

Certified to be a true copy of the original signed by Mr. John L. Lovaas, USAID/Panama Acting Director, Dr. Ceferino Sánchez, Rector of the University of Panama, and Dr. Alfredo Bernal Osorio, Dean of the Faculty of Agronomy.

MAacker

Michael Hacker
Certifying Officer

CONFORMED COPY

PD-AAP-873 81
ISN=36018



ESTADOS UNIDOS DE NORTEAMERICA
AGENCIA PARA EL DESARROLLO INTERNACIONAL
USAID / PANAMA

20 de agosto de 1984

TEL. 63-6011
APARTADO 6939
PANAMA S. PANAMA

Dr. Ceferino Sánchez
Rector
Universidad de Panamá
Estafeta Universitaria
Panamá, Rep. de Panamá

Asunto: Donación No. 936-5542
Fertilización Vicariante en Suelos Tropicales (3.F49)

Estimado Dr. Sánchez:

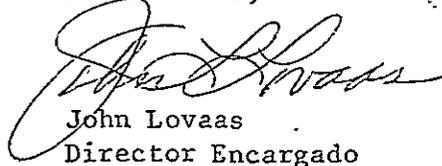
En conformidad a la autoridad contenida en la Ley de Ayuda Exterior de 1961 y sus enmiendas, la Agencia para el Desarrollo Internacional (de aquí en adelante denominada la "A.I.D. o "Donador") dona a la Universidad de Panamá (de aquí en adelante denominada "Donatario"), la suma de \$150,000 para proveer apoyo al programa, para estudiar cómo la aplicación de silicatos en suelos tropicales puede aumentar la existencia de fósforo y elementos afines (1) en las plantas, como lo describe el Dr. Robustiano Alvarez García en el Programa de esta donación y (2) en el Adjunto 2, titulado "Descripción del Programa".

Esta Donación se hace efectiva y la obligación se establece desde la fecha de esta carta y serán aplicados a los compromisos hechos por el Donatario en apoyo a los objetivos del programa durante el período comprendido entre la fecha efectiva de la Donación y la fecha final de la misma, o sea el 30 de agosto de 1986.

Esta donación se hace a la Universidad de Panamá bajo la condición de que los fondos sean administrados de acuerdo con los términos y condiciones establecidas en el "Adjunto 1", el Programa; Adjunto 2, titulado "Descripción del Programa"; y Adjunto 3 titulado "Planes Técnicos de Trabajo", los cuales han sido acordados por su institución.

Agradeceré se sirvan firmar el original y siete (7) copias de esta carta para acusar recibo de la Donación y devolver el original y seis (6) copias a la Oficina de Contratos, USAID/Panamá.

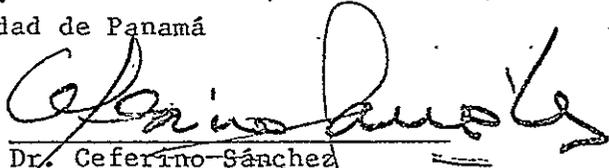
Atentamente,

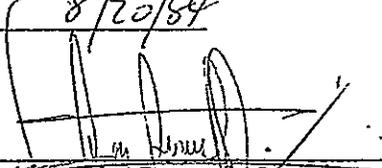

John Lovaas
Director Encargado

Adjuntos:

1. Programa
2. Descripción del Progrma
3. Plan Técnico de Trabajo
4. Papel que Desempeñan y Responsabilidades de los Investigadores y el Coordinador
5. Condiciones Generales

Recibido:
Universidad de Panamá

Por: 
Dr. Ceferino Sánchez
Título: Rector de la Universidad de Panamá
Fecha: 8/20/84

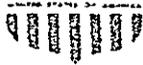
Por: 
Dr. Alfredo Bernal Osorio
Título: Decano de la Facultad de Agronomía (UP)
Fecha: 8/20/84

Información Fiscal

Apropiación: 72-1141021.6
Código del Plan del Presupuesto: DDAA-84-10600-DG11
Compromiso No.: 3641228
Proyecto No.: 936-5542
Cantidad Total Estimada: \$150,000
Cantidad Total Comprometida: \$150,000
Fuente de Fondos: AID/W



USAID - PANAMA



UNITED STATES OF AMERICA
AGENCY FOR INTERNATIONAL DEVELOPMENT
U. S. AID MISSION TO PANAMA

APO MIAMI 34002

August 20, 1984

Dr. Ceferino Sánchez
Rector
University of Panama
Estafeta Universitaria
Panama, Republic of Panama

Subject: Grant No. 936-5542
Vicariant Fertilization for Tropical Soils (3.F49)

Dear Dr. Sánchez:

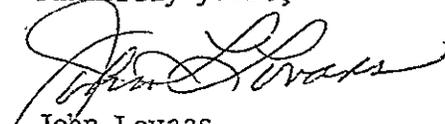
Pursuant to the authority contained in the Foreign Assistance Act of 1961, as amended, the Agency for International Development (hereinafter referred to as "A.I.D." or "Grantor") hereby grants to the University of Panama (hereby referred to as "Grantee", the sum of \$150,000 to provide support for a program to study how the application of silicon to tropical soils can increase the availability of phosphorus and related elements (1) to plants, as described by Dr. Robustiano Alvarez García in the Schedule of this grant and (2) the Attachment 2, entitled "Program Description."

This grant is effective and obligation is made as of the date of this letter and shall apply to commitments made by the Grantee in furtherance of program objectives during the period beginning with the effective date and ending August 30, 1986.

This grant is made to the Grantee, on condition that the funds will be administered in accordance with the terms and conditions as set forth in Attachment 1, the Schedule; Attachment 2, entitled "Program Description"; and Attachment 3 entitled "Technical Work Plans", which have been agreed to by your organization.

Please sign the original and seven (7) copies of this letter to acknowledge your receipt of the grant, and return the original and six (6) copies to the Office of Contract Management, USAID/Panama.

Sincerely yours,


John Lovaas
Acting Director

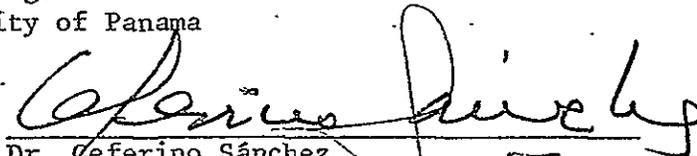
Attachments:

1. Schedule
2. Program Description
3. Technical Work Plan
4. Roles and Duties of Investigators and Coordinator
5. Standard Provisions

Acknowledged:

University of Panama

BY:



Dr. Ceferino Sánchez

TITLE: Rector de la Universidad de Panamá

DATE:

8/20/84

BY:



Dr. Alfredo Berna Osorio

TITLE: Decano de la Facultad de Agronomía (UP)

DATE:

8/20/84

Fiscal Data

Appropriation No.: 72-1141021.6
Budget Plan Code: DDAA-84-10600-DG11

Obligation No.: 3641228
Project No.: 936-5542
Total Estimated Amount: \$150,000
Total Obligated Amount: \$150,000
Funding Source: AID/W

~~KOS APT 875~~
 Page 1 of 13 Pages *56019*

AID 1350-1 (10-79)	UNITED STATES INTERNATIONAL DEVELOPMENT COOPERATION AGENCY AGENCY FOR INTERNATIONAL DEVELOPMENT	1. Cooperating Country Panama :	
PIO/T	PROJECT IMPLEMENTATION ORDER/TECHNICAL SERVICES	2. PIO/T No. 936-3-3641228	3. <input checked="" type="checkbox"/> Original or Amendment No. _____
		4. Project/Activity No. and Title 936-5542 Vicariant Fertilization for Tropical Soils (3.F49)	

DISTRIBUTION	5. Appropriation Symbol 72-1141021.6		6. XXXXXXXXXXXXXXXXXXXX BPC DDAA-84-10600-DG11		
	7. Obligation Status <input checked="" type="checkbox"/> Administrative Reservation <input type="checkbox"/> Implementing Document			8. Project Assistance Completion Date (Mo., Day, Yr.) August 30, 1986	
	9. Authorized Agent USAID/Panama		10. This PIO/T is in full conformance with PRO/AG Date _____		
	11a. Type of Action and Governing AID Handbook <input type="checkbox"/> AID Contract (HB 14) <input type="checkbox"/> PASA/RSSA (HB 12) <input checked="" type="checkbox"/> AID Grant (HB 13) <input type="checkbox"/> Other			11b. Contract/Grant/PASA/RSSA Reference Number (If this is an Amendment)	
	12. Estimated Financing (A detailed budget in support of column (2) is attached as attachment no. <u>1</u>)				
		(1) Previous Total	(2) Increase	(3) Decrease	(4) Total to Date
Maximum AID Financing	A. Dollars		\$150,000		\$150,000
	B. U.S.-Owned Local Currency				
13. Mission References	14a. Instructions to Authorized Agent USAID/Panama is authorized to negotiate a grant with the University of Panama, Faculty of Agronomy to provide support for a program to study how the application of silicon to tropical soils can increase the availability of phosphorus and other chemically related elements to plants as described in Attachment 2, entitled "Program Description"; Attachments 1, "Schedule"; 3, "Technical Work Plan"; 4, "Roles and Duties of Investigators and Coordinator" provide details regarding the proposed use of AID grant funds.				
		14b. Address of Voucher Paying Office Controller USAID/Panama APO Miami 34002			

State 167068
 dated 7 June '84
 SCI memo dated
 20 December '83.

15. Clearances—Include typed name, office symbol, telephone number and date for all clearances.

A. The project officer certifies that the specifications in the statement of work are technically adequate AGR:DDrga/DGRoze1 <i>[Signature]</i>	Phone No. Date <u>8/15/84</u>	B. The statement of work lies within the purview of the initiating and approved agency programs ODP:JBe1t <i>[Signature]</i>	Date <u>8/16/84</u>
C. <i>[Signature]</i> ODR:PTuebner	Date <u>8/15/84</u>	D. Funds for the services requested are available <i>[Signature]</i> <u>8/16/84</u> CONT:DLarson	
E. <i>[Signature]</i> ADD:DLarson	Date <u>8/16/84</u>		

16. For the cooperating country: The terms and conditions set forth herein are hereby agreed to <i>[Signature]</i> Signature <u>Dr. Cefesino Sanchez</u> Date <u>8/20/84</u> Title <u>Rector, University of Panama</u>	17. For the Agency for International Development <i>[Signature]</i> Signature <u>Acting Director</u> Date <u>8/20/84</u> Title <u>Acting Director</u>
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SCHEDULE

A. Purpose of Grant

The purpose of this Grant is to provide support for Faculty of Agronomy University of Panama's proposal, "Vicariant Fertilization for Tropical Soils (3.F49)," e. as expanded and revised (per letters of 27 June 1983 and 14 November 1983), which are hereby incorporated by reference, as more specifically described in Attachment 2 to this Grant entitled "Program Description." The Program Description, Standard Revisions and Schedule take precedence over the Faculty of Agronomy's proposal.

B. Period of Grant

The effective date of this Grant is the date of the grant letter. The expiration date of this Grant is August 30, 1986.

C. Amount of Grant and Payment

1. AID hereby obligates the amount of \$150,000 for the purposes of this Grant. This is the maximum obligation of funds for the specific research objectives supported under this Grant.

2. Payment shall be made to the Grantee in accordance with procedures set forth in Attachment 3 - Standard Provision 9A entitled "Payment - Periodic Advance." After the initial advance, payment will be made on a monthly basis for essential cash requirements during the period covered by the voucher. The Grantee shall submit through the AID Project Support Officer to the AID Controller voucher forms SF-1034 and SF-1034A, Public Voucher for Purchases and Services other than Personal.

D. Financial Plan

The following is the Financial Plan for this Grant, including local cost financing items, if authorized. Revisions to this Plan shall be made in accordance with Standard Provision of this Grant, entitled "Revision of Financial Plans," subject to the following modifications. The Grantee shall not exceed the total obligated amount of \$150,000. The following are the approved cost element amounts:

Summary

	<u>Year 1</u>	<u>Year 2</u>	<u>Total</u>
Personnel*	\$40,685	\$44,890	\$ 85,575
Materials/Supplies	6,500	7,000	13,500
Equipment (Purchase)	14,000	4,700	18,700
Equipment (Modifications/Rental)	2,000	1,000	3,000
Travel	6,500	6,700	13,200
Vehicle	11,725	-	11,725
Fuel for Vehicle	1,500	1,800	3,300
Publications/Communications/Other Costs	450	550	1,000
 Total Direct Costs	 \$83,360	 \$66,640	 \$150,000
 <u>Other Contributions</u>			
University of Panama			\$ 48,000
Equipment and Upkeep of		8,000	
Assistants		20,000	
Field Machinery and Fuel		8,000	
Lab Services and Greenhouse		12,000	
University of Delaware			\$ 48,000
Qualified Technician		22,000	
Co-Principal Investig. 20%		18,000	
CHEMICAL ENG.		8,000	
 Total Project Costs			 <u><u>\$246,000</u></u>

* As described in the original project:
 Coordinator: Principal Investigator, Dr. Robustiano Alvarez 70%
 Associate Agronomist Investigator: Ing. Metodio Rodríguez 25%
 Associate Investigator: Dr. Francisco Mora 25%
 Secretarial Services
 Field Worker
 Fringe Benefits

E. Reporting and Evaluation

AID's project monitoring system of research funded under the Office of the Science Advisor requires accurate estimates of the dates for the submission of reports. Therefore, the Grantee is requested to reconfirm the dates of the reporting schedule in the first report.

1. Progress Reports: The principal investigators will submit interim progress reports in four copies to the AID Project Support Officer stating what has been accomplished to date. These reports are due within thirty days following the reporting periods ending: February 28, 1985, August 31, 1985, and February 28, 1986.

2. Final Report: The principal investigators shall submit ten (10) copies of the Final Report to the AID Project Support Officer no later than the completion date of the grant, which currently is estimated as August 30, 1986. The report should be sufficiently detailed to substantiate the findings and to permit a scientific evaluation of the research. Overseas collaborators shall be given fair credit for their participation in the research and a chance to review and comment on the final report before it is submitted to AID. The principal investigators should share a draft of the final report with the AID Project Support Officer for comment prior to the formal submission. In addition, the grant provides project funds for the Principal Investigator to travel to Washington for presenting research finding before the Washington Development Community.

3. The Federal Cash Management Report (SF-272) shall be submitted on a quarterly basis to the AID Controller at the following address:

Agency for International Development
USAID/Panama
Panama City

4. USAID Project Support Officer:

Donald Drga
Agriculture Officer
USAID/Panama

5. Principal Investigators:

Dr. Robustiano Alvarez Garcia
Faculty of Agronomy
University of Panama
Casilla de Correo 37
David, Chiriquí
Republic of Panama

Ing. Metodio Rodríguez
Faculty of Agronomy
University of Panama
Casilla de Correo 37
David, Chiriquí
Republic of Panama

Dr. Donald L. Sparks
Department of Plant Science
University of Delaware
Newark, Delaware 19711

Dr. Francisco Mora
Faculty of Agronomy
University of Panama
Casilla de Correo 47
David, Chiriquí
Republic of Panama

6. Collaborating Institutions:

University of Delaware

F. Special Provisions

1. Standard Provisions 9B, 15B, and 15C are deleted as inapplicable.
2. Attachment 3(a) to this grant entitled "Alterations in Grant", dated July 1982, is applicable to this grant.
3. Standard Provisions 35, Patent Rights (OMB Circular A-124), as set out as attachment hereto will be applicable to the grant.
4. The placement of a subordinate agreement under this grant is subject to the prior written consent of the Grant Officer in accordance with Standard Provision 22, "Subordinate Agreements."
5. The total amount budgeted for each component may be exceeded or reduced by 15% without agreement in writing.
6. Equipment items are hereby approved as described in the proposal budget as follows (over \$500):

U.S. Manufactured Vehicle	\$11,725
Photocolorimeter	4,000
Digestor (Kjeldahl)	4,500
Fume Hood	3,000
Whiley Mill	3,000
Lab. PH meter	1,500
Field PH meter	600
Hollow cathodes	900
Total	<u>\$29,225</u>

7. International travel between Panama and the United States as described in the Project budget is hereby approved subject to Standard Provision 10, "Travel and Transportation".

