DIOP HAD CONTACTED PHILIPPE TELECOM, SENEGAL  
PEACE CORPS DIRECTOR IN DAKAR AND HIS MANUAL CAN  
CERTAINLY BE INCLUDED. DIOP WILL BE EXPLORING OTHER  
AVAILABLE LOCAL MATERIALS TO BE USED IN THE WORKSHOP  
DESIGN. SHE WILL SEND THEM BY THE POUCH.

10. AT PRESENT, THERE ARE NO PEACE CORPS VOLUNTEERS  
IN HEALTH AND SANITATION DEVELOPMENTS IN THE BAKEL  
DISTRICT. THERE WAS ONLY ONE E-PCV WHO WAS A  
TECHNICAL ASSISTANT FOR 3 YEARS WITH THE HEALTH PRO-  
JECT. AT THIS POINT IN THE PROJECT, IT IS NOT FORESEEN,  
NOR RECOMMENDED THAT A PCV BE ASSIGNED TO THE BAKEL  
HEALTH PROJECT. BRAY

?

*McJunkins*

AUSTIN

WEHMAN

*John - if you see?*

*Br*

To WASH: 19 Oct 82 JW

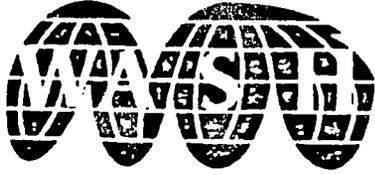
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221

Fred

C-108

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

September 9, 1982

Ms. Mary Diop  
USAID Mission  
Dakar, Senegal

Dear Mary:

Our consultants are busy at work in the development of a training design and materials for the proposed Bakel workshop. Only one major snag has been encountered thus far. That concerns the training of the nurses in the construction of well upper structures. It appears that such training would involve the expenditure of more time than is available in the two weeks in consideration of the time also needed for training in latrine construction and solid waste disposal.

To build an upper structure for a well, it seems, involves the same steps as are used for building a new well. Even some digging in the existing well would be necessary. Trainees would have to know all the steps for building a well -- requiring a minimum of two weeks.

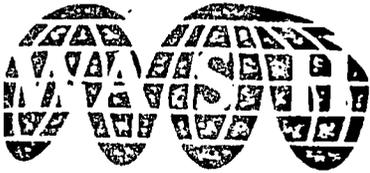
Doing a half-way job is not possible because of the problem of having no well casement on which to rest the upper structure. In any case, well improvements such as envisioned insure only a partial protection of the water supply and should be a part of an incremental program of well improvements leading eventually to closed wells. There is a further question of whether nurses are the best persons for technical training such as this which involves a great deal of construction work. Such is better done by masons. Perhaps teams of nurses and masons would be preferable.

We feel therefore that while the training in well protection needs to be done, it should probably be done as a part of either a prolonged or a completely separate workshop. The March workshop should probably be limited to excreta and solid waste disposal.

Finally, we have just learned that Filipe Tejeda, Associate Peace Corps Director in Dakar, is currently developing a well manual for Senegal. He is also

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Camp Dresser and McKee  
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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.

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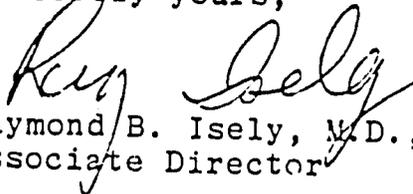


R.B. Isely ltr to M. Diop dtd 9/9/82  
page two of two pages

developing a latrine construction manual, including an improved vented model. Much of the material is being developed in Wolof. We would like to incorporate as much of these materials into the workshop design as possible. To that end we are planning to contact Mr. Tejeda here, but would like to know what if any role Peace Corps volunteers are playing in health and sanitation developments in the Bakel District.

Please let me have your and Dr. N'Diaye's reactions to these ideas. At this distance it's hard to project what would be possible in your context. I hope we are reasonably on track.

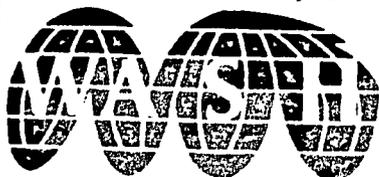
Sincerely yours,

  
Raymond B. Isely, M.D., M.P.H., D.T.M.  
Associate Director

RBI/nrl

cc: F. Rosensweig  
C. Hafner  
B. Karlin  
J. Bordman

WATER AND SANITATION  
FOR HEALTH PROJECT



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Cable Address WASHAID

C-308

September 2, 1982

Ms. Mary Diop  
USAID Mission  
Dakar, Senegal

Dear Mary:

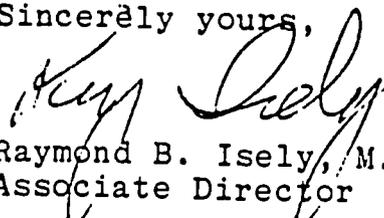
It was a pleasure to see you and Dr. N'Diaye here last month. I'm glad we had an opportunity to plan for some WASH assistance to Dr. N'Diaye's project. I have sought and have obtained S&T approval for developing the workshop design and training material: for the workshop in March. I enclose for your information and review two copies of the protocol that two consultants (Barry Karlin and Joan Bordman) are using in the design. Their product will of course be translated into French. We will try to send you drafts for review beforehand if possible.

I would like to propose that someone, probably Fred Rosensweig, visit Senegal in late November-early December to assess the proposed workshop site, discuss the plans with you and Dr. N'Diaye, and look at the possibility that other Senegalese institutions might participate as observers in order to expand the benefits of the workshop.

If such a visit would be convenient for you, please send a cable to Vic Wehman at S&T/H/WS, requesting a 4-5 day visit from approximately November 29-December 3, to accomplish the scope of work suggested above.

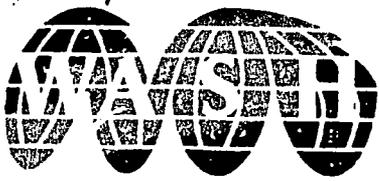
I am looking forward to our working together.

Sincerely yours,

  
Raymond B. Isely, M.D., M.P.H., D.T.M.  
Associate Director

cc: F. Rosensweig  
Enclosure

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Camp Dresser and McKee  
Incorporated, Principal Con-  
sultants, 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.



Protocol for the Development of Training  
Materials for the Bakel (Senegal)  
Sanitation Workshop

A three-phase process for the development of the technical training materials for this workshop is proposed. At the completion of each phase a decision could be made as to whether or not to proceed to the next phase. The first two phases should be completed before any decision is made.

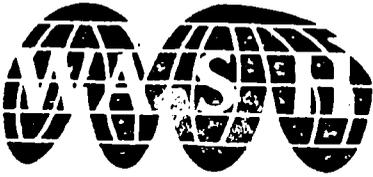
The workshop design and the instructional materials being proposed are for trainers to use in training mid-level nurses in technical skills related to latrine construction, open well upper structure construction, and solid waste disposal, as well as in communication and promotional skills related to the organization and support of village health committees. These mid-level nurses would then have to adapt the materials to use in training community-level workers (secouristes, matrones, and hygiénistes). These two levels can be seen graphically as follows:

- Level A      Trainers of community-level workers  
                  in sanitation technologies, and  
                  communication and promotional skills
- Level B      Community-level workers

The three phases are as follows:

- Phase I      Needs assessment and objectives
  - 1. Definition of the overall purpose of the training materials
  - 2. Description of the users of the materials (Level A above)
    - Who are these users?
    - What level skill will they need to use the materials?
    - What will the users do with the materials?
  - 3. Task analysis: defining what skills and knowledge the participants (Level A) and those whom they train (Level B) will have after the training, and what the minimum entry level skills and knowledge are before training

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Protocol/Bakel (Senegal) Workshop  
Page 2

- Review of literature and other documentation
- Interviews with persons knowledgeable about health personnel in Senegal

4. Formulation of detailed training objectives that will form the basis for both the workshop design and the training materials

Phase II Outline of training manual(s)

1. Design of a two-week training workshop
2. Outline of sessions
3. Writing objectives for each session
4. Collection of background technical materials for each session

Phase III Development of first draft(s)

1. Agreement on format for sessions
2. Writing up each session following this format

In subsequent phases, pilot testing and revision of materials would take place.

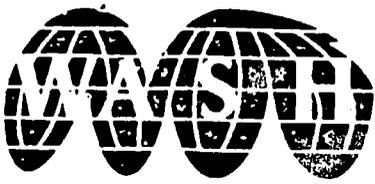
Personnel needed

A two-person team composed of a competent sanitarian and a skilled designer of training programs and materials would be needed. The sanitarian would do most of the actual writing and preparatory work; the training designer would act as advisor and reviewer to the sanitarian on format, training design, task analysis, and objective setting.

Timing

The first three phases should be completed no later than December 15, 1982.

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Protocol/Bakel (Senegal) Workshop  
Page 3

Level of effort

To complete all three phases, the following is anticipated:

Trainer	15 person days
Sanitarian	35 " "
WASH CIC	10 " "
TOTAL	<hr/> 60 person days

Resources

1 round trip and travel per diem up to 15 days in Washington.  
\$1,000 in training materials production, supplies, graphics.

RBI/nrl

cc: F. Rosensweig  
C. Hafner  
J. Austin  
M. Diop

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Vic Wehman

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Western Union International, Inc.

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OUR TELEX NO. 407

TO: MICHAEL WHITE  
MARY DIOP  
USAID/DAKAR

FROM: R.B. ISELY, WASH PROJECT

RE: WORKSHOP ON SANITATION PROPOSED FOR MARCH 1983

1. BEFORE PROCEEDING FURTHER, WILL NEED A FORMAL REQUEST FROM MISSION FOR WASH SERVICES IN PUTTING ON WORKSHOP. HAD ASSUMED REQUEST WOULD BE SENT EARLIER, BUT NEED NOW TO MAKE WORK OFFICIAL. REQUEST SHOULD INCLUDE AN APPROXIMATE SCOPE OF WORK.
2. PLEASE CABLE YOUR CONCURRENCE FOR ROSENSWEIG RECONNAISSANCE VISIT NOVEMBER THRU DECEMBER 3. HIS ETA DAKAR IS 21:30, SUNDAY NOVEMBER VIA AF 305. THANK YOU, R.B. ISELYJ

ional Telex

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OUR TELEX NO. 408

TO: MICHAEL WHITE  
MARY DIOP  
USAID/DAKAR

FROM: R.B. ISELY, WASH PROJECT

RE: OUR TELEX NO. 407

PARAGRAPH 2, LINE 2 SHOULD READ AS FOLLOWS: 'VISIT  
NOVEMBER 29 THROUGH DECEMBER 3. HIS ETA DAKAR IS  
21:30, SUNDAY NOVEMBER 28 VIA AF 305. SORRY FOR  
ANY INCONVENIENCE. R.B. ISELY.]

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WASHAID 64552  
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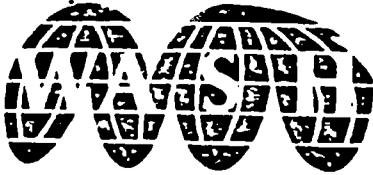
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*to Wehman*MEMORANDUM

To: Victor Wehman  
From: Raymond Isely  
Subject: Senegal Workshop: inclusion of a component on well upper structure construction  
Date: October 29, 1982

After discussing the matter of expanding the two week training workshop on latrine construction and solid waste disposal to include techniques of protecting wells with Barry Karlin, Joan Bordman, Fred Rosensweig, and Craig Hafner, I am convinced that there are serious obstacles to the feasibility of doing so. Despite the obvious advantage of including everything essential in one workshop, which would be cost-saving, there are the problems of participant fatigue, participant time away from jobs, and the necessity of securing the cooperation and participation of local masons and possibly personnel from a different ministry. Barry has developed the following list of skills involved in well improvement:

1. Proper location for a well, including deciding whether it would be appropriate to attempt to improve one;
2. Determining the technical feasibility of improving the quality, quantity, flow rate or dependability of the well water;
3. Deepening the well, cleaning the bottom and putting in a layer of gravel;
4. Casting linings or constructing them from other material when soil conditions permit;
5. Safely lowering liners, workers and tools into the well, and removing workers and excavated materials;



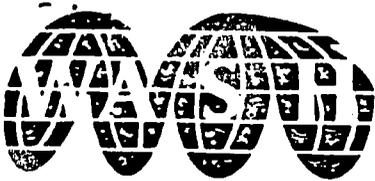
Victor Wehman  
Page 2  
October 29, 1982

6. Using plumb lines and other techniques to assure that well walls and linings are straight;
7. Grouting between liners;
8. Backfilling with gravel and soil, plus tamping;
9. Providing for waste water drainage and, if desired, animal watering troughs;
10. Constructing a well apron sealed to the well casing;
11. Providing for relatively sanitary ways of removing water from the well and protecting the well from gross contamination;
12. Developing management plans for maintenance and repair;
13. Developing community health education plans, including hygiene education.

Some of these skills are partially or fully covered in the latrine unit, including working with concrete, liner forms, carpenters tools, with re-rods, and locating latrines away from wells. Community health education is also covered. However, a number of critical skills are not yet covered, including safe lowering techniques, completion of the apron, accurate plumbing, and providing for sanitary ways of removing water from the well.

In order to develop the above skills, the following conditions would have to prevail:

1. A well would have to be accessible which does not have more than  $1\frac{1}{2}$  meters of water in it, has a relatively narrow opening, has firm walls not readily subject to collapse, and is not excessively deep;



Victor Wehman  
Page 3  
October 29, 1982

2. Trainers will be able to acquire liner forms for casting concrete rings without having to build them;
3. Materials for constructing a wooden A-frame and pulley must be provided;
4. Trainees can be given opportunities to practice using the A-frame, lowering casings, and plumbing them;
5. Time can be made available for consideration of planning, educational and maintenance issues.

It will not be easy to assure that such conditions can be arranged at the training site. The result may be that unsafe or ineffective practices will be attempted by trainees who lack needed practical experience.

Barry estimates a minimum of five days to acquire these skills; that estimate is probably optimistic according to our training experts and assumes that the above conditions can be met.

My recommendation is that we do not expand the workshop, but rather give the participants a well designed handout on the subject and recommend that the Mission find a way to finance another training workshop with or without WASH involvement.

RBI/cei

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WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 127  
AMENDMENT NO. 1  
25 January 1983

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

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

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

REFERENCE: A) OTD # 127, dated 9 November 1982

1. Para 2 of subject OTD # 127 (Ref A) is cancelled. New para 2 of subject OTD # 127 (Ref A) is now to read as follows:

"2. WASH contractor/subcontractor/consultants authorized to expend up to 17 person days of effort over a six (6) month period to accomplish this technical assistance effort."

2. Para 3 of subject OTD # 127 (Ref A) is cancelled. New para 3 of subject OTD # 127 (Ref A) is now to read as follows:

"3. Contractor authorized up to 13 person days of international/domestic per diem to accomplish this technical assistance effort."

3. New para 5.A. to subject OTD # 127 (Ref A) is now to read as follows:

"5.A. Contractor authorized up to two (2) domestic round trips from consultants home base to Washington D.C. and return to consultants home base during the course of this OTD."

4. Nothing follows.

Camp, Dresser & McKee, Inc.  
WASH PROJECT

JAN 25 1983

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OTD #131

January 27, 1983

Technical Assistance to Improve Management Structure and Systems  
of Public Health Inspectorate - Swaziland

AID/Swaziland requested WASH assistance to strengthen the management structure and systems of the Public Health Inspectorate in the Ministry of Health. The Inspectorate is responsible for latrine construction, spring protection, food inspection and the control of pest and communicable diseases. The scope of work includes evaluation of present level of management skills, identification of key management skills to perform job duties, review of proposed organization structure of the Inspectorate, preparation and delivery of an in-service management training program for health inspectors, and development of a management information system and of other recommendations as appropriate. For further information, contact Mr. F. Rosensweig.

Up to seventy-eight person days of effort, sixty-six person days of domestic/international per diem and one international air round trip are authorized over a five month period. Local travel up to \$1,300, local secretarial graphics and reproduction services up to \$2,600, and up to \$4,000 for training material development are also authorized.

JEB/CIC  
2/8/83

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JAN 27 1983

WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 131  
January 27, 1983

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

FROM: Victor W.R. Wehman, Jr., P.E., R.S. *For V.R.W.*  
AID WASH Project Manager  
AID/ST/H/WS

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

REFERENCE: A) Mbabane 00238, dated 20 Jan 83  
B) Mbabane 3717, dated 3 Dec 82

1. WASH contractor requested to provide technical assistance to USAID/Mbabane as per Ref. A, para. 1-5.
2. WASH contractor/subcontractor/consultants authorized to expend up to 78 person days of effort over a five (5) month period to accomplish this technical assistance effort.
3. Contractor authorized up to 66 person days of international/domestic per diem to accomplish this effort.
4. Contractor to coordinate with Swaziland desk officer, AFR/TR/ENGR (J. Snead), AFR/TR/HN (Dr. Jim Shepperd), USAID/Mbabane (Dr. C. DeBose)--Health Officer and should provide copies of this OTD along with periodic progress reports as requested by the AFR Bureau or S&T/H staff.
5. Contractor authorized up to one (1) international round trip from consultants home base to Washinton, D.C. (for briefing and preparation) to Swaziland and return to consultants home base through Washington, D.C. (for debriefing).
6. Contractor authorized to initiate local travel within Swaziland to view, review and evaluate projects described under Ref. A. Local travel NTE \$1300 without the written approval of the AID WASH Project Manager.
7. Contractor authorized to obtain local secretarial, graphics, reproduction or interpreter services in Swaziland as necessary and appropriate to accomplish tasks. These services are in addition to and above the level of effort specified in para. 2 and 3 above NTE \$2600 without the prior written approval of the AID WASH Project Manager.
8. Contractor authorized to develop training curriculum agenda, materials and job aids, as necessary and proper NTE \$4000 without the prior written approval of the AID WASH Project Manager. (See Ref. A, para. 3.C.)
9. Contractor authorized to provide for car/vehicle rental if necessary and appropriate to facilitate effort. USAID encouraged to support vehicle needs of WASH consultant and provide vehicles support if available and appropriate.

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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 overall final draft coordinated report to USAID/Mbabane before consultant leaves Swaziland.
13. New procedures regarding subcontractor cost estimates and justifications of subcontractor and consultants remain in effect.
14. USAID/Mbabane, and AFR/TR/HN should be contacted immediately and technical assistance initiated as soon as convenient to USAID.
15. Appreciate your prompt attention to this matter. Good luck.

ACTION COPY

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INCOMING TELEGRAM

PAGE 01 MB-EAN 00238 01 OF 02 2013432 1984 03246 A100505  
ACTION 413-00

MB-E-M 00238 01 OF 02 2013432 1984 03246 A100505

WASH Proj Dir.

ACTION OFFICE 214E-01  
INFO AFSA-03 AFDP-05 CPST-02 STAG-02 CACT-01 ENGR-01 HHS-09  
AFDA-01 STEN-01 AGRI-01 CDC-05 STFW-01 RELO-01 STHP-01  
FACT-01 /338 A1 420

INFO OCT-00 INR-10 AF-03 EB-03 AMAD-01 /254 V  
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UNCLAS SECTION 01 OF 02 MB-EANE 00238

AIDAC

E.O. 12356: N/A  
SUBJECT: REQUEST FOR TECHNICAL ASSISTANCE FROM WATER AND SANITATION FOR HEALTH (WASH) PROJECT, 931-1175

REFS: (A) 82 MB-EANE 03029; (B) MEMORANDUM FROM WAFNER TO DEBOSE DATED 9/15/82; (C) INTERNATIONAL TELEX 274, DATED 7/22/82; (D) 82 MB-EANE 02229

1. MCH AND USAID/S REQUEST THE SERVICES OF MANAGEMENT CONSULTANT, WITH PROFESSIONAL ACADEMIC QUALIFICATIONS AND EXTENSIVE WORK EXPERIENCE IN WATER AND SANITATION, TO WORK WITH THE PUBLIC HEALTH INSPECTORATE FOR TWO-PERSON MONTHS BEGINNING IN FEB. 1983. THIS REQUEST IS PART OF THE FOLLOW-UP ACTIVITIES TO THE VISIT OF WASH STAFF MEMBER CRAIG WAFNER TO SWAZILAND IN OCTOBER 1981 AND THE WASH FUNDED CONSULTANCY OF PROFESSOR DANIEL OKUN, JULY 25-27 1982. DURING THE VISITS OF WAFNER AND OKUN, DISCUSSIONS WERE HELD WITH MCH OFFICIALS, USAID/S AND MEMBERS OF THE SWAZILAND RURAL WATER-BORNE DISEASE CONTROL PROJECT (545-2957) TEAM CONCERNING THE NEED TO STRENGTHEN THE MANAGEMENT STRUCTURE AND ORGANIZATIONAL SYSTEM OF THE PUBLIC HEALTH INSPECTORATE IN MCH.

2. BACKGROUND: THE PUBLIC HEALTH INSPECTORATE EMPLOYS TWO CADRES OF HEALTH WORKERS: HEALTH INSPECTORS AND HEALTH ASSISTANTS. HEALTH INSPECTORS RECEIVE THREE YEARS OF BROAD-BASED TRAINING IN ALL PHASES OF WATER AND SANITATION, SUPERVISION AND MANAGEMENT. THEY ARE EMPLOYED AT THE SUPERVISORY LEVEL IN THE DISTRICTS. HEALTH ASSISTANTS ARE THE "FIELD WORKERS" IN RURAL SANITATION WORKING UNDER THE SUPERVISION OF HEALTH INSPECTORS. THEY RECEIVE ONE YEAR OF TRAINING IN RURAL WATER AND SANITATION TECHNIQUES AND PROCEDURES. BOTH CADRES ARE TRAINED IN SWAZILAND AT THE INSTITUTE OF HEALTH SCIENCES, A USAID/S FUNDED HEALTH TRAINING SCHOOL. THE PRESENT STAFF OF THE PUBLIC HEALTH INSPECTORATE INCLUDES A SENIOR HEALTH INSPECTOR, CHIEF OF THE UNIT, TWO DISTRICT HEALTH INSPECTORS, TWO SENIOR HEALTH ASSISTANTS IN ACTING POSITIONS AS DISTRICT HEALTH INSPECTORS, AND 27 HEALTH ASSISTANTS. THE PUBLIC HEALTH INSPECTORATE IS THE UNIT IN MCH RESPONSIBLE FOR THE FOLLOWING ACTIVITIES:

- COMMUNITY SANITATION (PIT LATRINE) PROJECT
- PROTECTION OF SPRINGS
- INSPECTION OF BUTCHERIES
- INSPECTION OF FOOD AND LIQUOR PREMISES
- PEST CONTROL
- ASSISTANCE IN THE CONTROL OF COMMUNICABLE DISEASES (E.G. TRACING CHOLERA CONTACTS).

USAID/S IS CONCERNED WITH ALL OF THE ACTIVITIES PERFORMED BY THE PUBLIC HEALTH INSPECTORATE. HOWEVER,

PIT LATRINE CONSTRUCTION AND PROTECTION OF SPRINGS ACTIVITIES ARE PROJECTS FUNDED BY USAID UNDER THE RURAL WATER-BORNE DISEASE CONTROL PROJECT. A SURVEY CONDUCTED BY THE SOCIOLOGIST ON THE PROJECT TEAM ESTIMATED THAT ONLY 31 PER CENT OF THE HOUSEHOLDS ON SWAZI NATIONAL LAND HAVE PIT LATRINES. IN ADDITION, THE RATE OF LATRINE CONSTRUCTION IS PRESENTLY RUNNING ONLY ABOUT 25 PER MONTH NATIONALLY. BOTH THE MCH AND USAID/S FEEL THAT IMPROVED MANAGEMENT IN THE PUBLIC HEALTH INSPECTORATE WOULD BE AN IMPORTANT FACTOR IN INCREASING LATRINE CONSTRUCTION ACTIVITY.

3. PROPOSED SCOPE OF WORK FOR MANAGEMENT CONSULTANT:

- A. EVALUATE THE PRESENT LEVEL OF MANAGEMENT SKILLS OF THE PUBLIC HEALTH INSPECTORATE PERSONNEL.
- B. IDENTIFY KEY MANAGEMENT SKILLS REQUIRED TO PERFORM JOB DESCRIPTIONS.
- C. WORKING WITH MCH HEADQUARTERS STAFF, PREPARE IN-SERVICE MANAGEMENT TRAINING PROGRAM AND CARRY OUT THE INITIAL TRAINING SESSIONS FOR HEALTH INSPECTORS.
- D. REVIEW PROPOSED ORGANIZATION STRUCTURE OF THE PUBLIC HEALTH INSPECTORATE AND AS NECESSARY, DEVELOP RECOMMENDATIONS FOR IMPROVEMENTS.
- E. DEVELOP A MANAGEMENT SYSTEM FOR THE INSPECTORATE GIVING PARTICULAR ATTENTION TO THE SUPERVISION AND RECORDS AND REPORTING FUNCTIONS REQUIRED TO SUPPORT THE MCH'S PROPOSED DECENTRALIZATION POLICY.
- F. THE CONSULTANT'S REPORT MUST BE COMPLETED BEFORE LEAVING SWAZILAND.

Rosenmawer

RECEIVED ST/H/WS (Wehman) 1-21-83  
PASSED TO WASH 1-21-83

McJunkin  
Austin  
~~Wehman~~ VWV  
~~Waffen~~

Camp, Dresser & McKee, Inc.  
WASH PROJECT

JAN 24 1983

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TELEGRAM

PAGE 01

MBABAN 00233 02 OF 02 201345Z 2004 002248 A100511

ACTION AID-00

ACTION OFFICE STHF-01

INFO AFSA-03 AFDR-06 CMGT-02 STAG-02 SAST-01 ENGR-01 HHS-03  
AFDA-01 STEN-01 AGRI-01 CDC-06 STFA-01 RELO-01 STHP-01  
MAST-01 /038 A1 420

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TO SECSTATE WASHDC PRIORITY 6450

UNCLAS SECTION 02 OF 02 MBABANE 00238

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4. SPECIFIC QUALIFICATIONS FOR THE CONSULTANT:

- A. MUST HAVE SIGNIFICANT SPECIALIZED TRAINING AND EXPERIENCE IN THE FIELD OF SANITATION AND HAVE SERVED IN A MANAGEMENT OR ADVISORY CAPACITY IN A SANITATION PROGRAM, PREFERABLY IN AFRICA.

- B. SHOULD HAVE EXPERIENCE IN PRESENTATION OF COMPREHENSIVE RECOMMENDATIONS THAT INCLUDE A FULL RANGE OF VIABLE OPTIONS FOR MOH MANAGEMENT SYSTEMS.

- C. ABILITY TO WORK WITH SENIOR LEVEL MOH OFFICIALS AS WELL AS FIELD-LEVEL SANITATION WORKERS IS IMPORTANT.

5. PLEASE SEND TO THE MISSION BRIEF SUMMARY OF QUALIFICATIONS OF PROPOSED CANDIDATES ASAP. PHINNY

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Department of State

INCOMING TELEGRAM

PAGE 01  
ACTION AID-00

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UNCLAS MBABANE 03717

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E. O. 12356: N/A

SUBJECT: RURAL WATER BORNE DISEASE PROJECT (645-0037);  
- USE OF WASH

FYI, USE OF WASH PROJECT RESOURCES IN CONJUNCTION WITH RWBD PROJECT FOR FOLLOW-ON TRAINING OF HEALTH INSPECTORS AND FOR PILOT WATER DISINFECTANT PROGRAM IS UNDER DISCUSSION AT MINISTRY OF HEALTH. EXPECT MORE PRECISE REQUIREMENTS AND SCOPES OF WORK TO BE DRAWN UP OVER NEXT FEW WEEKS WITH PARTICIPATION DR. DEBOSE WHEN HE RETURNS FROM CURRENT TDY IN MASERU. WILL ADVISE WHEN READY. PLEASE INFORM KULAKOFF.  
AED. PHINNY

To WASH: BDoc BZ JH9

UNCLASSIFIED

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OTD #137

February 10, 1983

Development of Comprehensive Training Plan  
for Rural Spring Capping Project - Burundi

AID/Burundi requested WASH technical assistance to develop a comprehensive training plan for rural workers involved in the installation and maintenance of capped springs and in the promotion of domestic hygiene and sanitation. This is part of the spring capping program of the Community Water and Sanitation Project. The scope of work includes reviewing current health and sanitation programs of the Ministries of Health and Social Affairs and of UNICEF's spring capping project and assessing the training resources of each Ministry and of the Ministry of Development, which is in charge of the Project. It also includes developing a comprehensive training program aimed at maximizing the health and sanitation benefits of spring capping, providing a list of required equipment and materials, and furnishing guidelines for the Ministries to institutionalize this program in their long-term plans of operation.

For further information, contact Dr. R. Isely.

Up to twenty-six person days of effort, twenty person days of international/domestic per diem, and one international air round trip over a three month period are authorized. Local travel expenses up to \$1,400 and up to \$1,100 for local secretarial, graphics and reproduction services are also authorized.

JEB/CIC  
2/14/83

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WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 137  
10 February 1983

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

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

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

REFERENCE: A) Bujumbura 00215, dated 18 Jan 83  
B) State 026848, dated 29 Jan 83  
C) Bujumbura 00527, dated 8 Feb 83

1. WASH contractor requested to provide technical assistance to USAID/Burundi as per Ref A, para 2 and Ref C, para 1-3.E. Consultant to work closely with USAID and UNICEF staff in developing approaches and plans.
2. WASH contractor/subcontractor/consultants authorized to expend up to 26 person days of effort over a three (3) month period to accomplish this technical assistance effort.
3. Contractor authorized to expend up to 20 person days of international domestic per diem to accomplish this effort.
4. Contractor to coordinate with AFR/TR/HN (J. Sheppard), AFR/TR/ENG (J. Smead), AFR Bureau Burundi Desk Officer and AFR Bureau PD Officer and should provide copies of this OTD along with periodic progress reports as requested by AFR Bureau staff or S&T/H/WS staff.
5. Contractor authorized to provide up to one (1) international round trip from consultants home base to Bujumbura, Burundi and return to consultants home base through Washington D. C. (for debriefing). Contractor's consultant authorized to come to WASH CIC for Briefing if necessary and appropriate.
6. Contractor authorized local travel within Burundi as necessary and appropriate to accomplish this technical assistance effort NTE \$800 without the prior written approval of the AID WASH Project Manager.
7. Contractor authorized to obtain secretarial, graphics, reproduction or local professional services in Burundi as necessary and appropriate to accomplish this effort NTE \$1100 without the prior written approval of the AID WASH Project Manager. These services are in addition to the level of effort specified in para 2 and 3 above.

Camp, Dresser & McKee, Inc.  
WASH PROJECT

FEB 10 1983

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8. Contractor authorized to provide for car or vehicle rental or hire to facilitate effort. Mission and UNICEF encouraged to support consultants travel in the field if field travel necessary and appropriate. Costs for local Burundi travel NTE \$600 without the prior written approval of the AID WASH Project Manager.
9. WASH contractor will adhere to normal established administrative and financial controls as established for WASH mechanism in WASH contract.
10. WASH contractor should definitely be prepared to administratively and/or technically backstop field consultants and subcontractors.
11. New procedures relating to subcontractor cost estimates and contractor justification for consultants remains in effect.
12. Contractor to provide field draft coordinated report to USAID/Burundi in English before consultant returns to U.S. Final report in English due to USAID/Burundi and S&T/H/WS within 30 days of return of consultant to the U.S.
13. Mission and AFR/DR staff should be contacted immediately and technical assistance initiated as soon as possible. Time frame is very short for coordination.
14. Appreciate your prompt attention to this matter. Good luck.

ACTION COPY

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PAGE 01 BUJUMB 00215 190741Z 5386 000810 AID8591  
ACTION AID-00

ACTION OFFICE STHE-01  
INFO AFEA-03 AFDR-06 AFCA-03 SAST-01 ENGR-01 AFDA-01 RELO-01  
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FM AMEMBASSY BUJUMBURA  
TO AMEMBASSY KIGALI PRIORITY  
AMEMBASSY NAIROBI PRIORITY  
SECSTATE WASHDC PRIORITY 5280

UNCLAS BUJUMBURA 0215

AIDAC  
NAIROBI FOR REDSO, AID/W FOR VWEHMAN (S/T/HEA)

E. O. 12356: N/A  
SUBJECT: BURUNDI COMMUNITY WATER AND SANITATION (695-0109)

REFS: (A) NAIROBI 00253 (B) KIGALI 00143 (NOTAL)

1. AAO UNDERSTANDS THAT BARNES PLANS TO MEET JUDY BRYSON WEEKEND OF FEB 5-6 TO EXCHANGE INFORMATION ON PROJECT THEY ARE BOTH WORKING ON AND WILL COME TO BUJUMBURA ON FEB 7 AT THE EARLIEST. LIGHT INTENDS TO ACCOMPANY BARNES. THEREFORE AAO SUGGESTS THAT BLANE ALSO DELAY ARRIVAL TO FEB 7. COMMUNITY WATER PROJECT ITSELF IS SIMPLE. UNICEF STAFF ARE AVAILABLE. AS ARE LARGE AMOUNTS OF DATA, COST FIGURES AND EVALUATION.

