

PD-ABB-035

Best available copy -- appendix A missing

PD-ARB-035

60-27

Contract No. AID/1a-158
(Brazil)

CONTRACT BETWEEN
THE UNITED STATES OF AMERICA
and
THE UNIVERSITY OF HOUSTON

CERTIFIED A TRUE COPY

BY B. C. Lewis
Bertha C. Lewis
this 22nd day of
June 1964

PIO/T 512-N-66-AO-3-30258
PIO/T 512-11-660-001-3-40071

Return to JAI/BR

THIS CONTRACT is made and entered into between the Government of the United States of America, as represented by the Agency for International Development (hereinafter called "A.I.D."), and the University of Houston (hereinafter called the "Contractor"), an educational institution with its principal office located at Houston, Texas.

WHEREAS, A.I.D. has undertaken by agreement with the Government of Brazil (hereinafter called the "Cooperating Government") to provide certain assistance, and the Cooperating Government has requested A.I.D. to provide certain technical advice and assistance in engineering education within Brazil (hereinafter called the "Cooperating Country"); and

WHEREAS, in furtherance of the purposes of its agreement with the Cooperating Government, A.I.D. desires to secure the work and services set forth in this contract, and the Contractor represents that it is qualified to perform such work and services, and is willing to undertake the same on a cost basis;

NOW, THEREFORE, the parties hereto agree as follows:

I. OPERATIONAL PLAN

A. The Contractor agrees to render technical advice, assistance, and guidance to the Cooperating Government through the establishment of an inter-relationship with the Instituto de Quimica of the Universidade do Brasil (hereinafter referred to as "IQUB") for the purpose of developing, improving, and strengthening its higher educational processes, practices and operations as more specifically provided for in Appendix B, "Operational Plan" attached hereto and made a part hereof.

B. Contractor will develop in consultation with US AID, as soon as practicable, but not later than September 1, 1964, a detailed work program covering the first year of operations under the expanded contract. The work schedule will be subject to review from time to time as considered necessary by US AID or the Contractor.

C. Not less than sixty (60) days prior to the end of the first year of operations and of each subsequent year of operation hereunder, the Contractor shall provide US AID and IQUB a work program for the ensuing year of operation.

II. CONDITIONS GOVERNING OPERATIONS

A. It is understood that the services provided in the Cooperating Country by the Contractor are an integral part of the United States Technical Cooperation Program, and shall be performed under the general policy guidance of the Director of US AID; the Contractor shall be responsible for all administrative, professional and technical details of the work under this Contract and shall keep the US AID Director currently informed of the progress of the work under this Contract.

B. Activities under this contract shall be governed by the "Standard Provisions" set forth in Appendix A, the "Approved Budget" and special provisions set forth in Appendix C, and the "Special Provisions" set forth in Appendix D, all of which are attached hereto and made a part hereof.

III. FINANCING

The Contractor shall be reimbursed for the costs incurred by it in performing services hereunder in accordance with the applicable provisions of Appendix A and Appendix D, subject to the following limitations made in respect thereto:

- ✓ A. Total A.I.D. commitment subject to limitations expressed in Appendix C \$137,000
- B. Advance of Funds \$ 35,000

IV. TERM

This Contract shall become effective on June 1, 1964 and shall continue in effect until May 31, 1966, hereinafter referred to as the expiration date, unless previously terminated in accordance with the provisions set forth in Appendix A.

IN WITNESS WHEREOF, the parties hereto have signed this contract on the dates shown below.

THE UNIVERSITY OF HOUSTON
BY *R. S. Thomas*
TITLE CONTROLLER
DATE 5-11-64

AGENCY FOR INTERNATIONAL DEVELOPMENT
BY *J. C. Watkins*
J. C. Watkins
Contracting Officer
Bureau for Latin America
DATE MAY 20 1964

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CONTRACT BETWEEN THE UNITED STATES OF AMERICA AND
THE UNIVERSITY OF HOUSTON

APPENDIX B - OPERATIONAL PLAN

A. Objectives

The Contractor in cooperation with officials of the Ministry of Education (hereinafter referred to as the Ministry) of the Government of Brazil and US AID, shall provide technical advice, guidance, and assistance through the establishment of an inter-relationship with the University of Brazil in assisting IQUB to improve its graduate educational programs leading to the Master of Science and Doctor of Science degrees in the fields of chemical and mechanical engineering and to strengthen and improve its research programs, facilities, and administrative practices.

B. Scope of Work

The specific objectives of this contract are:

1. Provide technical advice, guidance, and assistance in appropriate areas in such professional fields as chemical engineering, mechanical engineering, computing and mathematics and physics as applied to the teaching of graduate courses in engineering.
2. Assist IQUB in matters of overall organization, administration, policy, and coordination of programs in the several faculties necessary to the establishment of a modern center of graduate study.
3. Teach specific courses in the several disciplines and professions including the preparation of appropriate materials necessary in the teaching

process. U. S. professors will turn over teaching activities to Brazilian professors as soon as the latter are sufficiently trained in proper teaching techniques and competent in subject content.

4. Supervise specific research topics and advise in the establishment of a comprehensive research program consonant with a modern graduate program.

5. Provide technical advisory services to the appropriate IQUB officials for improving curriculum, course content, teaching materials, teaching methods, and related subjects.

6. Procure within budgetary limitations the necessary equipment, books, devices, pamphlets, and other educational aids for which specifications have been developed.

7. Advise and assist in the development of class and laboratory scheduling to provide better utilization of faculty time, with the objective of encouraging faculty research and study to enable faculty member to keep informed on current developments in their fields and to place more responsibility directly on the student for his own study and work.

8. Advise and assist as feasible in developing an active liaison with other institutions and with industry through technical conferences and other methods which will be effective in Brazil.

9. Advise and assist IQUB in establishing a continuing study of its program in engineering (and education in relation to engineering) and needs of Brazil generally. In this connection and in order to have information based on national conditions and requirements, the University will consult with the US AID/Brazil on the basis of data available to the University on the requirements for the development of a strong and well integrated

educational program in science and engineering in Brazil.

10. Procure materials and supplies needed for the work of the professors and assist in the development and improvement of laboratory and teaching aids, including textbooks. (~~Costs not to exceed \$1,000~~)

*RdL 5/25/64
JW 5/25/64*

C. Activities on Contractor's Campus

The Contractor will provide supporting activities on its campus and continuous services and assistance throughout the duration of the contract by accomplishing the following:

1. Establishment of an office of Campus Coordinator.

2. Development of policies and procedures for recruitment, appointment, orientation, language training, and assignment of personnel; provisions of administrative support for Contractor's personnel; procurement; and maintenance of communications regarding the contract and performance within its obligations.

3. Conduct necessary research and studies for the preparation and assembling of syllabic, teaching materials, abstracts, case studies, library and reference materials, and bibliographics which can best be accomplished by the campus staff for use in the Cooperating Country.

4. Provide necessary intensive Portuguese language training for regular staff members prior to their departure for Brazil.

5. Order, assemble, and ship library and laboratory materials.

D. Personnel

The Contractor shall provide the following staff members:

1. Regular Staff Members

a. A Chief-of-Party who will also serve in a professional capacity.

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He shall arrive on or shortly after June 1, 1964.

b. A staff member who shall arrive on or after June 1, 1964.

The composition of the staff specified above may be reviewed with the prior approval of the Contracting Officer. Approximately twenty-four (24) months for each professor, commencing as soon as possible and not later than July 1, 1964. The major portion of services will be at the School of Chemical Engineering, University of Brazil, Rio de Janeiro, Brazil, but occasionally professors will be required to furnish consultant services in other parts of Brazil. These special assignments will be subject to the concurrence of US AID/Brazil.

E. Short-Term Staff Members

There shall not be more than three (3) short-term staff members to serve for periods up to 150 days in categories as required and approved by the Contracting Officer and within budgetary limitations.

F. Campus Staff

Contractor shall maintain at the University of Houston a part-time Campus Coordinator, one part-time secretary, and such additional professional, administrative, and clerical services as are necessary to effectively supervise and coordinate the activities under this contract and are within budgetary limitations.