G. Overhead Rate

No overhead rate will be charged against this grant. Instead, it will be a cost absorbed by the Grantee.

H. Title to Property

The title to property acquired under this grant will be vested in accordance with Standard Provisions 15A.

PROGRAM DESCRIPTION

A. Purpose of Grant

The objective is to study how the application of silicon to tropical soils can maximize the release of phosphorus and other chemically related elements from aluminum and iron compounds in the soil for absorption by plants.

B. Specific Objectives

- 1) To develop specifically formulated soluble silicates and phospho-silicates capable of significantly increasing P in the soil solution.
- 2) To test these special fertilizers for their maximum efficiency in releasing P when incorporated in acid soils with high P fixation capacity.
- 3) To select those silicated fertilizers which show the best performance and test them for their initial and residual effectiveness in greenhouse and field experiments.
- 4) To statistically evaluate the results of laboratory, soil and plant tissue analyses to find the relationships between the compositions of silicated fertilizers and phosphorus availability.

C. Implementation

The following material is excerpted from the Faculty of Agronomy's (UP) proposal written and revised by the Principal Investigator, which has been incorporated, by reference.

TECHNICAL WORK PLAN

Experimental Approach

- 1) The initial stages of the project will be dedicated to the manufacture, identification, and quality control of specifically formulated silicated fertilizers.
- 2) Soil-silicates interactions will be studied in the soil laboratories as well as in the greenhouse.
- 3) The most efficient silicated fertilizers will be preselected by laboratory studies.
- 4) Field trials will complete the screening of the preselected silicates.
- 5) The results will be transferred to other tropical areas of the world.

A thorough knowledge of the soil properties will be necessary to interpret the experimental data. Laboratory studies will comprise:

- 1) Soil classification
- 2) Physical properties (texture, hydraulic conductivity)
- 3) pH
- 4) Extractable and exchangeable cations
- 5) Extractable and exchangeable anions
- 6) Total organic matter
- 7) Adsorption isotherms for P and Si
- 8) Surface charge variation with ionic environment

The physical and physiochemical properties will be continuously monitored in all experiments.

Manufacture of silicated fertilizers

The production of specifically formulated soluble silicates and phospho-silicates initially will be carried out on a reduced scale, as a pilot operation.

The techniques to be applied for production of silicated fertilizers will follow the theoretical principles used in the manufacture of cements. However, it will be necessary to manipulate some working variables in a different fashion, in order to obtain the most desirable finished products.

Departing from traditional cements, the raw materials should be as free as possible from ferrous and aluminous compounds and the degree of crystallinity of the resulting silicates should be rather low (amorphous) in order to be more water soluble. An outline of the procedures for manufacture of the specifically formulated soluble silicates in a pilot plant follows:

- 1) Selection of silicated fertilizers from raw materials having low Fe, Al, Mn contaminants. Calcium sources: lime (coral) from local and imported sources. Si sources: Flour-silica sand. Mg Source: serpentine. K and Na sources: chlorides and carbonates.
- 2) Fusion of raw materials in a "wet" process, carried out in rotary kilns to ensure careful blending. The temperature in the kiln will range between 1200 and 1400°C.
- 3) Grinding of finished product to coarse (granular) and fine particle size.

Chemical characterization of silicated fertilizers

The dual purpose of these tests is first to identify the finished materials and second to determine the silicate properties in relation to their Si-P interaction. The following data will be obtained:

- 1) Solubility of anions and cations as a function of time and particle size in water, citric acid and Morgan solution.
- 2) pH of suspensions of pure fertilizers.
- 3) Surface area of ground materials.
- 4) X-ray diffractometry for bulk structures
- 5) X-ray fluorescence for quantitative elemental analysis and to determine SiO₂/metal oxides ratios.

Preselection of most efficient silicated materials

Tests are aimed to measure the capabilities of the various silicated fertilizers to keep P-native and/or P-fertilizers in soil solution so that they will be available to plants. Representative soils will be mixed with the silicated fertilizers of various particle sizes to perform:

- 1) Soil-silicates adsorption and desorption studies in aqueous solutions.
- 2) Kinetic studies to measure the rate of release of P and Si to the soil solutions.

The adsorption and desorption studies will be performed by adsorption isotherms of unbuffered soil suspensions. This is the closest approach to the

natural field systems. The interpretation of the isotherms will be done by the Freundlich treatment, since it fits well for the unbuffered systems (Huang and Stum, 1973; Alvarez, 1976). Careful stepwise recording of concentration changes for all the ions participating in the soil-silicate fertilizer systems is required. This is the only way to gather data which will explain the modus-operandi of P adsorption by a given silicated fertilizer for a given soil.

Greenhouse experiments

Greenhouse experiments are related to the laboratory tests and have the purpose of providing a solid "practical" basis for continuing the selection of the most efficient silicated fertilizer prior to their field use. They will be performed by using the preselected silicate fertilizers. A series of pot-tests in which the three representative soils (Oxisol-Ultisol-Inceptisol) will be planted with tropical crops such as sugar cane, beans and maize. The treatments will include variable rates of silicated fertilizers (0 to 2.000 kg/ha) with and without P-fertilizer added (0 to 350 kg/ha).

The placement will be done by broadcasting and mixing fertilizers at two levels with the soil. The soils will be watered to field capacity. Initial and residual effects will be evaluated by periodical soil and tissue sampling and measuring maximum yield. However, additional pots will be kept without planting for soil analysis only. In the pots, pH, P, Si and soluble cations and anions will be also periodically determined. The results from the laboratory, the soil-fertilizer tests as well as the greenhouse experiments will be statistically analyzed. From the integrated data it will be possible to establish a mathematical relationship between Si, cations and pH variables vs P-availability. The relationship will be particularly useful to find out how the ions making up the silicate fertilizer composition operate. An equation is expected to be developed from selecting the silicated fertilizers most capable of releasing P and making it more available for a given plant species.

Field experiments

Field trials initially will be set up in the Experimental Stations representative soil areas from which the soil samples for the greenhouse experiments were taken. The experimental designs for the field trials will be based primarily on the results obtained in the greenhouse tests. These trials have the purpose of collecting data on the agronomic efficiency of the silicated fertilizers preselected from the greenhouse tests. Statistical analysis will follow. From the results, the role of silicate composition, particle size, rate of application and placement on P uptake and yield will be determined for a given soil and a given plant species. The next step will be to transfer the experience gained to tropical soils of underdeveloped areas.

Facilities

The Faculty of Agronomy of the University of Panama has a large farm of nearly 2,000 acres, located in the tropical area of Chiriqui. A variety of highly weathered soils are within the farm. Besides, the Faculty has some other properties all over tropical Panama where to perform field trials.

Greenhouses and laboratories are modern, spacious, and adequate.

1) Time Work Plan for partial reports

0	3	6	9	12	15	18	21	24	
									month
0				12					
									(a)
0						16			
									(b)
			9					24	(c)
			9					24	(d)

- a) Synthesis of specifically formulated silicates, physicochemical screening, based on silicate properties as well as soil-silicate interrelationships.
- b) Greenhouse testing of pre-selected (a) silicates (first greenhouse screening).
- c) Second greenhouse selection, based on materials tested in (b), oriented to determine agronomic effectiveness of silicates as a function of quantity and placement.
- d) Field trials.

ROLES AND DUTIES OF INVESTIGATORS AND COORDINATOR

COORDINATOR-PRINCIPAL INVESTIGATOR (CDT-PI)

- 1) The CDT-PI will be responsible for the accomplishment of all technical aspects of the project. Will be director of the physico-chemical, industrial and agronomical experiments, from basic research through synthesis of amending materials up to greenhouse and field trials performed in Panama Faculty of Agronomy as well as in Delaware - U.S.A. (Department of Plant Science)
- 2) The CDT-PI may delegate authority to the Co-Principal Investigator at Delaware, when absent from that location, or to the Associate Investigator (s) when absent from Panama or the site of work.
- 3) The CDT-PI will decide along with the Decano (Dean) of the Faculty of Agronomy (FAUP), within the terms of the grant contract, about the proper use of the grant funds.

The Co-Principal Investigator (CO-PI)

- 1) The CO-PI will have similar roles and duties as the PI, but essentially in relation to the physicochemical and synthesis experiments to be performed in Delaware.
- 2) When present in Panama will direct, along with the PI., the Physico-chemical experiments of the projects.
- 3) In the absence of the P.I. will take the lead in all the chemical aspects of the project.

The Associate Investigator (AI)

- 1) The A.I. will be in charge of the laboratories at Panama. The A.I. will execute and supervise all the chemical experiments as well as quality control of organic and inorganic materials related to the project.

The A.I. will not have direct participation in the synthesis of amending materials and will only collaborate in the reproduction of results related to the synthesized materials.

The AI will collect by himself or with the P.I and the Associate Agronomist Investigator (AAI) the soil and tissue samples for analysis and classification when necessary.

- 2) When the AAI is absent or overloaded in duties the AI will take charge of the greenhouse experiments.
- 3) The AI may replace the CDT-PI while he is not in Panama by his mandate and the consent of the Dean of the FAUP.

The Associate Agronomist Investigator

- 1) The AAI will be in charge of the execution of the greenhouse and field (crop) experiments in Panama. He will outline, along with the PI and the AID, the adequate experimental designs for greenhouse and field trials.
- 2) The AAI will take charge of the lab and greenhouse experiments in the absence of the PI and AI.
- 3) The AAI may take full charge of the direction of the project in the absence of the PI by his mandate and consent of the Dean of the FAUP.

"Vicariant Fertilization for Tropical Soils"

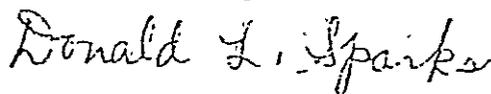
Project Director, Principal Investigator

Robustiano Alvarez Garcia, Ph.D. Soil Chemist. Faculty of Agronomy. UP (FAUP)



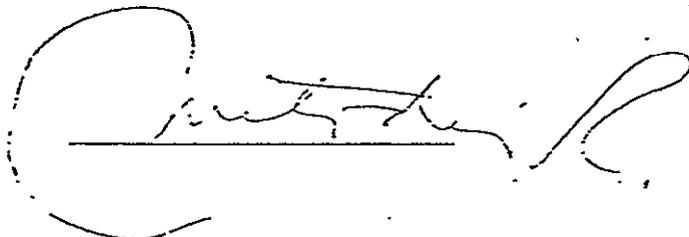
Co-Principal Investigator

Donald L. Sparks, Ph.D. Soil Chemist, Department of Plant Science,
University of Delaware

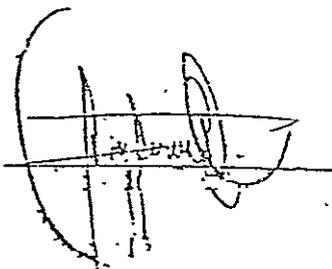


Associate Investigator

Metodio Rodriguez, Ing. Agronomist. Director of Research. (FAUP)



Alfredo Bernal Osorio, Ph.D. Dean,



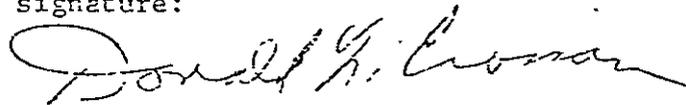
Authorized signature:

Faculty of Agronomy. University of
Panama.

Casilla Correo 37
David, Chiriqui, Rep. Panama

Donald F. Crossan, Ph.D. Dean

Authorized signature:



College of Agricultural Sciences
University of Delaware
Newark, Delaware 19717-1303

Duration: 2 years

Non U.S. Grantees and Non U.S. Subgrantees
EDUCATIONAL INSTITUTIONS
INDEX OF
STANDARD PROVISIONS

1. Allowable Costs and Contributions (Educational Institutions)
2. Accounting, Audit and Records
3. Refunds
4. Revision of Financial Plans
5. Termination
6. Disputes
7. Nondiscrimination in Federally Assisted Programs
- 8A. Negotiated Overhead Rates—Predetermined
- 8B. Negotiated Overhead Rates—Educational Institutions
- 9A. Payment—Periodic Advance
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10. Travel and Transportation
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- 12A. Procurement of Goods and Services Under \$250,000
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13. Local Cost Financing With U.S. Dollars
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- 15A. Title To and Use of Property (Grantee Title)
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16. Voluntary Participation
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19. Publications
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21. Regulations Governing Employees Outside the United States
22. Subordinate Agreements
23. Participant Training
24. Health and Accident Coverage for AID Participant Trainees
25. U.S. Officials Not to Benefit
26. Covenant Against Contingent Fees
27. Nonliability
28. Amendment
29. The Grant
30. Notices

—SEE FOOTNOTES ON PAGE 20—

If the institution is not on a predetermined basis, omit 8A; otherwise use both provisions.

Select only 1 payment provision from Group 9.

Select only 1 procurement provision from Group 12.

Select only 1 title provision from Group 15, if title to all property is vested in one entity; however, if title is to be split by categories among two or more entities, select the appropriate provisions from Group 15 and identify the categories and entities in the Schedule of the Grant.

1. ALLOWABLE COSTS AND CONTRIBUTIONS (EDUCATIONAL INSTITUTIONS)

(This provision is applicable to educational institutions.)

(a) The Grantee shall be reimbursed for costs incurred in carrying out the purposes of this grant which are determined by the Grant Officer to be reasonable, allocable, and allowable in accordance with the terms of (1) this grant, (2) any negotiated advance understanding on particular cost items, and (3) OMB Circular A-21, "Principles for Determining Costs Applicable to Grants, Contracts and Other Agreements with Educational Institutions," in effect on the date of this grant (hereinafter referred to as "applicable cost principles").

(b) If Grantee contributions in the form of cost sharing/matching are required under this grant, the allowability of costs applied to the grant for such contributions shall be determined by the Grant Officer in accordance with the terms of paragraph 1K, "Cost Sharing and Matching," of Handbook 13 in effect on the date of this grant.

(c) The requirements set forth in this provision are only applicable to costs incurred with funds provided by AID under this grant. Except for paragraph (b) above, the requirements set forth in this provision are not applicable to costs incurred by the Grantee from non-Federal funds. Such costs will be considered allowable to the extent they conform to the requirements of paragraph (b) above and are incurred for the purposes of the grant.

2. ACCOUNTING, AUDIT, AND RECORDS

(a) With respect to accounting, records and audit, the Grantee shall comply with the requirements set forth in paragraphs II, 1J, and 1L, of Handbook 13.

(b) The AID Inspector General and the Comptroller General of the United States or their duly authorized representatives (see paragraph 116 of Chapter 1 of Handbook 13) reserve the right to conduct an audit of the Grantee's books and records to determine whether the Grantee has expended AID's funds in accordance with the terms and conditions of this grant. The Grantee agrees to make available any further information requested by AID with respect to any questions arising as a result of the audit.