2. AAO REQUESTS SERVICES OF A HEALTH/SANITATION SPECIALIST UNDER WASH CONTRACT (TWO AND A HALF WORK WEEKS, TWO OF WHICH ARE IN BURUNDI). HE/SHE SHOULD HAVE MPH AND EXPERIENCE IN WORKING WITH HEALTH EDUCATION PROGRAMS RELATED TO WATER BORNE DISEASES AND ENVIRONMENTAL SANITATION. THIS PERSON WILL IDENTIFY THE MOST EFFECTIVE CHANNELS IN THE RURAL MILIEU FOR EDUCATING SPRING USERS IN BASIC WATER SANITATION AND WILL COORDINATE INSTITUTIONAL ARRANGEMENTS FOR TRAINING. HE/SHE WILL BE FLUENT IN FRENCH AND HAVE CROSS-CULTURAL KNOWLEDGE AND EXPERIENCE IN AFRICA. MRS. BLANE SUGGESTED HAFNER AS A POSSIBILITY.

3. ADVISE. COCK

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Received ST/H/WS (Wehman) 1-20-83  
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PAGE 01 STATE 020849  
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DRAFTED BY AID ST W VEHMAN DDC  
APPROVED BY AID ST W CARBASE  
AID/AFR/CA/BBBYER (PHONE)  
AID/AFR DR/LEHBERG INFO

P 280459Z JAN 83  
FM SECSTATE WASHDC  
TO AMEMBASSY BUJUMBURA PRIORITY

UNCLAS STATE 020849

ADM AID FOR GEORGE BLISS, AID AFFAIRS OFFICER

E. O. 12858

TAGS:

SUBJECT BUJUMBURA WATER AND SANITATION PROJECT

REF: BUJUMBURA 0015

1. APPRECIATE YOUR REQUEST FOR WASH ASSISTANCE AND DESIRE TO HELP WITH SCOPE OF WORK AS DEFINED BUT NEED THE FOLLOWING INFORMATION TO IDENTIFY PROPER PERSON:  
A) RANGE OF DATES FOR TASK.  
B) LEVEL AND TECHNICAL TYPE OF HOST GOVERNMENT COUNTERPARTS WITH WHOM YOU COOPERATE. WOULD BE WORKING.  
C) STAFFS AND PROJECT MANAGER RECALLS A MORE DETAILED SCOPE OF WORK THEN FOUND IN REF. IN ORDER TO AUTHORIZE TECHNICAL ASSISTANCE.
2. INCIDENTALLY, CAMERO'S BRENCH NOT YET AT LEVEL SUFFICIENT FOR THIS TASK.
3. REPLY ATTENTION TO W. WEHMAN, ST. WASH BY PRIORITY CABLE. SHULTZ

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~~WEHMAN~~  
via



Received ST/H/W (Wehman) 1-31-83  
Passed to WASH 1-21-83

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ACTION AID-00

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ACTION OFFICE STHE-01

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TO SECSTATE WASHDC IMMEDIATE 5415

UNCLAS BUJUMBURA 0527

AIDAC  
FOR V. WEHMAN (S/T HEA)

E.O. 12356: N/A  
SUBJECT: BURUNDI COMMUNITY WATER AND SANITATION (695-0109)  
REF: (A) STATE 26848 (B) BUJUMBURA 0215

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**ADVANCE  
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1. TIMING FOR WASH CONSULTANT WOULD BE ASAP FOR UP TO TWO WEEKS IN COUNTRY. PE DESIGN TEAM IS BEGINNING WORK ON 7 FEB AND WILL BE IN BUJUMBURA UNTIL 19 FEB.
2. CONSULTANT WILL BE WORKING WITH DIRECTOR GENERAL RURAL DEVELOPMENT AND DIRECTOR HYDROLOGY. TECHNICAL SUPPORT WILL BE PROVIDED BY UNICEF CONSULTANT WHO IS PROJECT MANAGER FOR CURRENT SPRING CAPPING PROJECT.
3. SCOPE OF WORK:  
THE CONSULTANT WILL BE RESPONSIBLE FOR IDENTIFYING THE MOST EFFECTIVE CHANNELS IN THE RURAL SETTING FOR EDUCATING SPRING USERS IN BASIC WATER SANITATION AND WILL COORDINATE INSTITUTIONAL ARRANGEMENTS FOR TRAINING. SPECIFIC TASKS WILL INCLUDE BUT NOT BE LIMITED TO, THE FOLLOWING:  
  - A) REVIEW CURRENT EDUCATIONAL PROGRAMS CONNECTED WITH THE UNICEF SPRING CAPPING PROJECT
  - B) REVIEW HEALTH AND SOCIAL AFFAIRS' MINISTRIES' PROGRAMS FOR PROVIDING BASIC HEALTH AND SANITATION INFORMATION TO THE RURAL POPULATION
  - C) DRAW UP A COMPREHENSIVE PLAN FOR AN EDUCATIONAL PROGRAM WHICH WILL MAXIMIZE THE HEALTH AND SANITATION BENEFITS OF SPRING CAPPING ACTIVITIES. THE PLAN SHOULD DETAIL THE RESPONSIBILITIES OF EACH MINISTRY PLUS MINISTRY OF RURAL DEVELOPMENT, AND INDICATE HOW THEY WILL INTERACT IN THE OVERALL PROGRAM. IT SHOULD ALSO INCLUDE AN ASSESSMENT OF EACH MINISTRY'S CURRENT CAPABILITY TO CARRY OUT ITS PART OF THIS EDUCATIONAL PROGRAM AND PROVIDE A TRAINING PLAN FOR DEVELOPING NEEDED SKILLS
  - D) PROVIDE A COMPLETE LIST OF MATERIALS AND EQUIPMENT THAT WILL BE NEEDED TO CARRY OUT THIS PROGRAM.
  - E) PROVIDE GUIDANCE FOR THE MINISTRIES TO INSTITUTIONALIZE THIS EDUCATION PROGRAM IN THEIR LONG-TERM PLANS. COOK

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OTD #141

March 3, 1983

Rural Health Workers Training - Zaire

AID/Zaire requested WASH participation in a village health workers workshop, which is part of the Annual Conference of the AID Basic Rural Health Project in Zaire. The scope of work includes identifying and discussing needs for spring capping, rain water harvesting and well construction, development of training strategies to meet the needs, planning regional water-related seminars for 1983-34, and specific seminar planning on rainwater harvesting for two rural health zones seminars in July-August 1983.

For further information, contact Mr. C. Hafner.

Up to sixteen person days of effort, eleven days of international/domestic per diem and one international air round trip are authorized over a three month period. Local travel up to \$400, local secretarial, graphics and reproduction services up to \$800, and up to \$300 for training materials are also authorized.

JEB/CIC  
3/31/83

*246*

WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (CTD) NUMBER 141  
March 3, 1983

MAR 04 1983

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

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

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

REFERENCES: A) Kinshasa 01475, dated 4 Feb 1983

1. WASH contractor requested to provide technical assistance to USAID/ZAIRE as per Ref A, para 1-2.
2. WASH contractor/subcontractor/consultants authorized to expend up to 16 person days of effort over a three (3) month period to accomplish this technical assistance effort.
3. Contractor authorized to expend up to 11 person days of international/domestic per diem to accomplish this effort.
4. Contractor to coordinate with AFR/TR/HN (J. Shepperd), AFR/TR/ENG (J. Snead), AID Zaire desk officer and should provide copies of OTD No. 141 along with periodic progress reports or coordination cables as requested by AFR Bureau or S&T/H staff.
5. Contractor authorized to provide up to one (1) international round trip from consultants home base through Washington (for briefing) to Kinshasa, Zaire and return to home base through Washington (for debriefing and report preparation) during life of this CTD.
6. Contractor authorized local travel within Zaire as necessary and appropriate to accomplish this technical assistance NTE \$400 without the prior written approval of the AID WASH Project Manager.
7. Contractor authorized to obtain local secretarial, graphics or reproduction services in Zaire as appropriate and necessary to accomplish tasks NTE \$800 without the prior written approval of the AID WASH Project Manager. These services are in addition to the level of effort specified in para 2 and 3 above.
8. Contractor authorized to provide for car or taxi rental if necessary and appropriate to facilitate effort. USAID/Zaire is encouraged to provide mission vehicles to consultant if available and appropriate and to support consultant in field if possible.

9. Contractor authorized to develop training aid, or training materials (seminar materials) as appropriate and necessary to carry out the scope of work in Ref A, para 2.A.-2.D. NTE \$ 300 without the prior written approval of the AID WASH Project Manager.
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. New procedures regarding subcontractor cost estimates and justification of contractors/subcontractors selection of consultants remains in effect.
13. Contractor to report on technical assistance effort. Consultant to provide coordinated draft report to USAID/Zaire before leaving Zaire. Final report to be due to USAID/Zaire and S&T/H within 30 days of return of consultant to the U.S. Final report to be prepared in English, single-spaced. Contractor should be prepared to translate final report into French upon direction from S&T/H/WS with concurrence and request to do so by USAID/Zaire.
14. USAID/Zaire and other coordination points identified in para 4 above should be contacted immediately and technical assistance initiated as soon as possible or convenient with USAID/Zaire.
15. Appreciate your prompt attention to this matter. Good luck.

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INCOMING TELEGRAM

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PAGE 01 KINSHA 01475 0415022 4890 056247 A104459

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INFO OCT-00 AF-00 045 W

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TO SECSTATE WASHDC 1843
INFO AMEMBASSY ABIDJAN
AMEMBASSY BRAZZAVILLE

UNCLAS KINSHASA 01475

AIDAC
FOR S&T/H FOR PASS TO WASH. TELE. NO. (703) 243-8200

E. O. 12356 N/A
SUBJECT: TDY OF WASH CONSULTANT DAVID GOFF TO ANNUAL -
HEALTH CONFERENCE OF BASIC RURAL HEALTH, 660-0086

1. ANNUAL HEALTH CONFERENCE OF BASIC RURAL HEALTH PROJECT 660-0086. TO BE HELD MARCH 14-19, 1983 IN KINSHASA. PARTICIPANTS TO INCLUDE 35 MEDICAL DIRECTORS AND 30 HEALTH TRAINERS OF THE 35 RURAL HEALTH ZONES (RHZ) INCLUDED IN PHASE I AND II OF PROJECT. FOCUS OF CONFERENCE IS DISCUSSION AND PLANNING OF TRAINING STRATEGIES FOR PRIMARY HEALTH CARE WORKERS, I. E., NURSES, VILLAGE HEALTH WORKERS (VHW), AND TRADITIONAL BIRTH ATTENDANTS (TBA).

2. MISSION REQUESTS TDY MAR. 15-26 FOR WASH CONSULTANT DAVID GOFF AT THIS CONFERENCE TO PROVIDE INPUT FOR THE VHW WORKSHOP. SCOPE OF WORK TO INCLUDE:

- (A) DISCUSS WITH PARTICIPANTS THEIR NEEDS FOR SPRING CAPPING, RAIN WATER HARVESTING AND WELLS CONSTRUCTION AS PART OF THEIR RHZ PROGRAM;
(B) PRESENT/DISCUSS TRAINING STRATEGIES TO MEET THE ASSESSED NEEDS OF EACH RHZ;
(C) PLAN REGIONAL WATER RELATED SEMINARS FOR 1983-84;
(D) IDENTIFY AND PLAN WITH TWO RHZS FOR RAINWATER HARVESTING SEMINARS PROPOSED FOR JULY-AUGUST IN COLLABORATION WITH WASH ASSISTANCE.

MISSION CITES GOFF'S RECENT EXPERIENCE IN CONDUCTING AND ORGANIZING WATER RELATED SEMINARS IN ZAIRE FOR THE BRH PROJECT AS RATIONALE FOR REQUESTING THIS PARTICULAR CONSULTANT. IT IS ALSO NOTED THAT GOFF PLANS TO BE IN TOGO FOR FEB. 17 - MARCH 13 FOR TRAINING ACTIVITIES AND WOULD BE ABLE TO ADD ZAIRE TO HIS ITINERARY AT LITTLE ADDITIONAL COST. MISSION PLEASED WITH WASH RESPONSIVENESS TO NEEDS OF BRH PROJECT AND ENCOURAGES CONTINUED COLLABORATION. PLEASE ADVISE. CONSTABLE

Mc Junkin
Austin
WITTEN
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RECEIVED S/T/H/WS (WEHMAN) 2-8-83
Passed to WASH 2-8-83

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OTD #142

March 3, 1983

Public Health Education for Low-Cost Sanitation - Tanzania

AID/Tanzania requested WASH to provide a public health educator to assist the Ministry of Lands, Housing and Urban Development (ARDHI) in preparing strategy outlines for health education and promotion in low-cost sanitation for peri-urban areas of Dar es Salaam. The consultant will work with the low-cost sanitation unit, the Institute of Adult Education, the City Council, and other organizations. The scope of work for the strategy outline includes defining objectives; determining personnel and logistic requirements and methods of operation and promotion; identifying teaching/promotion aids needed; designing the monitoring and evaluation process; and estimating program costs.

For further information, contact Mr. C. Hafner.

Up to thirty-two person days of effort, twenty-six international/domestic per diem days and one international air round trip are authorized over a four month period. Local travel up to \$750 and up to \$450 per local secretarial, graphics or reproduction services are also authorized.

JEB/CIC  
3/31/83

250

WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 142  
March 3, 1983

WASH PROJECT  
MAR 04 1983

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

FROM: Mr. Victor W. R. Wehman Jr., P.E., R.S. *[Signature]*  
AID WASH Project Manager  
AID/S&T/H/WS

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

- REFERENCES:
- A) WASH Telex No 609, dated 2 Mar 83
  - B) Dar Es Salaam 01256, dated 25 Feb 83
  - C) Dar Es Salaam Telex No 0714, dated 25 Feb 83
  - D) WASH Telex No. 547, dated 17 Feb 83
  - E) Dar Es Salaam 00988, dated 14 Feb 83
  - F) Dar Es Salaam 07949, dated 23 Dec 82
  - G) Letter Kalundwa (USAID/Tanzania) to AID/W WASH Office, dated 6 Jan 83
  - H) Letter Minja (Principal Secretary--Ministry of Lands, Housing and Urban Development--The United Republic of Tanzania) to The Director, USAID/Tanzania dated 12 Oct 1982 entitled "Request for Technical Assistance Consultant Health Educator Low Cost Sanitation"

1. WASH contractor requested to provide technical assistance to USAID/Tanzania as per Ref. F, para 2 and Ref. H.
2. WASH contractor/subcontractor/consultants authorized to expend up to 32 person days of effort over a four (4) month period to accomplish this technical assistance effort.
3. WASH contractor authorized to expend up to 26 person days of international/domestic per diem to accomplish this effort.
4. Contractor to coordinate with AFR/TR/HN (J. Shepperd), AFR/TR/ENG (J. Snead), Tanzania desk Officer and should provide copies of this OTD along with ETA and periodic progress reports as requested by AFR Bureau and S&T/H/WS staff.
5. Contractor authorized to provide up to one (1) international round trip from consultants home-base through Washington (for briefings) to Dar Es Salaam, Tanzania and return to consultants home base through Washington D.C. (for debriefing and reports) during life of this OTD.

6. Contractor authorized local travel in and around Dar Es Salaam as necessary and appropriate to accomplish this technical assistance effort NTE \$ 750 without the prior written approval of the AID WASH Project Manager.
7. Contractor authorized to obtain local secretarial, graphics or reproduction services in Tanzania as necessary and appropriate to accomplish tasks NTE \$ 450 without the prior written approval of the AID WASH Project Manager. USAID/Tanzania expected to support WASH consultants activity to maximum extent possible and appropriate using available USAID/Tanzania resources. These services are in addition to the level of effort specified in para 2 and 3 above.
8. Contractor authorized to provide for car rental or taxi rental if necessary to facilitate effort. Mission and/or GOT Ministry requested to provide vehicle support for consultant if available and appropriate.
9. WASH contractor will adhere to normal established administrative and financial controls as established for WASH mechanism in WASH contract.
10. WASH contractor should definitely be prepared to administratively or technically backstop field consultants and subcontractors.
11. New procedures involving subcontractor cost estimates and justification of selection of consultants remains in effect.
12. Contractor to report on technical assistance effort. Consultant to provide coordinated draft report to USAID/Tanzania and appropriate GOT Ministries/Agencies before leaving Tanzania. Final report due to USAID/Tanzania and S&T/H/WS within 30 days of return of consultant to the U.S. Final report and coordinated draft report to be prepared in English, single-spaced.
13. USAID/Tanzania and other coordination points identified in para 4 above should be contacted immediately and technical assistance initiated as soon as possible or convenient to USAID/Tanzania.
14. Appreciate your prompt attention to this matter. Good luck.

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Western Union International,

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41250 AMEMB DAR

TO: USAID/DAR ES SALAAM

PLS PASS TO PAUL EHMER, HEALTH OFFICER

FROM: ST/H/WS AND C. HAFNER/WASH

SUBJECT: PUBLIC HEALTH EDUCATOR ASSISTANCE

REFTEL: DAR ES SALAAM 07949, 00988, 01256

WASH TELEX 609

1. FOLLOWING DISCUSSIONS WITH WASH, ST/H/WS HAS AUTHORIZED THE WASH PROJECT TO PROVIDE A PUBLIC HEALTH EDUCATOR TO ASSIST THE MISSION AND GOT TO PREPARE A STRATEGY OUTLINE FOR A HEALTH EDUCATION AND PROMOTION CAMPAIGN WITHIN THE DAR ES SALAAM LOW COST SANITATION PROJECT FOR UP TO 3 WEEKS SO THAT THE WORK CAN BEGIN ASAP BUT NLT MAR.15 AND BE COMPLETED BY APR.1. WASH HAS, AS YOU KNOW, IDENTIFIED DR. JOHN HATCH OF UNC TO UNDERTAKE THIS TASK. HIS ETA/DAR IS TENTATIVELY SCHEDULED FOR MAR.15, SUBJECT TO MISSION CABLED APPROVAL OF HIM.

2. NEITHER ST/H/WS NOR WASH HAS RECEIVED THE 'PROJECT PROPOSAL' TO DATE MENTIONED IN DAR ES SALAAM 00988, PARA NO.2.

3. RE: PROPOSED PUBLIC HEALTH ENGINEER, THE WASH PROJECT MANDATE DOES NOT ALLOW FOR ASSISTANCE OF 6-9 MONTHS DURATION. WOULD SUGGEST THAT MISSION CONSULT WITH WORLD BANK TAG PROJECT FOR POSSIBLE ASSISTANCE ON THIS MATTER. JA

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PAGE 01 ACTION AID-00 DAR ES 01256 251131Z 3360 072190 AID3732

ACTION OFFICE STHE-01  
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TO SECSTATE WASHDC PRIORITY 9923

UNCLAS DAR ES SALAAM 01256

AIDAC

AID/W FOR ST/HEA/WS WEHMAN

E. O. 12356: N/A

SUBJ: REQUEST FOR TECHNICAL ASSISTANCE  
- IN HEALTH EDUCATION WASH

REF: A) DAR 7949 (82)  
- B) DAR 988

MISSION RECEIVED TELEX FROM WASH 18 FEB REQUESTING DATES FOR SUBJECT CONSULTANT. ARDHI INDICATED THEY REQUIRE CONSULTANT WEEK OF 13 MARCH FOR 2-3 WEEKS. BEFORE RESPONDING TO WASH TELEX MISSION RECEIVED PHONE CALL FROM OKUN IN NAIROBI ON 24 FEB WITH INQUIRY ABOUT DATES FOR CONSULTANT. OKUN INDICATED THAT JOHN HATEH HAD TENTATIVELY BEEN IDENTIFIED AS THE CONSULTANT, BUT THAT HE WOULD NOT BE AVAILABLE UNTIL MID APRIL. HATEH IS PROFESSOR OF HILDA VAN AT NORTH CAROLINA. HILDA IS ARDHI EMPLOYEE DOING TRAINING IN HEALTH EDUCATION. SHE WILL RETURN TO TANZANIA AT THE END OF THIS YEAR. WASH HAD PROPOSED HATEH INVOLVEMENT BECAUSE OF POSSIBLE PRE AND POST VISIT FOLLOW UP WITH HILDA, SINCE SHE WILL RETURN TO WORK ON IMPLEMENTATION OF THE HEALTH EDUCATION PROGRAM. MISSION AND ARDHI AGREE WITH THIS IN PRINCIPAL, BUT ARDHI INDICATES TIME PRESSURES DICTATE EARLIER ARRIVAL OF CONSULTANT. THEREFORE, MISSION REQUESTS WASH IDENTIFY ANOTHER INDIVIDUAL WHO COULD COME EARLIER AS INDICATED ABOVE. PLEASE ADVISE NAME, BIODATA, AND ETA. ASAP. MILLER

McJunkin  
Austin  
Wiffen  
WEHMAN JWB

Received ST/H/WS (Wehman) 2-25-83  
Passed to WASH 2-25-83

UNCLASSIFIED

254

V. W2hva

C-360

0714 02/25#  
WASHAID 64552

41591 USAID

SUBJECT: PUBLIC HEALTH EDUCATION FOR LOW COST SANITATION PROJECT

REF : A) YOUR TELEX NO. 547  
B) DAR 7949

1. ARDHI CONTACTED FOR DATES . THEY INDICATE WEEK OF 13 MARCH FOR 2-3 WEEKS MOST APPROPRIATE. MISSION RECEIVED PHONE CALL FROM OKUN IN NAIROBI WITH INFO THAT BRISCOE HAD IDENTIFIED JOHNN HATCH OF UNC AS CONSULTANT, BUT HE WOULDN'T BE AVAILABLE UNTIL MID APRIL. HATCH CONNECTION WITH HILDA VAN, ARDHI STUDENT IN H.ED. AT UNC GOOD. BUT ARDHI INDICATES TIMING REQUIRES EARLIER ARRIVAL IF POSSIBLE AS NOTED ABOVE. THEY WERE INFORMED OF ADVANTAGES OF HATCH, BUT STILL PREFER EARLIER ARRIVAL. PLEASE ADVISE NOMINEE, ETA ASAP SO ACCOMODATION ARRANGEMENTS CAN BE MADE.

NN#  
WASHAID 64552

41591 USAID.  
VIA WUI

International Telex  
International, Inc.

253  
Inte

Welman  
C-360

WUI GA  
97541250#  
WASHAID 64552

0154319 0916 02/17

41250 AMEMB DAR

OUR TELEX NO. 547

TO: PAUL EHNER, USAID/DAR-ES-SALAAM

FROM: R.B. ISELY, WASH PROJECT

RE: PUB HEALTH ED FOR LOW COST SANITATION PROJECT (REFTEL  
DAR-ES-SALAAM 07949)

PLEASE LET ME KNOW SOON EXPECTED DATES FOR CONSULTANT.  
WE HAVE IDENTIFIED SEVERAL POTENTIAL PERSONS BUT CANNOT MAKE  
SELECTION BASED ON AVAILABILITY UNTIL DATES OF CONSULTANT ARE  
SET. APPRECIATE YOUR MULTIPLE PREOCCUPATIONS SO SHORT ANSWER  
WILL DO. THANKS. J#

41250 AMEMB DAR.....  
001.6 MIN

International Telex

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ACTION  
COPY

UNCLASSIFIED  
Department of State

INCOMING  
TELEGRAM

WASH  
Prog.  
Dir.

PAGE 01  
ACTION AID-00

DAR ES 00988 141202Z

9059 063389 AID4344

ACTION OFFICE STHE-01  
INFO AFEA-03 AFOR-06 SAST-01 AFDA-01 RELO-01 STHP-01 MAST-01  
/015 A4 715

INFO OCT-00 AF-00 /045 W

R 141155Z FEB 83  
FM AMEMBASSY DAR ES SALAAM  
TO SECSTATE WASHDC 9755

UNCLAS DAR ES SALAAM 00988

AIDAC

AID/WASH. FOR ST/HEA/WS, WEHMAN

E. O. 12356: N/A

SUBJ: TANGOV REQUEST FOR TECHNICAL ASSISTANCE IN  
HEALTH EDUCATION

REF: DAR 7949

1. MISSION RELAYED SUBJECT REQUEST VIA REFTEL 12/22/82 WHILE HEALTH OFFICER ON LEAVE. EHMER DISCUSSIONS WITH WASH AND ST/HEA DURING TOY IN JANUARY INDICATED POSITIVE RESPONSE TO REQUEST, BUT MISSION HAS RECEIVED NO WORD SINCE THEN. ARDHI MINISTRY, WHICH MADE THE REQUEST HAS CONTACTED MISSION WITH FURTHER INFORMATION REGARDING START UP ACTIVITIES OF WORLD BANK SUPPORTED DAR ES SALAAM SEWERAGE AND SANITATION PROJECT, WHICH PROPOSED CONSULTANT WOULD BE INVOLVED WITH. GOT EXPECTS MONEY TO BE AVAILABLE O/A APRIL 1 FOR THE DAR ES SALAAM PROJECT. ARDHI WOULD LIKE TO INITIAL VISIT OF CONSULTANT TO TAKE PLACE AS SOON AS POSSIBLE SO INITIAL PLANNING FOR HEALTH EDUCATION CAMPAIGN COULD BE COMPLETED PRIOR TO APRIL 1 AVAILABILITY OF FUNDS FOR IMPLEMENTATION UNDER WORLD BANK PROJECT;

2. PROJECT PROPOSAL POUCHED TO WASH OFFICE JAN 6. PLEASE INDICATE WHETHER PROPOSAL RECEIVED AND WHETHER WASH CAN PROVIDE CONSULTANT AS OUTLINED IN PROPOSAL AND REFTEL PAR 2.  
MILLER

McJunkin  
Austin  
Witten  
~~WEHMAN~~  
JWH

Received ST/H/WS (Wehman) 2-17-83  
Passed to WASH 2-17-83

UNCLASSIFIED

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Department of State

INCOMING  
TELEGRAM

PAGE 01 DAR ES 07949 231614Z

2620 021895 AID3785

DAR ES 07949 231614Z

2602 021895 AID6

ACTION AID-00

GOT'S REQUEST.

MILLER

ACTION OFFICE AFEA-03

INFO AAAF-02 AFDR-06 PPCE-01 PDPR-01 PPPB-03 CMGT-02 STHE-01  
SAST-01 ENGR-01 MHS-09 AFDA-01 STEN-01 RELO-01 STHP-01  
DAEN-01 MAST-01 /036 A4 827

INFO OCT-00 INR-10 AF-00 EB-00 /063 V

-----306246 231958Z /30

R 231438Z DEC 82

FM AMEMBASSY DAR ES SALAAM  
TO SECSTATE WASHDC 9078

UNCLAS DAR ES SALAAM 07949

AIDAC

E.O. 12356: N/A

SUBJ: TANGOV REQUEST FOR TECHNICAL ASSISTANCE IN HEALTH  
- EDUCATION AND PUBLIC HEALTH ENGINEERING

1. USAID HAS BEEN ASKED BY GOT TO PROVIDE A HEALTH EDUCATOR AND A PUBLIC HEALTH ENGINEER FOR TECHNICAL ASSISTANCE TO THE MINISTRY OF LANDS, HOUSING AND URBAN DEVELOPMENT (ARDHI). THESE REQUESTS HAVE GROWN OUT OF THE WASH INITIATIVE AND AS A RESULT OF THE RECOMMENDATIONS OF THE ENVIRONMENTAL SANITATION MASTER PLAN FOR TRAINING AND EDUCATION IN TANZANIA.

2. A HEALTH EDUCATOR IS NEEDED TO WORK WITH THE LOW COST SANITATION UNIT OF ARDHI TO PREPARE STRATEGY OUTLINES FOR A HEALTH EDUCATION AND PROMOTION CAMPAIGN WHICH WILL COMPLEMENT THE LOW COST SANITATION PROGRAM OF THE DAR-ES-SALAAM SEWAGE AND SANITATION PROJECT. THIS CONSULTANT (HEALTH EDUCATOR) SHOULD HAVE PRACTICAL EXPERIENCE IN DEVELOPING COUNTRIES IN THE WATER AND SANITATION SECTOR, ESPECIALLY IN COMMUNITY BASED PROJECTS. HE/SHE IS ENVISAGED AS HAVING A MEDICAL OR SOCIAL SCIENCE BACKGROUND. THE CONSULTANT WILL WORK TOGETHER WITH THE LOW COST SANITATION UNIT AND THE INSTITUTE OF ADULT EDUCATION, DAR ES SALAAM CITY COUNCIL, AND OTHER RELEVANT BODIES TO FORMULATE AN APPROPRIATE STRATEGY FOR THE HEALTH EDUCATION CAMPAIGN IN SUPPORT OF THE SANITATION PROMOTION CAMPAIGN. THE STRATEGY WILL OUTLINE THE PERSONNEL AND LOGISTICS SUPPORT REQUIRED, THE METHODS OF OPERATION, PHYSICAL PROGRAM, ANY TEACHING/PROMOTION AIDS REQUIRED, THE PROCESS OF MONITORING AND EVALUATION, AND THE ESTIMATED COSTS. THE CONSULTANT WILL INITIALLY WORK IN TANZANIA FOR APPROXIMATELY FOUR TO SIX WEEKS AND WILL BE REQUIRED FOR TWO FURTHER SUPPORT VISITS OF THREE WEEKS EACH DURING THE FOLLOWING EIGHTEEN MONTHS.

3. A PUBLIC HEALTH ENGINEER IS REQUIRED TO WORK IN THE SEWERAGE DIVISION OF ARDHI FOR BETWEEN SIX AND NINE MONTHS TO DESIGN STANDARD SPECIFICATIONS FOR SEWERAGE, SEWAGE TREATMENT AND SANITATION PROJECTS; TO DESIGN STANDARD CONTRACT DOCUMENTS; TO DRAW UP STANDARD TERMS OF REFERENCE AND AGREEMENTS FOR CONSULTING ENGINEERS TO BE EMPLOYED BY THE DIVISION; TO DEVELOP A STANDARD DESIGN PROCEDURE MANUAL FOR USE BY THE DIVISION STAFF; AND TO PREPARE A STANDARD MANUAL OF OPERATIONS AND MAINTENANCE OF SEWERAGE AND SEWAGE TREATMENT WORKS. THIS CONSULTANT SHOULD BE THOROUGHLY EXPERIENCED IN DESIGN PREPARATION OF CONTRACT DOCUMENTS AND SPECIFICATION FOR WORKS OF SEWERAGE, SEWAGE TREATMENT AND SANITATION, ESPECIALLY IN DEVELOPING COUNTRIES, AND PREFERABLY IN EAST AFRICA.

4. PLEASE ADVISE WHETHER FUNDING FOR THIS TECHNICAL ASSISTANCE IS AVAILABLE UNDER WASH OR OTHER MECHANISM AND WHAT THE POSSIBILITIES ARE OF RESPONDING POSITIVELY TO

UNCLASSIFIED

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UNITED STATES OF AMERICA  
AGENCY FOR INTERNATIONAL DEVELOPMENT

P. O. Box 9130,  
Dar es Salaam, Tanzania

January 6, 1983

Water & Sanitation for Health Project Office  
AID/Washington

Dear Sir,

I hope by now you have received our Dar Es Salaam 9078 sent to you recently concerning a Tanzania Government request for technical assistance in Public Health Engineering and Health Education.

Herewith we send you by pouch the original copies of the request for technical assistance from the Tanzania Government.

Yours sincerely,

Edward A. Kalundwa  
Health, Nutrition &  
Population Office

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## PROJECT PROPOSAL

### Short Term Consultancy

A Health Educator to work with the Low Cost Sanitation Unit in the Ministry of Lands Housing & Urban Development (Ardhi), to prepare a proposal for a Health Education and Promotion Campaign which will be part of the Low Cost Sanitation Programme of the Dar es Salaam Sewerage and Sanitation Project.