G. Reports

Monthly reporting in English by the U. S. professors to include a summary of accomplishments, plans, evaluation of activities in area specialization, problems, and specific recommendations for continued improvement of the program. Each U. S. professor will prepare an end-of-tour report, in accordance

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with US AID/Brazil regulations, listing accomplishments, problems and recommendations. The Contractor shall submit to A.I.D. and US AID, semi-annual reports on the Contract. These reports will give a summary of accomplishments in each of the items under the scope of work. Each semi-annual report shall include a statement of progress and specific anticipated future activity with regard to items 1 through 9 outlined in Appendix B Section B requirements. The Contractor will submit other interim reports if required by US AID.

CONTRACT BETWEEN THE UNITED STATES OF AMERICA
 AND THE UNIVERSITY OF HOUSTON

Appendix C - Approved Budget

Budget No. 1

Line Item No.		Firm Budget	Projected Budget	Total Budget
		From: 6/1/64 To: 5/31/65	From: 6/1/65 To: 5/31/66	From: 6/1/64 To: 5/31/66
1.	Salaries	\$34,600	\$40,600	\$ 75,200
2.	Allowance	6,133	7,000	13,133
3.	Travel & transportation	15,758	6,438	22,196
4.	Other direct costs	1,960	1,760	3,720
5.	Overhead	8,869	10,297	19,166
6.	Equipment	2,400	1,185	3,585
Grand Total		\$69,720	\$67,280	\$ 137,000

Special Provision

1. The firm budget represents the total funds authorized to be expended by the Contractor during the period indicated. Within the grand total of the firm budget, the Contractor may increase or decrease, in amount not to exceed 15%, any of the line items contained in the firm budget without obtaining A.I.D./W approval.

2. The projected budget covers the estimated costs for the period indicated of which \$67,280 has been committed by A.I.D. for the purposes of

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this contract. Any expenditure of projected budget funds will be subject to prior A.I.D. approval of individual items of expenditure or of a revised firm budget.

3. As soon as practicable during the period covered by the firm budget, but not later than three months prior to the end of the firm budget period, the Contractor will submit to A.I.D. proposals for a new budget for the ensuing year.

CONTRACT BETWEEN THE UNITED STATES OF AMERICA AND
THE UNIVERSITY OF HOUSTON

APPENDIX D - SPECIAL PROVISIONS

1. OVERHEAD

The reimbursement for overhead costs authorized in Appendix A-XX-B-5 shall be at the provisional "on-campus" rate of 54 percent and the provisional "off-campus" rate of 23.8 percent.

2. The attached "Additions to Appendix A - Standard Provisions (University Contracts)" is hereby made a part of this Contract.

3. Notwithstanding any other provision of this Contract, all United States and international air transportation of persons under this contract shall be performed at less than first class i.e., economy and/or tourist class, accommodations. Whenever such less than first class air transportation is performed, each traveler shall be authorized an excess accompanied personal baggage allowance of twenty-two (22) pounds.

4. Appendix A - Article XI, Nondiscrimination, each reference to Executive Order No. 10925 of March 6, 1961, shall include the words "as amended" after said date.

5. Promptly after the execution of this contract, the Contractor shall take the action necessary to comply with the insurance coverage provisions of the Defense Base Act and shall provide the Contracting Officer with a copy of the Certificate of Compliance which will be issued by the Department of Labor when the insurance provisions of said Defense Base Act have been satisfied.

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D-1

6. SALARIES - Paragraph XVI-A of Appendix A is hereby amended
by adding the following:

"E. Notwithstanding any other provision of this contract, any
salary rate or consulting fee rate exceeding an annual
rate of \$22,500.00 shall require the prior written approval
of AID/W Contracting Officer."

IN WITNESS WHEREOF, the parties hereto have signed this contract
on the dates shown below.

THE UNIVERSITY OF HOUSTON

BY

TITLE

DATE

R.W. Lee

Auditor

July 27, 1965

AGENCY FOR INTERNATIONAL DEVELOPMENT

BY

D. Chiddo

Contracting Officer

Bureau for Latin America

DATE

AUG 2 1965

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CERTIFIED A TRUE COPY THIS
9th DAY OF August 1964
BY E. H. Boyd

Contract No. AID/1a-158
(Brazil)

AMENDMENT NO. 1 TO
CONTRACT BETWEEN
THE UNITED STATES OF AMERICA
and
THE UNIVERSITY OF HOUSTON
PIO/T 512-N-66-AO-3-30258
PIO/T 512-11-660-001-3-40071

THIS AMENDMENT is made and entered into between the Government of the United States of America, as represented by the Agency for International Development (hereinafter called "A.I.D."), and the University of Houston (hereinafter called the "Contractor"), an educational institution with its principal office located at Houston, Texas.

WHEREAS, A.I.D. and the Contractor entered into Contract AID/1a-158 effective June 1, 1964 and the parties now desire to amend said contract to incorporate a new budget and another mutually acceptable provision;

NOW, THEREFORE, the parties hereto agree that said contract shall be and is amended as follows:

I. Under Appendix C - Approved Budget - delete budget number one and substitute therefor budget number two as follows:

"Budget No. 2

Line Item No.	Estimated Expenditures	Firm Budget	Total Budget
	Fr: 6/1/64 To: 5/31/65	Fr: 6/1/65 To: 5/31/66	Fr: 6/1/64 To: 5/31/66
1. Salaries	\$21,992	\$43,920	\$ 65,912
2. Allowance	6,842	10,000	16,842
3. Travel & Transportation	17,050	7,610	24,660
4. Other Direct Costs	4,000	4,500	8,500
5. Overhead	5,928	11,842	17,770
6. Equipment	1,850	1,466	3,316
	\$57,662	\$79,338	\$137,000"

II. Under Appendix D - Special Provisions - add the following as clause number 7:

"7. Contract employees hereunder are required to handle all their conversions into local currency through the United States Disbursing Officer (U.S.D.O.) or A.I.D. Imprest Fund Cashiers as appropriate. Exceptions to this provision may be granted by the US AID Director, his designee or the US AID Contracting Officer."

Except as expressly hereby amended, said contract is in all respects ratified, confirmed and continued in full force and effect in accordance with its terms.

IN WITNESS WHEREOF, the parties hereto have signed this contract
on the dates shown below.

THE UNIVERSITY OF HOUSTON

BY

TITLE

DATE

R.W. Lee

Auditor

July 27, 1965

AGENCY FOR INTERNATIONAL DEVELOPMENT

BY

DATE

D. Chiddo

D. Chiddo
Contracting Officer
Bureau for Latin America

AUG 2 1965

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CERTIFIED A TRUE COPY THIS
3rd DAY OF Feb 1964
BY Leiboyk

Contract No. AID/1a-158
(Brazil)

PRC-3A-3

AID/1A-158

AMENDMENT NO. 2 TO
CONTRACT BETWEEN
THE UNITED STATES OF AMERICA
AND
THE UNIVERSITY OF HOUSTON

PIO/T 512-N-66-AO-3-30258
PIO/T 512-11-660-001-3-40071
PIO/T 512-263-3-50391 - A1

THIS AMENDMENT is made and entered into between the Government of the United States of America, as represented by the Agency for International Development (hereinafter called "A.I.D."), and the University of Houston (hereinafter called the "Contractor"), an educational institution with its principal office located at Houston, Texas.

WHEREAS, A.I.D. and the Contractor entered into Contract AID/1a-158 effective June 1, 1964 and the parties now desire to amend said contract to incorporate a new budget and other mutually acceptable changes;

NOW, THEREFORE, the parties hereto agree that said contract shall be and is amended as follows:

1. Reference Paragraph II - CONDITIONS GOVERNING OPERATIONS B. - delete the "Standard Provisions" set forth in Appendix A, and in lieu thereof insert the attached "Appendix A - Standard Provisions (May 1, 1965)".

2. Reference Paragraph III - FINANCING - delete the figure "\$137,000" and in lieu thereof insert "\$633,789".

3. Reference Paragraph IV - TERM - delete the date "August 31, 1966" appearing in the second line thereof and substitute therefor the date "January 31, 1968".