3. REFUNDS

(a) If use of the AID funds provided hereunder results in accrual of interest to the Grantee or to any other person to whom Grantee makes such funds available in carrying out the purposes of the grant, the Grantee shall refund to AID an amount equivalent to the amount of interest accrued.

(b) Funds obligated by AID hereunder but not disbursed to the Grantee at the time the grant expires or is terminated, shall revert to AID, except for such funds encumbered by the Grantee by a legally binding transaction applicable to this grant. Any funds disbursed to but not expended by the Grantee at the time of expiration or termination of the Grant shall be refunded to AID.

(c) If, at any time during the life of the grant, or as a result of final audit, it is determined by AID that funds it provided under this Grant have been expended for purposes not in accordance with the terms of this grant, the Grantee shall refund such amount to AID.

4. REVISION OF FINANCIAL PLANS

(a) The Financial Plan, i.e., grant budget, is the financial expression of the project or program as approved during the application and/or award process.

(b) The Grantee shall immediately request approval from the Grant Officer when there is reason to believe that within the next 30 calendar days a revision of the approved Financial Plan will be necessary for any of the following reasons:

1. To change the scope or the objectives of the project or program.
2. Additional funding is needed.
3. The Grantee expects the amount of AID authorized funds will exceed its needs by more than

\$5,000 or five percent of the AID award, whichever is greater.

4. The Grantee plans to transfer amounts budgeted for indirect costs to absorb increases in direct costs or vice versa.

5. The Grantee plans to transfer funds budgeted for training allowances (direct payments to trainees) to other categories of expense.

6. The Grantee plans to incur an expenditure which would require approval under the terms of this grant, and was not included in the approved Financial Plan.

7. The Grantee intends to subcontract or subgrant any of the substantive programmatic work under this grant, and such subcontracts or subgrants were not included in the approved Financial Plan.

(c) When requesting approval for budget revisions, the Grantee shall use the budget forms that were used in the application unless a letter request will suffice.

(d) Within 30 calendar days from the date of the receipt of the request for budget revisions, the Grant Officer shall review the request and notify the Grantee whether the budget revisions have been approved. If the revisions are still under consideration at the end of 30 calendar days, the Grant Officer shall inform the Grantee in writing of the date when the Grantee may expect the decision. The Grant Officer shall obtain the Project Officer's clearance on all such requests prior to communication with the Grantee.

(e) If the requested budget revision requires the obligation of additional funding, and, if after notification pursuant to this Standard Provision, AID determines not to provide additional funds, the AID Grant Officer will, upon written request of the Grantee, terminate this grant pursuant to the Standard Provision of this grant, entitled "Termination."

(f) Except as required by other provisions of this grant specifically citing and stated to be an exception from this provision, the Government shall not be obligated to reimburse the Grantee for costs incurred in excess of the total amount obligated under the grant, and the Grantee shall not be obligated to continue performance under the grant (including actions under the "Termination" provision) or otherwise to incur costs in excess of the amount obligated under the grant, unless and until the Grant Officer has notified the Grantee in writing that such obligated amount has been increased and has specified in such notice an increased amount constituting the total amount then obligated under the grant.

5. TERMINATION

(a) *For Cause.* This grant may be terminated for cause at any time, in whole or in part, by the Grant Officer upon written notice to the Grantee, whenever it is determined that the Grantee has failed to comply with the conditions of the grant.

(b) *For Convenience.* This grant may be terminated for convenience at any time by either party, in whole or in part, if both parties agree that the continuation of the grant would not produce beneficial results commensurate with the further expenditure of funds. Both parties shall agree upon termination conditions, including the effective date and, in the case of partial terminations, the portion to be terminated. The agreement to terminate shall be set forth in a letter from the Grant Officer to the Grantee.

(c) *Termination Procedures.* Upon receipt of and in accordance with a termination notice as specified in either paragraph (a) or (b) above, the Grantee shall forthwith take immediate action to minimize all expenditures and obligations financed by this grant, and shall cancel such unliquidated obligations whenever possible. Except as provided below, no further reimbursement shall be made after the effective date of termination, and the Grantee shall within 30 calendar days after the effective date of such termination repay to the Government all unexpended portions of funds theretofore paid by the Government to the Grantee which are not otherwise obligated by a legally binding transaction applicable to this grant. Should the funds paid by the Government to the Grantee prior to effective date of the termination of this grant; be insufficient to cover the Grantee's obligations pursuant to the aforementioned legally binding transaction, the Grantee may submit to the Government within 90 calendar days after the effective date of such termination a written claim covering such obligations, and, subject to the limitations contained in this grant, the Grant Officer shall determine the amount or amounts to be paid by the Government to the Grantee under such claim in accordance with the applicable Federal cost principles.

6. DISPUTES

(a) Any dispute arising under this grant, which is not disposed of by agreement, shall be decided by the AID Grant Officer who shall reduce his/her decision to writing and mail or otherwise furnish a copy thereof to the Grantee.

(b) Decisions of the AID Grant Officer shall be final and conclusive unless, within 30 days of receipt of the decision of the Grant Officer, the Grantee appeals the decision to the Administrator, AID. Any

appeal made under this provision shall be in writing and addressed to the Administrator, Agency for International Development, Washington, D.C. 20523; a copy of any such appeal shall be concurrently furnished to the Grant Officer.

(c) In connection with any appeal proceeding under this provision, the Grantee shall be afforded an opportunity to be heard and to offer evidence in support of its appeal.

(d) A decision under this provision by the Administrator or his duly authorized representative shall be final and conclusive unless determined by a court of competent jurisdiction to be fraudulent, capricious, arbitrary, an abuse of discretion, or based on clearly erroneous findings of facts or conclusions of law.

7. NONDISCRIMINATION IN FEDERALLY ASSISTED PROGRAMS

(This provision is applicable to non-U.S. Grantees and non-U.S. Subgrantees when any portion of the program being supported is to be undertaken in the United States.)

(a) No person in the United States shall be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity receiving financial assistance from AID in accordance with:

(1) Title VI of the Civil Rights Act of 1964 (Pub. L. 88-352, 42 U.S.C. 2000-d) which prohibits discrimination on the basis of race, color or national origin, in programs and activities receiving Federal financial assistance.

(2) Section 504 of the Rehabilitation Act of 1973 (29 U.S.C. 794) which prohibits discrimination on the basis of handicap in programs and activities receiving Federal financial assistance.

(3) The Age Discrimination Act of 1975, as amended (Pub. L. 95-478), which prohibits discrimination based on age in the delivery of services and benefits supported with Federal funds.

(4) Title IX of the Education Amendments of 1972 (20 U.S.C. 1681, *et seq.*) which prohibits discrimination on the basis of sex in education programs and activities receiving Federal financial assistance (whether or not the programs or activities are offered or sponsored by an educational institution); and

(b) In accordance with its written assurance, the Grantee agrees to comply with AID regulations implementing the above nondiscrimination laws, set forth in Chapter II of Title 22 of the Code of Federal Regulations.

8A. NEGOTIATED OVERHEAD RATES—PREDETERMINED

(This provision is applicable to educational or other nonprofit organizations or institutions that are on a predetermined overhead rate basis.)

(a) Notwithstanding the provision of this grant entitled "Allowable Costs and Contributions," the allowable indirect costs under this grant shall be obtained by applying predetermined overhead rates to the base(s) agreed upon by the parties, as specified in the Schedule of this grant.

(b) The Grantee, except for educational institutions covered by OMB Circular A-88, as soon as possible but not later than 3 months after the close of each of its accounting periods during the term of this grant, shall submit to the AID Grant Officer with copies to the cognizant audit activity, the AID Inspector General, and the AID Overhead and Special Costs Branch, Services Operations Division, Office of Contract Management, AID/Washington, D.C. 20523, a proposed predetermined overhead rate or rates based on the Grantee's actual cost experience during that fiscal year, together with supporting cost data. Negotiation of predetermined overhead rates by the Grantee and the AID Grant Officer shall be undertaken as promptly as practicable after receipt of the Grantee's proposal.

(c) Allowability of costs and acceptability of cost allocation methods shall be determined in accordance with the provisions of the applicable cost principles in effect on the date of this grant.

(d) Predetermined rates appropriate for the work under this grant in effect on the effective date of this grant shall be incorporated into the grant. Rates for subsequent periods shall be negotiated and the results set forth in a written overhead rate agreement executed by both parties. Such agreement shall be automatically incorporated into this grant upon execution and shall specify (1) the agreed predetermined overhead rates, (2) the base(s) to which the rates apply, (3) the fiscal year unless the parties agree to a different period for which the rates apply, and (4) the specific items treated as direct costs or any changes in the items previously agreed to be direct costs. The overhead rate agreement shall not change any monetary ceiling, grant obligation, or specific cost allowance or disallowance provided for in this grant.

(e) Pending establishment of predetermined overhead rates for any fiscal year or different period agreed to by the parties, the Grantee shall be reimbursed either at the rates fixed for the previous fiscal year or other period or at billing rates acceptable to the AID Grant Officer subject to appropriate adjustment when the final rates for the fiscal year or other

period are established.

(f) Any failure by the parties to agree on any predetermined overhead rate or rates under this provision shall not be considered a dispute within the meaning of the "Disputes" provision of this grant. If for any fiscal year or other period specified in the grant the parties fail to agree to a predetermined overhead rate or rates, it is agreed that the allowable overhead costs under this grant shall be obtained by applying negotiated final overhead rates in accordance with the terms of the applicable "Negotiated Overhead Rates" provision of this grant.

8B. NEGOTIATED OVERHEAD RATES—EDUCATIONAL INSTITUTIONS

(This provision is applicable to educational institutions which do not have predetermined rates; however, it shall also be included when the NEGOTIATED OVERHEAD RATES—PREDETERMINED provision is used, under the conditions set forth therein.)

(a) Pursuant to this provision, an overhead rate shall be established for each of the Grantee's accounting periods during the term of this grant. Pending establishment of a final rate, the parties have agreed that provisional payments on account of allowable indirect costs shall be at the rate(s), on the base(s), and for the period shown in the Schedule of this grant.

(b) The Grantee, except educational institutions covered by OMB Circular A-88, as soon as possible but not later than 90 days after the close of each of its accounting periods during the term of this grant, shall submit to the Grant Officer with copies to the Overhead and Special Cost Branch, Services Operations Division, Office of Contract Management, AID/Washington, D.C. 20523 and to the Office of the Inspector General, AID/Washington, D.C. 20523, a proposed final rate or rates for the period, together with supporting cost data. Negotiation of final overhead rates by the Grantee and the Grant Officer shall be undertaken as promptly as practicable after receipt of the Grantee's proposal.

(c) Allowability of costs and acceptability of cost allocation methods shall be determined in accordance with OMB Circular A-21 (Principles for Determining Costs Applicable to Grants, Contracts and other Agreements with Educational Institutions) as in effect on the date of this grant.

(d) The results of each negotiation shall be set forth in a written overhead rate agreement executed by both parties. Such agreement shall specify (1) the agreed final rates, (2) the bases to which the rates apply, and (3) the periods for which the rates apply. The overhead rate agreement shall not change any

monetary ceiling, grant obligation, or specific cost allowance or disallowance provided for in this grant.

(e) Pending establishment of final overhead rates for any period, the Grantee shall be reimbursed either at negotiated provisional rates as provided above or at billing rates acceptable to the Grant Officer, subject to appropriate adjustment when the final rates for that period are established. To prevent substantial over or under payment, the provisional or billing rates may, at the request of either party, be revised by mutual agreement, either retroactively or prospectively. Any such revision of negotiated provisional rates provided in this provision shall be set forth in a modification to this grant.

(f) Any failure by the parties to agree on any final rate or rates under this provision shall be considered a dispute within the meaning of the Standard Provision of the Grant, entitled "Disputes" and shall be disposed of in accordance therewith.

9A. PAYMENT--PERIODIC ADVANCE

(This provision is applicable when (1) the requirements of paragraph 1.0.6. of Chapter 1 of Handbook 13 have been met, and (2) the Grantee has the ability to maintain procedures that will minimize the time elapsing between the transfer of funds and the disbursement thereof, and (3) the Grantee's financial management system meets the standards for fund control and accountability required under the standard provision of this agreement entitled "Accounting, Audit and Records.")

a. Each month (or quarter, if the Grantee is on a quarterly basis) after the initial cash advance, the Grantee shall submit to the AID Controller voucher form SF 1034 (original) and SF 1034-A (three copies), "Public Voucher for Purchases and Services Other Than Personal."

b. Each voucher shall be identified by the appropriate grant number and shall be accompanied by an original and three copies of a report in the following format:

**FEDERAL CASH ADVANCE STATUS REPORT
(Report Control No. W-245)**

- A. Period covered by this report:
 FROM (Month, day, year) _____
 TO (Month, day, year) _____
 Period covered by the next report
 FROM (Month, day, year) _____
 TO (Month, day, year) _____
- B. Cash Advance Use and Needs.
1. Cash advance on hand at the beginning of this reporting period \$ _____
 2. U.S. Treasury check advance(s) received during this reporting period .. \$ _____

3. Interest earned on cash advance during this reporting period \$ _____
4. GROSS cash advance available during this reporting period (Lines 1, 2, & 3) \$ _____
5. LESS, interest remitted to AID during this reporting period \$ _____
6. NET cash advance available during this reporting period (Line 4 minus Line 5) \$ _____
7. Total disbursements during this reporting period, including subadvances (see footnote 1)..... \$ _____
8. Amount of cash advances available at the end of this reporting period (Line 6 minus Line 7) \$ _____
9. Projected disbursements, including subadvances, for the next reporting period (see footnote 2) \$ _____
10. Additional cash advance requested for the next reporting period (Line 9 minus Line 8) \$ _____
11. Total interest earned on cash advance from the start of the Grant to the end of this reporting period, but not remitted to AID \$ _____
12. Total cash advances to subgrantees, if any, as of the end of this reporting period..... \$ _____

FOOTNOTES:

1. The Grantee shall submit a cumulative detailed report of disbursements by BUDGET line item quarterly; the monthly cash advance status report does not require a detailed report of disbursements.
2. The Grantee shall attach to this summary a detailed projection by BUDGET line item, of its anticipated needs for the next reporting period.

C. Certification

The undersigned hereby certifies: (1) that the report in paragraph B.9 above represents the best estimates of funds needed for the disbursements to be incurred over the period described, (2) that appropriate refund or credit to the Grant will be made in the event of disallowance in accordance with the terms of the Grant or Agreement, (3) that appropriate refund or credit to the Grant will be made in the event funds are not expended, and that any interest accrued on the funds made available herein will be refunded to AID.

DATE _____ BY _____
 TITLE _____

c. AID funds shall not be commingled with other Grantee owned or controlled funds. The Grantee shall deposit all AID cash advances in a separate bank account and shall make all disbursements for goods and services from this account.

9B. PAYMENT-REIMBURSEMENT

(This provision is applicable to grants for construction, or to grants which do not provide for a periodic advance.)

(a) Each month the Grantee shall submit to the AID Controller an original and 3 copies of SF 1034, "Public Voucher for Purchases and Services Other Than Personal"; each voucher shall be identified by the grant number and shall state the total amount of costs incurred for which reimbursement is being requested.

(b) In addition to the SF 1034, each nonconstruction voucher shall be supported by an original and 2 copies of SF 270, "Request for Advance or Reimbursement," and each construction voucher shall be supported by an original and 2 copies of SF 271, "Outlay Report and Request for Reimbursement for Construction Programs."