### Background

Dar es Salaam the Principal City of Tanzania has a population of approximately One Million, and for over 80% of this population the only possible sanitary facility is a self constructed pit latrine, for the remaining population who have access to water borne sanitation the situation is little better, the sewerage system having fallen into disrepair over the years.

In order to remedy this situation Ardhi Ministry as agents for Dar es Salaam City Council have commissioned the preparation of a major project which has three main components.

1. The rehabilitation of the Central Water Borne Sewerage system
2. The establishment of a functional sewerage and sanitation department in the City Council
- and 3. . Low Cost Sanitation Programme for the peri urban areas.

This project is well advanced in the design stage and is awaiting final approval by the World Bank before phase one implementation takes place.

### The Low Cost Sanitation Programme

The Government is aware that because of financial and other constraints the only possible immediate solution to the sanitation problems in the peri urban areas is a low cost technology that is self financed by the recipients.

26/5

The Government is also aware that an improvement of the health profile of the poor urban dwellers will not be achieved solely by providing adequate sanitary facilities and that an educational process is required to bring about social and behavioural change.

Archi will commission the Institute of Adult Education to design the promotional and health education campaign that will reinforce the sanitation programme.

The Institute of Adult Education has had great experience in various national education programmes however their experience in the sanitation and water sector is less extensive, the consultant would provide specific expertise in this field.

#### The Consultant

Should be health Educator with practical experience in developing countries in the water and sanitation sector especially in community based project. He/She is envisaged to have a medical or social science background.

#### Duties

The Consultant would work together with the Low Cost Sanitation Unit in Archdiocese <sup>Ministry</sup> and the Institute of Adult Education, Dar es Salaam City Council and other relevant bodies such as the Health Education Unit to formulate an appropriate strategy for the sanitation promotion campaign and the related health education campaign.

The strategy would outline the personnel and logistics support required, the methods of operation and physical programme, any teaching/promotion aids that would be required, the process of monitoring and evaluation and estimate costs.

#### Duration

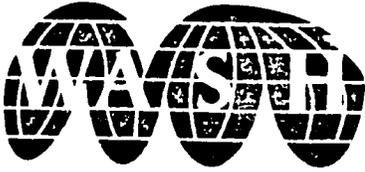
TANZANIA - Health Educator

To work with the Low Cost Sanitation Unit (LCSU) of the Ministry of ARDHI to prepare strategy outlines for a health education promotional campaign. This effort will complement the Low Cost Sanitation Program of the Dar es Salaam Sewerage and Sanitation Project.

Specifically, the consultant will:

- 1). Work with the LCSU and the Institute of Adult Education, the Dar es Salaam City Council and other relevant bodies
- 2). Prepare a strategy which outlines the
  - methods of operation
  - the desired behavior changes to occur
  - the activities for such behavior changes for home to home, community and mass media approaches
  - teaching/promotion aids required
  - the process of monitoring and evaluation
  - estimated costs
  - logistical support required
- 3). Prepare a draft report for AID/Dar es Salaam to be left in the field and for WASH.

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OTD #144

March 7, 1983

Design and Delivery of Three Training-of-Trainers Workshops  
on Community Participation in Water Supply Projects - Malawi

AID/Malawi requested WASH technical assistance in the design and delivery of a training-of-trainers workshop and three three-week-long workshops on community participation in relation to the AID piped water project. Sixty-five Ministry of Health field staff need to be trained in providing health education and sanitation improvements in rural piped water supply areas. Workshop topics include the communication process, adult learning theory, community motivation methods, shared approaches to developing problem-oriented learning programs, community education techniques and materials, and village health committee formation, functions, administration and supervision.

For further information, contact Mr. C. Hafner.

Up to eighty-four person days of effort, eighty four days of international/ domestic per diem and one international air round trip are authorized over a five month period. Local travel up to \$900 and up to \$1,900 for secretarial, graphics, reproduction or miscellaneous services in Malawi or the WASH CIC are also authorized.

JFB/CIC  
3/31/83

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WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 144  
March 7, 1983

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

FROM: Mr. Victor W.R. Wehman Jr., P.E., R.S. AID  
AID WASH Project Manager  
AID/S&T/H/WS

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

REFERENCES: A) Lilongwe 00399, dated 2 Feb 1983  
B) Government of Malawi Request for Assistance

1. WASH contractor requested to provide technical assistance to USAID/Malawi as per Ref A., para 1-6 with exception that one (1) consultant rather than the Two (2) requested will perform the services.
2. WASH contractor/subcontractor/consultants authorized to expend up to 84 person days of effort over a five (5) month period to accomplish this technical assistance effort.
3. Contractor authorized to expend up to 84 person days of international and/or domestic per diem to accomplish this effort.
4. Contractor to coordinate with AFR/DR/HM (J. Shepperd), AFR/DR/ENG (J. Snead), Malawi Desk Officer and USAID/FC/Malawi and should provide copies of this OTD along with any ETA information, or interim reports as may be requested by S&T/H/WS, AFR/DR or USAID staff.
5. Contractor authorized to provide up to one (1) international round trip from consultants home base through Washington D.C. (for briefing and preparation) to Malawi and return to consultants home base through Washington D.C. during life of this OTD.
6. Contractor authorized local travel for consultants in Malawi NTE \$900 without the written approval of the AID WASH Project Manager.
7. Contractor authorized to obtain secretarial, graphics or reproduction or piecework assistance ( miscellaneous) services in Malawi or WASH CIC as necessary and appropriate to accomplish tasks. These services are in addition to the level of effort specified in para 2 and 3 above and NTE \$1900 without the prior written approval of the AID WASH Project Manager.

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8. Contractor authorized to provide for car or vehicle (s) rental as necessary and appropriate to facilitate effort. USAID/Malawi and PC/Malawi and Government of Malawi strongly encouraged to provide vehicle support for workshops if at all possible and if available and appropriate.
9. WASH contractor will adhere to normal established administrative and financial controls as established for WASH mechanism in WASH contract.
10. WASH contractor should definitely be prepared to administratively or technically backstop field consultants and subcontractors.
11. Contractor report on overall progress of activity to be made in writing in the field after conclusion of effort. A draft coordinated report in English is to be left at USAID/Malawi. Final report due to S&T/H within 30 days of return of consultants to the U.S. Final report to be in English and will be edited and printed by WASH CIC.
12. New procedures regarding subcontractor cost estimates and justification for subcontractor/consultants remain in effect.
13. USAID/Malawi, PC/Malawi and persons identified in para 4 above should be contacted immediately and technical assistance initiated as soon as possible.
14. Appreciate your prompt attention to this matter. Good luck.

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INCOMING TELEGRAM

PAGE 01 LILONGWE 00199 021751Z 2401 051093 AID1657

LILONGWE 00349 021757Z

2401 051093 AID1657

ACTION AID-00

12 WEEKS, ETD-MAY 20. IF 2 CONSULTANTS NOT AVAILABLE FOR FULL 12 WEEKS, SUGGEST LEAD TRAINER BE AVAILABLE FOR FIRST 6 WEEKS MARCH 7-APRIL 16 AND SECOND TRAINER BE AVAILABLE THROUGHOUT

ACTION OFFICE LINE-21  
INFO AFSA-01 AFSA-01 AFOR 00 UNIT 01 AIDM-01 PELO-01 CIHP 01  
IACT-01 /016 AA 703

(A) CONSULTANT QUALIFICATIONS: HAVE DESIGNED AND IMPLEMENTED AT LEAST 2 TRAINING OF TRAINER WORKSHOPS FOR DEVELOPMENT COUNTRY PERSONNEL; EXPERIENCED IN TRAINING COMMUNITY DEVELOPMENT METHODS; COMMUNICATIONS; AND BASIC GROUP FACILITATION; HAVE DESIGNED AND LED AT LEAST TWO WORKSHOPS ON ADULT LEARNING THEORY USING EXPERIENTIAL LEARNING MODEL. PREFER BUT NOT REQUIRED-PREVIOUS AFRICA RURAL LIVING AND TRAINING EXPERIENCE UNDER DIFFICULT CONDITIONS, AND EXPERIENCED WITH METHODS USED IN DAVID WARNER'S BOOK QUOTE HELPING HEALTH WORKERS LEARN UNQUOTE.

INFO CC-PO AF-00 /345 V  
-----250456 021334Z /38

(B) SCOPE OF WORK. WORK CLOSELY WITH AND BE RESPONSIBLE TO MCH, PUBLIC HEALTH COORDINATOR, AND RURAL HEALTH SUPERVISOR STAFF. WITH PRINCIPAL HEALTH COORDINATOR AND STAFF, DESIGN AND IMPLEMENT THREE WORKSHOPS FOR MA AND HSA; PREPARE A WORKSHOP DESIGN FOR FUTURE MCH USE; AND MAKE RECOMMENDATIONS AND ASSIST IN PLANS FOR FUTURE MCH SKILL TRAINING.

9 021249Z FEB 83  
FM AMEMBASSY LILONGWE  
TO SECSTATE WASHDC 9798  
INFO AMEMBASSY NAIROBI

6. EXPECTED END RESULTS: (A) 65 MALAWI RURAL PUBLIC HEALTH WORKERS SKILLED IN IMPROVED METHODS OF COMMUNICATING, MOTIVATING AND ASSISTING VILLAGE HEALTH COMMITTEES TO ORGANIZE AND SOLVE THEIR OWN ENVIRONMENTAL HEALTH PROBLEMS; (B) DRAFT DESIGN FOR 2 WEEK WORKSHOPS TO BE MODEL FOR MCH AND DEPT OF LANDS, VALUATION AND WATER IN TRAINING STAFF IN INTERACTING AND MOTIVATING VILLAGE COMMITTEES; AND (C) 15 RURAL HEALTH SUPERVISING STAFF SKILLED IN FIELD WORKER TRAINING TECHNIQUES.  
BURROUGHS

UNCLAS LILONGWE 359

AIDAC

FOR ST/NEA AND AFR/SA, NAIROBI FOR REGSO

E.O. 12356: N/A

SUBJECT: ASSISTANCE FROM WASH PROJECT

REF: (A) 02 STATE 353524

1. VISIT TO MALAWI OF WASH PROJECT REPRESENTATIVE CRAIG HAFNER WAS PRODUCTIVE. HAFNER HAD SERIES OF MEETINGS WITH DEPARTMENT OF LANDS, VALUATION AND WATER, MINISTRY OF HEALTH AND UNIVERSITY OF MALAWI TO EXPLAIN WASH PROJECT AND IDENTIFY POTENTIAL AREAS FOR FUTURE WASH SUPPORT

2. HAFNER VISIT HAS GENERATED FOLLOWING PENDING REQUEST FOR WASH TECHNICAL ASSISTANCE FROM GOM: TWO TRAINING CONSULTANTS TO DESIGN AND IMPLEMENT THREE WORKSHOPS (TWO WEEKS EACH) FOR UP TO 65 MINISTRY OF HEALTH FIELD STAFF PROVIDING HEALTH EDUCATION AND SANITATION IMPROVEMENTS IN RURAL PIPED WATER PROJECT AREAS. TENTATIVE WORKSHOP DATES ARE:  
MARCH 21-31 IN ZOMBA FOR 25 PARTICIPANTS;  
APRIL 11-22 IN ZOMBA FOR 20 PARTICIPANTS; AND  
MAY 2-13 IN MARCHONGA FOR 20 PARTICIPANTS.

3. PROPOSED TOPICS FOR WORKSHOP INCLUDE: COMMUNICATIONS PROCESS, ADULT LEARNING THEORY, COMMUNITY MOTIVATION METHODS, DESIGNING AND IMPLEMENTING LEARNING ACTIVITIES, SHARED APPROACH TO DEVELOPING A PROBLEM-ORIENTED LEARNING PROGRAM, COMMUNITY EDUCATION TECHNIQUES AND MATERIALS, AND VILLAGE HEALTH COMMITTEE FORMATION, FUNCTIONS AND CHARACTERISTICS. IN ADDITION, PROJECT SPECIFIC INFORMATION-SUCH AS PROCEDURE SUPERVISION AND ADMINISTRATION WILL BE COVERED.

4. PARTICIPANTS: APPROXIMATELY 15 HEALTH ASSISTANTS (HA) AND 50 HEALTH SURVEILLANCE ASSISTANTS (HSA); VARYING IN AGE FROM MID 20'S TO MIDS 50'S WITH EDUCATION RANGING FROM 6 YEARS OF PRIMARY SCHOOL TO HIGH SCHOOL DIPLOMA LEVEL. ALL CAN READ AND WRITE ENGLISH WITH DIFFERING DEGREES OF PROFICIENCY. PAST TRAINING EXPERIENCE RANGING FROM ONLY ON THE JOB TO 2 YEARS HEALTH ASSISTANCE COURSE. MOST HAVE CONSIDERABLE EXPERIENCE IN COMMUNITY OUTREACH WORK, BUT LITTLE FORMAL OR PARTICIPATORY TRAINING EXPERIENCE.

5. CONSULTANTS: PROPOSED ETA-MARCH 7 FOR

McJunkin  
Austin  
Witten  
WETTMAN UWW

RECEIVED ST/H/WS (WETTMAN) 2-7-83  
PASSED TO WASH 2-8-83

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OTD #145

March 7, 1983

Assistance in Evaluation of Rural Supply Project - Togo

AID/Togo requested WASH assistance as member of a team to evaluate the Rural Water Supply Project. The over-all evaluation will assess the effectiveness of the establishment and functioning of wells, village health committees, AID and Togo government project staff, and of pump maintenance systems; and the effectiveness of training village pump mechanics and of micro-project planning in the plateau region. The WASH consultant will specifically address training effectiveness and relationships between villagers and field agents, will identify problems encountered in carrying out project activities at the village level, and will suggest possible solutions.

For further information, contact Dr. R. Isely.

Up to twenty-two person days of effort, twenty days of international/domestic per diem and one international air round trip are authorized over a three month period. Local travel up to \$700 and up to \$600 for secretarial, graphics and reproduction services are also authorized.

JEB/CIC  
3/31/83

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WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 145  
March 7, 1983

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

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

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

REFERENCES: A) Lome 00886, dated 11 Feb 83  
B) Lome 00822, dated 9 Feb 83  
C) Lome 00504, dated 26 Jan 83

1. WASH contractor requested to provide technical assistance to USAID/Malawi as per Ref A., para 2-3 and Ref C para 3-5.
2. WASH contractor/subcontractor/consultants authorized to expend up to 22 person days of effort over a three (3) month period to accomplish this technical assistance effort.
3. Contractor authorized to expend up to 20 person days of international and/or domestic per diem to accomplish this effort.
4. Contractor to coordinate with AFR/DR/HN (J. Shepperd), AFR/DR/ENG (J. Snead), Togo Desk Officer and should provide copies of this OTD along with any ETA information or interim reports as may be requested by S&T/H/WS, AFR/DR or USAID staff.
5. Contractor authorized to provide up to one (1) international round trip from consultants home-base through Washington D.C. to Togo and return to consultants home base through Washington D.C. during life of this OTD.
6. Contractor authorized local travel for consultants in Togo NTE \$700 without the written approval of the AID WASH Project Manager.
7. Contractor authorized to obtain secretarial, graphics, reproduction, or piecework assistance (miscellaneous) services in Togo or WASH CIC as necessary and appropriate to accomplish tasks. These services are in addition to the level of effort specified in para 2 and 3 above and NTE \$600 without the prior written approval of the AID WASH Project Manager.
8. Contractor authorized to provide for car or vehicle(s) rental as necessary and appropriate to facilitate effort. USAID/TOGO and Government of Togo strongly encouraged to provide vehicle support for evaluation activities if at all possible and appropriate.

WASH PROJECT  
MAR 08 1983

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(2)

9. WASH contractor will adhere to normal established administrative and financial controls as established for WASH mechanism in WASH contract.
10. WASH contractor should definitely be prepared to administratively or technically backstop field consultants and subcontractors.
11. Contractor report on overall activity to be made in writing in the field to USAID Evaluation coordinator and/or Project Paper Amendment Coordinator. Technical input to USAID documents will constitute report requirements under this OTD. No other formal WASH final field report will be prepared or printed by WASH CIC.
12. New procedures regarding subcontractor cost estimates and justification for subcontractor/consultants remain in effect.
13. USAID/Togo and persons identified in para 4 above should be contacted immediately and technical assistance initiated as soon as possible.
14. Appreciate your prompt attention to this matter. Good luck.

*ASH*  
*MA*  
*DIR*  
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Department of State C

INCOMING TELEGRAM

PAGE 01 LOME 00886 110800Z 3400 062121 AID3052

ACTION OFFICE STHP-01  
INFO AAAF-02 AFCW-03 AFOP-06 AFOR-06 PFCE-01 PDPR-01 PPPB-03  
SAST-01 ENGR-01 AFDA-01 STEN-01 RELO-01 STHP-01 MAST-01  
/030 AI 1114

INFO OCT-00 AF-00 /045 W -----342161 111132Z /38

R 110800Z FEB 93  
FM AMEMBASSY LOME  
TO SECSTATE WASHDC 7492

*Wehman*

UNCLAS LOME 00886

AIDAC

S&T/H/WS FOR WEHMAN  
PLS PASS WASH FOR ISELY

E. O. 12356: N/A  
SUBJECT: TOGO RURAL WATER: 693-0210 - WASH ASSISTANCE

*McJunkin*

*Austin*

*Wiffen*

~~*WEHMAN*~~  
*UWW*

REF: LOME 504

1. AID TEAM FOR SUBJECT PROJECT EVALUATION AND PROJECT PAPER REVIEW IS COMPOSED OF THE FOLLOWING:

- A) DR. DARLENE BISSON, SOCIOLOGIST, REDSO
- B) JOHN CLOUTIER, PROJECT DEVELOPMENT OFFICER, REDSO
- C) SARAH FRY, HEALTH EDUCATION ADVISOR, PSC/OAR
- D) PAUL GUILD, PROJECT MANAGER, OAR
- E) DR. RAY ISELY, COMMUNITY HEALTH EVALUATOR/WASH
- F) DAN JENKINS, WATER ENGINEER/REDSO
- G) AGMA PRINS, PUBLIC HEALTH ADVISOR, PSC/OAR
- H) DR. RICHARD SINES, ECONOMIST/REDSO
- I) HEALTH SANITATION ADVISOR, AID/W

2. SCOPE OF WORK FOR ISELY INCLUDES THE FOLLOWING:

- A) INTERVIEW PROJECT FIELD AGENTS, VILLAGE HEALTH COMMITTEES AND VILLAGE PUMP MECHANICS TO:
  - (1) ASSESS EFFECTIVENESS OF TRAINING RECEIVED BY THEM,
  - (2) EVALUATE RELATIONSHIP BETWEEN VILLAGERS AND FIELD AGENTS,
  - (3) IDENTIFY (AND PROPOSE SOLUTIONS TO) PROBLEMS ENCOUNTERED IN CARRYING OUT PROJECT RELATED ACTIVITIES AT THE VILLAGE LEVEL;
- B) REVIEW AND MAKE RECOMMENDATIONS CONCERNING THE PLANNING AND IMPLEMENTATION PROCESS OF THE MICRO-PROJECTS INCLUDING ALTERNATE WATER SOURCES DEVELOPMENT;
- C) REVIEW AND MAKE RECOMMENDATIONS CONCERNING THE ANALYSIS OF BASE-LINE RESEARCH DATA;
- D) ASSIST IN PLANNING FIRST HEALTH EDUCATION CAMPAIGNS.

3. ALL EVALUATION PERSONNEL MUST ARRIVE LOME NLT SUNDAY, 13 MARCH. PLS ADVISE YOUR ETA. TKS. HUDSON

*RECEIVED ST/H/WS (WEHMAN) 2-16-83*  
*PASSED TO WASH 2-16-83*

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Wehman

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TO SECSTATE WASHDC 7459

UNCLAS LOME 00822

AIDAC

FOR S&T/H/WS FOR WEHMAN PLS PASS WASH FOR GOFF AND ISELY  
E. O. 12356: N/A  
SUBJECT: TOGO RURAL WATER 693-0210 SPRING CAPTATION

REF: GOFF/ISELY/FRY LETTER

1. FOR GOFF: PARTICIPANTS IN TRAINING WILL INCLUDE 20 FIELD AGENTS, 2 PROJECT MASONS AND SOME VILLAGE MASONS. LABOR FORCE WILL CONSIST OF PROJECT AND VILLAGE MASONS. PC VOLUNTEER IS CURRENTLY IDENTIFYING SPRINGS. NO MORE THAN TWO TYPES WILL BE SELECTED. NO COMMITMENTS HAVE BEEN MADE TO VILLAGES AS YET. IN TOGO SPRINGS ARE NORMALLY CAPPED WITH CONCRETE. YES, WE WOULD LIKE YOU TO SHOW ZAIRE SLIDES. SPRING CAPTATION PROJECTS BY FIELD AGENTS AFTER TRAINING WILL BE PART OF ONGOING PROJECT ACTIVITIES AND WILL BE SUPERVISED AS SUCH.

2. FOR ISELY: YES, WE WOULD LIKE TO HAVE TALC MATERIALS. AGMA WILL CALL YOU FROM EUROPE WEEK OF FEBRUARY 14. HUDSON

McJunkin  
Austin  
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RECEIVED S&T/H/WS (WEHMAN) 2-16-83  
PASSED TO WASH 2-16-83

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UNCLAS LOME 00504

AIDAC

AID/W FOR ST/H/WS FOR WEHMAN PLS PASS WASH FOR ISELY ABIDJAN FOR CLOUTIER

E. O. 12356: N/A  
SUBJECT: TOGO RURAL WATER (693-0210) WASH ASSISTANCE

REF: (A) LOME 265 (B) ISELY/PRINS TELEGRAM

1. SUBJECT PROJECT EVALUATION AND SUBSEQUENT PROJECT PAPER REVIEW DATES SET FOR MARCH 13 TO 20 APRIL 23
  2. REF (A) REQUESTS AID/W DIRECT HIRE ASSISTANCE IN PROVIDING HEALTH SANITATION ADVISOR AS TEAM MEMBER TO WORK WITH CAR PROJECT MANAGER BUILD PEDSO PROJECT OFFICER CLOUTIER AND WATER ENGINEER JEMONE CAR PROJECT PSC'S FRY AND PRINS PLUS GOT PROJ CT PERSONNEL
  3. CAR ALSO DESIRES DR. ISELY AS PART OF THIS TEAM, IF POSSIBLE. IF NOT, PLS SUGGEST ALTERNATE CANDIDATE FOR HIM. ALSO, PER REF (B), CAR CONCURS WITH ALL PROPOSED ETA DATES. THE PROJECT STAFF IS DOING ITS UTMOST TO ADVANCE CONSTRUCTION DATES TO 2 FEB.
  4. PROPOSED SCOPE OF WORK FOR PROJECT EVALUATION PER PARA 1 ABOVE IS AS FOLLOWS
    - A. 1. EFFECTIVENESS OF ESTABLISHMENT AND FUNCTIONING OF WELLS
    - 2. EFFECTIVENESS OF ESTABLISHMENT AND FUNCTIONING OF VILLAGE HEALTH COMMITTEE
    - 3. EFFECTIVENESS AND FUNCTIONING OF THE ENTIRE PROJECT STAFF BOTH AID AND GOT
    - 4. EFFECTIVENESS OF ESTABLISHMENT AND FUNCTIONING OF PUMP MAINTENANCE SYSTEM
    - 5. EFFECTIVENESS OF TRAINING OF VILLAGE PUMP MECHANICS
    - 6. EFFECTIVENESS OF MICRO PROJECT PLANNING IN THE PLATEAU REGION
    - B. PROCEDURES OUTLINES IN AID HANDBOOK 3 APPENDIX 12 B.
    - C. ANY OTHER CRITERIA DECIDED UPON BY EVALUATION TEAM (PARA 2 ABOVE) AT START OF EVALUATION.
  5. RE REF (B) REQUEST ALL PROJECT RELATED WASH CORRESPONDENCE INCLUDING LETTERS AND TELEXS BE SENT DIRECTLY TO AID REP C/O AMERICAN EMBASSY, B. P. 552, LOME, TOGO AND NOT REPEAT NOT DIRECTLY TO RESEARCH TRIANGLE OR PSC PROJECT STAFF. WHEN PSC STAFF IS OUT OF LOME, WHICH IS OFTEN THE CASE, THOSE MESSAGES REMAIN UNDELIVERED.
- THANKS. WALKER

McJunkin  
Austin  
Witter  
Wehman Jr

Received ST/H/WS (Wehman) 1-28-83  
Passed to WASH 1-28-83

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OTD #147

March 7, 1983

Design and Delivery of Workshop on Latrine Construction,  
Solid Wastes Disposal, and Wastewater Disposal for Rural Areas -  
Senegal

AID/Senegal requested WASH assistance to design and deliver a sanitation workshop and to provide additional follow-up technical assistance with participants from the Bakel Project. The workshop will cover latrine construction, solid waste disposal and wastewater disposal for rural areas. The scope of work includes planning the workshop for twenty participants, developing the training materials and logistic requirements, conducting the workshop, evaluating the workshop and preparing a final report and recommendations.

For further information, contact Mr. F. Rosensweig.

Up to sixty-two person days of effort, fifty-six person days of international/domestic per diem and two international air round trips are authorized over a four month period. Local travel up to \$1,100, up to \$900 for secretarial, graphics and reproduction services and up to \$700 for development or printing of training materials are also authorized.

JEB/CIC  
3/31/83

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WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 147  
March 7, 1983

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

FROM: Mr. Victor W. R. Wehman Jr., P.E., R.S. *VJWW*  
AID WASH Project Manager  
AID/S&T/H/WS

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

REFERENCES: A) Dakar 02385, dated 4 Feb 1983  
B) Dakar 11706, dated 22 Dec 1982  
C) WASH Project Interim Report No 127-1, Dec 1982

1. WASH contractor requested to provide technical assistance to USAID/Senegal as per Ref A., para 1-8 and Ref B., para 2-4.
2. WASH contractor/subcontractor/consultants authorized to expend up to 62 person days of effort over a four (4) month period to accomplish this technical assistance effort.
3. Contractor authorized to expend up to 56 person days of international and/or domestic per diem to accomplish this effort.
4. Contractor to coordinate with AFR/DR/HN (J. Shepperd), AFR/DR/ENG (J. Snead), Senegal Desk Officer and should provide copies of this OTD along with any ETA information or interim reports as may be requested by S&T/H/WS, AFR/DR or USAID staff.
5. Contractor authorized to provide up to two (2) international round trips from consultants home-base through Washington D.C. to Senegal and return to consultants home base through Washington D.C. during life of this OTD.
6. Contractor authorized local travel for consultants in Senegal NTE \$1100 without the written approval of the AID WASH Project Manager.
7. Contractor authorized to obtain secretarial, graphics, reproduction or piecework assistance (mason, carpenter, workmen, etc.) services in Senegal or WASH CIC as necessary and appropriate to accomplish tasks. These services are in addition to the level of effort specified in para 2 and 3 above and NTE \$ 900 without the prior written approval of the AID WASH Project Manager.
8. Contractor authorized to provide for car or vehicle(s) rental as necessary and appropriate to facilitate effort. USAID/Senegal and Government of Senegal strongly encouraged to provide local vehicle support to consultants if at all possible and if available and appropriate.

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9. Contractor authorized to expend up to \$700 for the development or printing of the training materials and support services associated with Ref B, para 2.B and 2.d.
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. New procedures regarding subcontractor cost estimates and justification for subcontractor/consultants remain in-effect.
13. Contractor report on overall progress of activity to be made in writing in the field after conclusion of effort. A draft coordinated report in English and French is to be left at USAID/Senegal. Final report of activity to be due to S&T/H/WS within 30 days of return of consultants to the U.S. Final report to be in English and French and will be edited and printed by WASH CIC.
14. USAID/Senegal and persons identified in para 4 above should be contacted immediately and technical assistance initiated as soon as possible and appropriate.
15. Appreciate your prompt attention to this matter. Good luck.

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9. WE WILL KEEP YOU INFORMED OF ANY NEW DEVELOPMENTS. BRAY

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TO SECSTATE WASHDC 9083  
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UNCLAS DAKAR 02385

AIDAC  
SECSTATE FOR ST/HEALTH. PASS TO WASH V. WEHMAN  
ABIDJAN FOR REDCO  
BAMAKO FOR SDPT

E.O. 12356: N/A  
SUBJECT: WORKSHOP ON SANITATION FOR BAKEL HEALTH  
PROJECT (645-#228).

REF: WASH INTERIM REPORT NO. 127-1 DECEMBER 1982

1. AS PER REFERENCE, CLARIFICATION ON VARIOUS POINTS IS NECESSARY: 1) THE BEST DATES FOR TRAINING ARE FROM APRIL 20 - MAY 4, 1983. THE MCN TRAINING WITH NALDER TERMINATES MARCH 30 AND WE WANTED THREE WEEK INTERVAL BEFORE BEGINNING W.A.S.H.'S PROGRAM. PLEASE CONFIRM AVAILABILITY.

2. THE PARTICIPANTS WILL INCLUDE 12 PROJECT NURSES, 4 NON-PROJECT NURSES, 1 SANITATION AGENT FROM SINE SALCUM RURAL HEALTH PROJECT, A PROFESSOR FROM ST. LOUIS'S SANITATION SCHOOL AND AN OBSERVER, MR. TOURE, REGIONAL COORDINATOR FOR PRIMARY HEALTH CARE.

THE INVITATION TO ST. LOUIS SCHOOL PARTICIPANT WAS INITIATED TO HAVE AN IMPACT ON THE LARGER VIEW OF DEVELOPMENT PROGRAM, I.E. POSSIBILITY OF CURRICULUM CHANGE AT THE SCHOOL.

3. WILL AVANTANG BE AVAILABLE? IF NOT, WHO WILL REPLACE HIM? PLEASE SEND CURRICULUM VITAE.

4. A LOCAL TRAINER WITH CONSTRUCTION SKILLS WILL BE RECRUITED. HOWEVER, THE PROJECT DOES NOT DEEM NECESSARY A SPECIALIST IN COMMUNITY PARTICIPATION/HEALTH EDUCATION.

5. TWO VEHICLES WILL BE MADE AVAILABLE FOR THE PLANNED SURVEY.

6. HOUSING AND FOOD FOR OUTSIDE PARTICIPANTS WILL BE ARRANGED AT BAKEL'S ONE AND ONLY HOTEL.

7. AID/DAKAR RECEIVED THE LIST OF NECESSARY MATERIALS FOR THE SEMINAR. WE ARE IN PROCESS OF PRICING THEM. THERE IS NO PHOTOCOPIER IN BAKEL BUT THERE IS A DUPLICATOR. THEREFORE, IF PHOTOCOPIING NEEDS TO BE DONE, WE CAN DO IT IN DAKAR BEFORE THE WORKSHOP. EVERY THING ELSE WILL HAVE TO BE PUT ON STENCIL.

8. FCFANA AND N'DIAYE ARE CHOOSING THE VILLAGES TO BE USED IN THE SURVEY. THE NAMES WILL BE FORTH-

McJunkin  
Austin  
Witten  
~~WEHMAN~~ JWW

RECEIVED ST/H/WS (WEHMAN) 2-8-83  
PASSED TO WASH 2-8-83

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OTD # 149

July 8, 1983

Rural Water Supply Evaluation - Malawi

AID/Malawi requested WASH assistance in designing and conducting a mid-project evaluation of the Self-Help Rural Water Supply Project. The purposes of this formative evaluation are to establish a baseline of evaluation data for the final evaluation and to measure current progress towards achieving project outputs, purposes, goals and end-of-project status. Five areas will be investigated by the WASH evaluation team: project inputs by AID and the Government of Malawi; strengthening of the institutions involved in the project; project outputs: the construction and operational status of community water systems; the performance of the community water systems; and the economic, social and health impacts of the project.

For further information, contact Mr. C. Hafner.

Up to one hundred and fifty person days of effort, one hundred and sixteen days of international/domestic per diem, four international and two domestic air round trips are authorized for the four-man team over a four month period. Up to \$2,600 for local travel, up to \$1,200 for local secretarial, graphics or reproduction services, and up to \$1,200 for the services of a local Malawian social scientist are also authorized.