4. Reference Appendix B, delete in its entirety and in lieu thereof insert the attached "Appendix B - Operation Plan No. 2".

5. Reference Appendix C - delete in its entirety and in lieu thereof insert the attached "Appendix C - Approved Budget No. 3".

6. Reference Appendix D - delete in its entirety and in lieu thereof insert the attached "Appendix D - Special Provisions".

Except as expressly hereby amended, said contract is in all respects ratified, confirmed and continued in full force and effect in accordance with its terms.

IN WITNESS WHEREOF, the parties hereto have executed this Amendment effective as of the last date shown below.

THE UNIVERSITY OF HOUSTON

BY

R. S. Thomas

TITLE

CONTROLLER

DATE

1-19-66

AGENCY FOR INTERNATIONAL DEVELOPMENT

BY

R. E. Wright

DATE

JAN 19 1966

file PRC-3

CERTIFIED A TRUE COPY THIS
9th DAY OF January 1967
BY E. L. Amin

Contract No. 417/1-66
(1966)

Return to ZA/BR

AMENDMENT NO. 3 TO
CONTRACT BETWEEN
THE UNITED STATES OF AMERICA
AND
THE UNIVERSITY OF HOUSTON

WZc:
Attached final
draft is
more
readable

PIO/T 512-11-66-AC-3-30258 — Engr.
PIO/T 512-11-66-001-3-0071 — Engr.
PIO/T 512-263-3-7051 - AI — Engr.
PIO/T 512-263-3-80363 - AI — 50391-A-1
APPRO: 72-1161010 — Admin. Ref. Ref. 50391-A-1
ALICE: 695-50-512-69-69-73

THIS AMENDMENT is made and entered into between the Government of the United States of America, as represented by the Agency for International Development (hereinafter called "A.I.D."), and the University of Houston (hereinafter called the "Contractor"), an educational institution with its principal office located at Houston, Texas.

WHEREAS, A.I.D. and the Contractor entered into Contract AID/12-158 effective June 1, 1964 and the parties now desire to amend said contract to incorporate a new budget and other mutually acceptable changes;

NOW, THEREFORE, the parties hereto agree that said contract shall be and is amended as follows:

1. Reference Paragraph III, Financing - delete the figure "363,739" and in lieu thereof insert "705,739".
2. Reference Appendix B, delete in its entirety and in lieu thereof insert the attached "Appendix B - Operation Plan No. 3".
3. Reference Appendix C, delete in its entirety and in lieu thereof insert the attached "Appendix B - Approved Budget No. 4".

Except as expressly hereby amended, said contract is in all respects ratified, confirmed and continued in full force and effect in accordance with its terms.

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IN WITNESS WHEREOF, the parties hereto have executed this Amendment effective as of the last date shown below.

THE UNIVERSITY OF TORONTO

BY *[Signature]*

TITLE: SENIOR VICE PRES. & TREASURER

DATE: 12/29/66

AGENCY FOR INTERNATIONAL DEVELOPMENT

BY *[Signature]*

TITLE: S. D. Heishman

TITLE: Contracting Director
Bureau for Latin America

JAN 5 1967

CONTRACT BETWEEN THE UNITED STATES OF AMERICA
AND
THE GOVERNMENT OF BRAZIL

APPENDIX II - DISCIPLINARY PART NO. 3

A. Shipping

The Contractor in cooperation with officials of the Ministry of Education (hereinafter referred to as the Ministry) of the Government of Brazil and US AID, shall provide technical advice, guidance, and assistance through the establishment of an interrelationship with the Federal University of Rio de Janeiro (formerly University of Brazil) in assisting it to improve its graduate educational programs leading to the establishment of graduate programs in the fields of mechanical, electrical, industrial, metallurgical, chemical, and civil engineering, and engineering sciences and establishing an engineering research center. In addition to the Federal University of Rio de Janeiro the Contractor will also provide similar teaching and research assistance to help the Pontificia Universidade Catolica in establishing its graduate engineering program.

In cooperation with the Ministry, the Contractor will furnish to institutions of higher learning such assistance as will enable them to undertake immediate administrative and financial reforms essential for efficient conduct of their operations. No such program of modernization of administrative practices has been undertaken in Brazil although the number of state, federal, and private universities has grown from three in 1946 to thirty-seven in 1966.

B. Form of Work

In each of their separate fields and jointly as appropriate each professor will assist in the establishment of graduate engineering programs at the Federal University of Rio de Janeiro and the Pontificia Universidade Catolica.

Contractor activities will include advice and assistance in such fields as: curriculum development, teaching, short courses, and conferences, research in both theoretical and applied fields, instruction of improved teaching techniques and materials, establishment of educational and professional standards, establishing liaison with other universities and with industry and in compiling and updating data pertaining to national needs for engineers in relation to the University's engineering program.

The Contractor will advise and assist both Universities in establishing a continuing study of their programs in engineering (and education in relation to engineering) and the needs of Brazil generally. In this connection and in order to have information based on national conditions and requirements, the Contractor will consult with the IB AEB/Brazil on the basis of data available to the Contractor on the requirements for the development of strong and well integrated educational programs in sciences and engineering in Brazil.

Assistance will also be provided to help establish a well organized engineering research center actively in touch with engineering research needs which can provide a reservoir of practical knowledge and consultation as well as extension services to both industry and the engineering community.

The Contractor will assist the Federal University of Rio de Janeiro and the Pontificia Universidade Catolica in matters of overall organization, administration, policy, and coordination of programs in the several faculties necessary to the establishment of national centers of graduate study.

The Contractor will initiate and carry out seminars for up to 10 Brazilian public and private universities encompassing various fields of modern university administration. Each seminar will be attended by representatives of two or more Brazilian universities which have indicated a desire to address the reforms in question.

Following such seminars, and in response to invitations by interested universities, the Contractor will provide consultants who will, together with Brazilian administrators, furnish necessary guidance to resolve specific problems in such areas as financial management, campus planning and maintenance, academic organization, cost control, teaching methods, development and fund raising, and other areas as deemed advisable.

A program of short-term training for specialized participants will be conducted concurrently with the above, to take place on the campuses of Latin American universities and the University of Houston. Course content should be submitted to the Mission prior to the presentation of the courses. It is estimated that a maximum of forty participants will be trained under this program.

The following institutions have indicated interest in consulting and short-term personnel development programs: Federal University of Rio de Janeiro, Pontificia Universidade of Rio de Janeiro, University of the State of Pernambuco, University of Santa Catarina, University of Bahia, University of Bahia, University of Minas Gerais, University of Pernambuco, University of Ceara.

The following universities would probably be interested in participating in seminars on the principles and problems of administrative reform: University of Rio Grande do Sul, University of Santa Maria, Pontificia Universidade Catolica of Rio Grande do Sul, University of Espirito Santo, University of Pernambuco, University of Alagoas, University of Juiz de Fora, University of Rio Grande do Norte, Mackenzie University.

Other institutions not listed here will be considered for consulting assistance and visiting participation on the basis of their interest and readiness for administrative reform.

Presently in Brazil are a mechanical, two electrical (one as an engineering scientist), and one metallurgical engineer. A long-term University Administrator will be supplied by October 1. One civil and electrical engineers and engineering research specialist will arrive after January 1, 1967.

The Contractor will furnish not to exceed fifteen short-term specialists from the U.S. or third countries to serve as consultants in university reform. The Contractor will also furnish not to exceed five consultants in specialized field of engineering as needed in the program.

C. Definition of Contracting Scope

The Contractor will provide supporting activities on the campus and performance services and assistance through the duration of the contract by accomplishing the following:

1. Establishment of an office of Campus Coordinator.

2. Development of policies and procedures for recruitment, appointment, orientation, language training, and assignment of personnel; provisions of administrative support for Contractor's personnel; procurement; and maintenance of communications regarding the contract and performance within its obligations.

3. Conduct necessary research and studies for the preparation and updating of syllabus, teaching materials, textbooks, case studies, library and reference materials, and bibliographies which can best be accomplished by the campus staff for use in the Cooperating Country.