(c) Each quarterly voucher (or each third monthly voucher) shall also be supported by an original and 2 copies of a SF 269, "Financial Status Report." The SF 269 shall be submitted within 30 days after the end of the reporting quarter and may be submitted separately from the SF 1034(s).

10. TRAVEL AND TRANSPORTATION

(This provision is applicable when domestic or international air travel or shipment costs are reimbursable under the grant.)

(a) The Grant Officer hereby approves international travel to be reimbursed under this grant provided that the Grantee shall obtain written concurrence from the cognizant Project Officer in AID prior to sending any individual outside the United States to perform work under the grant. For this purpose the Grantee shall advise the Project Officer at least 30 days in advance of any travel to be undertaken outside the United States. After concurrence is received the Grantee shall provide the cognizant Mission or U.S. Embassy advance notification (with a copy to the Project Officer) of the arrival date and flight identification of grant-financed travelers.

(b) Travel to certain countries shall, at AID's option, be funded from U.S.-owned local currency. When AID intends to exercise this option, it will so notify the Grantee after receipt of advice of intent to travel, required above. AID will issue a Government Transportation Request (GTR) which the Grantee

may exchange for tickets, or AID will issue the tickets directly. Use of such U.S.-owned currencies will constitute a dollar charge to this grant.

(c) All international air travel and all international air shipments funded under this grant shall be made on United States flag air carriers (hereinafter referred to as "certificated air carriers"), to the extent service by such carriers is available in accordance with paragraphs (d) and (e) below:

The terms used in this provision have the following meanings:

(1) "International air transportation" means transportation of persons (and their personal effects) or property by air between a place in the United States and a place outside thereof or between two places both of which are outside the United States.

(2) "U.S. flag air carriers" means one of a class of air carriers holding a certificate of public convenience and necessity issued by the Civil Aeronautics Board, approved by the President, authorizing operations between the United States and/or its territories and one or more foreign countries.

(3) The term "United States" includes the fifty states, Commonwealth of Puerto Rico, possessions of the United States, and the District of Columbia.

(d) Passenger or freight service by a certificated air carrier is considered "available" even though:

(1) Service by noncertificated air carrier can be paid for in excess foreign currency, or

(2) Service by a noncertificated air carrier is preferred by the agency or traveler needing air transportation, or

(3) Service by a noncertificated air carrier is more convenient for the agency or traveler needing air transportation.

(e) Passenger service by a certificated air carrier will be considered to be "unavailable":

(1) When certificated air carriers offer only first class service, and less than first class service is available from noncertificated air carriers, or

(2) When the traveller, while en route, has to wait 6 hours or more to transfer to a certificated air carrier to proceed to the intended destination, or

(3) When any flight by a certificated air carrier is interrupted by a stop anticipated to be 6 hours or more for refueling, reloading, repairs, etc., and no other flight by a certificated air carrier is available during the 6 hour period, or

(4) When by itself or in combination with other certificated or noncertificated air carriers (if certificated air carriers are "unavailable") it takes 12 or more hours longer from the original airport to the destination airport to accomplish the agency's mission than would service by a noncertificated air carrier or carriers.

(5) When the elapsed travel time on a scheduled flight from origin to destination airports by noncertificated air carrier(s) is 3 hours or less, and service by certificated air carrier(s) would involve twice such scheduled travel time.

(f) Freight service by a certificated air carrier will be considered to be unavailable when:

(1) No certificated air carrier provides scheduled air freight service from the airport serving the shipment's point of origin, and a noncertificated air carrier does.

(2) The certificated air carrier(s) serving the shipment's point of origin decline to issue a through airway bill for transportation to the shipment's final destination airport.

(3) Use of a certificated air carrier would result in delivery to final destination at least 7 days later than delivery by means of a noncertificated air carrier.

(4) The total weight of the consignment exceeds the maximum weight per shipment which a certificated air carrier will accept and transport as a single shipment, and a noncertificated air carrier will accept and transport the entire consignment as a single shipment.

(5) The dimensions (length, width, or height) of one or more of the items of a consignment exceed the limitation of the certificated aircraft's cargo door openings, but do not exceed the acceptable dimensions for shipment on an available noncertificated air carrier.

(g) Where U.S. Government funds are used to reimburse the Grantee's use of other than U.S. flag carriers for international transportation, the Grantee will include a certification on vouchers involving such transportation which is essentially as follows:

CERTIFICATION OF UNAVAILABILITY OF U.S. FLAG AIR CARRIERS

I hereby certify that the transportation service for personnel (and their personal effects) or property by certificated air carrier was unavailable for the following reason(s): (State appropriate reason(s) as set forth in (e) or (f) above; see 41 CFR 1-1.323-3 for further guidance.)

(h) *Travel Costs and Overseas Maintenance Allowances*

(1) *Travel Within the United States*

(i) As used herein, the term "travel within the United States" includes the 50 states, District of Columbia, Commonwealth of Puerto Rico, Virgin Islands, and all the U.S. Territories except the Trust Territories of the Pacific Islands.

(ii) Subsistence allowances paid to Grantee employees traveling within the United States will be reimbursed in accordance with the established policies and practices of the Grantee which are uniformly applied to both federally financed and other activities of the Grantee.

(2) *International Travel*

(i) As used herein, the term "international travel" includes travel to the U.S. Trust Territories of the Pacific Islands.

(ii) The Grantee will be reimbursed for international travel, subsistence, and post differentials and other allowances paid to employees in an international travel status, or assigned overseas, in accordance with the Grantee's established policies and practices which are uniformly applied to federally financed and other activities of the Grantee, but only to the extent that such reimbursement does not exceed the applicable amounts or rates established in the Standardized Regulations (Government Civilians, Foreign Areas), published by the U.S. Department of State, as from time to time amended.

II. OCEAN SHIPMENT OF GOODS

(This provision is applicable when goods purchased with funds provided under this grant are transported to the Cooperating Country on ocean vessels.)

(a) At least 50% of the gross tonnage of all goods purchased under this grant and transported to the Cooperating Country on ocean vessels shall be transported on privately owned U.S. flag commercial vessels, to the extent such vessels are available at fair and reasonable rates for such vessels; and

(b) At least 50% of the gross freight revenue generated by shipments of goods purchased under this grant and transported to the Cooperating Country on dry cargo liners shall be paid to or for the benefit of privately owned U.S. flag commercial vessels to the extent such vessels are available at fair and reasonable rates for such vessels.

(c) When U.S. flag vessels are not available, or their use would result in a significant delay, the Grantee may request a certificate of nonavailability from the AID Transportation Support Division, Office of Commodity Management, Washington, D.C. 20523, giving the basis for the request. Such a determination of nonavailability will relieve the Grantee of the requirement to use U.S. flag vessels for the tonnage of goods included in the determination.

(d) Vouchers submitted for reimbursement which include ocean shipment costs shall contain a certification essentially as follows: "I hereby certify that a

copy of each ocean bill of lading concerned has been submitted to the Maritime Administration, Cargo Preference Control Center, Commerce Building, Washington, D.C. 20235, and that such bills of lading state all of the carrier's charges including the basis for calculation such as weight or cubic measurement."

(e) Shipments by voluntary nonprofit relief agencies (i.e., PVO's) shall be governed by this Standard Provision and by AID Regulation 2, "Overseas Shipments of Supplies by Voluntary Nonprofit Relief Agencies" (22 CFR 202).

12A. PROCUREMENT OF GOODS AND SERVICES UNDER \$250,000

(This provision is applicable when the total procurement element (i.e., the sum of all purchase orders and contracts for goods and services) of this grant does not exceed \$250,000.)

(a) *Ineligible Goods and Services*

Under no circumstances shall the Grantee procure any of the following under this grant:

- (1) military equipment,
- (2) surveillance equipment,
- (3) commodities and services for support of police or other law enforcement activities,
- (4) abortion equipment and services,
- (5) luxury goods and gambling equipment, or
- (6) weather modification equipment.

If AID determines that the Grantee has procured any of the ineligible goods and services specified above under this grant, and has received reimbursement for such purposes, the Grantee agrees to refund to AID the entire amount of the reimbursement.

(b) *Restricted Goods*

The Grantee shall not procure any of the following goods and services without the prior written authorization of the Grant Officer:

- (1) agricultural commodities,
- (2) motor vehicles,
- (3) pharmaceuticals,
- (4) pesticides,
- (5) rubber compounding chemicals and plasticizers,
- (6) used equipment,
- (7) U.S. Government-owned excess property, or
- (8) fertilizer.

If AID determines that the Grantee has procured any of the restricted goods specified above under this grant, without the prior written authorization of the Grant Officer, and has received reimbursement for such purpose, the Grantee agrees to refund to AID the entire amount of the reimbursement.

(c) *Geographic Source and Order of Preference*

All goods (e.g., equipment, materials, and supplies) and services, the costs of which are to be reimbursed under this grant, and which will be financed with United States dollars, shall be purchased in and shipped from only "Special Free World" countries (i.e., AID Geographic Code 935) in accordance with the following order of preference:

- (1) the United States (AID Geographic Code 000),
- (2) "Selected Free World" countries (AID Geographic Code 941),
- (3) the cooperating country,
- (4) "Special Free World" countries (AID Geographic Code 935).

(d) *Application of Order of Preference*

When the Grantee procures goods and services from other than U.S. sources, under the order of preference in (c) above, it shall document its files to justify each such instance. The documentation shall set forth the circumstances surrounding the procurement and shall be based on one or more of the following reasons, which will be set forth in the Grantee's documentation:

- (1) the procurement was of an emergency nature, which would not allow for the delay attendant to soliciting U.S. sources,
- (2) the price differential for procurement from U.S. sources exceeded by 50% or more the delivered price from the non-U.S. source,
- (3) impelling local political considerations precluded consideration of U.S. sources,
- (4) the goods or service were not available from U.S. sources, or
- (5) procurement of locally available goods or services, as opposed to procurement of U.S. goods and services, would best promote the objectives of the Foreign Assistance program under the grant.

(e) *The Grantee's Procurement System*

(1) The Grantee may use its own procurement policies and procedures provided they conform to the geographic source and order of preference requirements of this provision and paragraphs 1U.3.a., b., and c. of Chapter 1, AID Handbook 13.

(2) If the Grantee's procurement policies and procedures have been reviewed against the procurement requirements of paragraphs 1U.3.a., b., and c. and have been approved by AID or another Federal department or agency, the Grantee shall furnish the Grant Officer a copy of such approval; otherwise the Grantee's procurement policies and procedures shall conform to those specified in paragraphs 1U.3.a., b., and c. of Chapter 1, AID Handbook 13.

(f) *Small Business*

To permit AID, in accordance with the small business provisions of the Foreign Assistance Act of 1961, as amended, to give United States small business firms an opportunity to participate in supplying commodities and services procured under this grant, the Grantee, shall, to maximum extent possible, provide the following information to the Office of Small and Disadvantaged Business Utilization, AID/Washington, D.C. 20523, at least 45 days prior (except where a shorter time is requested of, and granted by, the Office of Small and Disadvantaged Business Utilization) to placing any order or contract in excess of \$25,000:

- (1) Brief general description and quantity of goods or services;
- (2) Closing date for receiving quotations, proposals, or bids; and
- (3) Address where invitations or specifications can be obtained.

(g) *Ineligible Suppliers*

Funds provided under this grant shall not be used to procure any commodity or commodity-related services furnished by any supplier whose name appears on the List of Ineligible Suppliers under AID Regulation 8, "Suppliers of Commodities and Commodity-Related Services Ineligible for AID Financing" (22 CFR 208). The Grantee agrees to review said list prior to undertaking any procurement the cost of which is to be reimbursable under this grant. AID will provide the Grantee with this list.

(h) *Ocean and Air Transportation*

For requirements relating to transportation by ocean vessel of commodities purchased under this grant, see the Standard Provision entitled "Ocean Shipment of Goods." For requirements relating to transportation of commodities by air, see the Standard Provision entitled "Travel and Transportation."

12B. PROCUREMENT OF GOODS AND SERVICES OVER \$250,000

(This provision is applicable when the total procurement element, i.e., the sum of all purchase orders and contracts for goods and services, of this grant will be greater than \$250,000 over the life of the grant.)

(a) *General.* Except as may be specifically approved or directed in advance by the Grant Officer, all goods (e.g., equipment, vehicles, materials, and supplies) and services which will be financed under this grant with United States dollars shall be procured in and shipped from the United States (Code 000) and from any other countries within the

authorized geographic code specified in the Schedule of this grant.

(b) *Procurement of goods.* In order to be eligible under this grant, goods purchased under this grant must be of eligible source and origin, and must satisfy AID's componentry requirements set forth below. In addition, the supplier of commodities must meet the nationality requirements specified in paragraph (d)(1) of this provision.

(1) *Source.* Source means the country from which a commodity is shipped to the Cooperating Country or the Cooperating Country itself if the commodity is located therein at the time of purchase. However, where a commodity is shipped from a free port or bonded warehouse in the form in which received therein, source means the country from which the commodity was shipped to the free port or bonded warehouse.

(2) *Origin.* The origin of a commodity is the country or area in which a commodity is mined, grown, or produced. A commodity is produced when through manufacturing, processing, or substantial and major assembling of components, a commercially recognized new commodity results that is substantially different in basic characteristics, or in purpose or utility, from its components.

(3) *Componentry.* Components are the goods that go directly into the production of a produced commodity. AID componentry rules are as follows:

(i) If a commodity produced in an eligible source country contains no imported component, it is eligible for AID financing.

(ii) Unless otherwise specified by the Grant Officer, components from the United States, the Cooperating Country, and any other countries included in Geographic Code 941 may always be utilized in unlimited amounts regardless of the geographic code authorized.

(iii) Unless procurement is authorized from countries included in Code 899, components from free world countries not included in Code 941 are limited according to the following rules:

(A) They are limited only if they are acquired by the producer in the form in which they were imported.

(B) The total cost to the producer of such components (delivered at the point of production) may not exceed 50 percent of the lowest price (excluding the cost of ocean transportation and marine insurance) at which the supplier makes the commodity available for export sale (whether or not financed by AID).

(C) AID may prescribe percentages other than 50% for specific commodities.

(iv) Any component from a non-free world country makes the commodity ineligible for AID financing.

(A) *Supplier Nationality.* (See paragraph (d) of this provision.)

(c) *Eligibility of commodity-related services*

(1) *Incidental services.* Nationality rules are applied to the contractor supplying equipment under this grant and not separately to any contractor that may supply commodity-related incidental services. Such services, defined as the installation or erection of AID-financed equipment, or the training of personnel in the maintenance, operation, and use of such equipment, are eligible if specified in the equipment contract and performed by citizens of countries included in AID Geographic Code 935, or non-United States citizens lawfully admitted for permanent residence in the United States.

(2) *Ocean and air transportation*

(i) Except as otherwise approved in writing by the Grant Officer, AID will finance only those ocean transportation costs:

(A) Incurred on vessels under U.S. flag registry, when Geographic Code 600 is authorized for procurement of goods or services;

(B) Incurred on vessels under U.S., Cooperating Country, or other countries included in Geographic Code 941 flag registry, when Geographic Code 941 is authorized for procurement of goods or services; or

(C) Incurred on vessels under flag registry of any free world country, if the costs are part of the total cost on a through bill of lading paid to a carrier for initial carriage on a vessel which is authorized in accordance with paragraphs (c)(2)(i)(A) and (B), above.