JEB/CIC  
7/29/83

279

WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 149  
8 July 1983

Camp, Dresser & McKee, Inc.  
WASH PROJECT

JUL 11 1983

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

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

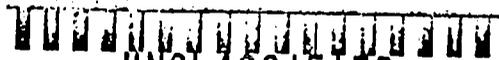
SUBJECT: Provision of Technical Assistance Under WASH Project  
Scope of Work for USAID/Malawi

REFERENCES: A) WASH Telex 6/24/83  
B) Lilongwe 2162, dated 13 June 1983  
C) State 160953, dated 10 June 1983  
D) Lilongwe 1832, dated 19 May 1983  
E) Lilongwe 1693, dated 9 May 1983  
F) Lilongwe 1560, dated 28 April 1983  
G) State 107446, dated 19 April 1983  
H) Lilongwe 1415, dated 10 April 1983  
I) Lilongwe 848, dated 8 March 1983  
J) State 59090, dated 3 March 1983  
K) Lilongwe 467, dated 8 Feb 1983

1. WASH contractor requested to provide technical assistance to USAID/Malawi as per Ref. G, para. 1-5, Ref. D, Para 1, Ref. C, para 1-4, and Ref. B, para 2. Contractor not to address scope of work briefly described in Ref. F., para 1.A and 1.B.
2. WASH contractor/subcontractor/consultants authorized to expend up to 150 person days of effort over a four (4) month period to accomplish this technical assistance effort.
3. Contractor authorized to expend up to 116 person days of international/domestic per diem to accomplish this effort.
4. Contractor to coordinate with AFR/TR/HN (Mr. Gurney), AFR/TR/Engr (Mr. Snead), AFR/SA (Mr. Wrin and Mr. Polaski) and should provide copies of this OTD along with periodic progress reports or ETA information as requested by AFR/TR, Desk or S&T Bureau staff.
5. Contractor authorized to provide up to four (4) international round trips from consultants home base through Washington D.C. (for briefing and preparation) to Lilongwe, Malawi and return to home base through Washington D.C. during life of this OTD. Contractor authorized two (2) domestic round trips from consultants home base to Washington D.C. and return to consultants home base during life of this OTD for purposes of briefing, debriefing, report preparation or coordination. One (1) of the international trips is authorized to stop in route going and coming in Geneva, Switzerland for purposes of briefing and coordination with World Health Organization officials involved with evaluation methodology development. Contractor authorized to expend up to four (4) DBPD and per diem days in Geneva on this OTD during the two trips for coordination.

*VWR*

6. Contractor authorized local travel in Malawi as necessary and appropriate to accomplish technical assistance effort. Contractor is encouraged to approach USAID/Malawi and/or GOM for vehicle support, cable support and local secretarial support to extent appropriate and available in the USAID or GOM resources. If necessary, Contractor authorized to expend up to \$2600 for local transportation expenses for WASH team.
7. Contractor authorized to obtain secretarial, graphics or reproduction services in Malawi and WASH CIC as necessary to accomplish tasks. These services are in addition to the level of effort specified in para. 2 and para 3 above, NTE \$1200 without the prior written approval of the AID WASH Project Manager.
8. Contractor authorized to obtain services of local Malawian social scientist to assist team in gathering in health impact and community involvement data. Contractor NTE \$ 1800 for these services without the prior written approval of the AID WASH Project Manager.
9. Contractor authorized to provide for car rental if necessary and appropriate to facilitate team efforts. Mission is encouraged to provide mission vehicles, if available.
10. WASH contractor will adhere to normal established administrative and financial controls as established for the WASH mechanism in the WASH contract and its amendments.
11. WASH contractor should definitely be prepared to administratively or technically backstop field consultants and subcontractors.
12. Contractor will provide coordinated field draft report to USAID/Malawi before consultants leave mission. Final report due to AID within 30 days of return of last consultant to U.S. WASH contractor should make a special effort to get this report out expeditiously.
13. Mission and coordination personnel identified in para 4 above should be contacted immediately and technical assistance initiated before the end of July, 1983.
14. Appreciate your prompt attention to this matter. Good luck.



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INFO AMEMBASSY NAIROBI

*McJunkin  
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UNCLAS LILONGWE 2162

AIDAC: FOR ST/HEA AND AFR/SA

E. O. 12356: N/A

TAGS: N/A

SUBJECT: EVALUATION OF SELF HELP WATER PROJECT (612-0207)

REF: STATE 160953

1. APPRECIATE ST/HEA AND WASH ASSISTANCE IN MOBILIZING TEAM FOR SUBJECT EVALUATION.

2. USAID/MALAWI AND GOM IMPRESSED WITH TEAM'S QUALIFICATIONS AND CONCUR IN ALL NOMINATIONS. STARTING DATE FOR EVALUATION OF JULY 23 ACCEPTABLE.

3. PER HAFNER/MCCOY TELECON AND REFTEL, PARA. 3, ADDITIONAL MATERIALS BEING HANDCARRIED BY MCCOY FROM LILONGWE TO WASHINGTON.

BURROUGHS

*RECEIVED ST/HA/WS (Wellman) 6-15-83  
Passed to WASH 6-15-83*

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AIDAC SECSTATE FOR AFR/DR/HEALTH, ST/HEALTH, PASS TO W. A. S. H. V. WEHMAN ABIDJAN FOR PEDSO BAMAKO FOR SOPT

AUSTIN

E. O. 12356: N/A SUBJECT: REQUEST FOR W. A. S. H. ASSISTANCE IN BAKEL, SENEGAL FOR APRIL SEMINAR.

Why do we need this project?

REF: A) TELEX NO. 474 FROM W. A. S. H.

1. USAID/DAKAR WOULD LIKE TO REQUEST THE W. A. S. H. PROJECT TO DESIGN AND DELIVER A WORKSHOP ON LATRINE CONSTRUCTION AND SOLID WASTE DISPOSAL FROM APRIL 20 TO MAY 4 INSTEAD OF APRIL 11-22.

THE WORKSHOP WILL BE CONDUCTED IN BAKEL WITHIN THE ACTIVITIES OF THE BAKEL HEALTH COMPONENT OF THE SMALL IRRIGATED PERIMETERS PROJECT.

2. THE SCOPE OF WORK FOR THIS REQUEST IS AS FOLLOWS:

- A) TO PLAN A TWO WEEK WORKSHOP FOR NO MORE THAN -- 20 PARTICIPANTS ON LATRINE CONSTRUCTION AND -- SOLID WASTE DISPOSAL.
- B) TO DEVELOP ALL NECESSARY TRAINING MATERIALS FOR -- THE WORKSHOP.
- C) TO PROVIDE A LIST OF ALL LOGISTIC REQUIREMENTS.
- D) TO CONDUCT THE WORKSHOP.
- E) TO PROVIDE ONE WEEK TECHNICAL ASSISTANCE TO DO -- INDIVIDUAL FOLLOW-UP WITH THE PARTICIPANTS FROM -- BAKEL PROJECT.
- F) TO SUBMIT A FINAL REPORT INCLUDING A SUMMARY OF -- THE PLANNING ACTIVITIES, WORKSHOP CONTENT, RESULTS, -- AND FUTURE RECOMMENDATIONS.

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W. H. T. W.  
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3. A TWO PERSON TRAINING TEAM IS REQUESTED, ONE A TRAINER WITH SKILLS IN DESIGN AND DELIVERY OF WORKSHOPS AND THE OTHER A TECHNICAL TRAINER WITH IN-DEPTH EXPERIENCE IN THE SUBJECT MATTER. BOTH SHOULD HAVE LEAST FSR-3 FRENCH WITH EXPERIENCE IN WEST AFRICA

4. IT IS ANTICIPATED THAT THE TRAINER SHOULD SPEND APPROXIMATELY 3 WEEKS IN SENEGAL (ONE WEEK FOR PREPARATION AND TWO WEEKS FOR THE WORKSHOP) AND THE TECHNICAL TRAINER 4 WEEKS (INCLUDING A FOURTH WEEK FOR INDIVIDUAL FOLLOW-UP).

5. HAPPY HOLIDAYS. BRAY

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MAST-01 10V-03 /017 AB

INFO OCT-80 /020 R

DRAFTED BY AID/ST/H/WS: VWEHMAN: ODC  
APPROVED BY AID/ST/HEA: GCURLIN  
AID/AFH/SA, RWIRIN (PHONE)  
AID/AFR/SA, SCOLE (INFO)  
AID/AFR/TR/HH, MOUFFY (INFO)

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FM SECSTATE WASHDC  
TO AMEMBASSY LILONGWE PRIORITY  
INFO AMEMBASSY NAIROBI PRIORITY

UNCLAS STATE 160953

ADM AID

E.O. 12356: N/A  
TAGS:

SUBJECT: EVALUATION OF SELF-HELP WATER PROJECT

REFTEL: LILONGWE 1032

1. ST/HEA AND WASH STAFF MET WITH-SHELDON COLE ON MAY 26 TO CLARIFY SOV, TENTATIVE SCHEDULE AND SUGGEST WASH TEAM CANDIDATES. WITH COLE'S CONCURRENCE THE FOLLOWING 4 CANDIDATES ARE PROPOSED FOR MISSION AND GOM'S A, PROVAL:

A). TEAM LEADER - DENNIS WARNER (CONFIRMED)  
-1981 TO PRESENT - WASH PROJECT DIRECTOR  
-TEAM LEADER ON WASH ASSIGNMENTS IN:  
-C.A.R.-JAN 1983 - U.N. DECADE PLANNING  
-KENYA-JULY AND OCT, 1982-W/S FOR LOW-COST HOUSING  
-EGYPT-NOV. 1981 AND FEB. 1982-LOW-COST W/S ALTERNATIVES FOR PERI-URBAN AREAS  
-PH.D., ENGINEERING-ECONOMIC PLANNING-STANFORD UNIV. 1974  
-CONSULTING ASSIGNMENTS IN 17 COUNTRIES IN AFRICA, ASIA AND MIDDLE EAST.  
-WHO, SANITARY ENGINEER, 1971-73, KAMPALA, UGANDA.  
-ASSISTANT PROFESSOR, DEPT. OF C. ENG., DUKE UNIV. 1974-78  
-RESEARCH FELLOW, ECONOMIC RESEARCH BUREAU, UNIV OF DAR ES SALAAM, 1968-70

B). HEALTH SPECIALIST - DR. RAYMOND ISELY (CONFIRMED)  
-1980 TO PRESENT - ASSOC. DIRECTOR OF WASH PROJECT AND RESEARCH PUBLIC HEALTH PHYSICIAN, RESEARCH TRIANGLE INSTITUTE  
-WASH CONSULTING ASSIGNMENTS IN BURUNDI, ZAIRE, TUNISIA, INDIA, BANGLADESH AND TOGO-EVALUATION OF RURAL WATER SUPPLY PROJECT  
-M.D. WASHINGTON UNIV, 1961  
-D.T.H. INSTITUTE OF TROPICAL MEDICINE, ANTWERP  
-M.P.H. UNIV OF N. CAROLINA, 1976  
-FIELD DIRECTOR, REGIONAL PUBLIC HEALTH TRAINING PROJECT, CAMEROON, 1972-75  
-MEDICAL MISSIONARY, ZAIRE, 1966-68  
-PUBLIC HEALTH RESEARCH PHYSICIAN, RESEARCH TRIANGLE INSTITUTE SINCE 1977-ASSIGNMENTS IN SENEGAL, GHANA, ZAIRE, NIGERIA, CAMEROON AND IRAN.  
-PEACE CORPS PHYSICIAN, SENEGAL, MALI, THE GAMBIA, 1971-72.

C). SANITARY ENGINEER/ECONOMIST-JOHN BRISCOE (CONFIRMED)  
-1981 TO PRESENT-ASST. PROFESSOR, DEPT. OF ENV. SCIENCES AND ENGINEERING, UNIV. OF N. CAROLINA, UNC LIAISON OFFICER

TO WASH PROJ.  
-PH.D.-ENV. ENGINEERING, WITH HONOR IN ECONOMICS, HARVARD, 1976  
-WASH CONSULTING ASSIGNMENTS:  
-LESOTHO-JULY 1982-NIGHT SOIL AND WASTEWATER PLAN  
-TANZANIA-FEB AND MARCH 1982-MASTER PLAN FOR MANPOWER FOR ENV. SANITATION.  
-DEPUTY CHIEF-SANITARY ENGINEER SERVICE, MAPUTO, MOZAMBIQUE, 1979-81.  
-SPECIAL INVESTIGATOR, VISITING SCHOLAR, CONSULTANT-ON WATER/SANITATION/ENERGY-DHAKA, BANGLADESH 1976-77  
-PROJECT COORDINATOR/RESEARCH ASST.-HARVARD UNIV. BASED IN RURAL INDIA 1973-75  
-ADDITIONAL CONSULTING FOR WORLD BANK, ETHA PROJECT, NAT'L ACADEMY OF SCIENCE, MIT, NCIH.

D). INSTITUTIONAL EXPERT - CRAIG HAFNER (CONFIRMED)  
-1981 TO PRESENT-WASH SENIOR PROJECT OFFICER, AID/AFRICA BUREAU LIAISON  
-M.A. -GEOGRAPHY, UNIV OF COLORADO, 1974  
-WATER/SANITATION SPECIALIST, U.S. PEACE CORPS, 1978-81  
-ASSOCIATE PEACE CORPS DIRECTOR, FOR RURAL DEVELOPMENT AND HEALTH, SIERRA LEONE, 1975-78  
-RURAL WATER PROJECT DESIGN, PEACE CORPS KENYA, OCT. AND NOV., 1979  
-WATER/SANITATION CONSULTANT IN TEN AFRICAN COUNTRIES, PLANNING PROJECTS, NEEDS ASSESSMENTS, TRAINING WORKSHOPS DESIGNS 1978 - PRESENT.  
- PREVIOUS VISITS TO MALAWI:  
- JAN. 1983 - DEVELOP SCOPE OF WORK FOR WASH TRAINING CONSULTANT.  
- MAY 1980 - ATTENDING PEACE CORPS CONFERENCE AND VISIT WATER/SANITATION PROJECTS.

2. WASH CONSULTANTS UNAVAILABLE UNTIL JULY 22. THEREFORE THEIR PROPOSED SCHEDULE IN MALAWI IS JULY 23 - AUG. 13.  
- WOULD SUGGEST JULY 25-26 INCLUDE A FULL SCHEDULE OF MEETINGS WITH AID AND GOM OFFICIALS, FOLLOWED BY 11 DAYS OF INTERVIEWS, DATA GATHERING AND FIELD ACTIVITIES WITH THE WEEK OF AUG. 8-12 SET ASIDE FOR PRESENTATION OF INITIAL FINDINGS, DRAFT REPORT PREPARATION AND FINAL DEBRIEFING.

3. WASH CONSULTANTS WOULD WELCOME REVIEWING ANY BACKGROUND INFORMATION, REPORTS, ETC., WHICH THE MISSION AND GOM WOULD RECOMMEND, IN PARTICULAR INFORMATION NEEDED ON PROJECT SINCE AID FUNDING BEGAN.

4. WASH RCVD WORD GRETCHEN BLOOM IS UNAVAILABLE FOR JULY ASSIGNMENT. EAGLEBURGER

McJankin  
Witter  
Austin  
WEHMAN (W)

Received ST/H/WS (Wehman) 6-13-83  
Passed to WASH 6-13-83

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WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 149  
Amendment No. 1  
18 January 1984

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

FROM: Mr. Victor W.R. Wehman Jr., P.E., R.S. *VW*  
AID WASH Project Manager  
AID/S&T/H/WS

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

REFERENCES: A) OTD # 149, dated 8 July 1983

1. Para 2 of subject OTD # 149 (Ref A) is cancelled. New para 2 to subject OTD # 149 (Ref A) is now to read as follows:

"2. WASH contractor/subcontractor/consultants authorized to expend up to 164 person days of effort over a 7 month period to accomplish this technical assistance effort."

2. No further amendments will be issued under this OTD.
3. Nothing follows.

Camp Dresser & McKee Inc.  
WASH PROJECT

JAN 19 1984

OTD # 157 - August 31, 1983

Technical Assistance in Evaluation of CARE/Kenya  
Rural Water Projects - Kenya

AID/Kenya requested WASH assistance in the design and execution of an evaluation of several rural water supply projects that CARE had worked on over the past three years. The scope of work includes determining what has worked well, the reasons therefore and the impact on recipient communities; recommending viable community-based maintenance systems for future CARE projects in Kenya; reviewing and recommending realistic project goals and an appropriate goal accomplishment indicator system; developing a practical evaluation methodology for future CARE projects; and informally training CARE staff in evaluation approaches and methodologies.

For further information, contact Mr. C. Hafner.

Up to forty-six person days of effort, thirty-five days of international/ domestic per diem and one international air roundtrip are authorized over a three month period. Local travel in Kenya up to \$900 and local secretarial, graphics or reproduction services up to \$700 are also authorized.

JEB/CIC

9/30/83

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AUG 31 1983

WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 157  
August 31, 1983

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

FROM: Victor W.R. Wehman, Jr., P.E., R.S. *DWW*  
AID WASH Project Manager  
AID/ST/H/WS

SUBJECT: Provision of Technical Assistance Under WASH Project Scope of  
Work for CARE/Kenya Rural Water Projects

REFERENCE: A) Nairobi 07975, dated 16 March 83  
B) Nairobi 22461, dated 28 July 83  
C) Nairobi 25347, dated 23 August 83  
D) STATE 203825, dated 21 July 83

1. WASH contractor requested to provide technical assistance to USAID/Nairobi as per Reference A. Technical Assistant to consist of carrying out scope of work in para. 3 of Ref. A.
2. Wash contractor/subcontractor/consultants authorized to expend up to 46 person days of effort over a three (3) month period to accomplish this technical assistance effort.
3. Contractor authorized up to 35 person days of international and/or domestic per diem to accomplish this effort.
4. Contractor to coordinate with AFR/TR/HN (Mr. Gurney), AFR/TR/ENG (Mr. Snead), AFR/EA Projects Officer (Mr. Thomas Lofgren), AID/Kenya Desk Officer (Mr. Sidney Chernenkoff) and should provide copies of OTD #157 along with periodic progress reports and ETA information as requested by AFR/TR Desk, or S&T/H/WS. Note Ref. B, para. 3 and obtain required clearances.
5. Contractor authorized to provide up to one (1) international round trips from consultants' home base through Washington, D.C. to Nairobi and return to home base through Washington, D.C. during life of this OTD. One (1) domestic round trip from consultants' home base to Washington, D.C. authorized.

6. Contractor authorized local travel in Kenya as necessary and appropriate to accomplish mission NTE \$900 without the prior written approval of the AID WASH Project Manager.

7. Contractor authorized to obtain secretarial, graphics or reproduction services in Kenya as necessary to accomplish tasks. These services are in addition to the level of effort specified in paragraph(s) 2 and 3 above and NTE \$700 without written approval of AID WASH Project Manager.

8. Contractor authorized to provide for car(s) or vehicle(s) rental if necessary to facilitate effort. Mission is encouraged to provide Mission vehicles, if available and appropriate.

9. WASH contractor will adhere to normal established administrative and financial controls as established for WASH mechanism.

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

11. Contractor to provide coordinated draft report in English to USAID/CARE/Kenya before consultant leaves the field. Final report in English is due to AID within 30 days after return of consultant to the U.S.

12. New procedures regarding subcontractor cost estimates and contractor selection justification for subcontractors/consultants remains in effect.

13. Mission should be contacted immediately and technical assistance initiated.

14. Appreciate your prompt attention to this matter. Good luck!

JHA/ddc

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ACTION COPY

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Department of State

CA

INCOMING TELEGRAM

PAGE 01 NAIROBI 07975 161303Z 1771 089146 AID1533

ACTION OFFICE STHE-01  
INFO AAAP-02 AFEA-03 AFDR-06 FVA-01 STMO-01 SAST-01 ENGR-01  
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AIDAC

FOR VICTOR WEHMAN, S&T/H - PASS GRAIG HAFNER, WASH  
INFO GILDA DELUCA, AFR/TR

E.O. 12358: N/A  
SUBJECT: CARE/KENYA RURAL WATER PROJECTS

REF: BENDER TO MANTIONE LETTER OF MARCH 1983

1. CARE/K HAS BEEN PROVIDING ASSISTANCE TO WATER PROJECTS IN KENYA SINCE 1978. CARE IS NOW IN PROCESS OF DRAWING UP MULTI-YEAR PLAN FOR CONTINUATION OF ASSISTANCE TO WATER PROJECTS FOR THE THREE (3) YEAR PERIOD OF JULY 83 - JULY 86. BECAUSE OF THIS, CARE WOULD LIKE TO CARRY OUT AN EVALUATION OF WATER PROJECTS ASSISTED IN PAST, ESTABLISH REALISTIC PROJECT GOALS AND DEVELOP PRACTICAL EVALUATION METHODOLOGY FOR FUTURE CARE ASSISTED PROJECTS.

2. CARE/K REQUESTS SERVICES OF WASH CONSULTANT TO GUIDE THIS ASPECT OF PROJECT DEVELOPMENT FOR A PERIOD OF 3-4 WEEKS, ASAP IF APPROVAL GRANTED.

3.- CONSULTANT SCOPE OF WORK:

A) DESIGN AND EXECUTION OF EVALUATION OF 4-5 WATER PROJECTS ASSISTED BY CARE/K OVER PAST 2-3 YEARS TO DETERMINE WHAT HAS WORKED AND WHY AS WELL AS IMPACT ON RECIPIENT COMMUNITIES.

B) RECOMMEND (BASED ON DATA COLLECTED IN THE ABOVE EXERCISE) VIABLE COMMUNITY-BASED MAINTENANCE SYSTEMS FOR THE TYPE OF PROJECTS TO BE ASSISTED BY CARE/K.

C) REVIEW AND RECOMMEND REALISTIC PROJECT GOALS AND GOAL ACCOMPLISHMENT INDICATORS FOR CARE/K MULTI-YEAR PLAN WITH VIEW TO KEEPING COLLECTION PROCESS SIMPLE AND MANAGEABLE BY FIELD STAFF.

D) INFORMALLY TRAIN ONE OR MORE CARE NATIONAL STAFF MEMBER(S), WHO WILL ACCOMPANY WASH CONSULTANT ON FIELD VISITS, EVALUATION APPROACHES AND METHODOLOGIES.

4. USAID/K/HNP CONCURS WITH CARE/K REQUEST FOR WASH ASSISTANCE.

5. PLEASE ADVISE. HAROP

*Mc Junkin  
Austin  
Witten  
WEHMAN  
WW*

*RECEIVED ST/H/W (WEHMAN) 3-17-83  
PASSED TO WASH 3-17-83*

UNCLASSIFIED

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INFO OCT-00 COPY-01 AF-00 /018 R

DRAFTED BY AID/ST/H/WS: VWWEHMAN: DDC  
APPROVED BY AID/ST/HEA: GCURLIN  
AID/AFR/EA: SCHERINENKOFF PHONE,  
AID/AFR/TR: HN: GURNEY INFO,  
AID/AFR/TR: ENG: JSNEAD INFO,  
AID/AFR/RA: TECH: JCUMNISKEY INFO,

P 210250Z JUL 83 -----147175 210514Z /21  
FM SECSTATE WASHDC  
TO AMEMBASSY NAIROBI PRIORITY

UNCLAS STATE 203825

AID ADM

E. O. 12356: N/A

TAGS:  
SUBJECT: CARE/KENYA RURAL WATER PROJECTS

REFTEL: A, NAIROBI 7975

1. ST/H AND WASH CONTRACTOR HAS BEEN INVOLVED IN AN EXTENSIVE RENEGOTIATION OF THE WASH PROJECT TECHNICAL ASSISTANCE SERVICE FROM LATE FEBRUARY 83 TO JULY 6, 1983. SERVICES ARE ONCE AGAIN AVAILABLE TO THE FIELD THROUGH 31 MAY 84. ST/H/WS: V. WEHMAN, HAS BEEN HOLDING YOUR REQUEST AND MANY OTHERS PROVIDING SATISFACTORY RESUMPTION OF WASH SERVICES.
2. ST/H/WS NOW PREPARED TO APPROVE THE SENDING OF A SENIOR RURAL WATER SUPPLY AND SANITATION EXPERT CONSULTANT TO USAID/CARE/KENYA TO ACCOMPLISH TECHNICAL ASSISTANCE EFFORT DESCRIBED IN REF. A, PARA. 3. A-D.
3. WASH CONTRACTOR HAS RECEIVED NOTICE FROM ST/H/WS PROJECT MANAGER OF AID'S INTEREST IN ASSISTING USAID/CARE/KENYA IN THIS EFFORT.
4. SUGGEST CARE AND USAID IDENTIFY NEW CONVENIENT TIME FRAME FOR CONSULTANCY IN COORDINATION WITH WASH CONTRACTOR. USAID/CARE/KENYA SHOULD COORDINATE DIRECTLY WITH WASH CONTRACTOR.
5. ST/H/WS REGRETS LONG DELAY IN RESPONDING, BUT HAD NO DEFINITIVE WORD TO GIVE MISSIONS AS NEGOTIATIONS WERE VERY DRAWN OUT AND VERY COMPLEX INVOLVING THE REORGANIZATION OF THE WASH CONTRACTING MECHANISM. SHULTZ

Camp, Dresser & McKee, Inc.  
WASH PROJECT

AUG 2 1983

OTD # 164 - October 3, 1983

Technical Assistance in Reviewing Low-Cost Alternative  
Water Supply and Sanitation Concepts and Designs - Ivory Coast

AID/RHUDO/Ivory Coast requested WASH assistance in reviewing low-cost alternative water supply and sanitation concepts and designs. The WASH team will work with the Housing Office in the Ivory Coast to identify and evaluate alternatives that are within the social, financial, and technical resources of the Ivory Coast for its low-cost housing projects. Key issues to be addressed include the social, technical, and financial range of affordable solutions; capital costs per user; environmental impacts; local availability of materials and equipment; possible financing schemes, such as a revolving fund; and feasible changes in current technical standards.

For further information, contact Mr. D. Donaldson

Up to one-hundred-five person days of effort, eighty days of international/domestic per diem, two international air round trips and one domestic air round trip are authorized over a four month period. Local travel not to exceed \$1200 and up to \$2800 for local secretarial, graphics, interpreter and reproduction services are also authorized.

JEB/CIC  
10/24/83

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WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 164  
3 October 1983

Camp, Dresser & McKee, Inc.  
WASH PROJECT

OCT 4 1983

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

FROM: Mr. Victor W. R. Wehman Jr., P.E., R.S.  
AID WASH Project Manager  
AID/S&T/H/WS

SUBJECT: Provision of Technical Assistance Under WASH Project Scope of  
Work for PRE/Housing and RHUDO/Ivory Coast

JWW

- REFERENCES:
- A) Terms of Reference: Ivory Coast - WASH Consultancy for PRE/Housing; dated 27 Sept 1983
  - B) Memo from Mann (PRE/H) to Wehman (S&T/H/WS), dated 19 May 1983
  - C) Memo from (RHUDO/WA) to Mann (PRE/H), dated 19 May 1983 with Terms of Reference, Ivory Coast: WASH Consultancy (Phases I and II).

1. WASH contractor requested to provide technical assistance to USAID/RHUDO/Ivory Coast as per Ref. A, Items I-V. Contractor to provide two (2) consultants (Socialologist and Sanitary Engineer) to accomplish broad tasks identified in Ref A., Item I.1.a-c.
2. WASH contractor/subcontractor/consultants authorized to expend up to 105 person days of effort over a four (4) month period to accomplish this technical assistance effort.
3. Contractor authorized to expend up to 80 person days of international/domestic per diem to accomplish this effort.
4. Contractor to coordinate with PRE/Housing (Mr. Glickman and Mr. Mann), AFR/DR/HNP (C. Gurney), AFR/DR/ENG (J. Snead) and Ivory Coast Desk Officer and should provide copies of this OTD along with periodic progress reports as requested by PRE/Housing, AFR Bureau or S&T/H staff.
5. Contractor authorized to provide up to two (2) international round trips from consultants home base through Washington D.C. (for briefings and preparation) to Ivory Coast and return to home base through Washington D.C. (for debriefing and report work) during life of this OTD.
6. Contractor authorized one (1) domestic round trip from consultants home base to Washington D.C. and return to consultants home base (for preparatory work) during this OTD.
7. Contractor authorized local travel in Ivory Coast as necessary and appropriate to accomplish this technical assistance. Local travel costs NTE \$ 1200 during technical assistance effort without the written approval of the AID WASH Project Manager.

8. Contractor authorized to obtain secretarial, graphics, interpreter or reproduction services in Ivory Coast as necessary to accomplish tasks. These services are in addition to the level of effort specified in para 2 and 3 above and NTE \$2800 without the written approval of the AID WASH Project Manager.
9. Contractor authorized to provide for car(s) or vehicle(s) as necessary to facilitate effort. USAID and RHUDO is encouraged to provide mission vehicles if available and appropriate.
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. New procedures regarding subcontractor selection/justification and consultant selection/justification remain in effect. Cost estimates for subcontractors must be approved by S&T/H/WS Project Manager.
13. Contractor to provide coordinated draft report to USAID/RHUDO/Ivory Coast before consultants leave the country. Final report to AID is due within 30 days of return of consultants to the U.S. Coordinated draft report to be prepared in English. If mission indicates necessity, final report to be prepared in French; if not, then final report should be prepared in English.
14. Mission and individuals identified in para 4 should be contacted immediately and technical assistance initiated as soon as convenient to USAID/RHUDO/Ivory Coast.
15. Appreciate your prompt attention to this matter. Good luck.

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UNITED STATES INTERNATIONAL DEVELOPMENT COOPERATION AGENCY  
AGENCY FOR INTERNATIONAL DEVELOPMENT  
WASHINGTON, D.C. 20523

WASH  
Prog  
Dir

May 19, 1983

MEMORANDUM

TO: Victor Wehman, S&T/H/WS  
Craig Hefner, WASH

FROM: William Mann, PRE/H

SUBJECT: Ivory Coast

A requirement has been identified for a consultant to assist on water and sanitation aspects of the new HG-005 housing investment guaranty project for the Ivory Coast. This consultant will assist in:  
A) determination of appropriate standards consistent with affordability for the target group; B) formulation of preliminary alternative designs for water supply and sewerage disposal.

It is requested that a consultant be assigned from WASH to work with the project paper team in the Ivory Coast, starting around June 8th, for approximately three weeks. The full terms of reference are now en route from the RHUDD - West Africa and will be provided later.

Received ST/H/WS (Wehman) 5-20-83  
Passed to WASH 5-20-83

McTigue  
Austin  
Wiften  
~~Wehman~~ UWW

## memorandum

DATE: May 19, 1983

REPLY TO  
ATTN OF: Scott Johnson, Low-Income Shelter Advisor, RHUDO/WA

SUBJECT: Request for Technical Services of WASH

TO: William Mann, Housing Officer, PRE/H

RHUDO would like to make use of the services of WASH in the Ivory Coast for the following tasks:

- a) investigation of alternative low-cost designs for sewage systems in conjunction with construction of sites and services of minimal standards as part of 681-HG-005;
- b) technical evaluation of sewage systems constructed under AID/World Bank jointly financed 681-HG-003 and preparation of recommendations for cost reductions to be exercised by the GOIC in similar upgrading efforts in the future.

In order to make most effective use of WASH's services, RHUDO proposes that this assignment be undertaken in two phases as follows:

Phase I: Two weeks beginning o/a June 12, 1983 so that WASH consultant can work with PADCO consultants in firming up site selection in Abidjan for sites and services development as part of PP preparation of 681-HG-005.

Phase II: Three to four weeks during September, 1983 to finalize site selection for 681-HG-005 Abidjan sites. Make a more general assessment of constraints to low-cost sites and services development in secondary cities; and to undertake task (b) as described above.

Attachement:

SJ/dl



Buy U.S. Savings Bonds Regularly on the Payroll Savings Plan

OPTIONAL FORM NO. 10  
(REV. 7-76)  
GSA FPMR (41 CFR) 101-11.6  
5010-112

2014

TERMS OF REFERENCE  
IVORY COAST: WASH CONSULTANCY

I. BACKGROUND

A. 681-HG-005 Preliminary Project Description

1. Project Components

This Project consists of two primary components: shelter interventions in the capital city, Abidjan, and a continuation of the Interior Cities Urban Development initiatives that began with the preceding Ivory Coast/HG-004 Project.

The purpose of the project is multi-fold: It will result in plot development which is affordable for low-income households; provide credit to low-income households for the purpose of plot acquisition and dwelling unit construction; support efforts to decentralize administrative authority; and redistribute shelter resources in an equitable manner, by encouraging investments in regional development centers outside of Abidjan.