4. Order, assemble, and ship library and other teaching materials.

D. Personnel

1. Field Staff

<u>Number</u>	<u>Position Classification</u>	<u>Man Months of Service</u>
1	Chemical Engineering	24
1	Mechanical Engineer	24
1	Metallurgy	24
1	Electrical Engineer	24
1	Civil Engineer	24
1	Engineering Research Specialist	
1	Engineering Sciences	24
6	Graduate Engineering	12
1	Administrator for University Reform	24
15	Short-term Consultants for Administrative Reform	15
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The Chief of Party will be chosen from among the Contractor's long-term field staff and will serve in both a professional capacity and as Chief of Party.

2. General Staff

Contractor shall maintain at the University of Houston a part-time foreign Coordinator, one part-time secretary and such additional professional and clerical personnel as are necessary for effectively coordinating the work of this contract within the budgetary limitations of this contract.

3. Reports

A. The Contractor shall submit to the US AID monthly reports which include a summary of activities, accomplishments, plans, evaluation of activities, problems, and specific recommendations for continued improvement of the program.

B. Each U.S. Professor will prepare an individual report in accordance with US AID requirements, listing accomplishments, problems and recommendations.

C. The Contractor will submit to US AID/2 and US AID semi-annual and other special reports as requested, which describe the accomplishments, methods of work used, and recommendations.

CENTRAL BUREAU FOR THE STUDY OF LAWRENCE
 AND
 THE UNIVERSITY OF MICHIGAN

AMENDMENT C - AMENDED BUDGET

TABLE NO. 4

	Actual Period: From: 5/1/66 To: 5/31/66	Final Budget Date: 6/1/66 To: 5/31/67	Revised Budget Date: 5/31/67 To: 5/31/67	Total Date: 5/31/67
1. Salaries	\$70,426	\$138,459	\$122,650	\$250,525
2. Allowances	37,932	43,267	29,200	91,419
3. Travel & Transportation	36,545	92,519	34,315	163,379
4. Other Direct Costs	31,897	27,296	20,821	99,984
5. Overhead	14,721	35,792	28,983	90,206
6. Equipment	6,785	8,000	2,039	26,824
7. Participant Training Training	2,000	4,000	0	7,000
GRAND TOTALS	\$200,607	\$400,803	\$328,608	\$700,708

TERMS AND CONDITIONS

1. The final budget represents the total funds authorized to be expended by the Contractor during the period indicated. Within the grand total of the final budget the Contractor may increase or decrease any of the line items contained in the final budget, by not more than 10%, except line items No. 6 and 7, without obtaining approval of the Contracting Officer.

2. The Projected budgets cover estimated costs for the period indicated of which \$225,000 has been committed by A.I.D. for the purposes of this contract. Any expenditures of projected budget funds will be subject to prior approval by the Contracting Officers.

3. As soon as practicable during the period covered by the firm budget, but not later than three months prior to the end of the firm budget period, the Contractor will submit new budget proposals in three (3) copies to A.I.D. Washington and one copy to the Mission Director. Such proposals will include:

a. Data (by line item of this Appendix C) on Contractor's cumulative expenditures from the effective date of this contract through the end of the current firm budget period. At the time of submittal, these data will necessarily be a combination of (1) actual expenditures through the latest practicable date in the current firm budget period (shown separately) plus (2) estimated expenditures for the remainder of the current firm budget period.

b. Proposed firm budget for the year (or other agreed upon period) immediately following the end of the current firm budget period, accompanied by worksheet data in sufficient detail as to justify the firm budget proposal.

c. Proposed projected budgets for each year of the remaining term of this contract following the proposed firm budget period (see b. above).

VW
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PAR 3-3

Contract No. AID/1a-158
(Small)

**AMENDMENT NO. 3 TO
CONTRACT BETWEEN
THE UNITED STATES OF AMERICA**

AND

THE UNIVERSITY OF HOUSTON

FED/T 512-2-66-48-3-30258
FED/T 512-11-660-001-3-40071
NSF/T 512-863-3-00991 - A1
FED/T 512-863-3-40363 - A1
AGENCY: 78-126810
PROJECT: 695-70-512-00-09-73

5

THIS AMENDMENT is made and entered into between the Government of the United States of America, as represented by the Agency for International Development (hereinafter called "A.I.D."), and the University of Houston (hereinafter called the "Contractor"), an educational institution with its principal office located at Houston, Texas.

WHEREAS, A.I.D. and the Contractor entered into Contract AID/1a-158 effective June 1, 1964 and the parties now desire to amend said contract to incorporate a new budget and other mutually acceptable changes;

NOW, THEREFORE, the parties hereto agree that said contract shall be and is amended as follows:

- 1. Reference Paragraph III, Financing - delete the figure "\$613,709" and in lieu thereof insert "\$708,709".**
- 2. Reference Appendix B, delete in its entirety and in lieu thereof insert the attached "Appendix B - Operation Plan No. 3".**
- 3. Reference Appendix C, delete in its entirety and in lieu thereof insert the attached "Appendix C - Approved Budget No. 4".**

Except as expressly hereby amended, said contract is in all respects ratified, confirmed and continued in full force and effect in accordance with its terms.

25

IN WITNESS WHEREOF, the parties hereto have executed this Amendment effective as of the last date shown below.

THE UNIVERSITY OF HOUSTON

AGENCY FOR INTERNATIONAL DEVELOPMENT

BY _____

BY _____

TITLE _____

TITLE _____

DATE _____

DATE _____

Appendix B
Contract No. AID/1a-158
(Brazil)

**CONTRACT BETWEEN THE UNITED STATES OF AMERICA
AND
THE UNIVERSITY OF HOUSTON**

APPENDIX B - OPERATIONAL PLAN NO. 3

A. Objectives

The Contractor in cooperation with officials of the Ministry of Education (hereinafter referred to as the Ministry) of the Government of Brazil and UN SAB, shall provide technical advice, guidance, and assistance through the establishment of an interrelationship with the Federal University of Rio de Janeiro (formerly University of Brazil) in assisting it to improve its graduate educational programs leading to the establishment of graduate programs in the fields of mechanical, electrical, industrial, metallurgical, chemical, and civil engineering, and engineering sciences; and establishing an engineering research center. In addition to the Federal University of Rio de Janeiro the Contractor will also provide similar teaching and research assistance to help the Pontificia Universidade Catolica in establishing its graduate engineering program.

In cooperation with the Ministry, the Contractor will furnish to institutions of higher learning such assistance as will enable them to undertake immediate administrative and financial reforms essential for efficient conduct of their operations. No such program of modernization of administrative practice has been undertaken in Brazil although the number of state, federal, and private universities has grown from three in 1944 to thirty-seven in 1966.

B. Scope of Work

In each of their separate fields and jointly as appropriate each professor will assist in the establishment of graduate engineering programs at the Federal University of Rio de Janeiro and the Pontificia Universidade Catolica.

Contractor activities will include advice and assistance in such fields as: curriculum development, teaching, short courses, and conferences, research in both theoretical and applied fields, introduction of improved teaching techniques and materials, establishment of educational and professional standards, establishing liaison with other universities and with industry and in compiling and analyzing data pertaining to national needs for engineers in relation to the University's engineering program.

The Contractor will advise and assist both Universities in establishing a continuing study of their programs in engineering (and education in relation to engineering) and the needs of Brazil generally. In this connection and in order to have information based on national conditions and requirements, the Contractor will consult with the US AID/Brazil on the basis of data available to the Contractor on the requirements for the development of strong and well integrated educational programs in science and engineering in Brazil.

Assistance will also be provided to help establish a well organized engineering research center actively in touch with engineering research needs which can provide a resource of practical knowledge and experimentation as well as extension services to both industry and the engineering community.

The Contractor will assist the Federal University of Rio de Janeiro and the Pontificia Universidade Catolica in matters of overall organization, administration, policy, and coordination of programs in the several faculties necessary to the establishment of modern centers of graduate study.