(ii) Any ocean or air charter, covering full or part cargo, for the transportation of goods purchased under this grant must be approved by the AID Transportation Support Division, Office of Commodity Management, Washington, D.C. 20523, prior to shipment.

(iii) When use of non-U.S. flag vessels has been authorized, the following requirements still apply:

(A) At least 50% of the gross tonnage of all goods purchased under this grant and transported to the Cooperating Country on ocean vessels, shall be transported on privately owned U.S. flag commercial vessels, to the extent such vessels are available at fair and reasonable rates for such vessels; and

(B) At least 50% of the gross freight revenue generated by shipments of goods purchased under this grant and transported to the Cooperating

Country on dry cargo liners shall be paid to or for the benefit of privately owned U.S. flag commercial vessels to the extent such vessels are available at fair and reasonable rates for such vessels.

(iv) When U.S. flag vessels are not available, or their use would result in a significant delay, the Grantee may request a certificate of nonavailability from the AID Transportation Support Division, Office of Commodity Management, Washington, D.C. 20523, giving the basis for the request. Such a determination of nonavailability will relieve the Grantee of the requirement to use U.S. flag vessels for the tonnage of goods included in the determination.

(v) Vouchers submitted for reimbursement which include ocean shipment costs shall contain a certification essentially as follows: "I hereby certify that a copy of each ocean bill of lading concerned has been submitted to the Maritime Administration, Cargo Preference Control Center, Commerce Building, Washington, D.C. 20235, and that such bills of lading state all of the carrier's charges including the basis for calculation such as weight or cubic measurement."

(vi) For the use of U.S. flag air carriers, see the Standard Provision, entitled "Travel and Transportation."

(3) *Marine insurance.* The eligibility of marine insurance is determined by the country in which it is "placed." Insurance is "placed" in a country if payment of the insurance premium is made to, and the insurance policy is issued by, an insurance company located in that country. Eligible countries for placement are governed by the authorized geographic code, except that if Code 941 is authorized, the Cooperating Country is also eligible. Section 604(d) of the Foreign Assistance Act requires that if a recipient country discriminates by statute, decree, rule, or practice with respect to AID-financed procurement against any marine insurance company authorized to do business in any State of the United States, then any AID-financed commodity shipped to that country shall be insured against marine risk and the insurance shall be placed in the United States with a company or companies authorized to do a marine insurance business in any State of the United States.

(d) *Nationality.* Except as specified in paragraph (c) above, in order to be eligible for AID financing under this grant, contractors, subcontractors, or suppliers must fit one of the following categories:

(1) *Suppliers of commodities.* A supplier providing goods must fit one of the following categories for the costs of such goods to be eligible for AID financing under this grant:

(i) An individual who is a citizen or legal resident of a country or area included in the authorized geographic code; or

(ii) A corporation or partnership organized under the laws of a country or area included in the authorized geographic code; or

(iii) A controlled foreign corporation; i.e., any foreign corporation of which more than 50 percent of the total combined voting power of all classes of stock is owned by United States shareholders within the meaning of Section 957 et seq. of the Internal Revenue Code, 26 U.S.C. 957; or

(iv) A joint venture or unincorporated association consisting entirely of individuals, corporations, or partnerships which fit any of the foregoing categories.

(2) *Suppliers of services.* A contractor or subcontractor thereunder providing services under an AID-financed grant must fit one of the following categories for the costs of such contracts or subcontracts to be eligible for AID financing under this grant. (NOTE: the term contractor includes personal services contractors):

(i) An individual who is a citizen of and whose principal place of business is in a country included in the authorized geographic code or a non-U.S. citizen lawfully admitted for permanent residence in the United States whose principal place of business is in the United States; or

(ii) A corporation or partnership that is incorporated or legally organized under the laws of a country or area included in the authorized geographic code, has its principal place of business in a country or area included in the authorized geographic code, and meets the criteria set forth in either subparagraph (A) or (B), below:

(A) The corporation or partnership is more than 50% beneficially owned by individuals who are citizens of a country or area included in the authorized geographic code. In the case of corporations, "more than 50% beneficially owned" means that more than 50% of each class of stock is owned by such individuals; in the case of partnerships, "more than 50% beneficially owned" means that more than 50% of each category of partnership interest (e.g., general, limited) is owned by such individuals. (With respect to stock or interests held by companies, funds or institutions, the ultimate beneficial ownership by individuals is controlling.)

(B) The corporation or partnership:

(1) has been incorporated or legally organized in the United States for more than three years prior to the issuance date of the invitation for bids or request for proposals, and

(2) has performed within the United States administrative and technical, professional or construction services under a contract or contracts for services and derived revenue therefrom in each of the three years prior to the date described in the preceding paragraph, and

(3) employs United States citizens in more than half of its permanent full-time positions in the United States, and

(4) has the existing capability in the United States to perform the contract; or

(iii) A joint venture or unincorporated association consisting entirely of individuals, corporations, or partnerships which fit categories (d)(2)(i) and (d)(2)(ii) above. However, joint ventures with firms wholly or partially owned by the host government are ineligible.

(iv) A duly authorized officer of the firm shall certify that the participating firm meets either the requirements of subparagraphs (d)(ii)(A) or (d)(ii)(B) above. In the case of corporations, the certifying officer shall be the corporate secretary. With respect to the requirements of subparagraph (d)(ii)(A) of this provision, the certifying officer may presume citizenship on the basis of the stockholder's record address, provided the certifying officer certifies, regarding any stockholder (including any corporate funds or institutional stockholder) whose holdings are material to the corporation's eligibility, that the certifying officer knows of no fact which might rebut that presumption.

(3) *Ineligible suppliers of commodities and services.* Citizens or firms of any country not included in AID Geographic Code 935 are ineligible as suppliers, contractors, subcontractors, or agents, for goods and services the costs of which will be reimbursed under this grant. However, non-U.S. citizens lawfully admitted for permanent residence in the United States are eligible.

(e) *Nationality of employees under contracts and subcontracts for services.* The nationality policy of subparagraph (d)(2), of this provision does not apply to the employees of contractors or subcontractors whose services will be reimbursed under this grant, but all contractor and subcontractor employees engaged in providing services under AID-financed grants must be citizens of countries included in AID Geographic Code 935 or non-U.S. citizens lawfully admitted for permanent residence in the United States.

(f) *The Cooperating Country as a source.* With certain exceptions, the Cooperating Country is not normally an eligible source for procurement to be paid in U.S. dollars. The exceptions are for ocean

freight and marine insurance (see paragraphs (c)(1) and (c)(2) of this provision). The Cooperating Country may be an eligible source if local cost financing is approved either by specific action of the Grant Officer or in the Schedule of the grant. In such cases, the Standard Provision entitled "Local Cost Financing with U.S. Dollars," will apply.

(g) *Ineligible goods and services.* Under no circumstances shall the Grantee procure any of the following under this grant:

- (1) military equipment,
- (2) surveillance equipment,
- (3) commodities and services for support of police or other law enforcement activities,
- (4) abortion equipment and services,
- (5) luxury goods and gambling equipment, or
- (6) weather modification equipment.

If AID determines that the Grantee has procured any of the ineligible goods and services specified above under this grant, and has received reimbursement for such purpose, the Grantee agrees to refund to AID the entire amount of the reimbursement.

(h) *Restricted goods.* The Grantee shall not procure any of the following goods or services without the prior written authorization of the Grant Officer:

- (1) agricultural commodities,
- (2) motor vehicles,
- (3) pharmaceuticals,
- (4) pesticides,
- (5) rubber compounding chemicals and plasticizers,
- (6) used equipment,
- (7) U.S. Government-owned excess property, or
- (8) fertilizer.

If AID determines that the Grantee has procured any of the restricted goods specified above under this grant, without the prior written authorization of the Grant Officer, and has received reimbursement for such purpose, the Grantee agrees to refund to AID the entire amount of the reimbursement.

(i) *Printed or audio-visual teaching materials.* If the effective use of printed or audio-visual teaching materials depends upon their being in the local language and if such materials are intended for technical assistance projects or activities financed by AID in whole or in part and if other funds including U.S.-owned or U.S.-controlled local currencies are not readily available to finance the procurement of such materials, local language versions may be procured from the following sources, in order of preference:

- (1) Code 000, United States,
- (2) the Cooperating Country,
- (3) Code 941, Selected Free World,

(4) Code 899, Free World.

(j) *Ineligible suppliers.* Funds provided under this grant shall not be used to procure any commodity or commodity-related services furnished by any supplier whose name appears on the List of Ineligible Suppliers under AID Regulation.8, "Suppliers of Commodities and Commodity-Related Services Ineligible for AID Financing" (22 CFR 208). The Grantee agrees to review said list prior to undertaking any procurement the cost of which is to be reimbursable under this grant. AID will provide the Grantee with this list.

(k) *The Grantee's Procurement System*

(1) The Grantee may use its own procurement policies and procedures provided they conform to the geographic source and nationality requirements of this provision and paragraphs 1U.3.a., b., and c. of Chapter 1, AID Handbook 13.

(2) If the Grantee's procurement policies and procedures have been reviewed against the procurement requirements of paragraphs 1U.3.a., b., and c. and have been approved by AID or another Federal department or agency, the Grantee shall furnish the Grant Officer a copy of such approval; otherwise the Grantee's procurement policies and procedures shall conform to those specified in paragraph 1U.3.a., b., and c. of Chapter 1, AID Handbook 13.

13. LOCAL COST FINANCING WITH U.S. DOLLARS

(This provision is applicable whenever local cost financing has been specifically authorized in the Schedule of this grant regardless of dollar amount.)

(a) Local cost financing is the use of U.S. dollars to obtain local currency for the procurement of goods and services in the Cooperating Country in furtherance of the purpose of the grant. Local cost financing must be specifically authorized in the Schedule of the grant. The amount of U.S. dollars which may be used must be specified in the authorization, together with any special restrictions on their use.

(b) Procurement of goods and services under local cost financing is subject to the following restrictions:

(1) *Ineligible goods and services*

Under no circumstances shall the Grantee procure any of the following under this grant:

- (i) military equipment,
- (ii) surveillance equipment,
- (iii) commodities and services for support of police or other law enforcement activities,
- (iv) abortion equipment and services,
- (v) luxury goods and gambling equipment, or
- (vi) weather modification equipment.

If AID determines that the Grantee has procured any of the ineligible goods and services specified above under this grant, and has received reimbursement for such purpose, the Grantee agrees to refund to AID the entire amount of the reimbursement.

(2) *Restricted goods*

The Grantee shall not procure any of the following goods or services without the prior written authorization of the Grant Officer:

- (i) agricultural commodities,
- (ii) motor vehicles,
- (iii) pharmaceuticals,
- (iv) pesticides,
- (v) rubber compounding chemicals and plasticizers,
- (vi) used equipment,
- (vii) U.S. Government-owned excess property, or
- (viii) fertilizer.

If AID determines that the Grantee has procured any of the restricted goods specified above under this grant, without the prior written authorization of the Grant Officer, and has received reimbursement for such purpose, the Grantee agrees to refund to AID the entire amount of the reimbursement.

(3) Any component from a non-free world country makes a commodity ineligible for AID financing.

(4) *Nationality*

(i) Citizens or firms of any country not included in AID Geographic Code 935 are ineligible as suppliers, contractors, subcontractors, or agents for goods and services the costs of which will be reimbursed under this grant.

(ii) Local cost financing is the use of appropriated U.S. dollars to obtain local currency for the payment for goods and services purchased in the Cooperating Country. Authorization of local cost financing makes the Cooperating Country, in addition to the United States and any other country included in the authorized geographic code for the project, an eligible source for the purchase of goods or services in the Cooperating Country. Goods or services purchased under local cost financing must be located in the Cooperating Country at the time they are purchased; they cannot be imported specifically for the project being implemented by this grant. The supplier from which goods or services are purchased under local cost financing must also be in the Cooperating Country. Suppliers of goods or services under local cost financing must meet the nationality eligibility tests prescribed in paragraph (d) of the provision of this grant entitled "Procurement of Goods and Services over \$250,000." When local cost financ-

ing has been authorized, the Cooperating Country is deemed to be included in the "authorized geographic code" for purposes of determining nationality eligibility pursuant to paragraph (d) of the provision, entitled "Procurement of Goods and Services over \$250,000."

(c) *General principles.* Under local cost financing, the Grantee shall follow sound procurement policies, utilizing competition to the maximum practical extent, obtaining the lowest available price, and documenting such procurements to justify the method used and the price established.

(d) *Procurement of goods.* In order to be eligible under local cost financing, goods are subject to the following specific requirements:

(1) *Indigenous goods.* Goods which have been mined, grown, or produced in the Cooperating Country through manufacture, processing, or assembly are eligible for local cost financing under this grant. Goods produced with imported components must result in a commercially recognized new commodity that is substantially different in basic characteristics or in purpose or utility from its components in order to qualify as indigenous; such goods may not contain components from any non-free world country.

(2) *Imported shelf items.* Imported shelf items are goods that are normally imported and kept in stock, in the form in which imported, for sale to meet a general demand in the country for the item; they are not goods which have been specifically imported for use in an AID-financed project.

(i) Shelf items are eligible for local cost financing in unlimited quantities up to the total amount available for local cost financing if they have their source in the Cooperating Country and their origin in a country included in AID Geographic Code 941.

(ii) Shelf items having their origin in any country included in Code 899 but not in Code 941 are eligible if the price of one unit does not exceed \$5,000. For goods sold by units of quantity; e.g., tons, barrels, etc., the unit to which the local currency equivalent of \$5,000 is applied is that which is customarily used in quoting prices. The total amount of imported shelf item purchases from countries included in Code 899 but not in Code 941 may not exceed \$25,000 or 10% of the total local costs financed by AID for the project whichever is higher; however, in no case may the total amount of such purchases exceed \$250,000 without first obtaining a specific geographic source waiver.

(3) *Goods imported specifically for the project.* Goods imported specifically for the project being im-

plemented by this grant are not eligible for local cost financing; they are subject to the requirements of the provision entitled "Procurement of Goods and Services over \$250,000."

14. GOVERNMENT FURNISHED EXCESS PERSONAL PROPERTY

(This provision applies when personal property is furnished under the grant.)

The policies and procedures of Handbook 16, "Excess Property," and the appropriate provisions of 41 CFR 101-43 apply to the Government furnished excess property under this grant.

15A. TITLE TO AND USE OF PROPERTY (GRANTEE TITLE)

(This provision is applicable when the Government vests title in the Grantee only.)

Title to all property financed under this grant shall vest in the Grantee, subject to the following conditions:

(a) The Grantee shall not charge for any depreciation, amortization, or use of any property, title to which remains in the Grantee under this provision under this Grant or any other U.S. Government grant, subgrant, contract or subcontract.

(b) The Grantee agrees to use and maintain the property for the purpose of the grant in accordance with the requirements of paragraph 1T of Chapter 1, Handbook 13:

(c) With respect to nonexpendable property having an acquisition cost of \$1,000 or more, title to which vests in the Grantee, the Grantee agrees:

(1) To report such items to the Grant Officer from time to time as they are acquired and to maintain a control system which will permit their ready identification and location.

(2) To transfer title to any such items to the Government in accordance with any written request therefore issued by the Grant Officer at any time prior to final payment under this grant.

15B. TITLE TO AND CARE OF PROPERTY (U.S. GOVERNMENT TITLE)

(This provision is applicable when title to property is vested in the U.S. Government.)