2. Location

For the Abidjan component three or four sites are likely to be selected though no final determination has been made. Preliminary site selection has been made on the basis of criteria such as proximity to employment, infrastructure, public facilities and ease of development. It is likely that the sites will be in three or four different, but equally advantageous locations where future urban growth is planned to occur.

For the Interior Cities component selection of the cities will be based on an analysis of the economic trends of individual locations such as urban growth patterns, regional commercial activities, economic growth pole advantages and compatibility with other regional investment programs. Site specific conditions were analyzed in representative towns in order to identify the type of

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issues that should receive special attention during detailed design phase of the various subprojects.

### 3. Shelter Activities

The nature of the shelter project being proposed is based on many years experience by both the Office of Housing and the Government of the Ivory Coast. The Government has found that in order to provide shelter options for low-income households it is not possible to provide them with a publicly constructed dwelling unit. Instead, it has opted for provisions of affordable plots with associated loans for dwelling unit construction, and general upgrading of existing urban facilities and services along with reinforcing the local administrative capacities to maintain these services.

The Abidjan component will focus mainly on the development of approximately 4,000 serviced plots and associated loan programs while activities in the Interior Cities will be consistent with those authorized under HG-004 and in addition will draw from early experiences resulting from the initial Abidjan serviced sites development program.

The Project will be designed in such a way as to provide a range of plot sizes, levels of service, and housing finance packages. The specific options will be designed based on studies of existing needs and cultural factors. However, the following preliminary design parameters have been proposed:

#### a) Sites and Services

- Total of approximately 120 hectares to be serviced divided among three to four sites in Abidjan;
- total of approximately 4,000 lots developed;
- levels of services to be provided.

(1) Roads

- Paved main road to permit access to sites by buses, fire engines, ambulances and garbage trucks.
- Unpaved secondary and tertiary roads but compacted for all-weather use.
- Access to pedestrian paths from majority of lots

(2) Water Runoff Drainage by Ditches only

(3) Electricity

- Probable connections to all lots.
- Street lighting on main and select secondary road.

(4) Potable Water

- Lot connections along secondary roads.
- Reliance on vendors for lots on tertiary roads.

(5) Sewage disposal possibly by lined pit latrine or some other low-cost system

Size of lots is estimated to vary from 150 to 200 square meters depending upon family income level. Percentage of total lots serviced will be equally divided among the following three categories:

- 150 m2 for monthly family income of 40,000CFA
  - 175 m2 for monthly family income of 60,000CFA
  - 200 m2 for monthly family income of 75,000CFA
- Community facilities will be constructed on each project site as necessary. It can be estimated that at most the following public facilities will be required at each site (3-4): two, six-classroom elementary schools; rudimentary market structure/site; and a dispensary/health clinic.

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The principal activities to be undertaken in the Interior Cities component will be urban upgrading and provision of basic urban services and community facilities to benefit those cities whose existing infrastructure is deficient yet whose role in a region's development is vital. These activities will be consistent with the ongoing HG-004 program and based upon detailed design work for upgrading in beneficiary cities of 681-HG-004, this subproject will most likely include some combination of the following activities in specific low-income neighborhoods of the city: provision of drainage systems for water runoff and stagnant pools to free up lands for productive uses, minimize flooding and improve health conditions, rudimentary sewage disposal; road construction with limited use of pavements; garbage collection systems; and construction of basic community facilities such as: primary schools, dispensaries, maternity clinics, cultural centers and markets.

Limited sites and services schemes and credit mechanisms developed in conjunction with the Abidjan component will be incorporated as appropriate.

#### 4. Principal Issues for WASH Investigation

Safe, potable water will be provided to each of the Abidjan subproject sites by extending the existing secondary infrastructure to the development area. However, the treatment and disposal of the increased volume of municipal waste waters must be considered in the following context:

- Appropriateness of technical solution
- environmental impact
- economic impact
- compatibility with existing sewage disposal networks
- social acceptance.

Of particular concern will be the relationship between drinking water supply and the disposal of sewerage waste.

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If on-site methods of disposal are used, soil percolation capacity must be considered and the likelihood of seepage into underground aquifers evaluated, particularly where wells are the principal sources of drinking water for the area.

B. 681-HG-003 / Abidjan Urban Development Project

As part of this jointly financed AID/World Bank \$65 million project, upgrading was undertaken in four low-income neighborhoods of Abidjan: Abobo Gare, Pelieuville, Port Bouet II and Adjamé. Upgrading included construction of infrastructure including roads, potable water, water runoff drainage and sewage systems as well as provision of basic community facilities: primary schools, dispensaries and cultural centers. Construction on all of the four sites is currently at least 80% completed and RHUDO anticipates completion by the end of 1983.

It is RHUDO's belief that the GOIC could benefit from a technical evaluation of the sewage system component of the upgrading in order to provide recommendations for further cost savings in future upgrading efforts either undertaken by the GOIC independently or in collaboration with an international donor. Sewage systems cost reductions are especially highlighted given the relatively high proportion of total site development costs that are incurred in sewage system construction, i.e. approximately 50%.

II. SCOPE OF WORK

This scope of work will be divided into two phases in the following manner:

A. Phase I

1. Develop an overall program of WASH assistance to RHUDO/WA.
2. Make a preliminary identification of suitability of three to four Abidjan sites for sites and services development according to geo-technical considerations.

3. Make a preliminary identification of the technical and socially feasible alternative sanitation systems for the 3 to 4 sites in the 005 Abidjan sites and services program.
4. Make recommendations to RHUDO/WA as to the detailed design standards of appropriate sewage and sanitation alternatives.
5. Prepare draft report for RHUDO/WA of findings, conclusions and recommendations.

WASH consultants will interact closely with 005 PP team and RHUDO/WA staff. RHUDO will establish contacts with GOIC agencies and technicians involved in HG programs and the Ivory Coast Water and Sewer Utility (SODECI) to facilitate phase one work. It is imperative that WASH first phase consultance be undertaken simultaneously with 005 PP preparation. WASH consultants should arrive Abidjan, o/a June 12 for up to two weeks of field work.

B. Phase II

1. Finalize sites selection under the 681-HG-005 Abidjan sub-component.
2. Finalize appropriate sewage and sanitation system design for these sites.
3. Review appropriateness of currently practiced sanitary standards for projects oriented towards low-income families including those under the jointly financed USAID/World Bank Abidjan Urban Development Project 681-HG-003.
4. Participate in a review of existing standards and specifications used in interior cities of the Ivory Coast to deliver potable water and sewage disposal systems for inclusion in the eventual design of similar components in beneficiary secondary cities of 681-HG-004.

5. Prepare final report for RHUDO/WA of conclusions and recommendations.

WASH team will work closely with RHUDO/WA Engineer and relevant GOIC agencies in undertaking this phase of work. In order to assure full participation of GOIC institutions and RHUDO, it is suggested that this phase be undertaken for three to four weeks during September, 1983.

C. General

In the event that special preliminary technical data be prepared prior to arrival of WASH team for second phase such as geo-technical, topographical or environmental studies, RHUDO will coordinate as necessary upon request from WASH.

OTD # 166 - October 12, 1983

Technical Assistance for Workshop on Sanitation and  
Latrine Construction - Sierra Leone

.AID/Sierra Leone and The Peace Corps requested WASH assistance to design and deliver a two week sanitation and latrine construction workshop for Peace Corps Volunteers and staff from the Ministry of Energy and Power and the Ministry of Health. The workshop will include hands-on experience in latrine construction and maintenance, as well as consideration of community participation, local beliefs and customs, health education strategies, and project development and planning skills. A trainers' guide will also be prepared for use in future training programs.

For further information, contact Mr. F. Rosensweig.

Up to seventy-eight person days of effort, sixty days of international/domestic per diem and two international air round trips are authorized over a five month period. Up to \$600 for local travel and up to \$2000 for local secretarial, graphics and reproduction services are also authorized.

JEB/CIC  
10/24/83

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OCT 13 1983

WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 166  
October 12, 1983

TO: Dr. Dennis Warner, 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./ST/H/WS

SUBJECT: Provision of Technical Assistance Under WASH Project Scope of  
Work for USAID/Freetown for Delivery of a Sanitation Workshop

REFERENCE: A) Freetown 3734, dated 20 Sept 1983  
B) Freetown 984, dated 10 March, 1983  
C) State 255919, dated 9 Sept, 1983

1. WASH contractor requested to provide technical assistance to USAID/Sierra Leone and PC/Sierra Leone as per Reference B., paragraph 1-4. Technical assistance to consist of a workshop on latrine construction for up to 25 participants. Workshop to be held Nov. 28 - Dec. 9, 1983.
2. Wash contractor/subcontractor/consultants authorized to expend up to 78 person days of effort over a five (5) month period to accomplish this technical assistance effort.
3. Contractor authorized up to 60 person days of international and/or domestic per diem to accomplish this effort. Excess baggage authorized.
4. Contractor to coordinate with AFR/TR/H, (C. Gurney), AFR/TR/ENGR (J. Snead), AID/Sierra Leone Desk Officer, Peace Corps Water and Sanitation Specialist (J. Bell) and should provide copies of OTD #166 along with periodic progress reports and ETA information as requested by S&T/H/WS and/or Africa Bureau Staff.

5. Contractor authorized to provide up to 2 international round trips from consultants' home base through Washington, D.C. to Sierra Leone and return to home base through Washington, D.C. during life of this OTD.
6. Contractor authorized local travel in Sierra Leone as necessary and appropriate to accomplish mission NTE \$600 without the prior written approval of the AID WASH Project Manager.
7. Contractor authorized to obtain secretarial, graphics, reproduction, piecework assistance services in Sierra Leone as necessary to accomplish tasks. These services are in addition to the level of effort specified in paragraph(s) 2 and 3 above and NTE \$2000 without written approval of AID WASH Project Manager. Contractor is not authorized to pay travel or per diem expenses for Peace Corps, AID or local trainees.
8. Contractor authorized to provide for car(s) or vehicle(s) rental if necessary to facilitate effort. Mission is encouraged to provide Mission vehicles, if available and appropriate.
9. WASH contractor will adhere to normal established administrative and financial controls as established for WASH mechanism.
10. WASH contractor should definitely be prepared to administratively or technically backstop field consultants and subcontractors.
11. Contractor to provide coordinated draft report in field consisting of recommendations and conclusion to USAID/Sierra Leone before consultants leave the field. Final report due to AID within 30 days of return of consultants from the country and entry into the U.S.
12. New procedures regarding subcontractor cost estimates and contractor selection/justification for subcontractors/consultants remains in effect.
13. Mission should be contacted immediately and technical assistance initiated as soon as possible.
14. Appreciate your prompt attention to this matter. Good luck!

JHA/ddc

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INCOMING TELEGRAM

WASH  
Prog.  
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PAGE 01 FREETO 03734 201300Z 3125 032324 AID8837

ACTION OFFICE STHP-01  
INFO. AFCW-03 AFDR-06 AFDA-01 RELO-01 STHP-01 MAST-01  
/014 A2 020  
INFO OCT-00 /035 W

P 201144Z SEP 83  
FM AMEMBASSY FREETOWN  
TO SECSTATE WASHDC PRIORITY 579  
INFO AMEMBASSY ABIDJAN PRIORITY

UNCLAS FREETOWN 3734

AIDAC

WASHDC FOR ST/H/WS PROJECT MANAGER

EO 12356: NA  
SUBJ: WASH SANITATION WORKSHOP

REF: STATE 255919

1. SOIL TYPE IS LATERITE/CLAY, MEDIUM TEXTURE.
2. WE ARE INTERESTED IN THE VENTILATED IMPROVED PIT LATRINE, WOULD IT BE POSSIBLE TO BUILD FOUR (4) DIFFERENT SUPERSTRUCTURES MUD AND WADDLE (STICK), MUD BLOCK, BRICK AND ANYTHING ELSE THAT YOU CAN SUGGEST (PERHAPS GRASS). TRADITIONALLY SPEAKING SIERRA LEONE USE MUD AND WADDLE BUT WE WANT TO LOOK AT DIFFERENT TYPES.
3. ALL LABOR AND MATERIALS WILL BE SUPPLIED BY IN COUNTRY RESOURCES.
4. ALSO WOULD IT BE POSSIBLE TO INCREASE THE NUMBER OF PARTICIPANTS FROM 20, PER REFTEL PARA 2 TO 30? PEACE CORPS/UNDP RESOURCES CAN ADEQUATELY ACCOMMODATE THE PROPOSED INCREASE IN TERMS OF MATERIALS AND ACCOMMODATION FOR PARTICIPANTS AND TRAINING STAFF.
5. THE DATES NOVEMBER 30 - DECEMBER 14 ARE ACCEPTABLE.
6. PLEASE ADVISE APPROVAL PROPOSED INCREASED WORKSHOP PARTICIPANTS, AND ADDITIONAL MATERIALS REQUIRED.  
PARDON

Austin  
~~WITTEN~~  
~~WEHMAN~~  
UW  
Diane:  
file in  
OTD

RECEIVED ST/H/WS (WEHMAN) 9-21-83  
PASSED TO WASH 9-21-83

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INCOMING  
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*Page 1*  
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PAGE 01  
ACTION AID-00 FREETO 00984 101313Z  
B904 084897 AID0424  
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ACTION OFFICE SAST-01  
INFO AFCW-03 STHE-01 ATPC-04 RELO-01 MAST-01 /011 A5 910  
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INFO OCT-00 AF-00 /045 W  
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R 102931Z MAR 83  
FM AMEMBASSY FREETOWN  
TO SECSTATE WASHDC 9125  
INFO AMEMBASSY ABIDJAN

UNCLAS FREETOWN 0984

AIDAC

AID/W FOR S&T BUREAU PASS WASH

ABIDJAN FOR REDSO/WCA

EO 12356: NA

SUBJ: WASH WORKSHOP ON SANITATION

1. USAID/FREETOWN SUPPORTS PEACE CORPS REQUEST THAT WASH DESIGN AND DELIVER A TWO WEEK WORKSHOP ON SANITATION FROM JULY 11-22. THE WORKSHOP WILL BE CONDUCTED IN THE SOUTHERN PROVINCE AT A SITE TO BE SELECTED FOR THE UPCOMING PEACE CORPS PRE-SERVICE TRAINING.

2. THE SCOPE FOR SERVICES IS AS FOLLOWS:

A. TO PLAN A TWO WEEK SANITATION WORKSHOP COVERING THE FOLLOWING COMPONENTS:

- INTRODUCTION
- MOBILIZING THE COMMUNITY FOR A SANITATION PROJECT
- CONDUCTING A TECHNICAL ASSESSMENT
- METHODS OF WASTE DISPOSAL
- LOCAL BELIEFS AND CUSTOMS
- STRATEGIES FOR GAINING COMMUNITY ACCEPTANCE
- FORMATION OF A PROJECT TEAM
- PLANNING A PROJECT
- SITE EVALUATION
- LATRINE CONSTRUCTION PRACTICALS
- OPERATION AND MAINTENANCE OF LATRINES
- HEALTH EDUCATION STRATEGIES
- PROJECT DEVELOPMENT AND PLANNING SKILLS

B. TO DEVELOP ALL NECESSARY TRAINING MATERIALS FOR THE WORKSHOP

C. TO PROVIDE A LIST OF ALL LOGISTIC REQUIREMENTS.

D. TO TRAIN 25 MINISTRY OF ENERGY AND POWER STAFF, MINISTRY OF HEALTH STAFF AND PCVS IN IMPROVED SANITATION METHODS.

E. TO PRODUCE A TRAINER'S GUIDE FOR A TWO-WEEK SANITATION WORKSHOP.

F. TO SUBMIT A FINAL REPORT INCLUDING A SUMMARY OF THE PLANNING ACTIVITIES, WORKSHOP CONTENT, RESULTS AND RECOMMENDATIONS.

3. A TWO PERSON TRAINING TEAM IS REQUESTED. ONE TRAINER SHOULD HAVE SKILLS IN DESIGN AND DELIVERY OF WORKSHOPS AND THE OTHER A TECHNICAL TRAINER WITH IN-DEPTH EXPERIENCE, BOTH SHOULD HAVE EXPERIENCE IN WEST AFRICA.

THE TRAINERS SHOULD SPEND FOUR WEEKS IN SIERRA LEONE. (ONE WEEK FOR PREPARATION, TWO WEEKS TO CONDUCT WORKSHOP AND ONE WEEK FOR FOLLOW-UP AND REPORT WRITING.)  
HEALY

*Wehman*  
*M. J. J. J.*  
*WITFEN*  
*WEHMAN*

*RECEIVED ST/H/WS (WEHMAN) 3-15-83*  
*PASSED TO WASH 3-15-83*

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UNCLASSIFIED  
Department of State

OUTGOING  
TELEGRAM

PAGE 01 STATE 255919  
ORIGIN AID-00

C105 025721 AID8969

STATE 255919

6105 025721 A11

ORIGIN OFFICE STHE-01  
INFO AFCW-03 AFDP-06 AFDR-06 SAST-01 RELO-01 STHP-01 MAST-01  
1M-00 /020 AD

INFO OCT-00 AMAD-01 /021 R

DRAFTED BY AID/ST/H/MS: VVWEHMAN: DDC  
APPROVED BY AID/ST/HEA: GCURLIN  
AID/AFR/CVA, DWALSH (PHONE)  
AID/AFR/TR/HN, CGURNEY (INFO)

P 090022Z SEP 83  
FM SECSTATE WASHDC  
TO AMEMBASSY FREETOWN PRIORITY

UNCLAS STATE 255919

ADM AID

E.O. 12356: N/A  
TAGS:  
SUBJECT: WASH WORKSHOP ON SANITATION

REFIELS: A. FREETOWN 2925, B. FREETOWN 2907

ATTN: BIL- LEFES

1. REGRET DELAY IN RESPONSE.

2. BELOW IS A DETAILED LIST OF MATERIALS AND LABOR NEEDED FOR THE SANITATION WORKSHOP. IT IS BASED ON TWO KEY ASSUMPTIONS: WORKSHOP SIZE OF 20 PARTICIPANTS, THE CONSTRUCTION OF FIVE VIP MODEL LATRINES. THE LIST DOES NOT INCLUDE MATERIALS FOR BUILDING THE SUPERSTRUCTURE, WHICH SHOULD BE BASED ON WHAT IS TRADITIONALLY USED.

CONSTRUCTION MATERIALS:

- 10 BAGS CEMENT 50 KG EACH
- 3/4 CUBIC METER GRAVEL FOR CONCRETE
- 1/2 CUBIC METER SAND FOR CONCRETE
- 40 PIECES OF REBAR (1 M X 1 CM DIAMETER)
- 5 LARGE CANS FOR WASHING SAND OR GRAVEL

CONSTRUCTION MATERIALS: (CONT.)

- 6 PIECES OF ROPE, EACH 4 METERS LONG
- 10 BUCKETS FOR EARTH OR CONCRETE
- 40 PIECES WOODEN BOARDS 120 CM X 8 CM X 4 CM
- 40 PIECES WOODEN BOARDS 80 CM X 8 CM X 4 CM
- 6 PIECES OF WIRE SCREENS FOR SIFTING GRAVEL
- 200 FLAT HEAD NAILS 6-8 CM LONG
- 200 FLAT HEAD NAILS 2-3 CM LONG
- 4 METERS OF WIRE FOR TYING REBAR

TOOLS:

- 6 WOOD SAWS
- 6 HAMMERS
- 6 SHOVELS
- 6 TROWELS FOR CONCRETE WORK
- 6 TAPE MEASURES
- 1 REBAR CUTTER

TRAINING MATERIALS:

- 2 FLIP CHART EASELS
- 200-300 SHEETS OF LARGE FLIP CHART PAPER

- 25 RING BINDERS
- 25 FILE FOLDERS
- 2 REAMS OF DUPLICATING PAPER
- PENS AND PENCILS

3. ALTHOUGH THE ABOVE LIST MIGHT BE MODIFIED AS PLANS FOR THE WORKSHOP MOVE ALONG, FOR BUDGETING PURPOSES THE LIST CAN BE CONSIDERED TO BE ACCURATE WITH THE EXCEPTION OF THE SUPERSTRUCTURE.

4. REGARDING LABOR, WE ESTIMATE NEEDING THE FOLLOWING:  
- 6 DAYS OF A LOCAL MASON'S TIME  
- 12 DAYS OF DAY LABORER TIME TO ASSIST IN ROUTINE TASKS SUCH AS DIGGING. ASSUME 12 DAYS WOULD MEAN 3 LABORERS X 4 DAYS EACH.

5. DATES NOVEMBER 30 - DECEMBER 14 ARE ACCEPTABLE TO WASH.

6. REQUEST CLARIFICATION ON THREE MATTERS:

- SOIL CONDITIONS AT THE TRAINING SITE.
- CONFIRMATION OF THE TYPE OF LATRINES YOU WISH TO CONSTRUCT, E.G. VENTILATED IMPROVED PIT LATRINE, ZIMBABWE, ETC. IT MIGHT BE POSSIBLE TO BUILD TWO DIFFERENT TYPES DURING THE WORKSHOP.
- KIND OF SUPERSTRUCTURE TRADITIONALLY BUILT.

YOUR RESPONSE MAY MODIFY THE LIST OF MATERIALS SOMEWHAT.

7. HOPE THIS RESPONDS TO YOUR IMMEDIATE NEEDS. EAGLEBURGER

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OTD #167 - October 13, 1983

Technical Assistance for Rainwater Harvesting Workshop - Zaire

AID/Zaire requested WASH assistance to design and deliver a two-week workshop on rainwater harvesting for national rural health workers, missionary health staff and Peace Corps Volunteers. The workshop will concentrate on the technical skills and practices applied in the construction, operation, and maintenance of gutters and above-and-below-ground cistern systems used for household, institutional and community water supply. Previously developed WASH training materials on rainwater harvesting will be adopted to Zaire and translated into French for use in the workshop.

For further information, contact Mr. C. Hafner.

Up to ninety-two person days of effort, seventy days of international/domestic per diem and two international air round trips are authorized over a five month period. Local travel, up to \$1400 per local secretarial, graphics and reproduction services, and up to \$800 for training material development and printing are also authorized.

JEB/CIC  
10/24/83

UNITED STATES INTERNATIONAL DEVELOPMENT COOPERATION AGENCY  
AGENCY FOR INTERNATIONAL DEVELOPMENT  
WASHINGTON, D.C. 20523

ORDER & FORMS, Inc.  
1000 17th St. N.W.  
Washington, D.C. 20036

WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 167  
October 13, 1983

OCT 14 1983

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

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

SUBJECT: Provision of Technical Assistance Under WASH Project  
Scope of Work for USAID/Kinshasa for Rain Water  
Harvesting Workshop

REFERENCE: A) Kinsha 05402, dated 10 May 1983  
B) WASH Telex 774, dated 27 Sept 83  
C) Kinsha 12159, dated 3 Oct 83

1. WASH contractor requested to provide technical assistance to Zaire as per Reference A and C. Technical assistance to consist of a workshop on rain water harvesting for up to 25 participants. Workshop to be held 16-27 January 1984.
2. Wash contractor/subcontractor/consultants authorized to expend up to 92 person days of effort over a five (5) month period to accomplish this technical assistance effort.
3. Contractor authorized up to 70 person days of international and/or domestic per diem to accomplish this effort.
4. Contractor to coordinate with AFR/TR/H, (C. Gurney), AFR/TR/ENGR (J. Snead), Peace Corps/Washington Water and Sanitation Specialist (J. Bell), AID/Zaire Desk Officer and should provide copies of OTD #167 along with periodic progress reports and ETA information as requested by S&T/H/WS and/or Africa Bureau Staff.
5. Contractor authorized to provide up to 2 (two) international round trips from consultants' home base through Washington, D.C. to Zaire and return to home base through Washington, D.C. during life of this OTD.
6. Contractor authorized local travel in Zaire as necessary and appropriate to accomplish mission NTE \$1200 without the prior written approval of the AID WASH Project Manager.

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7. Contractor authorized to obtain secretarial, graphics or reproduction services in Zaire as necessary to accomplish tasks. These services are in addition to the level of effort specified in paragraph(s) 2 and 3 above and NTE \$1400 without written approval of AID WASH Project Manager.
8. Contractor authorized to expend up to \$800 for the training materials for the development or printing/support services associated with paragraph 2, Ref. A. Excess baggage authorized as required to ship any training materials from Washington to Zaire.
9. Contractor authorized to provide for car(s) or vehicle(s) rental if necessary to facilitate effort. Mission is encouraged to provide Mission vehicles, if available and appropriate.
10. WASH contractor will adhere to normal established administrative and financial controls as established for WASH contract mechanism.
11. WASH contractor should definitely be prepared to administratively or technically backstop field consultants and subcontractors.
12. Contractor to provide coordinated draft report in field consisting of recommendations and conclusions to USAID/Zaire before consultants leave the field. Final report due to AID within 30 days of return of consultants from the country and entry into the U.S.
13. New procedures regarding subcontractor cost estimates and contractor selection/justification for subcontractors/consultants remains in effect.
14. Mission and individuals identified in paragraph 4 above should be contacted immediately and technical assistance initiated as soon as possible.
15. Appreciate your prompt attention to this matter. Good luck!

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PAGE 01 KINSHA 05402 100702Z

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9711 041722 A101

ACTION: AID-00

ACTION: OFFICE STHE-01

INFO AFCD-03 AFDR-06 AFCA-03 STAG-02 CASI-01 ENGR-01 AFDA-01  
RELO-01 STNP-01 MACT-01 /021 A4 710

INFO OCT-00 AF-00 /045 V

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R 100659Z MAY 83 ZDK CITE ENCB 4559  
FM AMEMBASSY KINSHASA  
TO SECSTATE WASHDC 3661  
INFO AMEMBASSY ABIDJAN

UNCLAS KINSHASA 05402

AIDAC  
FOR ST/HEA (VIC WEHMAN) FOR PASS TO WASH, TEL. NUMBER (703)  
243-8200

E.O. 12356: N/A  
SUBJECT: BASIC RURAL HEALTH PROJECT (668-0026): PILOT  
RAINWATER HARVESTING/WELLS WORKSHOPS.

1. MISSION REQUESTS WASH CONSULTANT ASSISTANCE FOR TWO  
WATER RELATED WORKSHOPS TO BE ORGANIZED THROUGH THE BASIC  
RURAL HEALTH PROJECT. OBJECTIVES, PARTICIPANTS, DATES, AND  
LOCATIONS OF EACH WORKSHOP AS FOLLOWS:

A) RAINWATER CATCHMENT SYSTEMS (CISTERNS): PARTICIPANTS  
WILL LEARN TECHNICAL SKILLS OF CONSTRUCTING ABOVE AND  
BELOW GROUND CISTERNS APPROPRIATE FOR COLLECTING  
RAINWATER FOR HOSPITALS, HEALTH CENTERS AND COMMUNITY  
DISTRIBUTION. PARTICIPANTS TO INCLUDE APPRX. 12 PEACE  
CORPS VOLUNTEERS, MISSIONARIES, AND NATIONAL NURSES FROM  
RURAL HEALTH ZONES OF THE BRH PROJECT. WORKSHOP SITE IS  
BULAPE HOSPITAL, KASAI OCCIDENTAL, PROPOSED DATES ARE  
AUG. 22 THROUGH SEPT. 3, 1983. LANGUAGE: FRENCH.

B) RAINWATER CATCHMENT/WELLS SYSTEMS: PARTICIPANTS WILL  
LEARN TECHNICAL SKILLS FOR CONSTRUCTING ABOVE GROUND  
CISTERNS AND WATER JARS APPROPRIATE FOR COLLECTION OF  
RAINWATER FOR HOUSEHOLD AND COMMUNITY DISTRIBUTION.  
PARTICIPANTS WILL ALSO LEARN TECHNIQUES IN SHALLOW WELL  
CONSTRUCTION AND HOW WELLS MAY BE INTEGRATED INTO A  
RAINWATER CATCHMENT SYSTEM. PARTICIPANTS TO INCLUDE APPRX.  
15 NURSES, TECHNICIANS AND VILLAGE HEALTH WORKERS.  
WORKSHOP SITE IS HSONA-PANGU, BAS-ZAIRE. PROPOSED DATES  
ARE AUG. 1-13, 1983. LANGUAGE: FRENCH/KIKONGO.

2. MISSION REQUESTS WASH TO SEND A CONSULTANT/TRAINER FOR  
APPRX. 10 WEEKS TDY (JULY 18-SEPT. 18) CONSULTANT MUST  
POSSESS GOOD FRENCH LANGUAGE SKILLS. CONSULTANT RESPON-  
SIBILITIES TO INCLUDE:

- ADVANCE PREPARATION FOR WORKSHOP TO ASSURE THAT ALL MATERIALS ARE READY. MUCH OF THIS WORK WILL BE DONE BY THE LOCAL CO-TRAINER BEFORE ARRIVAL OF WASH CONSULTANT.
- ORGANIZATION OF WORKSHOP SCHEDULE SESSION BY SESSION, PROVIDING APPROPRIATE DIDACTIC MATERIALS. LIMITED REPRODUCTION OF STENCILED MATERIALS AVAILABLE LOCALLY.
- BEING PRINCIPAL INSTRUCTOR AND SUPERVISOR DURING WORKSHOP WITH ASSISTANCE FROM ZAIRIAN OR PEACE CORPS CO-TRAINER.
- EVALUATION OF THE WORKSHOP TO ASSESS THE FEASIBILITY OF CONSTRUCTION TECHNIQUES AND TEACHING APPROACHES USED DURING THE WORKSHOP.
- PREPARATION OF A FINAL REPORT AND RECOMMENDATIONS TO BRH FOR SIMILAR ACTIVITIES IN THE FUTURE.

3. MISSION UNDERSTANDS THAT WASH IS RESPONSIBLE FOR ALL  
INTERNATIONAL AND NATIONAL TRAVEL AND PER DIEM COSTS OF  
THEIR CONSULTANT. PLEASE ADVISE. CONSTABLE

3H/NE

McJunkin  
Austin  
Witten  
~~Wehman~~ JWW

RECEIVED ST/H/WS (WEHMAN) 5-11-83  
PASSED TO WASH 5-11-83

Gump, Grosser & McKee, Inc.  
WASH PROJECT

MAY 11 1983

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Western Union International

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WASHAID 64552

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13-591

TO: FRANK BAER, ECZ

FROM: CRAIG HAFNER WASH

RE: ZAIRE TELEX 9/26

WASH TELEX 774

Western Union International, Inc.

1. JANUARY DATE FOR RAINWATER HARVESTING WRKSHF IN NSONA-PANGU SOUNDS FINE.

2. TIN & JENNINGS BOTH AVAILABLE

3. SUGGEST FOLLOWING SCHEDULE FOR YOUR APPROVAL:

DEC 30-31 - TIN/JENNINGS ETA

JAN 1-15 - PLANNING & PREPARATION-KINSHASA, NSONGA-PANGU

JAN 16-27 - WORKSHOP - NSONA-PANGU

JAN 28-FEB 1-2, WRAP-UP, REPORT WRITING

FEB 3 - TIN/JENNINGS ETD

4. IF AGREEABLE, PLS HAVE USAID/KINSHASA CONFIRM LOCATION, DATES, TIN/JENNINGS & SCHEDULE VIA CABLE. MANY THANKS. JH

21379 E C Z ZR.....  
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WESTERN UNION Telex



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PAGE 01 KINSHA 12159 030947Z

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ACTION OFFICE STHE-01  
INFO AAAP-02 AFDR-06 AFCA-03 SAST-01 IT-06 AFDA-01 RELO-01  
STHP-01 MAST-01 /023 A1 11-3

INFO OCT-00 /035 W

026347 030948Z /38

R 030934Z OCT 83  
FM AMEMBASSY KINSHASA  
TO SECSTATE WASHDC 6730

UNCLAS KINSHASA 12159

AIDAC

FOR: ST/HEA FOR PASS TO WASH ATTENTION HAFNER TELE (703)  
243-8200  
E.O. 12356: N/A  
SUBJECT: RAIN CATCHMENT WORKSHOP

REF: A) WASH TELEX 774, B) STATE 258274

BASIC RURAL HEALTH PROJECT CONFIRMS REQUEST FOR WASH ASSISTANCE IN RAINWATER CATCHMENT SYSTEMS WORKSHOP TO BE HELD JAN 16-27, 1984 AT NSONA-MPANGU. BRH ACCEPTS WASH CONSULTANTS JENNINGS AND TIN TO CARRY OUT THIS WORKSHOP AND CONCURS WITH THEIR ARRIVAL ON/AROUND DEC 30 1983 FOR TWO WEEKS ADVANCE PREPARATION BEFORE WORKSHOP BEGINS AND FOR ONE WEEK WRAP UP AFTER WORKSHOP IS COMPLETED. WORKSHOP PARTICIPANTS TO INCLUDE APPRX 6 PCV'S AND 6-8 NATIONAL HEALTH TECHNICIANS OF AT LEAST 2-3 YEAR POST-PRIMARY EDUCATION. MOST NATIONALS WILL PROBABLY BE AUXILIARY NURSES WHO HAVE COMPLETED AN EDUCATION EQUIVALENT TO HIGH SCHOOL LEVEL AND HAVE PREVIOUS EXPERIENCE IN PRIMARY HEALTH CARE PROGRAM. ALL TRAINING MATERIALS SHOULD BE IN FRENCH. CONSTABLE

McJURKIN  
Austin  
WITTEN  
~~WEHMAN~~  
UW

15391

RECEIVED ST/H/WS (WEHMAN) 10-5-83  
PASSED TO WASH 10-5-83

RECEIVED OCT 10 1983

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313

WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 167  
Amendment No. 1  
7 March 1984

TO: 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  
AID/S&T/H/WS

SUBJECT: Provision of Technical Assistance Under WASH Project  
Scope of Work for USAID/Kinshasa for Rain Water  
Harvesting Workshop

REFERENCES: A) OTD # 167, dated 13 October 1983

1. Para 2 of subject OTD # 167 (Ref A) is cancelled. New para 2 to subject OTD # 167 (Ref A) is now to read as follows:

"2. WASH contractor/subcontractor/consultants authorized to expend up to 103 person days of effort over a 5 month period to accomplish this technical assistance effort."