The Contractor will initiate and carry out seminars for up to 15 Brazilian public and private universities encompassing various fields of modern university administration. Each seminar will be attended by representatives of two or more Brazilian universities which have indicated a desire to achieve the reforms in question.

Following such seminars, and in response to invitations by interested universities, the Contractor will provide consultants who will, together with Brazilian administrators, furnish necessary guidance to receive specific problems in such areas as financial management, campus planning and maintenance, academic organization, cost control, teaching methods, development and fund raising, and other areas as deemed advisable.

A program of short-term training for specialized participants will be conducted concurrently with the above, to take place on the campuses of Latin American universities and the University of Houston. Course content should be transmitted to the Mission prior to the presentation of the courses. It is estimated that a maximum of forty participants will be trained under this program.

The following institutions have indicated interest in consulting and short-term personnel development programs: Federal University of Rio de Janeiro, Pontificia Universidade of Rio de Janeiro, University of the State of Guanabara, University of Santa Catarina, University of Parana, University of Bahia, University of Minas Gerais, University of Brasilia, University of Ceara.

The following universities would probably be interested in participating in seminars on the principles and problems of administrative reforms: University of Rio Grande do Sul, University of Santa Maria, Pontificia Universidade Catolica of Rio Grande do Sul, University of Espirito Santo, University of Pernambuco, University of Alagoas, University of Juiz de Fora, University of Rio Grande do Norte, Maranhao University.

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Other institutions not listed here will be considered for counseling assistance and seminar participation on the basis of their interest in and readiness for administrative reform.

Presently in Brazil are a mechanical, two electrical (one as an engineering scientist), and one metallurgical engineer. A long-term University Administrator will be supplied by October 1. The civil and chemical engineers and engineering research specialist will arrive after January 1, 1967.

The Contractor will furnish not to exceed fifteen short-term specialists from the U.S. or third countries to serve as consultants in university reform. The Contractor will also furnish not to exceed five consultants in specialized field of engineering as needed in the program.

C. Activities on Contractor's Campus

The Contractor will provide supporting activities on its campus and continuous services and assistance through the duration of the contract by accomplishing the following:

1. Establishment of an office of Campus Coordinator.

2. Development of policies and procedures for recruitment, appointment, orientation, language training, and assignment of personnel; provisions of administrative support for Contractor's personnel; procurement; and maintenance of communications regarding the contract and performance within its obligations.

3. Conduct necessary research and studies for the preparation and assembling of syllabus, teaching materials, abstracts, case studies, library and reference materials, and bibliographies which can best be accomplished by the campus staff for use in the Cooperating Country.

4. Order, assemble, and ship library and other teaching materials.

D. Personnel

1. Field Staff

<u>Number</u>	<u>Position Classification</u>	<u>Max Months of Service</u>
1	Chemical Engineering	24
1	Mechanical Engineer	24
1	Metallurgy	24
1	Electrical Engineer	24
1	Civil Engineer	24
1	Engineering Research Specialist	
1	Engineering Science	24
5	Graduate Engineering	12
1	Administrator for University Reform	24
15	Short-term Consultants for Administrative Reform	15

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The Chief-of-Party will be chosen from among the Contractor's long-term field staff and will serve in both a professional capacity and as Chief-of-Party.

2. Support Staff

Contractor shall maintain at the University of Houston a part-time Campus Coordinator, one part-time secretary and such additional professional administrative and clerical services for effectively coordinating the work of this contract within the budgetary limitation of this contract.

3. Reports

A. The Contractor shall submit to the US AID monthly reports which include a summary of activities, accomplishments, plans, evaluation of activities, problems, and specific recommendations for continued improvement of the program.

B. Each U.S. Professor will prepare an end-of-tour report in accordance with US AID requirements, listing accomplishments, problems and recommendations.

C. The Contractor will submit to A.I.D./W and US AID semi-annual and other special reports as requested, which summarize the accomplishments, methods of work used, and recommendations.

APPENDIX C
 Contract No. AID/1a-158
 (Brazil)

CONTRACT BETWEEN THE UNITED STATES OF AMERICA
 AND
 THE UNIVERSITY OF HOUSTON

APPENDIX C - APPROVED BUDGET

BUDGET NO. 4

	Actual Expenditures Fr: 6/1/64 To: 5/31/66	Firm Budget Fr: 6/1/66 To: 5/31/67	Projected Budget Fr: 6/1/67 To: 5/31/68	Total Fr: 6/1/64 To: 1/31/68
1. Salaries	\$89,486	\$138,429	\$113,650	\$341,535
2. Allowances	17,982	43,267	29,300	90,549
3. Travel & Transportation	36,945	52,519	34,346	123,410
4. Other Direct Costs	11,207	17,256	10,521	38,984
5. Overhead	24,731	36,382	28,983	90,106
6. Equipment	6,785	8,000	2,059	16,844
7. Participant Training	<u>1,441</u>	<u>4,400</u>	<u>- 0 -</u>	<u>1,441</u>
GRAND TOTALS	\$189,657	\$300,293	\$218,839	\$706,789

SPECIAL PROVISIONS

1. The firm budget represents the total funds authorized to be expended by the Contractor during the period indicated. Within the grand total of the firm budget the Contractor may increase or decrease any of the line items contained in the firm budget, by not more than 15%, except line items No. 6 and 7, without obtaining approval of the Contracting Officer.

2. The Projected budget: cover estimated costs for the period indicated of which \$215,839 has been committed by A.I.B. for the purpose of this contract. Any expenditure of projected budget funds will be subject to prior approval by the Contracting Officer

3. As soon as practicable during the period covered by the firm budget, but not later than three months prior to the end of the firm budget period, the Contractor will submit new budget proposals in three (3) copies to A.I.B. Washington and one copy to the Mission Director. Such proposals will include:

a. Data (by line items of this Appendix G) on Contractor's cumulative expenditures from the effective date of this contract through the end of the current firm budget period. At the time of submittal these data will necessarily be a combination of (1) actual expenditures through the latest practicable date in the current firm budget period (show separately) plus (2) estimated expenditures for the remainder of the current firm budget period.

b. Proposed firm budget for the year (or other agreed upon period) immediately following the end of the current firm budget period, accompanied by work-sheet data in sufficient detail as to justify the firm budget proposal.

c. Proposed projected budgets for each year of the remaining term of this contract following the proposed firm budget period (see b. above).

DEPARTMENT OF STATE
AGENCY FOR INTERNATIONAL DEVELOPMENT
WASHINGTON, D.C. 20523

~~HH~~
FILED 4
REC 3

16 MAY 1967

CERTIFIED TRUE COPY

SIGNED *[Signature]* 6/9/67

EFFECTIVE DATE

copy ~~HH~~
File

Mr. F. M. Tiller
Office of International Affairs
University of Houston
Cullem Boulevard
Houston, Texas 77004

Subject: Amendment No. 4
Contract AID/1a-158 (Brazil)

Dear Mr. Tiller:

Subject contract is hereby amended as follows:

1. Reference Appendix D - Special Provisions, IV.A.1. - Delete "\$174,292" and insert in lieu thereof "\$489,950."

It is understood that this amendment does not increase the total cost nor does it alter any other provisions of the subject contract.

If this amendment is acceptable to you, please indicate by signing and returning four (4) copies to this office. The fifth copy is for your files.

Sincerely yours,

[Signature]

D. Chiddo
Contracting Officer
Bureau for Latin America

ACCEPTED:
UNIVERSITY OF HOUSTON

BY *[Signature]*

TITLE CONTROLLER

DATE 5-26-67

To Contractor:

At his post of duty while in the
Cooperating Country and at Contractor's
address shown in the Cover Page of this
contract

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.

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EOA
(Higher EDA)

Contract AID/1a-158
(Brazil)

AMENDMENT NO. 5

to the Contract between the
UNITED STATES OF AMERICA

and

UNIVERSITY OF HOUSTON

PIO/T 512-W-66-AC-3-30258
512-11-660-001-340071
512-263-3-90391 (A-1)
512-263-3-60363 (A-1)
512-263-3-70513
Allot: 72-1171010
Apptop: 795-50-512-00-69-71

not signed
50391

Fin. Ref.
Fin. Ref.
Fin. Ref.
Adm. Ref.
Adm. Ref.