(a) Property, title to which vests in the Government under this grant, whether furnished by the Government or acquired by the Grantee, is subject to this provision and is hereinafter collectively referred to as "Government property." Title to Government property shall not be affected by the incorporation or

attachment thereof to any property not owned by the Government, nor shall such Government property, or any part thereof, be or become a fixture or lose its identity as personalty by reason of affixation to any realty.

(b) Use of Government Property

Government property shall, unless otherwise provided herein or approved by the Grant Officer, be used only for the performance of this grant.

(c) Control, Maintenance and Repair of Government Property

The Grantee shall maintain and administer in accordance with sound business practice a program for the maintenance, repair, protection, and preservation of Government property so as to assure its full availability and usefulness for the performance of this grant. The Grantee shall take all reasonable steps to comply with all appropriate directions or instructions which the Grant Officer may prescribe as reasonably necessary for the protection of the Government property.

The Grantee shall submit, for review and written approval of the Grant Officer, a records system for property control and a program for orderly maintenance of Government property; however, if the Grantee's property control and maintenance system has been reviewed and approved by another Federal department or agency pursuant to Attachment N of OMB Circular No. A-110 (see paragraph 1T of Chapter 1, Handbook 13), the Grantee shall furnish the Grant Officer proof of such approval in lieu of another approval submission.

(1) Property Control

The property control system shall include but not be limited to the following:

(A) Identification of each item of Government property acquired or furnished under the grant by a serially controlled identification number and by description of item. Each item must be clearly marked "Property of U.S. Government."

(B) The price of each item of property acquired or furnished under the grant.

(C) The location of each item of property acquired or furnished under the grant.

(D) A record of any usable components which are permanently removed from items of Government property as a result of modification or otherwise.

(E) A record of disposition of each item acquired or furnished under the grant.

(F) Date of order and receipt of any item acquired or furnished under the grant.

The official property control records shall be kept in such condition that at any stage of comple-

tion of the work under this grant, the status of property acquired or furnished under this grant may be readily ascertained. A report of current status of all items of property acquired or furnished under the grant shall be submitted yearly concurrently with the annual report.

(2) Maintenance Program

The Grantee's maintenance program shall be such as to provide for, consistent with sound business practice and the terms of the Grant:

- (i) disclosure of need for and the performance of preventive maintenance.
- (ii) disclosure and reporting of need for capital type rehabilitation, and
- (iii) recording of work accomplished under the program.

(A) Preventive maintenance—Preventive maintenance is maintenance generally performed on a regularly scheduled basis to prevent the occurrence of defects and to detect and correct minor defects before they result in serious consequences.

(B) Records of maintenance—The Grantee's maintenance program shall provide for records sufficient to disclose the maintenance actions performed and deficiencies discovered as a result of inspections.

A report of status of maintenance of Government property shall be submitted annually concurrently with the annual report.

(d) Risk of Loss

(1) The Grantee shall not be liable for any loss of or damage to the Government property, or for expenses incidental to such loss or damage except that the Grantee shall be responsible for any such loss or damage (including expenses incidental thereto):

(i) Which results from willful misconduct or lack of good faith on the part of any of the Grantee's directors or officers, or on the part of any of its managers, superintendents, or other equivalent representatives, who have supervision or direction of all or substantially all of the Grantee's business, or all or substantially all of the Grantee's operation at any one plant, laboratory, or separate location in which this grant is being performed.

(ii) Which results from a failure on the part of the Grantee, due to the willful misconduct or lack of good faith on the part of any of its directors, officers, or other representatives mentioned in (i) above.

(A) to maintain and administer, in accordance with sound business practice, the program for maintenance, repair, protection, and preservation of Government property as required by (i) above, or (B) to take all reasonable steps to comply with any ap-

propriate written directions of the Grant Officer under (c) above;

(iii) For which the Grantee is otherwise responsible under the express terms of the article or articles designated in the Schedule of this grant.

(iv) Which results from a risk expressly required to be insured under some other provision of this grant, but only to the extent of the insurance so required to be procured and maintained, or to the extent of insurance actually procured and maintained, whichever is greater; or

(v) Which results from a risk which is in fact covered by insurance or for which the Grantee is otherwise reimbursed, but only to the extent of such insurance or reimbursement;

Provided, that, if more than one of the above exceptions shall be applicable in any case, the Grantee's liability under any one exception shall not be limited by any other exception.

(2) The Grantee shall not be reimbursed for, and shall not include as an item of overhead, the cost of insurance, or any provision for a reserve, covering the risk of loss of or damage to the Government property, except to the extent that the Government may have required the Grantee to carry such insurance under any other provision of this grant.

(3) Upon the happening of loss or destruction of or damage to the Government property, the Grantee shall notify the Grant Officer thereof, shall take all reasonable steps to protect the Government property from further damage, separate the damaged and undamaged Government property, put all the Government property in the best possible order, and furnish to the Grant Officer a statement of:

(i) The lost, destroyed, and damaged Government property;

(ii) The time and origin of the loss, destruction, or damage;

(iii) All known interests in commingled property of which the Government property is a part; and

(iv) The insurance, if any, covering any part of or interest in such commingled property.

The Grantee shall make repairs and renovations of the damaged Government property or take such other action as the Grant Officer directs.

(4) In the event the Grantee is indemnified, reimbursed, or otherwise compensated for any loss or destruction of or damage to the Government property, it shall use the proceeds to repair, renovate or replace the Government property involved, or shall credit such proceeds against the cost of the work covered by the grant, or shall otherwise reimburse the Government, as directed by the Grant Officer. The Grantee shall do nothing to prejudice the Govern-

ment's right to recover against third parties for any such loss, destruction, or damage, and upon the request of the Grant Officer, shall, at the Government's expense, furnish to the Government all reasonable assistance and cooperation (including assistance in the prosecution of suit and the execution of instruments of assignments in favor of the Government) in obtaining recovery.

(e) Access

The Government, and any persons designated by it, shall at all reasonable times have access to the premises wherein any Government property is located, for the purpose of inspecting the Government property.

(f) Final Accounting and Disposition of Government Property

Upon completion of this grant, or at such earlier dates as may be fixed by the Grant Officer, the Grantee shall submit, in a form acceptable to the Grant Officer, inventory schedules covering all items of Government property not consumed in the performance of this grant or not theretofore delivered to the Government, and shall prepare, deliver, or make such other disposal of the Government property as may be directed or authorized by the Grant Officer.

(g) Communications

All communications issued pursuant to this provision shall be in writing.

**15C. TITLE TO AND CARE OF PROPERTY
(COOPERATING COUNTRY TITLE)**

(This provision is applicable to property titled in the name of the Cooperating Country or such public or private agency as the cooperating government may designate.)

(a) Except as modified by the Schedule of this grant, title to all equipment, materials and supplies, the cost of which is reimbursable to the Grantee by AID or by the Cooperating Government, shall at all times be in the name of the Cooperating Government or such public or private agency as the Cooperating Government may designate, unless title to specified types or classes of equipment is reserved to AID under provisions set forth in the Schedule of this grant; but all such property shall be under the custody and control of Grantee until the owner of title directs otherwise or completion of work under this grant or its termination, at which time custody and control shall be turned over to the owner of title or disposed of in accordance with its instructions. All performance guarantees and warranties obtained for suppliers shall be taken in the name of the title owner.

(b) The Grantee shall prepare and establish a program, to be approved by the Mission, for the receipt, use, maintenance, protection, custody and care of equipment, materials and supplies for which it has custodial responsibility, including the establishment of reasonable controls to enforce such program. The Grantee shall be guided by the requirements of paragraph 1T of Chapter 1, Handbook 13.

(c) Within 90 days after completion of this grant, or at such other date as may be fixed by the Grant Officer, the Grantee shall submit an inventory schedule covering all items of equipment, materials and supplies under his/her custody, title to which is in the Cooperating Government or public or private agency designated by the Cooperating Government, which have not been consumed in the performance of this grant. The Grantee shall also indicate what disposition has been made of such property.

16. VOLUNTARY PARTICIPATION

(This provision is applicable to all grants involving any aspect of family planning or population assistance activities, and all Title X grants in particular.)

(a) The Grantee agrees to take any steps necessary to ensure that funds made available under this grant will not be used to coerce any individual to practice methods of family planning inconsistent with such individual's moral, philosophical, or religious beliefs. Further, the Grantee agrees to conduct its activities in a manner which safeguards the rights, health and welfare of all individuals who take part in the program.

(b) The Grantee shall insert paragraphs (a) and (b) of this provision in all subgrants, subcontracts, purchase orders, and any other subordinate agreements hereunder.

17. PROHIBITION ON ABORTION-RELATED ACTIVITIES

(This provision is applicable to grants involving any aspect of family planning or population assistance activities, and all Title X grants in particular.)

(a) No funds made available under this grant will be used to finance, support, or be attributed to the following activities: (1) procurement or distribution of equipment intended to be used for the purpose of inducing abortions as a method of family planning; (2) special fees or incentives to women to coerce or motivate them to have abortions; (3) payments to persons to perform abortions or to solicit persons to undergo abortions; (4) information, education, train-

ing, or communication programs that seek to promote abortion as a method of family planning.

(b) The Grantee shall insert paragraphs (a) and (b) of this provision in all subgrants, subcontracts, purchase orders, and any other subordinate agreements hereunder.

18. VOLUNTARY PARTICIPATION REQUIREMENTS FOR STERILIZATION PROGRAMS

(This provision is applicable when any surgical sterilization will be supported in whole or in part from funds under this grant.)

(a) None of the funds made available under this grant shall be used to pay for the performance of involuntary sterilization as a method of family planning or to coerce or provide any financial incentive to any person to practice sterilization.

(b) The Grantee shall insure that any surgical sterilization procedures supported in whole or in part by funds from this grant are performed only after the individual has voluntarily presented himself or herself at the treatment facility and has given his or her informed consent to the sterilization procedure. Informed consent means the voluntary, knowing assent from the individual after he or she has been advised of the surgical procedures to be followed, the attendant discomforts and risks, the benefits to be expected, the availability of alternative methods of family planning, the purpose of the operation and its irreversibility, and his or her option to withdraw consent anytime prior to the operation. An individual's consent is considered voluntary if it is based upon the exercise of free choice and is not obtained by any special inducement or any element of force, fraud, deceit, duress or other forms of coercion or misrepresentation.

(c) Further, the Grantee shall document the patient's informed consent by (1) a written consent document in a language the patient understands and speaks, which explains the basic elements of informed consent, as set out above, and which is signed by the individual and by the attending physician or by the authorized assistant of the attending physician; or (2) when a patient is unable to read adequately a written certification by the attending physician or by the authorized assistant of the attending physician that the basic elements of informed consent above were orally presented to the patient, and that the patient thereafter consented to the performance of the operation. The receipt of the oral explanation shall be acknowledged by the patient's mark on the certification and by the signature or mark of a

witness who shall be of the same sex and speak the same language as the patient.

(d) Copies of informed consent forms and certification documents for each voluntary sterilization (VS) procedure must be retained by the Grantee for a period of three years after performance of the sterilization procedure.

(e) The Grantee shall insert paragraphs (a), (b), (c), (d) and (e) of this provision in all subgrants, subcontracts, purchase orders, and any other subordinate agreements hereunder involving the performance of any sterilization which will be supported in whole or in part from funds under this grant.

19. PUBLICATIONS

(This provision is applicable to any grant which produces any book, publication, or other copyrightable materials.)

(a) If it is the Grantee's intention to identify AID's contribution to any publication resulting from this grant, the Grantee shall consult with AID on the nature of the acknowledgement prior to publication.

(b) The Grantee shall provide the Project Manager with one copy of all published works developed under the grant. The Grantee shall provide the Project Manager with lists of other written work produced under the grant.

(c) In the event grant funds are used to underwrite the cost of publishing, in lieu of the publisher assuming this cost as is the normal practice, any profits or royalties up to the amount of such cost shall be credited to the grant.

(d) The Grantee is permitted to secure copyright to any publication produced or composed under the grant in accordance with paragraph 1T8.b. of Chapter 1, Handbook 13. Provided, the Grantee agrees to and does hereby grant to the Government a royalty-free, nonexclusive, and irrevocable license throughout the world to use, duplicate, disclose, or dispose of such publications in any manner and for any purpose and to permit others to do so.

20. PATENTS

(This provision is applicable to any grant which produces patentable items, patent rights, processes, or inventions.)

(a) Grantee agrees to notify the Grant Officer, in writing, of any invention or discovery conceived or first actually reduced to practice in the course of or under this grant. The Grant Officer will determine the patent rights to be afforded the Grantee in accordance with the Presidential Memorandum and Statement of Government Patent Policy (36 FR 16889) and paragraph 1T8.a. of Chapter 1, Handbook 13.

(b) Nothing contained in this provision shall imply a license to the Government under any patent or be construed as affecting the scope of any license or other right otherwise granted to the Government under any patent.

21. REGULATIONS GOVERNING EMPLOYEES OUTSIDE THE UNITED STATES

(This provision applies only to the Grantee's employees working outside their country of residence.)

(a) The Grantee's employees, when employed in work overseas, shall maintain private status and may not rely on local U.S. Government Offices or facilities for support while so engaged.

(b) The sale of personal property or automobiles by Grantee employees and their dependents in the foreign country to which they are assigned shall be subject to the same limitations and prohibitions which apply to direct-hire AID personnel employed by the Mission, except as this may conflict with host government regulations.

(c) Other than work to be performed under this grant for which an employee or consultant is assigned by the Grantee, no regular or short term employee or consultant of the Grantee shall engage directly or indirectly, either in his/her own name or in the name or through an agency of another person, in any business, profession, or occupation in the foreign countries to which he/she is assigned, nor shall he/she make loans or investments to or in any business, profession or occupation in the foreign countries to which he/she is assigned.

(d) The Grantee's employees, while in a foreign country, are expected to show respect for its conventions, customs, and institutions, to abide by its applicable laws and regulations, and not to interfere in its internal political affairs.

(e) In the event the conduct of any Grantee employee is not in accordance with the preceding paragraphs, the Grantee's chief of party shall consult with the Mission Director and the employee involved and shall recommend to the Grantee a course of action with regard to such employee.

(f) The parties recognize the right of the U.S. Ambassador to direct the removal from a country of any U.S. citizen or the discharge from this grant of any third country national when, in the discretion of the Ambassador, the interests of the United States so require.

(g) If it is determined, under either (e) or (f) above, that the services of such employee shall be terminated, the Grantee shall use its best efforts to

cause the return of such employee to the United States, or point of origin, as appropriate.

22. SUBORDINATE AGREEMENTS

(a) The placement of subordinate agreements (i.e., grants or contracts) with other organizations, firms or institutions, and the provisions of such subordinate agreements are subject to prior written consent of the Grant Officer unless such subordinate agreements were identified in the approved Financial Plan, in accordance with paragraph (b)(7) of the Standard Provision of this grant entitled "Revision of Financial Plans."

(b) The use of the Standard Provisions of this grant is mandatory for subgrants to U.S. institutions. For subgrants to foreign institutions the Grantee shall use the Standard Provisions set forth in Appendix 4D of Handbook 13.

(c) Contracts awarded with funds provided by this grant shall be undertaken in accordance with the requirements of the Standard Provision of this grant entitled "Procurement of Goods and Services over \$250,000" or "Procurement of Goods and Services under \$250,000" (whichever is applicable), and paragraph 1U3 of Handbook 13. Contracts awarded with funds provided by this grant to U.S. organizations shall set forth the provisions of paragraph 1U4 of Handbook 13. Paragraph 1U4 does not apply to foreign organizations.