2. Para 3 of subject OTD # 167 (Ref A) is cancelled. New para 3 to subject OTD # 167 (Ref A) is now to read as follows:

"3. Contractor authorized to expend up to 81 person days of international/domestic per diem to accomplish this effort."

3. Nothing follows.

Camp Dresser & McKee Inc.  
WASH PROJECT

MAR 27 1984

314

OTD #168 - October 19, 1983

Technical Assistance in Evaluation of Rural Water-Borne  
Disease Control Project - Swaziland

AID/Swaziland requested WASH assistance in conducting a mid-project evaluation of the Rural Waterborne Disease Control Project. The project has three major inter-related components--health education, environmental sanitation and public health engineering, and a survey of schistosomiasis and water-related diseases--aimed at expanding the capacity of the government to deliver effective preventive health services. In addition to assessing progress on eighteen specific aspects of the project, the WASH evaluation team will review the scope and content of the project, work plan priorities and time requirements and the appropriateness of the implementation strategy and of support received by the contracting team. The team will also assess the need for a post-project knowledge, attitudes and practices survey, and make appropriate recommendations.

For further information, contact Mr. C. Hafner.

Up to seventy-one person days of effort, seventy days of international/domestic per diem and three international air round trips are authorized over a four month period. Up to \$1400 for local travel and up to \$1100 for secretarial, graphics, and reproduction services are also authorized.

JEB/CIC  
10/24/83

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WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 168  
19 October 1983

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

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

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

REFERENCES: A) Mbabane 2991, dated 6 Oct 1983  
B) State 296943, dated 18 Oct 1983

1. WASH contractor requested to provide technical assistance to USAID/Swaziland as per Ref A, para 1-2. Contractor to utilize consultants to carry out evaluation USAID/Swaziland Rural Water-Borne Disease Control Project (645-0087)
2. WASH contractor/subcontractor/consultants authorized to expend up to 71 person days of effort over a four (4) month period to accomplish this technical assistance effort.
3. Contractor authorized to expend up to 70 person days of international/domestic per diem to accomplish this effort.
4. Contractor to coordinate with USAID/Swaziland project evaluation officer, AFR/DR/HNP (C. Gurney), AFR/TR/ENG (J. Snead), Swaziland Desk Officer (Leroy Jackson) and should provide copies of this OTD along with periodic progress reports as requested by AFR Bureau, USAID/Swaziland or S&T/H staff.
5. Contractor authorized to provide up to three (3) international round trips from consultants home base through Washington D.C. (for briefings and preparation to Swaziland and return to consultants home base through Washington (for debriefing and report work) during life of this OTD.
6. Contractor authorized local travel in Swaziland as necessary and appropriate to accomplish this technical assistance. Local travel costs NTE \$ 1400 during technical assistance effort without the written approval of the AID WASH Project Manager.
7. Contractor authorized to obtain secretarial, graphics, or reproduction services in Swaziland as necessary to accomplish tasks. Mission encouraged to assist in secretarial services to team if appropriate and available. These services are in addition to the level of effort specified in para 2 and 3 above and NTE \$ 1100 without the written approval of the AID WASH Project Manager.

8. Contractor authorized to provide for car(s) or vehicles as necessary and appropriate to facilitate effort. USAID is encouraged to provide mission vehicles if available and appropriate. Contractor NTE \$ 1400 for local transportat: associated with the paragraph without the written approval of the AID WASH Project Manager.
9. WASH contractor will adhere to normal established administrative and financial controls as established for WASH mechanism in WASH contract.
10. WASH contractor should definitely be prepared to administratively or technically backstop field consultants and subcontractors.
11. New procedures regarding subcontractor selection/justification and consultant selection/justification remain in effect. Cost estimates for subcontractors must be approved by S&T/H/WS Project Manager.
12. Contractor to provide coordinated draft report to USAID/Swaziland before consultants leave the country. Final report is due to AID within 30 days of return of consultants or team leader to the U.S. Coordinated draft report to be prepared in English.
13. USAID/Swaziland and individuals identified in para 4 above should be contacted immediately and technical assistance initiated as soon as possible and/or convenient to USAID/Swaziland.
14. Appreciate your prompt attention to this matter. Good luck.

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PAGE 01 MBABAN 02991 01 OF 03 060811Z 8309 044164 AID4159  
ACTION AID-00

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ACTION OFFICE AFSA-03  
INFO: AAF-02 AFDP-06 AFDR-06 PPCE-01 PPPB-02 FM-02 STHE-01  
SAST-01 ENGR-01 AFDA-01 STEN-01 AGRI-01 RELO-01 STHP-01  
MAST-01 /031 A1 11-6

CONTROL PROJECT TEAM AND OFFICIALS OF SWAZILAND'S  
MINISTRY OF HEALTH (MOM), MINISTRY OF WORKS (MOW),  
SWAZILAND BROADCASTING SERVICES (SBS), RURAL WATER SUPPLY  
BOARD (RWGB) AND THE DEPARTMENT OF ECONOMIC PLANNING AND  
STATISTICS (DEPS).

INFO OCT-00 INR-10 AF-00 CIAE-00 EB-01 DODE-00 /063 V  
201143 060813Z /30

THE EVALUATION TEAM WILL REVIEW PROJECT REPORTS,  
MEMORANDA, WORKPLANS AND OTHER RELEVANT MATERIALS AND  
MAKE FIELD VISITS AS NECESSARY.

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FM AMEMBASSY MBABANE  
TO SECSTATE WASHDC PRIORITY 0309

B. WITHIN THE CONTEXT OF THE PROJECT PURPOSE STATED  
ABOVE, THE EVALUATION TEAM WILL ASSESS PROGRESS TOWARDS  
THE FOLLOWING PROJECT OBJECTIVES AND OUTPUTS AND THE  
APPROPRIATENESS OF THE METHODOLOGIES BEING EMPLOYED BY  
THE CONTRACTOR IN ACHIEVING SUCH PROGRESS:

UNCLAS SECTION 01 OF 03 MBABANE 02991

AIDAC

FOR AFR/SA (R. WRIN) AND AFR/PD/SA (L. JACKSON)

E.O. 12356: N/A

SUBJECT: EVALUATION OF RURAL WATER-BORNE DISEASE  
CONTROL PROJECT (645-0087)

- 1. THE ESTABLISHMENT OF BASELINE DATA ON KNOWLEDGE, ATTITUDES AND PRACTICES OF RURAL SWAZIS WITH REGARD TO WATER, SANITATION AND PERSONAL HYGIENE AND THE USE OF SUCH DATA TO GUIDE THE DESIGN OF THE HEALTH EDUCATION AND COMMUNICATION PROGRAMS AND PROVIDE A BASIS FOR MEASUREMENT OF PROJECT IMPACT.
- 2. THE DEVELOPMENT OF A HEALTH EDUCATION STRATEGY.
- 3. THE PREPARATION OF A NATIONAL HEALTH EDUCATION IMPLEMENTATION PLAN TO INCLUDE: A SYSTEM FOR CONTENT, DESIGN, COMMUNICATION CHANNELS, AND METHODOLOGIES.
- 4. THE ESTABLISHMENT AND FILLING OF STAFF POSITIONS AT THE HEALTH EDUCATION UNIT AND THE PROVISION OF TRAINING TO SUCH STAFF AS NECESSARY AND APPROPRIATE.
- 5. IN-SERVICE TRAINING TO COMMUNITY HEALTH AND RELATED WORKERS, INCLUDING HEALTH ASSISTANTS, RURAL

1. AID/W IS REQUESTED TO ISSUE PIO/T AND NEGOTIATE A DELIVERY ORDER WITH AN APPROPRIATE IQC FIRM (OR POSSIBLY WITH WASH) FOR THE EVALUATION SERVICES OUTLINED BELOW. BECAUSE OF PERSONNEL MOVEMENTS AND THE NEED TO USE EVALUATION RESULTS IN PREPARATION OF USAID/SWAZILAND COSS, FIELD WORK MUST BE COMPLETED ON OR BEFORE NOVEMBER 18. WE WILL APPRECIATE YOUR EFFORTS TO EXPEDITE CONTRACTOR SELECTION AND ARRIVAL IN FIELD BY OCTOBER 18.

2. FISCAL DATA IS AS FOLLOWS: (FUNDS AVAILABLE)

- PIO/T NUMBER: 645-0087-3-00095
- APPROPRIATION: 72-11M1021.0
- BPC: GDAR-88-21645-CG18

SCOPE OF WORK

A. CONTRACTOR WILL PROVIDE A THREE-PERSON TEAM FOR THREE WEEKS TO UNDERTAKE A MID-PROJECT EVALUATION OF USAID/SWAZILAND'S RURAL WATER-BORNE DISEASE CONTROL PROJECT (645-0087). THIS PROJECT IS A MULTIDISCIPLINARY HEALTH PROJECT WHICH ADDRESSES THE PROBLEM OF HIGH MORBIDITY AND MORTALITY ASSOCIATED WITH WATER-RELATED DISEASES IN RURAL SWAZILAND. THE PROJECT CONSISTS OF THREE MAJOR INTER-RELATED COMPONENTS: HEALTH EDUCATION; ENVIRONMENTAL SANITATION AND PUBLIC HEALTH ENGINEERING; AND SCHISTOSOMIASIS AND WATER-RELATED DISEASE SURVEY (EPIDEMIOLOGY). IN ADDITION, A SOCIAL SCIENTIST (ANTHROPOLOGIST) HAS COMPLETED A KNOWLEDGE, ATTITUDE AND PRACTICES (KAP) AND OTHER STUDIES. THE PURPOSE OF THE PROJECT IS TO EXPAND THE CAPACITY OF THE GOVERNMENT OF SWAZILAND TO DELIVER EFFECTIVE PREVENTIVE HEALTH SERVICES TO COMBAT DISEASES RELATED TO WATER AND POOR SANITATION. THE ACADEMY FOR EDUCATIONAL DEVELOPMENT (AED), WITH A SUBCONTRACT WITH THE AMERICAN PUBLIC HEALTH ASSOCIATION (APHA), HAS BEEN CONTRACTED BY USAID/SWAZILAND TO PROVIDE LONG-TERM EXPERTISE IN HEALTH EDUCATION, PUBLIC HEALTH ENGINEERING, ENVIRONMENTAL SANITATION, RURAL SOCIOLOGY AND EPIDEMIOLOGY IN MEETING PROJECT OBJECTIVES.

THE EVALUATION WILL BE CONDUCTED DURING THE PERIOD OCTOBER 18 THROUGH NOVEMBER 18, 1983, BY AN EVALUATION TEAM CONSISTING OF A HEALTH EDUCATION EXPERT, A PUBLIC HEALTH/SANITARY ENGINEER AND AN EPIDEMIOLOGIST. THE EVALUATION TEAM WILL WORK WITH THE USAID/SWAZILAND REGIONAL HEALTH DEVELOPMENT OFFICER, AND CONDUCT INTERVIEWS WITH MEMBERS OF THE RURAL WATER-BORNE DISEASE

McJunkin  
Austin  
Witten  
WEHMAN  
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Received ST/A/WS (Wehman)  
10-14-83

Passed to WASH 10-14-83

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INFO AAAF-02 AFOP-06 AFOR-06 PPCE-01 PPPB-02 FM-02 STNE-01  
SAST-01 ENGR-01 AFDA-01 STEN-01 AGRI-01 RELO-01 STNP-01  
HAST-01 /031 A1 11-6

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TO SECSTATE WASHDC PRIORITY 0310

UNCLAS SECTION 02 OF 03 MBABANE 02991

AIDAC

FOR AFR/SA (R. VRIN) AND AFR/PD/SA (L. JACKSON)

E.O. 12356: N/A  
SUBJECT: EVALUATION OF RURAL WATER-BORNE DISEASE

HEALTH MOTIVATORS, DOMESTIC SCIENCE DEMONSTRATORS AND  
OTHER EXTENSION WORKERS.

- 6. SURVEY OF THE PREVALENCE OF SCHISTOSOMIASIS AND  
OTHER INTESTINAL PARASITES, TRAINING FOR BILHARZIA UNIT  
STAFF IN METHODOLOGIES FOR IDENTIFYING SCHISTOSOMIASIS  
AND OTHER INTESTINAL PARASITES AND THE DEVELOPMENT OF  
PROCEDURES TO BE FOLLOWED IN FUTURE SURVEYS OF  
SCHISTOSOMIASIS AND OTHER PUBLIC HEALTH PROBLEMS.

- 7. UTILIZATION OF SCHISTOSOMIASIS SURVEY RESULTS TO  
ESTABLISH PRIORITIES FOR WATER SUPPLIES, SANITATION, AND  
HEALTH EDUCATION PROGRAMS.

- 8. THE DEVELOPMENT OF DESIGNS FOR PIT LATRINES WHICH  
CAN BE MODIFIED ON THE BASIS OF RESULTS OF THE  
DEMONSTRATION PROGRAM IN WHICH APPROXIMATELY 2,000  
LATRINES WILL BE CONSTRUCTED AND ESTABLISHMENT OF  
CRITERIA FOR THE SELECTION OF HOMESTEADS TO RECEIVE  
DEMONSTRATION LATRINES.

- 9. THE TRAINING OF 42 HEALTH ASSISTANTS IN THE  
SITING AND CONSTRUCTION OF IMPROVED PIT LATRINES,  
COMMUNICATION SKILLS AND COMMUNITY MOBILIZATION.

- 10. ESTABLISHMENT AND TRAINING OF 200 COMMUNITY  
SANITATION COMMITTEES.

- 11. DEVELOPMENT OF MINIMUM DESIGN CRITERIA FOR THE  
SANITATION PROGRAM.

- 12. THE REVIEW OF ALL DESIGNS FOR DAMS, RESERVOIRS,  
FISHPONDS, WATER SUPPLY, IRRIGATION SCHEMES, AND OTHER  
MAJOR WATER WORKS PLANNED DURING THE LIFE OF THE  
PROJECT TO MAKE RECOMMENDATIONS CONCERNING THE HEALTH  
IMPLICATIONS OF SUCH DESIGNS AND MEASURES TO MINIMIZE  
NEGATIVE IMPACTS.

- 13. ESTABLISHMENT AND FILLING OF A POSITION FOR A  
PUBLIC HEALTH ENGINEER IN THE MINISTRY OF HEALTH AND  
TRAINING OF THE INDIVIDUAL SELECTED TO THE B.SC. LEVEL  
IN PUBLIC HEALTH ENGINEERING.

C. WHILE ESSENTIAL TO THE PROJECT'S SUCCESS A NUMBER OF  
FUNCTIONS ARE NOT SPECIFICALLY IDENTIFIED IN PROJECT  
DOCUMENTS. THE CONTRACTOR SELECTED FOR THIS EVALUATION  
MUST ASSESS PROGRESS TO DATE IN THE FOLLOWING AREAS:

- 1. THE IDENTIFICATION OF FACTORS AFFECTING COMMUNITY  
MOBILIZATION FOR CARRYING OUT HEALTH AND OTHER  
DEVELOPMENT-RELATED PROJECTS AND THE FORMULATION OF  
STRATEGIES FOR MOBILIZING COMMUNITY ACTION. THIS IS,  
FOR EXAMPLE, A KEY FACTOR IN THE EFFECTIVE IMPLEMENTATION  
OF THE RURAL SANITATION PROGRAM.

- 2. REVIEW OF THE POTENTIAL FOR TRADITIONAL HEALERS  
TO BE A RESOURCE FOR STIMULATING COMMUNITY ACTIVITIES  
IN HEALTH AND FOR EFFECTING CHANGES IN ATTITUDES AND  
HEALTH PRACTICES.

- 3. STRENGTHENING THE MANAGEMENT AND SUPERVISION OF  
THE HEALTH INSPECTORATE.

- 4. THE DESIGN AND IMPLEMENTATION OF A DIARRHEAL  
DISEASE SURVEY TO ASSESS THE NATURE AND MAGNITUDE OF THE  
DIARRHEAL DISEASE PROBLEM IN SWAZILAND AND TO PROVIDE A  
BASIS FOR PLANNING AND ASSESSMENT OF PREVENTIVE AND  
CONTROL MEASURES.

- 5. THE PLANNING AND IMPLEMENTATION IN COLLABORATION  
WITH THE SWAZILAND BROADCASTING SERVICES, THE MINISTRY  
OF AGRICULTURE AND COOPERATIVES, AND THE MINISTRY OF  
EDUCATION, OF A MASS MEDIA CAMPAIGN IN SUPPORT OF, AND  
COORDINATED WITH, EXTENSION ACTIVITIES FOR THE CONTROL  
OF WATER-RELATED DISEASES.

D. THE CONTRACTOR WILL ALSO BE EXPECTED TO REVIEW THE  
SCOPE OF THE PROJECT AND THE APPROPRIATENESS OF THE  
APPROACH/STRATEGY USED IN ITS IMPLEMENTATION. ATTENTION  
SHOULD ALSO BE GIVEN TO THE EXTENT AND NATURE OF SUPPORT  
PROVIDED THE CONTRACTOR FIELD TEAM BY AED/WASHINGTON AND  
USAID/SWAZILAND.

THE EVALUATION TEAM WILL REVIEW THE PROGRESS BEING MADE  
BY AED CONTRACTOR PERSONNEL AND MAKE RECOMMENDATIONS, AS

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RECOMMENDATIONS CLEARLY TO THE GOVERNMENT OF SWAZILAND  
AND USAID/SWAZILAND.

ACTION OFFICE AFSA-03

INFO AAJF-02 AFDP-05 AFDR-05 PPCE-01 PPPB-02 FM-02 STHE-01  
SAST-01 ENGR-01 AFDA-01 STEN-01 AGRI-01 RELO-01 STHP-01  
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TO SECSTATE WASHDC PRIORITY 0311

UNCLAS SECTION 03 OF 03 MBABANE 02991

AIDAC

FOR AFR/SA (R. WRINI) AND AFR/PO/SA (L. JACKSON)

E.O. 12336: N/A  
SUBJECT: EVALUATION OF RURAL WATER-BORNE DISEASE

APPROPRIATE, FOR EXTENSIONS OR REDUCTIONS IN THE PERIODS  
OF SERVICE REQUIRED TO ACHIEVE PROJECT OBJECTIVES. THE  
EVALUATION TEAM SHOULD ASSESS THE NEED FOR A POST-  
PROJECT KNOWLEDGE, ATTITUDES, AND PRACTICES SURVEY TO  
BE CARRIED OUT DURING THE FINAL YEAR OF THE PROJECT.  
THE EVALUATION REPORT SHOULD CONTAIN RECOMMENDATIONS  
REGARDING WORKPLAN PRIORITIES FOR REMAINING LIFE OF  
THE PROJECT.

- 2. THE SECOND TEAM MEMBER SHOULD HAVE AN ADVANCED  
DEGREE IN EPIDEMIOLOGY AND RECENT RELEVANT EXPERIENCE  
IN SCHISTOSOMIASIS AND OTHER WATER-BORNE PARASITIC  
DISEASES. EXPERIENCE IN SURVEY DESIGN AND IMPLEMENTATION  
IS PARTICULARLY IMPORTANT. A PERSON WHO HAS CONDUCTED  
SUCCESSFUL EVALUATIONS OF SCHISTOSOMIASIS SURVEYS IN  
PROJECTS FINANCED BY AID, WHO, WORLD BANK, FORD FOUNDATIO  
OR OTHER DONOR AGENCIES WOULD BE MOST APPROPRIATE.

- 3. THE THIRD TEAM MEMBER SHOULD HAVE EXTENSIVE  
EXPERIENCE IN THE DESIGN AND EVALUATION OF PROGRAMS TO  
EDUCATE THE GENERAL PUBLIC IN BETTER COMMUNITY HEALTH  
PRACTICES AND IMPROVED PERSONAL HYGIENE. WORK IN SUCH  
PROGRAMS DIRECTED TOWARD IMPROVING HEALTH CONDITIONS IN  
TRADITIONAL SOCIETIES IS MOST IMPORTANT. THE INDIVIDUAL  
SHOULD HAVE AN ADVANCED DEGREE IN PUBLIC HEALTH EDUCATION  
OR A RELATED FIELD AND SKILLS AS A CHANGE AGENT IN  
TRADITIONAL SOCIETIES, BUT A PERSON WITH AN ADVANCED  
DEGREE IN RURAL SOCIOLOGY OR SOCIAL ANTHROPOLOGY TOGETHER  
WITH HEALTH EDUCATION EXPERIENCE WOULD ALSO BE FULLY  
ACCEPTABLE. THIS TEAM MEMBER SHOULD, IN ADDITION TO  
BEING CULTURALLY SENSITIVE, BE SKILLED AT CONCEPTUALIZING  
THE INPUTS FROM A SOCIAL SCIENTIST INTO PRACTICAL HEALTH  
EDUCATION, MASS MEDIA COMMUNICATION AND COMMUNITY  
MOBILIZATION STRATEGIES AND ACTION PROGRAMS. PHINNY

E. QUALIFICATIONS OF TEAM MEMBERS (ONE OF THE THREE TEAM  
MEMBERS MUST BE DESIGNATED TEAM LEADER):

1. THE TEAM LEADER SHOULD HAVE AN ADVANCED DEGREE IN  
PUBLIC HEALTH/SANITARY ENGINEERING, PREFERABLY AT THE  
PH.D. LEVEL. THE INDIVIDUAL SHOULD BE FAMILIAR WITH  
DESIGNS FOR DAMS, RESERVOIRS, FISHPOND, WATER SUPPLY  
SYSTEMS, IRRIGATION SCHEMES AND OTHER WATER WORKS AND  
THE HEALTH IMPLICATIONS OF SUCH DESIGNS AND MEASURES TO  
MINIMIZE NEGATIVE HEALTH IMPACTS. IN ADDITION, HE SHOULD  
ALSO HAVE EXPERIENCE IN THE DESIGN OF PIT LATRINES. THE  
EXPERT MUST HAVE ANALYTICAL SKILLS AND INSTITUTIONAL  
BUILDING AND TECHNOLOGY TRANSFER EXPERIENCE APPROPRIATE  
TO MEASURE PROGRESS IN AREAS OF PROJECT IMPLEMENTATION.  
THE TEAM LEADER MUST BE ABLE TO PRESENT FINDINGS AND

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ORIGIN AID-00 3471 052129 AID3716

STATE 296943  
USAID/SWAZILAND, TO DISCUSS C.V.S OF CANDIDATES 3471 052129 AID

ORIGIN OFFICE AFR-06  
INFO AFSA-03 STHE-01 SAST-01 RELO-01 HAST-01 /013 A2 1219

4. SEVERAL MONTHS AGO, AFR/PD/SA MAILED CAROL STEEL A COPY OF DOCUMENT ENTITLED 'UNIFORM PROCEDURES FOR THE ISSUANCE OF WORK ORDER UNDER AGENCY WIDE-100'S' ISSUED BY THE OFFICE OF CONTRACT MANAGEMENT. PLEASE REFER TO THIS PUBLICATION WHEN PREPARING DOCUMENTS WHICH MAY REQUIRE AID/W ACTION ON AN IOG WORKORDER PROCUREMENT BASIS. SHULTZ

INFO OCT-80 INR-10 AF-00 EB-00 /063 R

DRAFTED BY AID/AFR/PD/SA: LJACKSON: AGB  
APPROVED BY AID/AFR/PD/SA: MGILBERT  
AID/AFR/SA: SPULASKI  
AID/S&T/H: VVEHMAN (INFO)  
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AIDAC

E.O. 12356: N/A

TAGS:

SUBJECT: SWAZILAND RURAL WATER-BORN DISEASE CONTROL  
(645-0007)

REFERENCE: MBABANE 2991

1. RE REFTEL, AID/W WORKING WITH WASH OFFICE TO FULFILL REQUEST FOR THREE-PERSON EVALUATION TEAM.

2. EVALUATION SCOPE OF WORK WILL BE EXPANDED TO INCLUDE THE NINE EXECUTIVE SUMMARY QUESTIONS WHICH AFR/DP REQUIRES OF ALL PROJECT EVALUATIONS:

--- I. WHAT CONSTRAINTS DOES THIS PROJECT ATTEMPT TO OVERCOME?

--- II. WHAT TECHNOLOGY DOES THIS PROJECT PROMOTE TO RELIEVE THIS CONSTRAINT?

--- III. WHAT TECHNOLOGY DOES THIS PROJECT ATTEMPT TO REPLACE?

--- IV. WHY DO PROJECT PLANNERS BELIEVE THAT INTENDED BENEFICIARIES WILL ADOPT THE PROPOSED TECHNOLOGY?

--- V. WHAT CHARACTERISTICS DO INTENDED BENEFICIARIES EXHIBIT THAT HAVE RELEVANCE TO THEIR ADOPTING THE PROPOSED TECHNOLOGY?

--- VI. WHAT ADOPTION RATE HAS THIS PROJECT OR PREVIOUS PROJECTS ACHIEVED IN TRANSFERRING THE PROPOSED TECHNOLOGY?

--- VII. WILL THE PROJECT SET IN MOTION FORCES THAT WILL INDUCE FURTHER EXPLORATION OF THE CONSTRAINTS AND IMPROVEMENTS TO THE TECHNOLOGICAL PACKAGE PROPOSED TO OVERCOME IT?

--- VIII. DO PRIVATE INPUT SUPPLIES HAVE AN INCENTIVE TO EXAMINE THE CONSTRAINT ADDRESSED BY THE PROJECT AND COME UP WITH SOLUTIONS?

--- IX. WHAT DELIVERY SYSTEM DOES THE PROJECT EMPLOY TO TRANSFER THE NEW TECHNOLOGY TO INTENDED BENEFICIARIES?

3. IT APPEARS THAT WASH MAY HAVE AT LEAST FOUR EPIDEMIOLOGIST AND HEALTH/SANITARY ENGINEER POSITIONS TO PROPOSE FOR USAID/SWAZILAND CONSIDERATION BY WEEK OF OCT. 17. WASH REP. CRAIG HAFNER PLANS TO TELEPHONE

*McJunkin*

*Wohman*

*Austin*

*Coyle*

Received ST/HWS (Wohman) 10-19-83  
Passed to WASH 10-20-83

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WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 168  
Amendment No. 1  
27 March 1984

TO: 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  
AID/S&T/H/WS

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

REFERENCES: A) OTD # 168, dated 19 October 1983

1. Para 2 of subject OTD # 168 (Ref A) is cancelled. New para 2 to subject OTD #168 (Ref A) is now to read as follows:

"2. WASH contractor/subcontractor/consultants authorized to expend up to 71 person days of effort over a 6 month period to accomplish this technical assistance effort."

2. Para 3 of subject OTD # 168 (Ref A) is cancelled. New para 3 to subject OTD # 168 (Ref A) is now to read as follows:

"3. Contractor authorized to expend up to 74 person days of international/domestic per diem to accomplish this effort."

3. Nothing follows.

Camp Dresser & McKee Inc.  
WASH PROJECT

MAR 27 1984

*322*

OTD # 170 - October 21, 1983

Technical Assistance for Development of Project Paper  
Amendment for Rural Water Supply and Sanitation Project - Togo

Cancelled at Mission request.

WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 170  
21 October 1983

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

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

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

REFERENCES: A) Lome 5857, dated 7 Oct 1983

1. WASH contractor requested to provide technical assistance to USAID/Togo as per Ref A, para 1-2. Consultant to participate in development of Project Paper Amendment for Togo Rural Water Supply and Sanitation Project (693-0210).
2. WASH contractor/subcontractor/consultants authorized to expend up to 25 person days of effort over a three (3) month period to accomplish this technical assistance effort.
3. Contractor authorized to expend up to 20 person days of international/domestic per diem to accomplish this effort.
4. Contractor to coordinate with USAID/Lome, AFR/TR/HN (C. Gurney), AFR/TR/ENG (J. Snead), Togo Desk Officer (Mable Nears) and should provide copies of this OTD along with periodic progress reports as requested by AFR Bureau, USAID/Lome or S&T/H staff.
5. Contractor authorized to provide up to one (1) international round trip from consultants home base through Washington D.C. (for briefing) to Lome, Togo and return to consultants home base through Washington D.C. (for debriefing and report preparation) during life of this OTD.
6. Contractor authorized local travel in Togo as necessary and appropriate to accomplish this technical assistance. Local travel NTE \$800 without the written approval of the AID WASH Project Manager. USAID/Togo is encouraged to provide local transportation where appropriate and available.
7. Contractor authorized to obtain secretarial, graphics, interpreter or reproduction services in Togo as necessary to accomplish tasks. These services are in addition to the level of effort specified in para 2 and 3 above and NTE \$1100 without the written approval of the AID WASH Project Manager. USAID/Togo is encouraged to provide WASH consultant with secretarial/graphics/reproduction/interpreter services when available and appropriate.

8. Contractor authorized to provide for car or vehicle rental as necessary to facilitate effort. USAID is encouraged to provide mission vehicles and/or transportation if available and appropriate.
9. WASH contractor will adhere to normal established administrative and financial controls as established for WASH mechanism in WASH contract.
10. WASH contractor should definitely be prepared to administratively or technically backstop field consultants and subcontractors.
11. New procedures regarding subcontractor selection/justification and consultant selection/justification remain in effect. Cost estimates for subcontractors must be approved by S&T/H/WS Project Manager.
12. Contractor to provide coordinated draft report to Project Paper Amendment Officer in the USAID/Togo or his designate as this is a team effort involving several different organizations. Final report is due to AID within 30 days of return of consultants to the U.S. Coordinated draft report to be prepared for the USAID/Togo in English. If mission indicates necessity by cable to S&T/H, final report could be prepared in French; if not, then final report should be prepared in English. If possible, S&T/H would prefer to not prepare a final report on the effort if the amended Project Paper document is satisfactory to USAID/Togo.
13. USAID/Togo and individuals identified in para 4 above should be contacted immediately and technical assistance initiated as soon as convenient to USAID/Togo.
14. Appreciate your prompt attention to this matter. Good luck.

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SAST-01 ENGR-01 RELO-01 TELE-01 MAST-01 /022 AL X07

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INFO AMEMBASSY ABIDJAN

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AIDAC AID/W FOR S&T/H/WS FOR WENMAN PLS PASS WASH  
--- FOR HAFNER/ISELY; ABIDJAN FOR CLOUTIER

E.O. 12356: N/A  
SUBJECT: TOGO RURAL WATER (693-0210)  
--- PROJECT PAPER (PP) AMENDMENT: REQUEST FOR WASH  
--- ASSISTANCE IN PROVIDING AN ENVIRONMENTAL/  
--- SANITATION ENGINEER FOR DESIGN TEAM

REF: ABIDJAN 13107, PARA. 1

1. OAR REQUESTS WASH ASSISTANCE IN PROVIDING AN ENVIRONMENTAL/SANITATION ENGINEER TO WORK IN TOGO WITH DESIGN TEAM (CLOUTIER AND JENKINS OF REDSO TOGETHER WITH THE OAR SUPPORT TEAM OF GUILD AND OTHERS), FOR A PERIOD OF THREE WEEKS STARTING IN 10 DAYS TO PREPARE A BASIC ENVIRONMENTAL ANALYSIS OF THE ONGOING PROJECT FOR THE SUBJECT PP REVISION.