THIS AMENDMENT is made and entered into between the Government of the United States of America, as represented by the Agency for International Development (hereinafter called "A.I.D."), and the University of Houston (hereinafter called the "Contractor"), an educational institution with its principal office located at Houston, Texas.

WHEREAS, A.I.D. and the Contractor entered into Contract AID/1a-158 effective June 1, 1964 and the parties now desire to amend said contract to incorporate a new budget and other mutually acceptable changes;

NOW, THEREFORE, the parties hereto agree that said contract shall be and is amended as follows:

1. Reference Article III. Financing - Delete the figure "\$708,789," and in lieu thereof insert "\$753,789."

2. Reference Appendix B - Operational Plan, D. Personnel - Delete "15 Short-term Consultants for Administrative Reform 15" and insert in lieu thereof the following:

"35 Short-term Staff Members 35."

3. Reference Appendix C - Approved Budget No. 4 - Delete in its entirety and substitute the attached Appendix C - Approved Budget No. 5."

4. Reference Appendix D - Special Provisions, Article IV. Method of Payment, A.,1. Federal Reserve Letter of Credit - Delete "\$174,292," and insert in lieu thereof "\$587,306."

Except as expressly hereby amended, said contract is in all respects ratified, confirmed and continued in full force and effect in accordance with its terms.

IN WITNESS WHEREOF, the parties hereto have executed this Amendment effective as of the last date shown below.

UNITED STATES OF AMERICA
AGENCY FOR INTERNATIONAL DEVELOPMENT

BY _____

TITLE _____

DATE _____

UNIVERSITY OF HOUSTON

BY _____

TITLE _____

DATE _____

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APPENDIX C
 Contract AID/1a-158
 (Brazil)

CONTRACT BETWEEN THE UNITED STATES OF AMERICA AND
 UNIVERSITY OF HOUSTON

Budget No. 5

Appendix C - Approved Budget

<u>Line Item No.</u>	<u>Actual</u>	<u>Firm Budget</u>	<u>Total Budget</u>
	<u>Expenditures</u> Fr: 6/1/64 To: 5/31/67	Fr: 6/1/67 To: 12/31/67	Fr: 6/1/64 To: 12/31/67
1. Salaries	\$209,343	\$101,170	\$310,513
2. Allowances	47,498	15,610	63,108
3. Travel and Transportation	67,085	26,220	93,305
4. Other Direct Costs	27,276	14,730	42,006
5. Overhead	56,831	31,120	87,951
6. Equipment	13,082	2,700	15,782
7. Participant Training	3,041	6,600	9,641
GRAND TOTALS	<u>\$424,156</u>	<u>\$198,150</u>	<u>\$622,306</u>

SPECIAL PROVISIONS

1. The firm budget represents the total funds authorized to be expended by the Contractor during the period indicated. Within the grand total of the firm budget the Contractor may increase or decrease any of the line items contained in the firm budget, by not more than 15%, except line Items Nos. 6 and 7, without obtaining approval of the Contracting Officer.

2. As soon as practicable during the period covered by the firm budget, but not later than three months prior to the end of the firm budget period, the Contractor will submit new budget proposals in three (3) copies to AID/Washington and one copy to the Mission Director. Such proposals will include:

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a. Data (by line items of this Appendix C) on Contractor's cumulative expenditures from the effective date of this contract through the end of the current firm budget period. At the time of submittal these data will necessarily be a combination of (1) actual expenditures through the latest practicable date in the current firm budget period (show separately) plus (2) estimated expenditures for the remainder of the current firm budget period.

b. Proposed firm budget for the year (or other agreed upon period) immediately following the end of the current firm budget period, accompanied by worksheet data in sufficient detail as to justify the firm budget proposal.

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MODIFICATION OF CONTRACT

AI
at EC

1. (a) Task Order No: (b) Amendment No: 6	2. Effective Date: 1/1/68	3. Contract No: AID/1a-158 (Brazil)	Effective Date: 6/1/64
5. Contractor (Name and Address): University of Houston Houston, Texas		6. Administered by: USAID/ Brazil AID/W	
7. (a) PIO/T No: (b) Appropriation No: N/A (c) Allotment Symbol:		8. Previous PIO/Ts: 512-001-3-40071 - Engr 512-263-3-30391 - Engr 60363 - Chem, Ref. 70513 - Chem, Ref.	

9. The above numbered contract is hereby modified as follows:
1. Reference Article IV. Term - Delete "January 31, 1968," and insert in lieu thereof "February 29, 1968."
 2. Reference Appendix C - Approved Budget, Firm Budget and Total Budget Columns - Delete "12/31/67," and insert in lieu thereof "2/29/68."

10. This amendment is entered into pursuant to the authority of the Foreign Assistance Act of 1961, as amended, and Executive Order No. 11223. Except as herein provided, all terms and conditions of the contract referenced in block #3 remain unchanged and in full force and effect.

11. (a) Contractor is not required to sign this document.
 XX (b) Contractor is required to sign this document and return 5 copies to issuing office.

12. Contractor UNIVERSITY OF HOUSTON
 BY [Signature]
 Name (Please Print) C. F. McElhinney
 Title Senior Vice President & Treasurer
 Date February 19, 1968

13. United States of America
 Agency for International
 Development (Latin America Bureau)
 BY [Signature]
 Name (Please Print) D. CHIDDO
 Title Contracting Officer
 Date FEB 28 1968

CERTIFIED TRUE COPY
 SIGNED [Signature] DATE 25 MAR 1968
 EFFECTIVE DATE 1-1-68

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1. Amendment No: 7	2. Effective Date: January 1, 1968	3. Contract No: AID/158 (Brazil)	Effective Date: June 1, 1964
5. Contractor (Name and Address): University of Houston Houston, Texas		6. Administered by: USAID/ Brazil	
7. (a) PIO/T No: 512-263-3-80279 & 80424 (b) Appropriation No: 72-1181010 (c) Allotment Symbol: 895-50-512-00-69-81		8. Previous PIO/Ts: See notation following Reference 5 in Block 9.	

9. The above numbered contract is hereby modified as follows:

- Reference Article III - Financing - Delete "\$753,789" and insert in lieu thereof "\$853,197".
- Reference Article IV - Term - Delete "February 29, 1968" and insert in lieu thereof "December 31, 1968".
- Reference Appendix B - Operational Plan - Delete in its entirety and substitute therefor the attached Appendix B - Operational Plan.
- Reference Appendix C - Approved Budget - Delete Approved Budget No. 5 and substitute therefor attached Approved Budget No. 6
- Reference Appendix D - Special Provisions, Article IV. Method of Payment, A., 1. Federal Reserve Letter of Credit - Delete "\$587,306" and insert in lieu thereof "\$818,197".

FROM BLOCK 8. - PREVIOUS PIO/Ts: 512-N-66-AO-3-30258, 512-11-660-001-3-40071, 512-263-3-50391 A-1, 512-263-3-60363 and 512-263-3-70513

10. This amendment is entered into pursuant to the authority of the Foreign Assistance Act of 1961, as amended, and Executive Order No. 11223. Except as herein provided, all terms and conditions of the contract referenced in block #3 remain unchanged and in full force and effect.

11. Contractor is required to sign this document and return 5 copies to issuing office.

12. Contractor UNIVERSITY OF HOUSTON BY <u>C. F. McElhinney</u> Name (Please Print) <u>C. F. McElhinney</u> Title <u>Senior Vice President & Treasurer</u> Date <u>October 15, 1968</u>	13. United States of America Agency for International Development (Latin America Bureau) BY <u>D. Chiddo</u> Name (Please Print) <u>D. Chiddo</u> Title <u>Contracting Officer</u> Date <u>10-21-68</u>
--	---

CERTIFIED TRUE COPY
SIGNED S. A. Sisson DATE _____
EFFECTIVE DATE 1-1-68

APPENDIX B

Operational Plan

I - INTRODUCTION

The University of Houston/AID Contract No. AID/1a-158 has consisted of two main activities: (1) Development of graduate work in engineering at the Universidade Federal do Rio de Janeiro (UFRJ) and the Pontificia Universidade Catolica (PUC) of Rio de Janeiro and (2) Consulting assistance to the Conselho de Reitores das Universidades Brasileiras in the field of administration and management. Basic objectives of the program consist of (1) improvement of teaching personnel in the field of engineering and establishment of a structure for improving the quality of instruction, research, and creativity and (2) development of an organization pattern suitable for modern universities and training of managers to administer and direct university activities in an effective manner.