23. PARTICIPANT TRAINING

(This provision is applicable if AID funds provided hereunder will be used to finance participant training.)

(a) Definitions

(1) Participant training is the training of any foreign national outside of his or her home country, using AID funds.

(2) A participant is any foreign national being trained under this grant outside of his or her home country.

(b) Applicable regulations

Participant training is to be conducted according to the policies established in AID Handbook 10—Participant Training, except to the extent that specific exceptions to AID Handbook 10 have been provided in this grant (Handbook 10 may be obtained by submitting a request to the Office of International Training, at the address specified in paragraph (c) below.)

(c) Reporting requirement

Once each month the Grantee shall submit three copies of form AID 1380-9, "Monthly Report of

Participants Under Grant, Loan or Contract Programs", to the Office of International Training, Bureau for Science and Technology (S&T/IT), AID/Washington, D.C. 20523.

24. HEALTH AND ACCIDENT COVERAGE FOR AID PARTICIPANT TRAINEES

(This provision is applicable if AID funds provided hereunder will be used to finance the training of non-U.S. participants in the United States.)

(a) The Grantee shall enroll all non-U.S. participants (hereinafter referred to as "participants"), whose training in the United States is financed by AID under this grant, in the Agency for International Development's Health and Accident Coverage (HAC) program.

(b) The Grantee shall, prior to the initiation of travel by each participant financed by AID under this grant, fill out and mail to AID a self-addressed, postage prepaid, HAC Program Participant Enrollment Card (form AID 1380-98). The Grantee can obtain a supply of these cards and instructions for completing them from the Office of International Training, AID/Washington, D.C. 20523.

(c) The Grantee shall assure that enrollment shall begin immediately upon the participant's departure for the United States for the purpose of participating in a training program financed by AID and that enrollment shall continue in full force and effect until the participant returns to his/her country of origin, or is released from AID's responsibility, whichever is the sooner. The Grantee shall continue enrollment coverage for participants whose departure is delayed due to medical or other compelling reasons, with the written concurrence of the AID Project Manager and subject to the requirements of paragraph (d).

(d) The Grantee shall submit the HAC Program Participant Enrollment Card to AID, as specified in paragraph (b), above, to enable the participant(s), or the provider of medical services, to submit bills for medical costs resulting from illness and accident to the HAC Administrator, Trust Fund Administrators, Inc., 1030 15th Street, NW, Suite 500, Washington, D.C. 20005. The HAC Administrator, not the Grantee, shall be responsible for paying all reasonable and necessary medical charges, not otherwise covered by student health service or other insurance programs (see paragraphs (e) and (f)), subject to the availability of funds for such purposes, in accordance with the standards of coverage established by AID under the HAC program, and subject to the payment of the fee specified in paragraph (d)(1), below.

(1) Within thirty (30) days after enrollment, the Grantee shall send an enrollment fee computed on the basis of the fixed rate per participant per month* (the minimum period for calculation of fee is one month—that is, one participant month, 30 days, not one calendar month—premiums may not be prorated for fractional periods of less than 30 days), to: Agency for International Development, Office of Financial Management, Program Accounting Division; Nonproject Assistance, Washington, D.C. 20523.

The enrollment fee should cover a minimum period of up to one year or the current training period for which funds are obligated under this grant, whichever is less. As applicable, payments for additional periods of enrollment shall be made 30 days prior to the beginning of each new enrollment period or new period of funding of this grant (the monthly enrollment fee for succeeding fiscal years may be obtained by calling the AID Office of International Training). All such fee payments shall be made by check, payable to the "Agency for International Development (HAC)." If payments are not made within 30 days, a late payment charge shall apply at a percentage rate based on the current value of funds to the Treasury for each 30-day period; the full charge shall also be applicable to periods of less than 30 days. The percentage rate will be calculated by the Treasury as an average of the current value of funds to the Treasury for a recent three-month period and will be transmitted to AID in TFRM Bulletins.

The late payment charge shall be applied to any portion of the fees in arrears and be remitted together with the fees as a separately identified item on the covering memorandum.

(2) Whenever possible, fee payments for groups of several participants entering the HAC Program within the 30-day reporting period shall be consolidated and covered by a single check. Participants covered by the fee payment shall be listed individually in the covering letter, identifying each participant (the name reported must be identical to that on the HAC enrollment card), showing period of enrollment (or period of coverage for which payment is remitted if this is different from the enrollment period), fee amount paid, grant number, and U.S. Government appropriation number (as shown under the "Fiscal Data" section of the grant cover letter).

(e) The Grantee, to the extent that it is an educational institution with a student health service program, shall also enroll all participants in their institu-

*The rate is \$25.00 per participant-month for Fiscal Year 1982.

tion's student health service program. Medical costs which are covered under the institution's student health service shall not be eligible for payment under AID's HAC program. The Grantee shall provide the HAC Administrator with a copy of information showing what medical costs are covered by the institution's student health service program; medical costs that are not covered by the institution's student health service program shall be submitted to the HAC Administrator.

(f) If the Grantee has a mandatory, nonwaivable health and accident insurance program for students, the costs of such insurance will be allowable under this grant. Any claims eligible under such insurance will not be payable under AID's HAC plan or under this grant. Even though the participant is covered by the Grantee's mandatory, nonwaivable health and accident insurance program, the participant MUST be enrolled in AID's more comprehensive HAC program, and HAC payments MUST be made to AID as provided above. In addition, a copy of the mandatory insurance policy must be forwarded to the HAC Administrator.

(g) Any payments for medical costs not covered by the Grantee's student health service program, or mandatory, nonwaivable health and accident insurance program, or AID's HAC program shall be reimbursable under this grant only with specific written approval of the Grant Officer and subject to the availability of funds.

(h) The HAC Administrator, for the period February 1, 1980 through January 31, 1983, is:

Trust Fund Administrators, Inc.
1030 15th Street, NW, Suite 500
Washington, D.C. 20005.

25. U.S. OFFICIALS NOT TO BENEFIT

No member of or delegate to the U.S. Congress or resident U.S. Commissioner shall be admitted to any share or part of this grant or to any benefit that may arise therefrom; but this provision shall not be construed to extend to this grant if made with a corporation for its general benefit.

26. COVENANT AGAINST CONTINGENT FEES

FOOTNOTES:

1. Standard Provisions 1 through 6 are required and may not be omitted from any grant or cooperative agreement.
2. Standard Provisions 7 through 24 are required to be used *when applicable* and may not be omitted from any grant or cooperative agreement, *if they are applicable*.
3. Standard Provisions 25 through 30 are suggested, but not required, for any grant or cooperative agreement.
4. The omission of any "required" clause, referred to in 1. and 2. above, requires a deviation in accordance with paragraph 1E of Chapter 1 of Handbook 13.

The Grantee warrants that no person or selling agency has been employed or retained to solicit or secure this grant upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee except bona fide employees or bona fide established commercial or selling agencies maintained by the Grantee for the purpose of securing business. For breach or violation of this warranty, AID shall have the right to cancel this grant without liability or, in its discretion, to deduct from the grant amount, or otherwise recover, the full amount of each commission, percentage, brokerage, or contingent fee.

27. NONLIABILITY

AID does not assume liability with respect to any third party claims for damages arising out of work supported by this Grant.

28. AMENDMENT

The grant may be amended by formal modifications to the basic grant document or by means of an exchange of letters between the Grant Officer and an appropriate official of the Grantee.

29. THE GRANT

The letter to the Grantee signed by the Grant Officer, the Schedule, the Program Description and the Standard Provisions which have been reviewed and agreed to by the Grantee, constitute the grant.

30. NOTICES

Any notice given by any of the parties hereunder, shall be sufficient only if in writing and delivered in person or sent by telegraph, cable, registered or regular mail as follows:

To the AID Grant Officer, at the address specified in the grant.

To Grantee, at Grantee's address shown in the grant.

or to such other address as either of such parties shall designate by notice given as herein required. Notices hereunder shall be effective when delivered in accordance with this provision, or on the effective date of the notice, whichever is later.

5. When these Standard Provisions are used for Cooperative Agreements, the following terms apply:

"Grantee" means "Recipient,"

"Grant" means "Cooperative Agreement,"

"AID Grant Officer" means "AID Agreement Officer,"

"Subgrant" means "Subcooperative Agreement," and

"Subgrantee" means "Subrecipient."

ALTERATIONS IN GRANT

The following alterations have been made in the provisions of this grant:

1. Change the title of Standard Provision 15*, dated "2-82, to read:

"TERMINATION AND SUSPENSION".

2. Insert a new paragraph "(d)" in Standard Provision 15* as follows:

(d) Suspension: Termination for Changed Circumstances. If at any time AID determines (1) that disbursement by AID would be in violation of applicable law, or (2) that continuation of funding for a program should be suspended or terminated because such assistance is not in the national interest of the United States, then AID may, following notice to the Grantee, suspend this Grant and prohibit the Grantee from incurring additional obligations chargeable to this Grant other than necessary and proper costs in accordance with the terms of this Grant during the period of suspension. If the situation causing the suspension continues to pertain for 60 days or more, then AID may terminate this Grant on written notice to the Grantee and cancel that portion of this Grant which has not been disbursed or irrevocably committed to third parties. Financial settlement of this Grant shall be governed by the termination procedures specified in paragraph (c) above.

3. Delete the applicability statement in Standard Provision 16, Voluntary Participation, and substitute the following therefor:

"(This provision is applicable to all grants involving any aspect of family planning or population assistance activities.)"

4. Delete the applicability statement in Standard Provision 17, Prohibition on Abortion-Related Activities, and substitute the following therefor:

*This is Standard Provision 5 for AID Forms 1420-53, and -54

"(This provision is applicable to all grants involving any aspect of family planning or population activities.)".

5. Add the following to the last line of paragraph (a) of Standard Provision 17: "; (5) lobbying for abortion."

6. Delete paragraph (b) of Standard Provision 17 and substitute the following therefor:

" (b) No funds made available under this Grant will be used to pay for any biomedical research which relates, in whole or in part, to methods of, or the performance of, abortions or involuntary sterilizations as a means of family planning. Epidemiologic or descriptive research to assess the incidence, extent or consequences of abortion is not precluded.

(c) The Grantee shall insert paragraphs (a), (b), and (c) of this provision in all subgrants, subcontracts, purchase orders, and any other subordinate agreements hereunder."

7. *Delete Paragraph (c) of Standard Provision 10A entitled "Procurement of Goods and Services Under \$250,000" and substitute the following therefore:

"(c). Geographic Source and Order of Preference

All goods (e.g., equipment, materials, and supplies) and services, the costs of which are to be reimbursed under this grant, and which will be financed with United States dollars, shall be purchased in and shipped from only "Special Free World" countries (i.e., AID Geographic Code 935) in accordance with the following order of preference:

- (1) the United States (AID Geographic Code 000),
- (2) the cooperating country,
- (3) "Selected Free World" countries (AID Geographic Code 941),
- (4) "Special Free World" countries (AID Geographic Code 935)."

8. **Delete Paragraph (d) of Standard Provision 10B entitled "Procurement of Goods and Services Over \$250,000," and substitute the following therefore:

*This is Standard Provision 12A for AID Forms 1420-53 and -54.

**This is Standard Provision 12B for AID Forms 1420-53 and -54

(A) The corporation or partnership is more than 50% beneficially owned by individuals who are citizens of a country or area included in the authorized geographic code. In the case of corporations, "more than 50% beneficially owned" means that more than 50% of each class of stock is owned by such individuals; in the case of partnerships, "more than 50% beneficially owned" means that more than 50% of each category of partnership interest (e.g., general, limited) is owned by such individuals. (With respect to stock or interest held by companies, funds or institutions, the ultimate beneficial ownership by individuals is controlling.)

(B) The corporation or partnership:

(1) has been incorporated or legally organized in the United States for more than 3 years prior to the issuance date of the invitation for bids or request for proposals, and

(2) has performed within the United States similar administrative and technical, professional, or construction services under a contract or contracts for services and derived revenue therefrom in each of the 3 years prior to the issuance date of the invitation for bids or request for proposals, and

(3) employs United States citizens in more than half its permanent full-time positions in the United States, and

(4) has the existing capability in the United States to perform the contract.

(iii) The supplier is a joint venture or unincorporated association consisting entirely of individuals, corporations, partnerships, or nonprofit organizations which are eligible under paragraphs (d)(2)(i), (d)(2)(ii), or (d)(3) of this provision.

(iv) A duly authorized officer of a firm or nonprofit organization shall certify that the participating firm or nonprofit organization meets either the requirements of paragraphs (d)(2)(ii)(A), (d)(2)(ii)(B), or (d)(3) of this clause. In the case of corporations, the certifying officer shall be the corporate secretary. With respect to the requirements of paragraph (d)(2)(ii)(A), the certifying officer may presume citizenship on the basis of the stockholder's record address, provided the certifying officer certifies, regarding any stockholder (including any corporate fund or institutional stockholder) whose holdings are material to the corporation's eligibility, that the certifying officer knows of no fact which might rebut that presumption.

"(d) Nationality. Except as specified in paragraph (c) of this provision, in order to be eligible for AID financing under this grant, suppliers, contractors, or subcontractors must fit one of the following categories:

(1) Suppliers of commodities. A supplier providing goods under this grant must fit one of the following categories for the costs of such goods to be eligible for AID financing:

(i) An individual who is a citizen or, except as provided in paragraph (d)(7) of this clause, a legal resident of a country or area included in the authorized geographic code;

(ii) A corporation or partnership organized under the laws of a country or area included in the authorized geographic code;

(iii) A controlled foreign corporation, i.e., any foreign corporation of which more than 50 percent of the total combined voting power of all classes of stock is owned by United States shareholders within the meaning of Section 957 et seq. of the Internal Revenue Code, 26 U.S.C. 957; or

(iv) A joint venture or unincorporated association consisting entirely of individuals, corporations, or partnerships which are eligible under any of the foregoing categories.

(2) Privately owned commercial suppliers of services. An individual or a privately owned commercial firm is eligible for financing by AID under this grant as a contractor providing services only if the criteria in paragraphs (d)(2)(i), (ii), or (iii) of this provision are met and, in the case of the categories described in paragraphs (d)(2)(ii) and (iii), the certification requirements in paragraph (d)(2)(iv) are met.

(i) The supplier is an individual who is a citizen of and whose principal place of business is in a country or area included in the authorized geographic code or a non-U.S. citizen lawfully admitted for permanent residence in the United States whose principal place of business is in the United States;

(ii) The supplier is a privately owned commercial (i.e., for profit) corporation or partnership that is incorporated or legally organized under the laws of a country or area included in the authorized geographic code, has its principal place of business in a country or area included in the authorized geographic code, and meets the criteria set forth in either subparagraph (A) or (B) below:

(3) Nonprofit organizations. Nonprofit organizations, such as educational institutions, foundations, and associations, are eligible for financing by AID under this grant as contractors for services if they meet all of the criteria listed in paragraphs (d)(3)(i), (ii), and (iii) below, and the certification requirement in paragraph (d)(2)(iv) of this clause is met. (International agricultural research centers and such other international research centers as may be, from time to time, formally listed as such by the Senior Assistant Administrator, Bureau for Science and Technology, are considered to be of U.S. nationality for purposes of this provision.) Any such organizations must:

(i) Be organized under the laws of a country or area included in the authorized geographic code; and

(ii) Be controlled and managed by a governing body, a majority of whose members are citizens of countries or areas included in the authorized geographic code; and

(iii) Have its principal facilities and offices in a country or area included in the authorized geographic code.