2. BETWEEN 17 OCT AND 5 NOV 83 OAR AND REDSO WILL BE DRAFTING THE SUBJECT AMENDMENT FOR A THREE YEAR LIFE OF PROJECT EXTENSION TOGETHER WITH A FUNDING INCREASE OF APPROX. DOLS 3.9 MILLION. THIS AMENDMENT WILL DRAW HEAVILY ON THE MANAGEMENT, HEALTH, ENGINEERING, SOCIAL AND ECONOMIC ANALYSIS PORTIONS OF THE OFFICIAL MID-TERM PROJECT EVALUATION OF MARCH 83. WASH HAS HAD PRIOR INVOLVEMENT WITH SUBJECT PROJECT AND AFOREMENTIONED EVALUATION. DR. RAY ISLEY OF WASH PARTICIPATED IN THIS EVALUATION. PIERRE LEGER, WASH CONSULTANT, IS ALSO FAMILIAR WITH PROJECT. AMONG OTHER THINGS, THE EVALUATION RECOMMENDS THAT THIS PP AMENDMENT REMOVE THE RESTRICTION LIMITING THE PROJECT TO WELL DRILLING ONLY, AND EXPAND INTO OTHER TYPES OF WATER SUPPLY SUCH AS SPRING CAPTATION, GRAVITY WATER SYSTEMS, INFILTRATION GALERIES, VILLAGE SIZE RAIN WATER CISTERNS, ETC. UNFORTUNATELY, THE RECENT PROJECT EVALUATION DID NOT PRODUCE MATERIAL WHICH COULD BE BROUGHT FORWARD AND USED, TO UPDATE THE ORIGINAL ENVIRONMENTAL/SANITATION IMPACT STATEMENT, TO SUPPORT THIS EXPANDED WATER SUPPLY RECOMMENDATION. THE REQUESTED ENVIRONMENTAL/SANITATION ENGINEER WILL BE RESPONSIBLE FOR THE PRODUCTION OF THIS TECHNICAL PORTION OF THE PP AMENDMENT AND AUTHORIZATION REVISION. REQUIRED TASK FOR THE ENGINEER CAN BE ACCOMPLISHED BY ONE PERSON OVER THREE WEEKS TIME, PRIMARILY IN LOME, WITH FIELD VISITS AS REQUIRED. THE ENGINEER MUST HAVE A FRENCH LEVEL OF FSI 5-3, AND FIELD AND GEOGRAPHICAL WORKING EXPERIENCE IN THE ABOVE TASK.

3. OAR REGRETS THIS SHORT NOTICE AND SINCERELY APPRECIATES WASH ASSISTANCE AND EFFORTS TO PROVIDE THE NECESSARY EXPERTISE.

3 Copies to WASH  
3:30  
10.11.83 JEL

RECEIVED S&T/H/WS (WENMAN)  
10-11-83  
Passed to WASH 10-11-83

UNCLASSIFIED

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OTD # 172 - November 28, 1983

Drought Emergency Assistance - Mauritania

The Office of Foreign Disaster Assistance and AID/Mauritania requested WASH services in reviewing the drought situation in Mauritania and planning relief measures. The WASH team will have two primary tasks: 1) to identify emergency disaster relief activities needed to assist the government to provide water and sanitation facilities to drought stricken areas, and 2) to identify targets of opportunity for long term health, water and sanitation actions arising out of the drought emergency. The Adar, Trarza and Tagant regions are of specific concern. The three person team will include a water resources/civil engineer, a public health/sanitary engineer and a hydrogeologist/well driller. The team will work closely with the Mauritania Commission for Food Security and serve as liaison with the Ministry of Hydraulics and Energy.

For further information, contact Mr. D. Donaldson.

Up to one hundred person days of effort, eighty-five person days of international/domestic per diem, three international air round trips, and two domestic round trips over a three month period. Local ground and air transportation and up to \$2300 for local secretarial, graphics, reproduction, interpreter and driver services are also authorized.

JEB/CIC  
12/8/83

327

WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 172  
28 November 1983

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

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

SUBJECT: Provision of Technical Assistance Under WASH Project  
Scope of Work for OFDA, USAID/Mauritania and S&T/H/WS

REFERENCES:

- A) Memo Howell (OFDA) to Wehman (S&T/H/WS), dated 28 Nov 1983
- B) Nouakchott 04982, dated 3 Nov 1983
- C) State 322669, dated 11 Nov 1983
- D) Nouakchott 05213, dated 16 Nov 1983
- E) Nouakchott 05281, dated 21 Nov 1983
- F) Nouakchott 04337, dated 21 Nov 1983
- G) Map of Mauritania (1982)
- H) State 334777, dated 23 Nov 1983
- I) Nouakchott 04961, dated 2 Nov 1983

1. WASH contractor requested to provide technical assistance to OFDA, USAID/Mauritania and S&T/H/WS as per Ref A and Ref B. Contractor to provide water resources and public health engineering assessment to OFDA and USAID/Mauritania regarding immediate emergency disaster assistance needs as well as targets of opportunity analysis of longer term development approaches to relieving drought related public health problems in the ADAR, TRARZA, and TAGANT regions of Mauritania. Contractor to provide the services of broadly experienced water resources/civil engineer, senior public health/sanitary engineer and senior hydrogeologist/well driller. At least one of the team members must be fluent in French.
2. WASH contractor/subcontractor/consultants authorized to expend up to 100 person days of effort over a three (3) month period to accomplish this technical assistance effort.
3. Contractor authorized to expend up to 85 person days of international/domestic per diem to accomplish this effort.
4. Contractor to coordinate with OFDA (Heidi Meyer and Carol Siegel) USAID/Mauritania (Peter Benedict), AID Mauritania Desk Officer, AFR/TR/HN (C. Gurney), AFR/TR/ENG (J. Snead) and should provide copies of this OTD along with periodic progress reports as requested by AFR Bureau, OFDA, and S&T/H/WS staff.
5. Contractor authorized to provide up to three (3) international round trips from consultants home base through Washington D.C. (for briefing and preparation) to Nouakchott, Mauritania (and appropriate areas in ADAR, TRARZA, and TAGANT provinces) and return to consultants home base through Washington D.C. (for debriefing and report preparation)

*VWS*

6. Contractor authorized to provide up to two (2) domestic round trips from consultants home base to Washington D.C. (WASH CIC) for briefing, debriefing or special follow up) and return to consultants home base during life of this OTD.
7. Contractor authorized to obtain secretarial, graphics, reproduction interpreter, or piecework or driver services in Mauritania as necessary to accomplish tasks. These services are in addition to the level of effort specified in para 2 and 3 above and NTE \$2300 without the written approval of the AID WASH Project Manager. Consultants may be required to purchase some local materials, special supplies or services to facilitate timely technical assistance to the mission. USAID/Mauritania is encouraged to provide WASH Project personnel with services appropriate and available to maximum extent possible.
8. Contractor authorized to provide for car or vehicle rental and hiring of driver as necessary to facilitate effort. USAID/Mauritania and U.S. embassy Mauritania is encouraged to provide mission vehicles and/or transportation if available and appropriate.
9. Contractor authorized to provide for local travel in Mauritania as necessary and appropriate to accomplish technical assistance effort. This includes rental, hiring, or chartering of small or commercial aircraft transport as necessary and appropriate to accomplish tasks.
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. New procedures regarding subcontractor selection/justification and consultant selection/justification remain in effect. Cost estimates for subcontractors must be approved by S&T/H/WS Project Manager.
13. Contractor to provide coordinated draft report to OFDA and USAID/Mauritania before consultants leave the country. Team leader should provide frequent direct communication by phone or cable with OFDA relating progress and directions of recommendations. Final report is due to OFDA within 30 days of return of consultants or team leader to the U.S. Coordinated draft report to be prepared in English. Coordinated draft report can be prepared in French if USAID/Mauritania so indicates in official cable traffic to OFDA and S&T/H/WS Project Manager. Final report may be prepared in English and French if USAID/Mauritania indicates in cable to OFDA that it is necessary.
14. USAID/Mauritania and individuals identified in para 4 above should be contacted immediately and technical assistance initiated to OFDA as soon as possible and/or convenient to OFDA and USAID/Mauritania.
15. Appreciate your prompt attention to this matter. Good luck.

November 28, 1983

MEMORANDUM

FOR: S&T/HEA:Mr. Vic Wehman  
FROM: D/OFDA:Martin D. Howell *MDS*  
SUBJECT: Mauritania Drought Disaster - Request for Technical Assistance  
from WASH Project

USAID Mauritania has requested a technical assessment of hydrological conditions of subject disaster (See Nouakchott 4982 and 5213, attached). OFDA is therefore requesting the assistance of the WASH Project in providing a technical assistance team to carry out the following efforts:

- 1) Identify emergency disaster relief activities needed to assist the GOM in providing water and sanitation facilities to the drought stricken areas of that country; and
- 2) Identify targets of opportunity for long term health, water, and sanitation actions arising out of the drought emergency.

We are requesting that the team will consist of the following specialities:

- Hydrogeologist/well driller
- Public Health/Sanitation Expert
- Board based water resource engineer

The team should arrive in Mauritania in late November or early December. During their stay in-country they will work with the Mauritania Commission for Food Security (CSA) and they will serve as the liaison with the Ministry of Hydraulics and Energy.

Please provide OFDA a copy of the team's final report. Your assistance in this effort is greatly appreciated.

Attachments: a/s

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Department of State C

TELEGRAM

PAGE 01 NOUAKC 04982 031211Z  
ACTION AID-02

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INFO OCT-88 AF-00 CIAE-00 EB-00 DODE-00 DRE-01 /054 V  
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R 031026Z NOV 83  
FM AMEMBASSY NOUAKCHOTT  
TO SECSTATE WASHDC 735Z  
INFO AMEMBASSY ABIDJAN

UNCLAS NOUAKCHOTT 04982

AIDAC

FOR: OFDA, AFR/TR/ENGR AND AFR/SWA, ABIDJAN FOR REDSO/WA

E.O. 12356: N/A

SUBJECT: REQUEST FOR OFDA ASSISTANCE FOR TECHNICAL  
ASSESSMENT OF HYDRO-GEOLOGICAL CONDITIONS IN DROUGHT  
AFFECTED AREA.

1. ON OCTOBER 5, 1983, U.S. EMBASSY NOUAKCHOTT MADE A  
DISASTER DECLARATION RELATED TO SEVERE DROUGHT CONDITIONS  
IN MAURITANIA. SUBSEQUENT TO THE DECLARATION USAID HAS  
SUBMITTED AN INTEGRATED DROUGHT RELIEF PROPOSAL TO THE  
DEPARTMENT AND AID WHICH CONSISTS OF THREE MAIN ELEMENTS:  
(A) EMERGENCY FOOD AID (B) EMERGENCY MEDICINES AND MEDI-  
CAL SUPPLIES AND (C) RAPID IMPROVEMENT OF VILLAGE WATER  
SUPPLY. BASED UPON DISCUSSIONS WITH OFDA DIRECTOR  
HOWELL, AND OFDA STAFF USAID DIRECTOR BENEDICT WAS IN-  
FORMED THAT IT WAS POSSIBLE TO SEEK TECHNICAL ASSIS-  
TANCE TO ASSESS WAYS IN WHICH THE USG CAN ADDRESS THE  
SERIOUS ISSUE OF THE QUANTITY AND QUALITY OF VILLAGE-  
LEVEL SUPPLIES OF DRINKING WATER. THE LACK OF ADEQUATE  
SOURCES OF DRINKING WATER HAS GREATLY CONTRIBUTED TO THE  
PUBLIC HEALTH PROBLEMS SEEN THROUGH-OUT THE DROUGHT  
AFFECTED REGIONS.

2. USAID HAS BEEN INFORMED BY THE GOVERNMENT OF MAURITA-  
NIA (GIRM) THAT THERE IS AN URGENT NEED TO ASSESS  
DEFICITS IN POTABLE WATER SUPPLY IN THE REGIONS OF TRARZA,  
TAGANT AND ADRAR. THESE REGIONS CONSTITUTE THE TARGET  
AREA OF USG RELIEF INTERVENTIONS AS STATED IN PARA 1.  
DUE TO SEVERE DEFICITS IN RAINFALL, NUMEROUS SETTLED  
COMMUNITIES AND NOMADIC ENCAMPMENTS ARE SUFFERING FROM  
EITHER A TOTAL ABSENCE OF LOCALLY AVAILABLE POTABLE  
WATER OR INADEQUATE QUANTITIES OF POOR QUALITY WATER.  
IN MANY AREAS MODEST EFFORTS AT IRRIGATING GARDENS  
ADJACENT TO WELLS HAVE BEEN CURTAILED DUE TO A LOWER WATER  
TABLE. WATER POINTS FOR LIVESTOCK IN MANY AREAS NO LONG-  
ER EXIST. SEVERE AND MODERATE INFANT MALNUTRITION FOUND  
THROUGHOUT THE AREA IS EXACERBATED BY INADEQUATE WATER  
SUPPLY. USAID BELIEVES THAT REMEDIAL EFFORTS CAN BE  
UNDERTAKEN FOR A NUMBER OF SETTLED AGRO/PASTORAL COMMUNI-  
TIES TO RESTORE ADEQUATE WATER SUPPLY.

3. USAID IS REQUESTING OFDA ASSISTANCE TO UNDERTAKE AN  
ASSESSMENT OF CONDITIONS IN THE AREA. BASED UPON THIS  
ASSESSMENT A WATER SUPPLY IMPROVEMENT PROGRAM WILL BE  
DESIGNED UTILIZING IN LARGE MEASURE LOCAL CURRENCY AVAILA-  
BLE THROUGH A 1981 PI 400 FOOD SALES PROGRAM. DOLLAR  
REQUIREMENTS FOR A WELLS IMPROVEMENT PROGRAM WILL BE  
SOUGHT AS NEEDED. SPECIFIC ASSISTANCE IS REQUESTED AS  
FOLLOWS:

A. TWO TECHNICIANS FOR ONE MONTH EACH: (1) HYDRO GEOLO-  
GIST WELL DRILLER AND (2) AN INTERNATIONAL WATER SUPPLY  
SANITATION/PUBLIC HEALTH ENGINEER. BOTH SHOULD SPEAK  
ADEQUATE FRENCH.

B. THE COUNTERPART MAURITANIAN AGENCY WILL BE THE COMMI-  
SSION FOR FOOD SECURITY (CSA). THE CSA WILL SERVE AS  
LIAISON WITH THE MINISTRY OF HYDRAULICS AND ENGERGY. IT  
IS EXPECTED THAT MAURITANIAN TECHNICIANS WILL BE AVAILABLE  
FROM THIS MINISTRY.

C. USAID WOULD PREFER INITIATING THIS ASSESSMENT DURING  
THE SECOND HALF OF NOVEMBER FOR A PERIOD OF UP TO FOUR  
WEEKS OF CONSULTANCY. USAID UNDERSTANDS THAT THE WASH  
CONTRACT HAS OFTEN MOBILIZED QUICKLY TO PROVIDE EXPERI-  
ENCED TECHNICIANS.

4. TO DATE THE USG HAS BEEN IN THE LEAD IN RESPONDING TO  
MAURITANIA'S INTERNATIONAL APPEAL FOR DROUGHT ASSISTANCE  
FOOD AND MEDICAL ASSISTANCE HAVE BEEN WELCOMED HERE AS  
AN INDICATION OF HIGH USG CONCERN. THE GIRM HAS MADE IT  
CLEAR THAT A MAJOR NATIONAL PRIORITY IS THE PREPARATION  
OF A NATIONAL PLAN TO DEAL WITH A SITUATION WHICH NOW  
SEEMS TO BE NEARLY CHRONIC. IMPROVEMENT IN VILLAGE WATER  
SUPPLY WILL HAVE BOTH SHORT TERM EFFECTS ON THE HEALTH  
OF AFFLICTED POPULATIONS AS WELL AS LONGER TERM BENEFITS  
FOR THE ECONOMIC WELL BEING OF THE REGIONS UNDER CONSIDER-  
ATION.  
PECK

*Wash  
Project  
Direct*

*Vic W. due back  
p 14 Nov.*

*~~Handwritten signature~~  
C. T. J. V.  
C. T. J. V.  
~~Handwritten signature~~*

*Rec'd 11-7-83 ST/H/W  
Passed to USAID 11-7-83*

UNCLASSIFIED

331

WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 172  
Amendment No. 1  
3 April 1984

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

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

SUBJECT: Provision of Technical Assistance Under WASH Project  
Scope of Work for OFDA, USAID/Mauritania and S&T/H/WS

REFERENCES: A) OTD # 172, dated 28 Nov 1983

1. Para 2 to subject OTD # 172 (Ref A) is cancelled. New para 2 to subject OTD (Ref A) is now to read as follows:

"2. WASH contractor/subcontractor/consultants authorized to expend up to 100 person days of effort over a five (5) month period to accomplish this technical assistance effort."

2. Nothing follows.

Camp Dresser & McKee Inc.  
WASH PROJECT

APR 4 1984

*332*

OTD # 174 - January 18, 1984

Technical Assistance in Evaluation of  
Rural Water Supply Project - Upper Volta

AID/Upper Volta requested WASH assistance in conducting a benchmark assessment of the on-going rural water supply project. The services of a project development specialist, a water supply and sanitation/public health engineer, and a specialist in health education, health planning and training of health personnel are required. This report will review the overall management of the project and its major components-health and well construction; choice of technology, well construction, and pump installation; pump and well maintenance organization and financing; host country management capability to continue well site identification and future well drilling; training of health assistants and village health workers; content of the health education component; and coordination of the component with well construction and use. In addition to preparing recommendations to better achieve stated project objective, this report will be used as a basis for a project paper supplement containing appropriate objectives and guidelines covering the next three years of project activities.

For further information, contact Mr. R. Isely.

Up to one-hundred twenty-six person days of effort, one hundred three days of international/domestic per diem and three international air round trips are authorized over a four month period. Local travel expenses up to \$4,500 and up to \$4,700 per local secretary, graphics, interpreter and guide services are also authorized.

JEB/CIC  
1/31/84

357

WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 174  
18 January 1984

Camp Dresser & McKee Inc.  
WASH PROJECT

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

FROM: Mr. Victor W. R. Wehman Jr., P.E., R.S.  
AID WASH Project Manager  
AID/S&T/H/WS

SUBJECT: Provision of Technical Assistance Under WASH Project  
Scope of Work for USAID/Upper Volta and AFR/TR/PD

REFERENCES: A) Ouagadougou 07093, dated 9 Dec 1983  
B) Ouagadougou 07476, dated 29 Dec 1983  
C) Ouagadougou 00185, dated 11 Jan 1984

JAN 19 1984



1. WASH contractor requested to provide technical assistance to USAID/Upper Volta as per Ref B (modified in this OTD to include a Project Development Specialist, a Water Supply and Sanitation/Public Health Engineer, and a specialist with strong health education and training skills) and Ref C. Contractor to utilize senior international consultants, highly experienced in project analysis, trouble-shooting, project development and evaluation related to water supply and sanitation projects/programs.
2. WASH contractor/subcontractor/consultants authorized to expend up to 126 person days of effort over a four (4) month period to accomplish this technical assistance effort.
3. Contractor authorized to expend up to 103 person days of international/domestic per diem to accomplish this effort. Contractor authorized to work 7 days per week in the field if team leader finds it necessary and so certifies to the WASH Contract Project Director upon his return to the U.S.
4. Contractor to coordinate with AFR/PD/SWAP (Keith Simmons--6328242) AFR/TR/ENG (Jack Snead), AFR/TR/HN (Charles Gurney), AFR/DP/E (Mr. Miles), and the AID Desk Officer and should provide copies of this OTD along with periodic progress reports as requested or needed by AFR Bureau staff, USAID/Upper Volta staff or S&T/H staff.
5. Contractor authorized to provide up to three (3) international round trips from consultants home base through Washington D.C. to Upper Volta (Ouagadougou) and return to home base through Washington during life of this OTD.
6. Contractor authorized local travel in Upper Volta as necessary and appropriate to accomplish tasks. These costs NTE \$ 2700 without the written approval of the AID WASH Project Manager.

2/21

7. Contractor authorized to rent, hire or charter vehicles, aircraft or other conveyances as necessary and appropriate to accomplish this mission. Costs for this item NTE \$ 1800 without the written approval of the AID WASH Project Manager.
8. Contractor authorized to obtain secretarial, graphics, reproduction interpreter or guide services in Upper Volta as necessary to accomplish tasks. These services are in addition to the level of effort specified in para 2 and para 3 above and NTE \$4700 without the written approval of the AID WASH Project Manager.
9. Contractor will take portable (Manual) typewriter for consultants use in the field.
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. New procedures regarding approval of cost estimates from subcontractors and approval of consultant selection/justification documents remains in effect as per July 83 contract amendment to WASH contract.
13. Contractor is requested to refine and improve consultants scope of work as a result of discussions between WASH and AFR Bureau, USAID, Upper Volta, and S&T/H. Flexibility however should be provide the senior consultants to emphasize or deemphasize on elements within the assessment and reporting procedure as opportunities and field conditions dictate. The most important end product is a well balanced Project Paper supplement. S&T/H/WS staff (Vic Wehman) is planning to join the team in Upper Volta for at least a one week overlap with all team members and then an additional 10 days to two weeks more working on the Project Paper Amendment. He is planning on working very closely with the team.
14. Contractors report to consist of consultants inputs to project paper supplement described in Ref C, para D and Project Paper Development Guide (AID/PPC--1982). Each consultant should have a copy of this Guide to assist in drafting supplement inputs. Consultants inputs should be in a coordinated draft report form before consultants leave the field. Final reports should be provided to S&T/H within 30 days of return of team leader to the U.S. Reports can be translated into French if necessary and requested by USAID/Upper Volta in writing.
15. USAID/Upper Volta, AFR/PD/SWAP staff and others identified in para 4 above should be contacted immediately and technical assistance initiated as soon as possible.
16. Appreciate your prompt attention to this matter. Good luck.

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Department of State

INCOMING TELEGRAM

PAGE 01 OUAGAD 07093 0909322 0907 090025 A100269  
ACTION AID-00

OUAGAD 07093 0909322 0907 090025

THIS PROJECT IN LATE JANUARY. DR. SHEPPERD OF REDSO IS DRAFTING A SCOPE OF WORK FOLLOWING HIS RECENT ASSESSMENT OF THE PROJECT. WE WILL FORWARD THE SOV AS SOON AS POSSIBLE.

ACTION OFFICE AFDF-06  
INFO AFEH-03 AFRA-03 AFFW-04 CMGT-02 CTR-02 STFN-01 CAST-01  
PASA-02 AFDA-01 ACRI-01 NASA-02 RELO-01 MAST-01 AFPM-01  
/031 AS 5 10

9. SAFGRAD (696-0393) EVALUATION: WE WILL REQUIRE AN AGRICULTURAL ECONOMIST, AN AGRONOMIST, A MANAGEMENT SPECIALIST, AND A TRAINING SPECIALIST FROM USDA FOR THE PERIOD JANUARY 5 THROUGH FEBRUARY 23. EMMY SIMMONS' SERVICES ARE BEING REQUESTED BY SEPTEL FROM SDPT FOR FEBRUARY 2 THROUGH 16. DIANE MCLEAN'S SERVICES ARE BEING REQUESTED BY SEPTEL FROM REDSO FOR THE PERIOD JANUARY 19 THROUGH FEBRUARY 2.

INFO OCT-00 /035 W  
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10. WE ASSUME NASA IS STILL PLANNING TO SEND A TEAM TO INSTALL THE SOLAR RUN MEDICAL REFRIGERATOR IN OFODARA, ONCE THE REFRIGERATOR ARRIVES IN UPPER VOLTA. NASA SHOULD ADVISE US OF THE COMPOSITION OF THE TEAM AND REQUEST MISSION AND COUNTRY CLEARANCE BEFORE SENDING THE TEAM. WALKER

R 090915Z DEC 83  
FM AMEMBASSY OUAGADOUGOU  
TO SECSTATE WASHDC 8323

UNCLAS OUAGADOUGOU 07093

AIDAC

FOR AFR/PD/SWAP, AFR/RA, AFR/SDP, S&T/FNR AND S&T/WASH

E.O. 12356: N/A  
SUBJECT: DECEMBER UPDATE ON USAID/UPPER VOLTA TDY REQUIREMENTS

REF. ABIDJAH 13321

1. SUMMARY: USAID/UPPER VOLTA HEREBY SUBMITS ITS TDY REQUIREMENTS FOR DECEMBER THROUGH FEBRUARY. REQUIREMENTS FOR MARCH THROUGH SEPTEMBER REMAIN THE SAME AS IDENTIFIED IN REFTEL. AID/W IS REQUESTED TO ADVISE US OF THE AVAILABILITY OF PERSONNEL. END SUMMARY.

2. SMALL ECONOMIC ACTIVITY DEVELOPMENT (686-0249): PFP/UV WILL DISCUSS WITH PFP/WASHINGTON THE STATUS OF RECRUITMENT OF A WATERCHOP DEVELOPMENT SPECIALIST. WE WILL ADVISE AFR/DF, B. BOYD, AS SOON AS WE KNOW WHETHER TO PROCEED WITH RECRUITMENT OF A SPECIALIST THROUGH THE RCGA/PASA WITH THE NATIONAL PARK SERVICE.

3. GRAIN MARKETING DEVELOPMENT PROJECT (686-0243) EVALUATION: WE PLAN TO CONTRACT FOR THREE PEOPLE FOR THREE PERSON WEEKS EACH THROUGH AN IOC FIRM IN LATE MARCH. P10/1 WILL BE ISSUED IN LATE DECEMBER OR EARLY JANUARY.

4. FORESTRY EDUCATION & DEVELOPMENT (686-0235): WE MAY REQUIRE ROY HAGEN FROM USDA IN LATE JANUARY OR EARLY FEBRUARY TO GIVE CLASSES AND CONDUCT PRACTICAL FIELD WORK ON SOILS MAINTENANCE AND AERIAL PHOTOGRAPHY. SCOPE OF WORK WAS ALREADY SENT, BUT MAY BE REVISED.

5. FORESTRY EDUCATION & DEVELOPMENT (686-0235): GERRY HAWKES' SERVICES ARE REQUESTED FROM USDA FOR LATE JANUARY OR EARLY FEBRUARY TO SET UP THE SAW MILL AND FOREST MANAGEMENT UNIT ON FOREST UTILIZATION. SOV WAS ALREADY SENT, BUT MAY BE REVISED.

6. REGIONAL REMOTE SENSING PROJECT (698-0420): VAL MAHAN OF AFR/RA AND DR. CHARLES PAUL OF S&T/FNR WILL BE INVITED TO ATTEND THE REGIONAL CRTD MEETINGS IN OUAGADOUGOU AROUND JANUARY 15, ONCE WE RECEIVE THE FORMAL INVITATION. PLEASE ADVISE US OF THE AVAILABILITY OF MAHAN AND DR. PAUL.

7. REGIONAL REMOTE SENSING PROJECT (698-0420): PAUL MIKA'S SERVICES WILL BE REQUIRED THROUGH SPECTRAL DATA TO FILL IN AS JIM SCRENSON'S REPLACEMENT AND CONDUCT THE ANGLO-PHONE STAGE BEGINNING IN DECEMBER AND RUNNING THROUGH MARCH 31.

8. RURAL WATER SUPPLY PROJECT (686-0228) REDESIGN: S&T/WASH SERVICES WILL BE REQUIRED FOR THE REDESIGN OF

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235-8918  
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Total

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R 291114Z DEC 83  
FM AMEMBASSY OUAGADOUGOU  
TO SECSTATE WASHDC 2533

UNCLAS OUAGADOUGOU 07476

AIDAC

E.O. 12356: N/A

SUBJECT: UPPER VOLTA RURAL WATER SUPPLY PROJECT (646-0222)

1. THE RURAL WATER SUPPLY PROJECT IS REGARDED AS ONE OF THE BEST DEVELOPMENT INTERVENTIONS IN USAID/UPPER VOLTA'S PORTFOLIO. OUR ONGOING MANAGEMENT REVIEW OF THIS PROJECT VIEWS THE WELLS COMPONENTS AS WELL ADVANCED, WHILE THE HEALTH EDUCATION COMPONENT, WHICH HAS LAGGED BEHIND, NEEDS SOME ADJUSTMENTS. AS A DEVELOPMENT EFFORT WE ARE OF THE OPINION THE PROJECT SHOULD BE EXTENDED BEYOND ITS PACD (JULY, 1984) IN ORDER THAT IT MAY REALIZE ITS FULL DEVELOPMENT POTENTIAL. HOWEVER, GIVEN THE LACK OF TECHNICAL EXPERTISE IN USAID/UPPER VOLTA IN THE WATER SUPPLY AND UTILIZATION AREA WE ARE SEEKING EXTERNAL ASSISTANCE TO UNDERTAKE A BENCHMARK ASSESSMENT OF THIS ACTIVITY. THEREFORE, WE REQUEST THE SERVICES OF "WASH" TO REVIEW THE RURAL WATER SUPPLY PROJECT AND MAKE RECOMMENDATIONS REGARDING A FUTURE COURSE OF ACTION. THE ANTICIPATED PERSONNEL REQUIREMENT IS FOR 6 PERSON WEEKS EACH OF AN ENGINEER AND HEALTH EDUCATION/PLANNER EXPERIENCED IN RURAL WATER SUPPLY PROJECT ACTIVITY.

2. IN PREPARING FOR SITE VISIT THE "WASH" TEAM SHOULD BE PREPARED TO REVIEW AND COMMENT ON

- A. RURAL WATER SUPPLY PROJECT PAPER;
- B. ISTI EVALUATION;
- C. COMMENTS OF PLOPPEP, WAYHEN, AND HILES RE ISTI EVALUATION;
- D. DIMPEX PROPOSAL;
- E. LEGER PROPOSAL FOR HEALTH EDUCATION COMPONENT OF PROJECT.

3. WE ANTICIPATE THE "WASH" TEAM WOULD NEED APPROXIMATELY:

- A. 1 WEEK WITH AID/W TO REVIEW PROJECT DOCUMENTATION AND REFINE SCOPE OF WORK IN CONSULTATION WITH SGT (WAYHEN) AND AFRICA BUREAU TECHNICAL AND PROJECT PERSONNEL.
- B. 2 WEEKS OF SITE VISITS IN CUAGA AND EGBO TO REVIEW STATUS OF PROJECT IMPLEMENTATION.
- C. 2 WEEKS TO PREPARE DRAFT REPORT AND PROJECT AGREEMENT AMENDMENT (IF APPROPRIATE) AND REVIEW DRAFT RECOMMENDATIONS WITH MISSION MANAGEMENT.
- D. 2 DAYS CONSULTATION IN AID/W AND 4 DAYS PREPARATION OF FINAL REPORT.

4. THE REPORT SHOULD INCLUDE AT LEAST THE FOLLOWING ITEMS:

- A. ASSESSMENT OF CURRENT STATUS OF THE PROJECT;

- B. ASSESSMENT OF STATUS OF IMPLEMENTATION OF RECOMMENDATIONS OF THE ISTI EVALUATION AND RELATED DOCUMENTS CITED IN 2.C. ABOVE;

- C. RECOMMENDATIONS REGARDING COURSE OF ACTION OF PROJECT BEYOND THE CURRENT PACD (ALSO TO INCLUDE COMMENTS ON 2.D. AND E. ABOVE);
- D. DETAILED ACTIVITIES AND AN IMPLEMENTATION PLAN FOR PERIOD BEYOND THE PACD;

- E. A RATIONALE THAT SUPPORTS THE DETAILED ACTIVITIES BEYOND THE PACD;

- F. PROJECT BUDGET FOR PERIOD BEYOND PACD.