The following proposal calls for (1) continuation of the graduate engineering program based upon a phase-out of resident advisors by the end of 1970 and (2) continuation of the technical assistance in administration program to Brazilian universities through June 30, 1968.

II - UNIVERSITY GRADUATE ENGINEERING PROGRAM

The University Graduate Engineering Program has accomplished its chief objectives in that permanent graduate schools with national recognition have been established at PUC and UFRJ. Efforts directed toward thesis research and supervision, curriculum development, teaching methodology, and educational standards have produced visible results. An organizational structure involving full-time instructors, student advisors, academic control by committees of professors, and adequate financial control is emerging. Expanding enrollments at UFRJ and PUC together with recognition by MEC, BNDE, Petrobras, CAPES, and CNP of the value of post-graduate work represent significant accomplishments. Almost half of the 1967 enrollment at UFRJ represents engineering teachers from all over Brazil. Many young men trained in the PUC-UFRJ graduate programs are spread throughout the country, resulting in an important multiplier effect.

Success of the graduate programs at PUC and UFRJ has had a national impact. Many schools are interested in duplicating what has been accomplished in Rio. Future efforts should be aimed at (1) helping preserve the high level of instruction and (2) carrying on relatively low cost assistance programs at other institutions which avoid the heavy financial commitments to full-time, mature graduate professors. A support mechanism which would depend upon participant training and short-term consultants and would minimize indirect costs could be developed on a limited basis.

The time has come to begin phasing out resident U.S. advisory assistance to UFRJ and PUC in the field of graduate engineering. By the end of 1970, they should be able to continue their programs with their own resources with only occasional, short-term assistance in specific engineering fields thereafter. To this end, the University of Houston will reduce its resident advisors in graduate engineering from six (6) in 1967 to five (5) by June, 1968 to four (4) by July, 1969 to two (2) by January, 1970 and none by July, 1970. It will provide short term staff members in selected fields.

STRUCTURE OF GRADUATE SCHOOLS

In addition to the technical aspects of graduate work, Brazilians should focus their attention on developing modern academic and administrative structures of their graduate schools.

In cooperation with the Brazilian Council of Rectors, the University of Houston will assist selected universities in developing graduate educational structures through provision of consultants (graduate deans or equivalent). These universities in turn will send directors of their own graduate faculties to the University of Houston and other institutions for orientation and training in graduate school operations for short periods.

In order to widen the influence and increase the impact of the graduate program at PUC and UFRJ on undergraduate and graduate engineering education throughout Brazil, UH resident instructors will enlarge their existing programs of seminars and visitation to Brazilian schools of engineering.

A small amount of activity has already generated considerable enthusiasm on the part of the Brazilians. Typical of what is desired are requests from Brasilia for lectures to their faculty on laboratory instructional methods and from Maua for lectures on late developments in special areas of engineering.

The resident U.S. professors in Rio are tied to their positions throughout the year because of thesis instruction. Unlike undergraduate programs with long vacations, the graduate school operates 12 months/year. Therefore only short trips of a few days to a week would be possible.

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EVALUATION OF GRADUATE ENGINEERING PROGRAM

The University of Houston will quantitatively assess the effect that graduates of the UFRJ-PUC programs are having in their employment in industry and as instructors in universities. In addition, the Contractor will evaluate problems affecting growth of graduate education in Brazil. Studies will include such areas as faculty and industrial compensation, research facilities and funds, laboratory needs, impact on undergraduate education, and industrial attitudes toward graduates with higher-level degrees. Methodology developed in the 1967 Blair-AID report on chemical engineering in Ecuador will be used as a basis for part of the investigation. Research presently sponsored by the National Science Foundation at UH in science and engineering manpower in Latin America will provide additional information. The visitation program of the resident instructors will be tied into this operation so that more information can be systematically obtained.

A limited analysis of teacher needs will be started in connection with the assessment of the impact of the UFRJ-PUC graduate program. The analysis will concentrate chiefly on engineering and science.

SHORT COURSES IN ENGINEERING AND SCIENCE

A continuing process of upgrading and maintaining competence of engineering professors including those trained previously in the graduate program is important to the development of higher education. In the United States, the National Science Foundation has solved the problem of continuing education through an extensive group of short courses held during vacation periods. Such programs have begun in Brazil and now need strengthening, particularly in fields which have only recently reached graduate level. Short courses given on a regional basis would complement the graduate work which is producing increasingly larger groups of scientists and engineers. Short courses in teaching methodology, new developments, and laboratory techniques would be particularly valuable.

Beginning in 1968, the University of Houston will conduct three short courses of four to six weeks in length over a period of three years. University of Houston input will consist of a single consultant, or occasionally two, participating with Brazilians in preparing and conducting each short course. The courses will require visual aids and other teaching materials in Portuguese, some of which must be prepared in Houston, drawing upon and adapting existing materials found successful in U.S. programs of this type.

NATIONAL PROGRAM IN GRADUATE EDUCATION

Throughout Brazil, universities are expressing interest in starting graduate schools. In some cases, they are motivated by interest shown by MEC in the past; and in others the graduates of the UFRJ-PUC programs have carried home a keen awareness of the importance of advanced studies and research. In addition to the universities independent institutes such as the Getulio Vargas Foundation and the Institute for Pure and Applied Mathematics (IMPA) are carrying on a wide variety of graduate training. In the past, advanced work was carried on in independent institutes because the universities had no mechanism for graduate study and showed little interest. The separate institute utilizing the same professors as were in the university has become a "gimmick" for solving an existing problem.

After five years, the UFRJ-PUC graduate programs now offer new but well-tested means for incorporation of graduate study within a university. Efforts in the future should be aimed at encouraging independent groups (usually the same professors teaching undergraduate work) to move back into the universities with their research and graduate courses.

PUC and UFRJ have developed separate models for use throughout Brazil. At UFRJ the graduate school is an independent unit hiring its own professors. Such a model probably would serve best for the older traditional schools. At PUC graduate and undergraduate work are carried out within a single departmental framework. Professors of a given discipline may teach both undergraduate and graduate work. The PUC model would probably best serve smaller schools with limited finances.

In addition to engineering, graduate work is developing in economics, business and public administration, social sciences, natural sciences, and mathematics. Many of these graduate programs should be encouraged so that better professors will be available in the future. A high priority will be placed on management and administration.

Development efforts in graduate education will be directed toward support for limited, carefully selected programs. Universities should be assisted where appropriate leaders can be found. To this end, the University of Houston, in cooperation with the Brazilian Council of Rectors, will provide guidance and counselling to a nationwide program of graduate education. This program will include identifying subject areas in which graduate education is needed and institutions which show evidence of becoming leaders. It will include a program for the continued improvement of graduate and undergraduate professors.

The program will be based upon bringing together departments in U.S. universities with their counterparts in Brazil. Small fixed amounts will be made available over a three-year period. Further inputs can be judged on the basis of results of the initial operations.

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The program will take place in three stages consisting of the following:

1. Short initial reciprocal visits of principal U.S. and Brazilian professors
2. Training of counterparts and an interim visit of U.S. professors.
3. Visit of U.S. professors to institution at time counterparts return.

The example of the Department of Metallurgy of the University of Florida in cooperation with UFRJ as a part of the AID/UH graduate program serves to illustrate what can be accomplished when continuing interest is taken in a Brazilian department. UH has carried on a small but similar program in which an M.S. in mechanical engineering was introduced at the Instituto Tecnológico of Monterrey.