(4) Government-owned organizations. Except as may be specifically approved in advance by the Grant Officer firms operated as commercial companies or other organizations (including nonprofit organizations other than public educational institutions) which are wholly or partially owned by governments or agencies thereof are not eligible for financing by AID under this grant as contractors.

(5) Joint ventures. A joint venture or unincorporated association is eligible only if each of its members is eligible in accordance with paragraphs (d)(2), (3), or (4) of this clause.

(6) Construction services from local firms. When the host country is an authorized source for services, and the estimated cost of the construction services is \$5 million or less, a corporation or partnership may be determined by AID to be an integral part of the local economy in accordance with AID Handbook 1B, Chapter 5, Paragraph 5D5, is eligible.

(7) Ineligible suppliers. Citizens of any country or area, and firms and organizations located in or organized under the laws of any country or area, which is not included in Geographic Code 935 are ineligible for financing by AID as suppliers of services or of commodities; or as agents acting in connection with the supply of services or of commodities, except that non-U.S. citizens lawfully admitted for permanent residence in the United States are eligible regardless of such citizenship.

(8) Special restrictions on procurement of construction or engineering services. Section 604(g) of the Foreign Assistance Act provides that AID funds may not be used for "procurement of construction or engineering services from advanced developing countries, eligible under the Geographic Code 941, which have attained a competitive capability in international markets for construction services or engineering services." In order to insure eligibility of a Code 941 contractor for construction or engineering services, obtain the AID Grant Officer's approval for any such contract."

"(d) Nationality. Except as specified in paragraph (c) of this provision, in order to be eligible for AID financing under this grant, suppliers, contractors, or subcontractors must fit one of the following categories:

(1) Suppliers of commodities. A supplier providing goods under this grant must fit one of the following categories for the costs of such goods to be eligible for AID financing:

(i) An individual who is a citizen or, except as provided in paragraph (d)(7) of this clause, a legal resident of a country or area included in the authorized geographic code;

(ii) A corporation or partnership organized under the laws of a country or area included in the authorized geographic code;

(iii) A controlled foreign corporation, i.e., any foreign corporation of which more than 50 percent of the total combined voting power of all classes of stock is owned by United States shareholders within the meaning of Section 957 et seq. of the Internal Revenue Code, 26 U.S.C. 957; or

(iv) A joint venture or unincorporated association consisting entirely of individuals, corporations, or partnerships which are eligible under any of the foregoing categories.

(2) Privately owned commercial suppliers of services. An individual or a privately owned commercial firm is eligible for financing by AID under this grant as a contractor providing services only if the criteria in paragraphs (d)(2)(i), (ii), or (iii) of this provision are met and, in the case of the categories described in paragraphs (d)(2)(ii) and (iii), the certification requirements in paragraph (d)(2)(iv) are met.

(i) The supplier is an individual who is a citizen of and whose principal place of business is in a country or area included in the authorized geographic code or a non-U.S. citizen lawfully admitted for permanent residence in the United States whose principal place of business is in the United States;

(ii) The supplier is a privately owned commercial (i.e., for profit) corporation or partnership that is incorporated or legally organized under the laws of a country or area included in the authorized geographic code, has its principal place of business in a country or area included in the authorized geographic code, and meets the criteria set forth in either subparagraph (A) or (B) below:

Grant Standard Provision No. _____

PATENT RIGHTS (Small Business Firms and
Nonprofit Organizations) (March 1982)
(OMB Circular A-124)

a. Definitions

(1) "Invention" means any invention or discovery which is or may be patentable or otherwise protectable under Title 35 of the United States Code.

(2) "Subject Invention" means any invention of the grantee conceived or first actually reduced to practice in the performance of work under this grant.

(3) "Practical Application" means to manufacture in the case of a composition or product, to practice in the case of a process or method, or to operate in the case of a machine or system; and, in each case, under such conditions as to establish that the invention is being utilized and that its benefits are, to the extent permitted by law or Government regulations, available to the public on reasonable terms.

(4) "Made" when used in relation to any invention means the conception or first actual reduction to practice of such invention.

(5) "Small Business Firm" means a small business concern as defined at Section 2 of Public Law 85-536 (15 U.S.C. 632) and implementing regulations of the Administrator of the Small Business Administration. For the purpose of this provision, the size standards for small business concerns involved in Government procurement and subcontracting at 13 CFR 121.3-8 and 13 CFR 121.3-12, respectively, will be used.

(6) "Nonprofit Organization" means a university or other institution of higher education or an organization of the type described in Section 501(c)(3) of the Internal Revenue Code of 1954 (26 USC 501(c)) and exempt from taxation under Section 501(a) of the Internal Revenue Code (26 USC 501(a)) or any nonprofit scientific or education organization qualified under a state nonprofit organization statute.

b. Allocation of Principal Rights

The grantee may retain the entire right, title, and interest throughout the world to each subject invention subject to the provisions of this provision and 35 U.S.C. 203. With respect to any subject invention in which the grantee retains title, the Federal Government shall have a non-exclusive, non-transferable, irrevocable, paid-up license to practice or

have practiced for or on behalf of the United States the subject invention throughout the world. This license will include the right of the Agency for International Development (AID), with respect to any existing or future international agreement entered into under the Foreign Assistance Act of 1961, as amended, to sublicense any foreign government or public international organization in accordance with the terms of any such international agreement.

c. Invention Disclosure, Election of Title and Filing of Patent Applications by Grantee

(1) The grantee will disclose each subject invention to AID within two months after the inventor discloses it in writing to grantee personnel responsible for patent matters. The disclosure to AID shall be in the form of a written report and shall identify the grant under which the invention was made and the inventor(s). It shall be sufficiently complete in technical detail to convey a clear understanding, to the extent known at the time of the disclosure, of the nature, purpose, operations, and the physical, chemical, biological or electrical characteristics of the invention. The disclosure shall also identify any publication, on sale or public use of the invention and whether a manuscript describing the invention has been submitted for publication and, if so, whether it has been accepted for publication at the time of disclosure. In addition, after disclosure to AID, the grantee will promptly notify AID of the acceptance of any manuscript describing the invention for publication or of any on sale or public use planned by the grantee.

(2) The grantee will elect in writing whether or not to retain title to any such invention by notifying AID within twelve months of disclosure to the grantee; provided that in any case where publication, on sale or public use has initiated the one year statutory period wherein valid patent protection can still be obtained in the United States, the period for election of title may be shortened by AID to a date that is no more than 60 days prior to the end of the statutory period.

(3) The grantee will file its initial patent application on an elected invention within two years after election or, if earlier, prior to the end of any statutory period wherein valid patent protection can be obtained in the United States after a publication, on sale, or public use. The grantee will file patent applications in additional countries within either ten months of the corresponding initial patent application or six months from the date permission is granted by the Commissioner of Patents and Trademarks to file foreign patent applications where such filing has been prohibited by a Secrecy Order.

(4) Requests for extension of the time for disclosure to AID, election, and filing may, at the discretion of AID, be granted.

d. Conditions When the Government May Obtain Title

(1) The grantee will convey to AID, upon written request, title to any subject invention:

(i) If the grantee fails to disclose or elect the subject invention within the times specified in paragraph c. of this provision, or elects not to retain title.

(ii) In those countries in which the grantee fails to file patent applications within the times specified in paragraph c. of this provision; provided, however, that if the grantee has filed a patent application in a country after the times specified in c. of this provision, but prior to its receipt of the written request of AID, the grantee shall continue to retain title in that country.

(iii) In any country in which the grantee decides not to continue the prosecution of any application for, to pay the maintenance fees on, or defend in reexamination or opposition proceeding on, a patent on a subject invention.

e. Minimum Rights to Grantee

(1) The grantee will retain a nonexclusive, royalty-free license throughout the world in each subject invention to which the Government obtains title except if the grantee fails to disclose the subject invention within the times specified in paragraph c. of this provision. The grantee's license extends to its domestic subsidiaries and affiliates, if any, within the corporate structure of which the grantee is a party and includes the right to grant sublicenses of the same scope to the extent the grantee was legally obligated to do so at the time the grant was awarded. The license is transferable only with the approval of AID except when transferred to the successor of that party of the grantee's business to which the invention pertains.

(2) The grantee's domestic license may be revoked or modified by AID to the extent necessary to achieve expeditious practical application of the subject invention pursuant to an application for an exclusive license submitted in accordance with applicable provisions in the Federal Property Management Regulations. This license will not be revoked in that field of use or the geographical areas in which the grantee has achieved practical application and continues to make the benefits of the invention reasonably accessible to the public. The license in any foreign country may be revoked or modified at the discretion of AID to the extent the grantee, its licensees, or its domestic subsidiaries or affiliates have failed to achieve practical application in that foreign country.

(3) Before revocation or modification of the license, AID will furnish the grantee a written notice of its intention to revoke or modify the license, and the grantee will be allowed thirty days (or such other time as may be authorized by AID for good cause shown by the grantee) after the notice to show cause why the license should not be revoked or modified. The grantee has the right to appeal, in accordance with applicable regulations in the Federal Property Management Regulations concerning the licensing of Government-owned inventions, any decision concerning the revocation or modification of its license.

f. Grantee Action to Protect the Government's Interest

(1) The grantee agrees to execute or to have executed and promptly deliver to AID all instruments necessary to (i) establish or confirm the rights the Government has throughout the world in those subject inventions to which the grantee elects to retain title, and (ii) convey title to AID when requested under paragraph d. of this provision, and to enable the Government to obtain patent protection throughout the world in that subject invention.

(2) The grantee agrees to require, by written agreement, its employees, other than clerical and non-technical employees, to disclose promptly in writing to personnel identified as responsible for the administration of patent matters and in a format suggested by the grantee each subject invention made under grant in order that the grantee can comply with the disclosure provisions of paragraph c. of this provision, and to execute all papers necessary to file patent applications on subject inventions and to establish the Government's rights in the subject inventions. This disclosure format should require, as a minimum, the information required by c.(1) of this provision. The grantee shall instruct such employees through employee agreements or other suitable educational programs on the importance of reporting inventions in sufficient time to permit the filing of patent applications prior to U.S. or foreign statutory bars.

(3) The grantee will notify AID of any decision not to continue the prosecution of a patent application, pay maintenance fees, or defend in a reexamination or opposition proceeding on a patent, in any country, not less than thirty days before the expiration of the response period required by the relevant patent office.

(4) The grantee agrees to include, within the specification of any United States patent application and any patent issuing thereon covering a subject invention, the following statement, "This invention was made with Government support under (identify the grant) awarded by AID. The Government has certain rights in this invention."

g. Subcontracts and Subgrants

(1) The grantee will include this provision suitably modified to identify the parties, in all subcontracts and subgrants, regardless of tier, for experimental developmental or research work to be performed by a small business firm or nonprofit organization. The subcontractor or subgrantee will retain all rights provided for the grantee in this provision, and the grantee will not, as part of the consideration for awarding the subcontract or subgrant, obtain rights in the subcontractor's or subgrantee's subject inventions.

(2) With respect to any subcontract or subgrant with a profit making organization, regardless of tier, the clause specified in Sec. 1-9.1 of the Federal Procurement Regulations (41 CFR 1-9.1) shall be used for such subcontracts, and the provision specified in Appendix 4C, provision 28, Patents, of AID Handbook 13 shall be used for such subgrants. With respect to any subcontract or subgrant with any small business firm or nonprofit organization, regardless of tier, this provision's requirements shall apply.

(3) In the case of subcontracts or subgrants, at any tier, when the prime award with AID was a grant (but not a contract), AID, subcontractor or subgrantee, and the grantee agree that the mutual obligations of the parties created by this provision constitute a contract between the subcontractor or subgrantee and AID with respect to those matters covered by this provision.

h. Reporting on Utilization of Subject Inventions

The grantee agrees to submit on request periodic reports no more frequently than annually on the utilization of a subject invention or on efforts at obtaining such utilization that are being made by the grantee or its licensees or assignees. Such reports shall include information regarding the status of development, date of first commercial sale or use, gross royalties received by the grantee, and such other data and information as AID may reasonably specify. The grantee also agrees to provide additional reports as may be requested by AID in connection with any march-in proceeding undertaken by AID in accordance with paragraph j. of this provision. To the extent data or information supplied under this section is considered by the grantee, its licensee or assignee to be privileged and confidential and is so marked, AID agrees that, to the extent permitted by 35 USC 202(c)(5), it will not disclose such information to persons outside the Government.

i. Preference for United States Industry

Notwithstanding any other provision of this provision, the grantee agrees that neither it nor any assignee will grant to any person the exclusive right to use or sell any subject

invention in the United States unless such person agrees that any products embodying the subject invention or produced through the use of the subject invention will be manufactured substantially in the United States. However, in individual cases, the requirement for such an agreement may be waived by AID upon a showing by the grantee or its assignee that reasonable but unsuccessful efforts have been made to grant licenses on similar terms to potential licensees that would be likely to manufacture substantially in the United States or that under the circumstances domestic manufacture is not commercially feasible.

J. March-in Rights

The grantee agrees that with respect to any subject invention in which it has acquired title, AID has the right in accordance with the procedures in OMB Circular A-124 and Appendix 4C, provision 28, Patents, Handbook 13 to require the grantee, an assignee or exclusive licensee of a subject invention to grant a non-exclusive, partially exclusive, or exclusive license in any field of use to a responsible applicant or applicants, upon terms that are reasonable under the circumstances, and if the grantee assignee, or exclusive licensee refuses such a request, AID has the right to grant such a license itself if AID determines that:

(1) Such action is necessary because the grantee or assignee has not taken, or is not expected to take within a reasonable time, effective steps to achieve practical application of the subject invention in such field of use.

(2) Such action is necessary to alleviate health or safety needs which are not reasonably satisfied by the grantee, assignee, or their licensees;

(3) Such action is necessary to meet requirements for public use specified by Federal regulations and such requirements are not reasonably satisfied by the grantee, assignees, or licensees; or

(4) Such action is necessary because the agreement required by paragraph i of this provision has not been obtained or waived or because a licensee of the exclusive right to use or sell any subject invention in the United States is in breach of such agreement.

k. Special Provisions for Grants with Non-profit Organizations

If the grantee is a non-profit organization, it agrees that:

(1) Rights to a subject invention in the United States may not be assigned without the approval of AID, except where such assignment is made to an organization which has as one of its primary functions the management of inventions and which is not, itself, engaged in or does not hold a substantial interest in other organizations engaged in the manufacture or sale of products or the use of processes that might utilize the invention or be in competition with embodiments of the invention provided that such assignee will be subject to the same provisions as the grantee;

(2) The grantee may not grant exclusive licenses under United States patents or patent applications in subject inventions to persons other than small business firms for a period in excess of the earlier of:

(i) five years from first commercial sale or use of the invention; or

(ii) eight years from the date of the exclusive license excepting that time before regulatory agencies necessary to obtain premarket clearance, unless on a case-by-case basis, AID approves a longer exclusive license. If exclusive field of use licenses are granted, commercial sale or use in one field of use will not be deemed commercial sale or use as to other fields of use, and a first commercial sale or use with respect to a product of the invention will not be deemed to end the exclusive period to different subsequent products covered by the invention.

(3) The grantee will share royalties collected on subject invention with the inventor; and

(4) The balance of any royalties or income earned by the grantee with respect to subject inventions, after payment of expenses (including payments to inventors) incidental to the administration of subject inventions, will be utilized for the support of scientific research or education.

1. Communications

Communications concerning this provision shall be addressed to the AID Grant Officer at the address shown on the face of this grant.