5. WE ALSO RECOMMEND THAT WAYHEN MEET WITH THE TEAM IN UPPER VOLTA TO PARTICIPATE IN A SITE VISIT TO PDD AND REVIEW "WASH" RECOMMENDATIONS WITH THE TEAM AND MISSION MANAGEMENT IN OUAGADOUGOU. WE ALSO LOOK TO WAYHEN TO ASSIST IN SELECTION OF APPROPRIATE "WASH" PERSONNEL FOR THE TASK. WALKER

*AFDR*

**ADVANCE  
ACTION COPY**

*Copy to WASH*

*12.30.83*

*Yea*

*WASH*

*Warren*

*Austin*

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AIDAC

FOR S&T/HEA, VICTOR WEHMAN; AFR/SVAP, KEITH SIMMONS

E.O. 12356: N/A  
SUBJECT: RURAL WATER SUPPLY PROJECT NO. 686-0228

REF: 83 OUAGA 7476

1. THE FOLLOWING ITEMS SHOULD BE CONSIDERED WHEN  
DEVELOPING THE SCOPE OF WORK FOR THE WASH TEAM AS  
OUTLINED IN REFTEL:

A. THERE IS A ISSUE REGARDING THE EXTENSION OF THE WELL  
DRILLING COMPONENT OF THE PROJECT AND THE CONFIGURATION  
OF THE US TECHNICAL ASSISTANCE TEAM. IS IT NECESSARY  
FOR THE COMPONENT TO BE EXTENDED TO INCLUDE EXPATRIATE  
PERSONNEL IN ITS PRESENT CONFIGURATION? AN IMPORTANT  
FACTOR TO BE CONSIDERED IS WHAT HAS BEEN ACHIEVED IN  
TERMS OF DEVELOPING AN INSTITUTIONAL CAPACITY IN THE  
GOUV TO IDENTIFY SITES AND DRILL WELLS FOR A VILLAGE  
WATER UTILIZATION. PERHAPS THE VOLTAICS BY JULY 84  
WILL BE READY TO GO IT ALONE AND THE DIMPEX COMPONENT  
IS NO LONGER REQUIRED FOR THE WELL DRILLING COMPONENT.  
SEVERAL OPTIONS ARE POSSIBLE AND SHOULD BE CONSIDERED  
BY THE WASH TEAM.

B. REGARDING THE HEALTH EDUCATION COMPONENT THE NEED  
FOR TA INPUT FOR A COUPLE OF ADDITIONAL YEARS APPEARS  
CRITICAL. THE SCOPE OF THE HEALTH EDUCATION COMPONENT  
ACTIVITIES MUST BE CAREFULLY DEVELOPED SO AS TO ENSURE  
THAT A DEFINITION OF A REALISTIC "PURPOSE" AND "END  
OF PROJECT STATUS" FOR THE HEALTH COMPONENT IS AGREED  
UPON.

C. DOES EACH COMPONENT HAVE SUFFICIENT MANAGEMENT  
ADMINISTRATIVE CAPACITY ON BOTH THE DIMPEX SIDE AND  
AND GOUV SIDE TO EFFECTIVELY MANAGE AND ADMINISTER  
THE PROJECT. PRESENTLY THE HEALTH EDUCATION COMPONENT  
COMPLAINS OF NOT BEING ABLE TO GET SUFFICIENT SUPPORT  
TO PERFORM A SERIES OF ROUTINE ADMINISTRATIVE FUNCTIONS  
WHICH ARE CRITICAL TO SUCCESSFUL PROJECT IMPLEMENTATION.  
THE DEGREE OF MANAGEMENT ON THE GOUV SIDE HAS VARIED  
THROUGHOUT THE PROJECT AND CERTAINLY THIS ELEMENT SHOULD  
BE CAREFULLY REVIEWED.

D. THE PROJECT PAPER SUPPLEMENT THAT WILL BE REQUIRED  
SHOULD BE DEVELOPED AS A PART OF WASH'S TASK AID  
SHOULD INCLUDE THE FOLLOWING ITEMS: 1) A RESTATEMENT  
OF THE PROJECT GOAL, 2) RESTATEMENT OF PROJECT PURPOSE,  
3) END OF PRESENT PROJECT STATUS, 4) PROPOSED  
ACTIVITIES TO BE UNDERTAKEN THROUGH THE NEW PACD AND  
A RATIONALE FOR THESE ACTIVITIES, 5) AN EVALUATION PLAN,  
6) DEFINITION OF GOUV INPUTS, 7) DEFINITION OF USAID  
INPUTS, 8) FINANCIAL PLAN, 9) IMPLEMENTATION PLAN.  
WALKER

McJunkin  
Austin  
Witten  
~~Wehman~~  
JWW

Received ST/H/Ws (Wehman) 1-16-84  
Passed to WASH 1-16-84

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WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 174  
AMENDMENT NO. 1  
27 March 1984

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

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

SUBJECT: Provision of Technical Assistance Under WASH Project  
Scope of Work for USAID/Upper Volta and AFR/PD/SWAP

REFERENCES: A) OTD # 174, dated 18 Jan 1984

1. Para 2 of subject OTD # 174 (Ref A) is cancelled. New para 2 to subject OTD # 174 (Ref A) is now to read as follows:  

"2. WASH contractor/subcontractor/consultants authorized to expend up to 165 person days of effort over a 4 month period to accomplish this technical assistance effort."
2. Para 3 of subject OTD # 174 (Ref A) is cancelled. New para 3 to subject OTD # 174 (Ref A) is now to read as follows:  

"3. Contractor authorized to expend up to 135 person days of international/domestic per diem to accomplish this effort. Contractor authorized to work 7 days per week in the field if team leader finds it necessary and so certifies to the WASH Contract Project Director upon his return to the U.S."
3. Nothing follows.

Camp Dresser & McKee Inc.  
WASH PROJECT

MAR 27 1984

WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 174  
AMENDMENT NO. 2  
7 May 1984

Camp Dresser & McKee Inc.  
WASH PROJECT

FROM: 1984

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

Victor W. R. Wehman Jr., P.E., R.S.  
AID WASH Project Manager  
AID/S&T/H/WS

*VWR*

SUBJECT: Provision of Technical Assistance Under WASH Project  
Scope of Work for USAID/Upper Volta and AFR/PD/SFWAP

REFERENCES: A) OTD # 174, dated 18 Jan 1984  
B) Ouagadougou 02626, dated 21 April 1984  
C) State 106209, dated 11 April 1984  
D) Ouagadougou 02859, dated 4 May 1984

1. Para 2 of subject OTD # 174 (Ref A) is cancelled. New para 2 to  
subject OTD # 174 (Ref A) is now to read as follows:

"2. WASH contractor/subcontractor/consultants authorized to  
expend up to 193 person days of effort over a 4.5 month period  
to accomplish this technical assistance effort."

2. Para 3 of subject OTD # 174 (Ref A) is cancelled. New para 3 to  
subject OTD # 174 (Ref A) is now to read as follows:

"3. Contractor authorized to expend up to 145 person days of  
international/domestic per diem to accomplish this effort.  
Contractor authorized to work 7 days per week in the field if  
team leader finds it necessary and so certifies to the WASH  
Contract Project Director upon his return to the U.S."

3. Para 6 of subject OTD # 174 (Ref A) is cancelled. New para 6 to  
subject OTD # 174 (Ref A) is now to read as follows:

"6. Contractor authorized local travel in Upper Volta as  
necessary and appropriate to accomplish tasks. These costs  
NTE \$1800 without the written approval of the AID WASH Project  
Manager."

4. Para 7 of subject OTD # 174 (Ref A) is cancelled. New para 7 to  
subject OTD # 174 (Ref A) is now to read as follows:

"7. Contractor authorized to rent, hire or charter vehicles,  
aircraft or other conveyances as necessary and appropriate to  
accomplish this mission. Costs for this team NTE \$500 without  
the written approval of the AID WASH Project Manager."

5. Para 8 of subject OTD # 174 (Ref A) is cancelled. New para 8 to subject OTD # 174 (Ref A) is now to read as follows:

"8. Contractor authorized to obtain secretarial, graphics, reproduction, interpreter or guide services in Upper Volta as necessary to accomplish tasks. These services are in addition to the level of effort specified in para 2 and 3 above and NTE \$4500 without the written approval of the AID WASH Project Manager."

6. Para 5 of subject OTD # 174 (Ref A) is cancelled. New para 5 to subject OTD # 174 (Ref A) is now to read as follows:

"5. Contractor authorized to provide up to four (4) international round trips from consultants home base through Washington D.C. to Upper Volta (Ouagadougou) and return to home base through Washington D.C. during life of this OTD."

7. Nothing follows.

Camp Dresser & McKee Inc.  
WASH PROJECT

MAY 7 1984

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INFO AFFV-04 FM-02 CMGT-02 CTR-02 STHE-01 SAST-01 SWR-01  
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AID/W FOR K. SIMMONS; AFR/SWAP AND V. WEHMAN; S&T/H

E.O. 12356: N/A  
SUBJECT: UPPER VOLTA RURAL WATER SUPPLY PROJECT  
-- (686-0728) PP SUPPLEMENT

REF: (A) STATE 106209, (B) STATE 104981

1. USAID/UPPER VOLTA REQUESTS TDY OF MESSRS. WEHMAN AND BAROKAS FOR 14 AND 10 DAYS RESPECTIVELY, STARTING MAY 7, 1984.
2. DIMPEX FIELD VISIT BY MESSRS. CARLSON AND HAZELWOOD SHOULD BE RESCHEDULED TO OVERLAP WITH THE WEHMAN/BAROKAS TDY, MAY 16TH BEING THE LATEST ACCEPTABLE ARRIVAL DATE.
3. AS DISCUSSED DURING PREVIOUS WASH TEAM VISIT, BAROKAS WILL SERVE AS RESOURCE PERSON TO HELP EXPLAIN AND AMPLIFY TECHNICAL/ADMINISTRATIVE CONCERNS IN NEGOTIATIONS WITH THE GOV. FYI, THE WASH TEAM EXECUTIVE SUMMARY AND RURAL WATER SUPPLY SYSTEMS PARADIGM HAVE BEEN TRANSLATED INTO FRENCH AND TRANSMITTED TO MINISTRIES OF HEALTH AND RURAL DEVELOPMENT. WE ALSO PLAN TO TRANSLATE INTO FRENCH THE DRAFT IMPLEMENTATION PLAN PREPARED BY THE WASH TEAM AND USE THIS DOCUMENT AS A WORKING AGENDA FOR PPS NEGOTIATIONS. END FYI.
4. WEHMAN'S ROLE WILL BE THREEFOLD: (1) TO SERVE AS A TECHNICAL RESOURCE IN PPS NEGOTIATIONS, (2) TO WORK WITH MISSION ENGINEER AUGUSTIN QUATTARA ON THE DEVELOPMENT OF A FIELD PUMP-TESTING ACTIVITY TO SEARCH FOR POSSIBLE SUCCESSFUL TO THE LESS-THAN-ADEQUATE MOYNO PUMPS INCLUDING THE DEVELOPMENT OF SCOPES OF WORK FOR THE SUBSEQUENT GEORGIA TECH TDY, AND (3) TO SERVE AS THE PRIMARY TECHNICAL ADVISOR TO THE MISSION FOR THE AMENDMENT OF THE DIMPEX CONTRACT; INCLUDING THE PREPARATION OF TERMS OF REFERENCE FOR NEW PERSONNEL AND REVIEW OF DIMPEX NEGOTIATING PROPOSALS.
5. IT IS OUR UNDERSTANDING BAROKAS TDY WILL BE FUNDED BY WASH PROJECT. MISSION HAS FULLY COMMITTED ITS TRAVEL BUDGET AND REQUESTS AID/W FUNDING OF WEHMAN TDY. WITHIN THE TIGHT TIME FRAME OF NEGOTIATING THE TECHNICAL/ADMINISTRATIVE DETAILS, FINISHING THE PPS AND PES, AND NEGOTIATING THE AMENDMENT TO THE DIMPEX CONTRACT BEFORE THE ORIGINAL JULY PACD, WE WOULD LIKE TO REITERATE THE CRITICAL ROLE TO BE PLAYED BY WEHMAN AND ENCOURAGE ALL EFFORTS BE MADE TO SECURE WASHINGTON FUNDING FOR HIS TDY.
6. WE HAVE NOT AND WILL NOT DISCUSS INCREASED PROJECT FUNDING WITH THE GOV. PRIOR TO OUR NEGOTIATIONS. FYI, THE GOV. HAS APPLIED FOR AN EXTENSION OF THE PROJECT

PACD WITHOUT ADDITIONAL FUNDING WHICH COVERS SOME OF THE REMEDIAL EFFORTS SUGGESTED BY THE WASH TEAM (E.G. REDIGGING OF WELLS AND PLACING HIGHER PRIORITY ON HEALTH ACTIVITIES). THEIR REQUEST DOES NOT COVER THE NECESSARY TECHNICAL (E.G. WATER QUALITY AND QUANTITY) AND ADMINISTRATIVE (E.G. CHIEF OF PARTY, TRAINING EMPHASIS, INTEGRATION OF WELLS/HEALTH COMPONENTS) ASPECTS CONSIDERED CRITICAL BY THE WASH TEAM. END FYI. BASED ON WASH REQUIREMENTS, ADDITIONAL FUNDS AMOUNTING TO APPROXIMATELY 1.2 MILLION DOLLARS (NOT EXCEEDING THE DIRECTOR'S THE 10 REDELEGATED OBLIGATION AUTHORITY) ARE LIKELY, BUT THIS ESTIMATE CANNOT BE REFINED UNTIL NEGOTIATIONS HAVE BEEN COMPLETED AND GROUP OF REMEDIAL ACTIVITIES ACCEPTABLE TO BOTH PARTIES HAS BEEN AGREED UPON.

7. REF. (A) MENTIONS SUBMISSION OF A PIO/T TO AMEND THE DIMPEX CONTRACT ONCE THE PPS HAS BEEN AUTHORIZED AND THE CN EXPIRED. PLEASE CONFIRM THAT NONCOMPETITIVE NEGOTIATION WITH DIMPEX WILL BE PERMISSIBLE AND JUSTIFIABLE BY AFRICA AA UNDER FPR (E.G. SUBSECTION 7-3.101-50 (b) (7)). IF NOT, WE WILL HAVE TO RECONSIDER ENTIRE PPS EXERCISE IN LIGHT OF NEW ROUND OF BIDDING--POTENTIAL MOBILIZATION OF A NEW CONTRACTOR WOULD BE FATAL TO THE PLANNED REMEDIAL EFFORTS.

8. REGARDING THE REPRODUCTION OF THE WASH REPORT, WE WOULD LIKE TO REQUEST 10 COPIES. WALKER

UNCLASSIFIED

OTD #179 - February 10, 1984

Assessment of Water and Sanitation Emergency Situation - Mozambique

The AID Office of Disaster Assistance and the U.S. Embassy in Mozambique requested WASH technical assistance following Typhoon Domitia's impact the first week of February. Torrential rains caused the worst flooding in recorded history. They disabled the waterworks in the capital city of Maputo, cut major roads and railways and destroyed irrigation pumps, crops and livestock. A Portuguese speaking engineer experienced in Africa was quickly located in the WASH consultant data base and dispatched to Mozambique. His tasks included reviewing the overall water supply and sanitation situation, the condition of the Maputo water treatment plant and distribution system, the need to replace irrigation pumps, the water supply and sanitation requirements of displaced persons, and making appropriate recommendations for actions in these areas.

For further information, contact Mr. D. Donaldson.

Up to twenty person days of effort, thirteen days of international per diem, one international air round trip and two domestic round trips are authorized over a three month period. Local travel up to \$600 and up to \$1300 for secretarial, graphics and reproduction services are also authorized.

JEB/CIC  
2/29/84

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WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 179  
10 February 1984

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

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

SUBJECT: Provision of Technical Assistance Under WASH Project  
Scope of Work for OFDA and U.S. Embassy/Mozambique

REFERENCES: A) Memo Becton (OFDA) to Wehman (S&T/H/WS), dated  
10 Feb 84  
B) Maputo 00240, dated 7 Feb 84

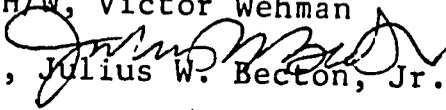
1. WASH contractor requested to provide technical assistance to OFDA as per Ref A, items 1-7 in relation to Ref B. Contractor to provide Portugese speaking consultant to carry out scope of work identified in Ref A.
2. WASH contractor/subcontractor/consultants authorized to expend up to 20 person days of effort over a three (3) month period to accomplish this technical assistance effort.
3. Contractor authorized to expend up to 13 person days of international per diem to accomplish this effort.
4. Contractor to coordinate with OFDA (H. Mayer, Tim Knight, and Carol Siegel), Mozambique AID desk officer (Robert Wrin), State Desk Officer, and U.S. Embassy (Mozambique) and should provide copies of this OTD along with periodic progress reports as requested by S&T/H/WS or OFDA.
5. Contractor authorized to provide up to one (1) international round trip from consultants home base through Washington to Maputo, Mozambique and return to home base through Washington during life of this OTD.
6. Contractor authorized to provide up to two (2) domestic round trips from consultants home base to Washington D.C. (for briefing or debriefing/report preparation) and return to consultants home base during life of this OTD.
7. Contractor authorized to provide for local travel of consultant in Maputo and rural areas of Mozambique as necessary and appropriate to accomplish tasks NTE \$600 without the written approval of the AID WASH Project Manager.

8. Contractor authorized to obtain secretarial, graphics or reproduction services in Mozambique as necessary and appropriate to accomplish tasks. These services are in addition to the level of effort specified in para 2 and 3 above NTE \$1300 without the written approval of the AID WASH Project Manager.
9. Contractor authorized to provide for car/vehicle rental if necessary and appropriate to facilitate effort. Mission is encouraged to provide embassy vehicles, if available.
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. New procedures regarding cost estimates for subcontractors and approval of selection/justification documents relating to sub contractors/consultants remains in effect.
13. Contractor to provide coordinated field report and situation reports (SITREPS) by cable before consultant leaves the country for return to OFDA. Contractor should coordinate closely with OFDA to insure that consultant briefing to OFDA is timely to OFDA's needs and that final WASH report is developed and turned in to OFDA with OFDA's needs clearly understood. This may require a special effort on the part of the WASH CIC.
14. OFDA and U.S. Embassy and others identified in para 4 above should be contacted immediately and technical assistance initiated as soon as convenient to OFDA.
15. Appreciate your prompt attention to this matter. Good luck.

2/45

February 10, 1984

MEMORANDUM

TO S&T/H/W, Victor Wehman  
FROM: OFDA,  Julius W. Becton, Jr., Director  
SUBJECT: Request for WASH assistance - Mozambique Cyclone  
Disaster

OFDA requests your assistance in enlisting the contractor services of the WASH Project to provide support for a water and sanitation assessment in Mozambique. The following scope of work is required:

1. Assess the water and sanitation situation as it relates to recent flood disaster.
2. Assess situation at Maptuo water treatment plant, transmission main and cities distribution system
3. Assess situation regarding small irrigation pumps.
4. Assess water and sanitation situation regarding displaced persons in the flooded areas.
5. Provide input in Embassy sitreps for OFDA
6. Identify recommendations for specific equipment needs/sources as possible.
7. Develop recommendations for OFDA action in each of the above areas.

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Department of State ~~UNCLASSIFIED~~ TELEGRAM

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CPS-02 FFP-03 AFDA-01 FVPP-01 AGRI-01 CIA-05 DOD-00  
NSC-01 RELO-01 TELE-01 MAST-01 /046 A4 07

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FM AMEMBASSY MAPUTO

TO SECSTATE WASHDC IMMEDIATE 3351

INFO AMCONSUL CAPE TOWN

AMEMBASSY DAR ES SALAAM

UNMISSION GENEVA

AMEMBASSY HARARE

AMEMBASSY GUYON

AMEMBASSY LUSAKA

AMEMBASSY LONDON

AMEMBASSY MBABANE

AMEMBASSY NAIROBI

AMEMBASSY PARIS

AMEMBASSY PRETORIA

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AIDAC

FROM THE AMBASSADOR FOR AID/OFFICE OF FOREIGN DISASTER ASSISTANCE; LUSAKA AND NAIROBI FOR RFFPO'S; GENEVA FOR DWYER; ALSO FOR DEPARTMENT FOR AF/S AND FFP JULIA BLOCH

E.O. 12356: N/A

TAGS: EAID,MZ

SUBJECT: EMERGENCY ASSISTANCE TO MOZAMBIQUE FLOOD DISASTER  
REF: (A) MAPUTO 0208 (NOTAL); (B) STATE 033010 (NOTAL)

1. SUMMARY: MOZAMBIQUE WAS HIT BY TORRENTIAL RAINS FOLLOWING TYPHOON DOMOINA'S RAVAGE LAST WEEK, MAKING THIS THE WORST FLOODING IN RECORDED HISTORY. HUMAN DEATHS ARE RELATIVELY LOW, BUT CROP AND LIVESTOCK LOSSES ARE EXTREMELY HEAVY IN THE RIVER VALLEYS. THE VICTIMS OF THIS CALAMITY HAVE BEEN PRIVATE AND FAMILY FARMER

SOME

50-60,000 PEOPLE IN THE RURAL AREAS ARE SAID TO HAVE LOST EVERYTHING TO THE NATURAL CATASTROPHE.

AN ESTIMATED 200-250,000 PERSONS SAW THEIR CROPS DESTROYED.

MAPUTO REMAINS WITHOUT WATER. IN ADDITION TO THE ORIGINAL

\$25,000 ALREADY PLEDGED, I RECOMMEND AUTHORIZATION

OF ANOTHER \$200,000 EMERGENCY ASSISTANCE TO AID THE

RECOVERY OF THE MAPUTO WATER SUPPLY,

\$150,000 FOR VEGETABLE SEEDS TO BE FURNISHED PRIMARILY

TO PRIVATE AND TO FAMILY FARMERS AND \$150,000 FOR

EMERGENCY IRRIGATION PUMPS. END SUMMARY.

2. THE RETURNS ARE JUST BEGINNING TO COME IN MORE THAN A WEEK AFTER TYPHOON DOMOINA WREAKED HAVOC ON SOUTHERN MOZAMBIQUE. THE ORIGINAL FLOODING WAS PRIMARILY CONFINED TO THE SOUTHERN ZONES OF MAPUTO PROVINCE -- THE UMBELUZI, MAPUTO AND TEMBE RIVER VALLEYS IN PARTICULAR. THE WATERWORKS FOR THE CITY OF MAPUTO (POP. ESTIMATED AT ABOUT ONE MILLION) WAS TOTALLY DISABLED AND THE INHABITANTS NOW ENTER THEIR SECOND WEEK OF SUMMER WEATHER WITHOUT CITY WATER. ALSO, OVERLAND LINKS TO THE NORTH AND SOUTH WERE VIRTUALLY CUT AS ROAD BRIDGES FELL AND RAILWAYS WERE SERIOUSLY IMPERILED. FORTUNATELY, IT APPEARS THERE WAS A COMPATIVELY LOW HUMAN TOLL (CALCULATIONS ARE RUNNING ABOUT 100-150 DEATHS), BUT CROP AND LIVESTOCK

LOSSES WERE EXTREMELY SEVERE SINCE THE THREE-YEAR DROUGHT HAD FORCED FARMERS TO MOVE INTO THE RIVER BEDS FOR MUCH OF THEIR AGRICULTURAL ACTIVITY. THE HARDEST HIT SEEM TO BE THE PRIVATE AND FAMILY FARMERS WHO DOMINATE THE REGION.

3. IN THE SOUTH, AFTER TYPHOON DOMOINA'S ONSLAUGHT, THE WATERS BEGAN TO RECEDE BY MID-WEEK; HOWEVER, ON FEBRUARY 2ND THE AREAS WAS THEN HIT BY A PROLONGED TORRENTIAL RAINSTORM WHICH GAVE NEW IMPETUS TO THE FLOODING. MOREOVER, SUBSEQUENT TO NOTIFYING THE GPRM, THE SOUTH AFRICANS IN ORDER TO RELIEVE PRESSURE ON THEIR OWN DAMS, BEGAN TO OPEN THE GATES AMPLIFYING THE ALREADY DIRE PROBLEM DOWNSTREAM. IN THE NORTHERN PART OF MAPUTO AND SOUTHERN GAZA PROVINCES, THE TORRENTIAL RAINS OF WED-WEEK MADE THE SWOLLEN INCOMATI RIVER SURGE OUT OF ITS BANKS, PLACING THE HIGHLY FERTILE LANDS IN THE MAGUDE-MACIA-MANHICA TRIANGLE ALMOST ENTIRELY UNDER WATER AND DESTROYING UNTOLD NUMBERS OF CROPS (RICE, SUAGR, CORN AND VEGETABLES) ON THE VERGE OF BEING HARVESTED. AGAIN, PRIVATE AND FAMILY FARMERS SEEM TO BE THE HARDEST HIT. ALSO, THE NORTH-SOUTH NATIONAL HIGHWAY WAS BREACHED SEVERAL PLACES IN THIS ZONE, EFFECTIVELY ISOLATING MAPUTO FROM OVERLAND CONTACT WITH THE REST OF THE COUNTRY.

4. FOR THE FIRST TIME, ALL THE PRINCIPAL RIVERS IN MAPUTO PROVINCE OVERFLOODED. THE FLOODS NOW LABELED THE WORST IN MOZAMBIQUE'S RECORDED HISTORY, CAME IN THE FACE OF THE CONTINUING EFFECTS OF THE DROUGHT IN GAZA AND INHAMBANE PROVINCES. THE GPRM HAS HAD TO REDOUBLE ITS ALREADY OVEREXTENDED EFFORTS TO DEAL WITH THE EMERGENCY. FOOD IS BEING DIVERTED TO MEET THE PRESSING REQUIREMENTS, SOME OF WHICH IS PL-430 COMMODITIES WHICH FORTUITOUSLY RECENTLY ARRIVED IN MAPUTO. MEDICINES, CLOTHING AND SHELTER ARE IN SHORT SUPPLY, AND ARE BEING AIR-DROPPED TO MANY VICTIMS. BASED ON VERY PRELIMINARY DATA, MINISTER OF INTERNAL COMMERCE ARANDA DA SILVA TOLD THE AMBASSADOR THAT THE GPRM'S INITIAL PRIORITIES ARE:

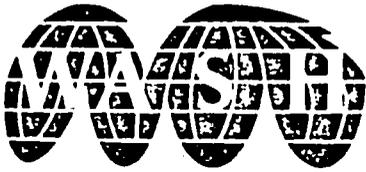
A) REPAIR OF MAPUTO'S WATERWORKS ESTIMATED TO COST \$770,000 TO REPLACE DAMAGED PARTS AND TO RESTOCK CHEMICALS RENDERED USELESS BY THE FLOOD. AUTHORITIES ARE GOING ALL OUT TO JERRY-RIG SOME SORT OF WATER SUPPLY FOR THE CAPITAL CITY, BUT RESTORATION TO ANY VIABLE DEGREE MAY

TAKE WEEKS; B) SEEDS -- IT IS NOT YET TOO LATE TO REPLANT SOME OF THE CROPS AT TO THEOPHYPHOON, ESPECIALLY BUTTER BEANS, COUPEAS AND VEGETABLES WHICH WILL STILL HAVE ENOUGH TIME TO GROW. HOWEVER, MOST OF THE PROMISING CORN AND RICE CROPS ARE BELIEVED TO BE BEYOND HOPE, MARKING THE THIRD CONSECUTIVE YEAR THE FARMERS IN THIS REGION HAVE LOST THEIR HARVEST--FIRST TO DROUGHT,

NOW TO FLOODING. IN THE SOUTH, TENTATIVE ESTIMATES INDICATE IMMEDIATE SEED NEEDS RE 300 TONS OF KALAHARI CORN SEED, 250 TONS OF BUTTER BEAN SEED AND 250 TONS OF COUPEA SEED, AS WELL AS VEGETABLE SEED (REPORTEDLY AVAILABLE IN SWAZILAND AND SOUTH AFRICA) AS FOLLOWS:

UNCLASSIFIED

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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 Yaoude 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

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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.

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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.

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**WATER AND SANITATION  
FOR HEALTH PROJECT**



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WASH PUBLICATIONS LIST

The Technical Reports (TR) and Field Reports (FR) published by the WASH Project for the Office of Health, AID, are listed on the following pages.

The first two pages list WASH Report numbers by subject categories, by countries, and by AID Regional Bureaus and Offices for whom the report was prepared.

The remaining pages present WASH Report titles in sequence by Report number. Technical Reports are listed first, pages 3-4; followed by the list of Field Reports, pages 4-8.

WASH Reports are prepared under task numbers which are indicated in each citation. C-Task refers to work done by or for the WASH Coordination and Information Center (CIC).

OTD refers to a task done by WASH under an Order of Technical Direction (OTD) received from the Office of Health, AID. OTD's are briefly summarized in periodic WASH Progress Reports.

NOTE: WASH Reports are printed in limited quantities and priority of distribution is to AID Missions and Offices and organizations directly supported by AID.

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WASH Information Center  
April 1984

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Office of Housing:		FR: 46; 109; 113;

## LIST OF WASH PUBLICATIONS: TECHNICAL AND FIELD REPORTS

### TECHNICAL REPORTS

1. WASH Technical Report 1. Triocide Questions and Answers. November, 1980 by Peter Kolsky.
2. WASH Technical Report 2. Possible Disinfection of Oral Rehydration Solutions. Notes from November 13, 1980 meeting with Richard Cash and Lincoln Chen, by Raymond B. Isely.
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. C-Task No. 49.
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. C-Task No. 47.
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, by Robert S. Struba and Raymond B. Isely. C-Task #49. (Also available in French.)
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 Raymond B. Isely. C-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 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. C-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. C-Task #51. (Also available in French and Spanish.)
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, Robert Suskind, Robert Struba and Kenneth McElroy. 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. Kupper. OTD #53. (Also available in French.)
14. WASH Technical Report 14. Water Supply and Sanitation in Rural Development: Proceedings of a Conference for Private and Voluntary Organizations, December 1-4, 1981. Sponsored by the National Council for International Health and the WASH Project. OTD #57.
15. WASH Technical Report 15. Application of Health Education to Water Supply and Sanitation Projects in Africa. October, 1982. Prepared by Raymond B. Isely and Kathleen A. Parker. C-Task #176.
16. WASH Technical Report 16. Relating Improvements in Water Supply and Sanitation to Nutritional Status. October 1982. Prepared by Raymond B. Isely. C-Task #309.
17. WASH Technical Report 17. Water and Sanitation-Related Health Constraints of Women's Contributions to the Economic Development of Communities. October 1982. Prepared by Mary Elmendorf and Raymond B. Isely. C-Task #310.
18. WASH Technical Report 18. Community Participation and Women's Role in Water Supply and Sanitation in Developing Countries: A Three-Part Bibliography by Author, Subject and Country. November 1982. Prepared by Ellen Kendall. C-Task #235.
19. WASH Technical Report 19. Africa Bureau Domestic Water and Sanitation Strategy Statement. January, 1983. Prepared by James Thomson. OTD #107.
20. WASH Technical Report 20. Guidelines for Human Resource Development Planning in the Water Supply and Sanitation Sector. October, 1983. Prepared by J.E.S. Lawrence and J.B. Tomaro. C-Task #265.
21. WASH Technical Report 21. Women's Roles in Water Supply and Sanitation in Developing Countries: A Four-Part Bibliography by Author, Subject, Phase of Development, and Country. February 1984. By Alice J. Smith. C-Task #B410.
22. WASH Technical Report 22. Human Resource Development: A Selected and Annotated Bibliography for Use in the Water Supply and Sanitation Sector. February 1984. By Vernon Razak. C-Task #C266.

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## 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. November, 1980. Prepared by Charlotte D. Miller. OTD #6.
2. WASH Field Report 2. Review of AID Rural Potable Water Programs - Haiti. November 16-29, 1980. Prepared by James Arbuthnot. 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, 1981. Prepared by Dennis B. Warner. 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. Contaminacion Ambiental en Ecuador. Prepared for USAID Mission, Ecuador 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 Emil Malek 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 (RSMO). 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, Dominican Republic, 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 R. 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 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 Yelimare-Tambacara Area of Mali with Reference to the Village Wells Project. February, 1982. Prepared by George Taylor. OTD #64.
33. WASH Field Report 33. Environmental Health in Egypt: A Sectoral Assessment and Recommendations. April, 1982. Prepared by Dennis B. Warner and David Donaldson. OTD #62.
34. WASH Field Report 34. A Proposed Action Plan for a National Training Program in the Water Sector for the Hashemite Kingdom of Jordan. September, 1982. Ken Woolf, John Austin, Walter Pinto-Costa. OTD #55.
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 McLeroy. OTD #58.
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