III. - UNIVERSITY MODERNIZATION

Since 1966, the University of Houston, operating within the frame work of USAID Contract No. Ia-158, has given assistance in administrative modernization to Brazilian universities in cooperation with the Brazilian Council of Rectors. Working through this Council, seminars and short courses have been conducted for administrators in Brazil and in the United States and Mexico. More than 100 Brazilians representing approximately 25 institutions participated in the program during the first 12 months. Short term staff members have studied university management problems in Brazil. In the United States they have conducted research, prepared teaching materials, and assembled syllabi.

The initial period of this program necessarily has been devoted to stimulating interest in university management improvement and identifying institutions and personnel capable of introducing modern administrative practices. While such work is still necessary in many places, the program can now move into a second phase involving more direct consultations between U.S. professionals and their Brazilian counterparts. Increased efforts can now be made toward producing effective administrative manuals. More intensive training programs are needed utilizing both North American and Brazilian institutions.

During CY 1968, the University of Houston will provide approximately 8 man-months of short term staff to advise Brazilian institutions. These are specialists in all fields of university management such as financial systems, registration, academic structures, organization, purchasing, budgeting, campus planning and university development. They advise on preparation of administrative manuals and help conduct seminars.

During the first six months period, seven Brazilian university administrators will visit the University of Houston and Mexican institutions such as the Instituto Tecnológico de Monterrey, to participate in training programs.

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Within the contract period, - - - - - the University of Houston will provide an advisor to the Council of Ractors. He will act as liaison between the Council and the University, helping to identify individuals among the various Brazilian universities who could benefit themselves and their institutions by short course participant training, to set up seminars and schedule the programs of the short term staff members from the University.

All Participant Training will be authorized by USAID issued unfunded PIO/Ps and reimbursement to the Contractor shall be in accordance with Article XXIV of Appendix A - General Provisions.

IV - PERSONNEL

During the 1968 CY the following positions are authorized:

<u>No. of Positions</u>	<u>Specialized Field</u>	<u>Man-Months</u>
	<u>Off-Campus</u>	
1	Civic Engineering	8
3	Electrical Engineering	25
1	Metallurgical Engineering	8
2	Industrial Engineering	9
1	Mechanical Engineering	5
1	Advisor to Conselho	6
Various	Short-Term Staff	9
	<u>On-Campus</u>	
1	Campus Coordinator	9
Various	Secretary	17

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APPENDIX C

CONTRACT BETWEEN THE UNITED STATES OF AMERICA
AND
UNIVERSITY OF HOUSTON

APPROVED BUDGET NO. 6

<u>Line Item</u>	<u>Actual</u>		<u>Total Budget</u>
	<u>Expenditures</u>	<u>Firm Budget</u>	
	<u>Fr: 6- 1-64</u> <u>To: 12-31-67</u>	<u>Fr: 1- 1-68</u> <u>To: 12-31-68</u>	
1. Salaries	\$297,226	\$130,300	\$427,526
2. Allowances	62,371	45,223	107,594
3. Travel and Transportation	82,242	31,425	113,667
4. Other Direct Costs	36,265	18,530	54,795
5. Overhead	81,401	38,256	119,657
6. Equipment	14,671	5,000	19,671
7. Participant Training	<u>3,893</u>	<u>6,394</u>	<u>10,287</u>
GRAND TOTALS	\$578,069	\$275,128	\$853,197

SPECIAL PROVISIONS

1. The firm budget represents the total funds authorized to be expended by the Contractor during the period indicated. Within the grand total of the firm budget the Contractor may increase or decrease any of the line items contained in the firm budget, by not more than 15%, except Line Items Nos. 6 and 7, without obtaining approval of the Contracting Officer.
2. As soon as practicable during the period covered by the firm budget, but not later than three months prior to the end of the firm budget period, the Contractor will submit new budget proposals in three (3) copies to AID/Washington and one (1) copy to the Mission Director. Such proposals will include:
 - a. Data (by line items of this Appendix C) on Contractor's cumulative expenditures from the effective date of this contract through the end of the current firm budget period. At the time of submittal these data will necessarily be a combination of (1) actual expenditures through the latest practicable date in the current firm budget period (show separately) plus (2) estimated expenditures for the remainder of the current firm budget period.
 - b. Proposed firm budget for the year (or other agreed upon period) immediately following the end of the current firm budget period, accompanied by worksheet data in sufficient detail as to justify the firm budget proposal.

1. Amendment No. <u>8</u>	2. Effective Date <u>January 1, 1969</u>	3. Contract No. <u>AID/1a-158</u>	4. Effective Date <u>June 1, 1964</u>
5. CONTRACTOR (Name and Address) <u>University of Houston Houston, Texas 77004</u>		6. Administered by - <u>USAID/ Brazil</u>	
7. PIO/T No. <u>512-263-3-90307 A-2</u> Appropriation No. <u>72-1191010</u> Allotment Symbol - <u>995-50-512-00-69-91</u>		8. Previous PIO/Ts - <u>See Reference 1. below</u>	

9. The above numbered _____ Contract is hereby modified as follows:

1. Reference Block 8; Previous PIO/Ts -
512-N-66-A0-3-30258 -
512-11-660-001-3-40071 -
512-263-3-50391 A-1 -
512-263-3-60363 -
512-263-3-70513 -
512-263-3-80279 -
512-263-3-80424 -

CERTIFIED TRUE COPY

SIGNED A. Luciano

EFFECTIVE DATE January 1, 1969

10. This _____ amendment is entered into pursuant to the authority of the Foreign Assistance Act of 1961, as amended, and Executive Order No. 11223. Except as herein provided, all terms and conditions of the contract referenced in Block #3 remain unchanged and in full force and effect.

11.

Contractor is required to sign this document and return 5 copies to issuing office.

12. CONTRACTOR

UNIVERSITY OF HOUSTON

By: [Signature]

J. T. Bregdan

(Name typed or printed)
Business Manager

and

Title Assistant Treasurer

Date 3/16/70

UNITED STATES OF AMERICA
AGENCY FOR INTERNATIONAL DEVELOPMENT

By: [Signature]

D. CHILDO

(Name typed or printed)

Contracting Officer

Title

Date 3-31-70

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2. Reference Article III - Financing - Delete "\$853,197" and insert in lieu thereof "\$989,489".
3. Reference Article IV - Term - Delete "December 31, 1968" and insert in lieu thereof "December 31, 1969".
4. Reference Appendix A - Standard Provisions; Article XII Nondiscrimination - Delete in its entirety and insert the following in lieu thereof:

"XII - Equal Opportunity

"During the performance of this contract, the Contractor agrees as follows:

1. The Contractor will not discriminate against any employee or applicant for employment because of race, creed, color, or national origin. The Contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, creed, color or national origin. Such action shall include, but not be limited to the following: employment, upgrading, demotion, or transfer; recruitment advertising; layoff or termination; rates of pay or other forms of compensation and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the Contracting Officer setting forth the provisions of this non-discrimination clause.
2. The Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to race, creed, color or national origin.
3. The Contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice, to be provided by the agency Contracting Officer, advising to labor union or workers' representative of the Contractor's commitments under Section 202 of Executive Order No. 11246 of September 24, 1965, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
4. The Contractor will comply with all provisions of Executive Order No. 11246 of September 24, 1965; and of the rules, regulations, and relevant orders of the Secretary of Labor.

5. The Contractor will furnish all information and reports required by Executive Order No. 11246 of September 24, 1965, and by the rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the contracting agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.
 6. In the event of the Contractor's non-compliance with the non-discrimination clauses of this contract or with any of such rules, regulations, or orders, this contract may be cancelled, terminated or suspended in whole or in part and the Contractor may be declared ineligible for further Government contracts in accordance with procedures authorized in Executive Order No. 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order No. 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.
 7. The Contractor will include the provisions of Paragraphs (1) through (7) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to Section 204 of Executive Order No. 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The Contractor will take such action with respect to any subcontract or purchase order as the contracting agency may direct as a means of enforcing such provisions including sanctions for non-compliance: Provided, however, That in the event the Contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the contracting agency, the Contractor may request the United States to enter into such litigation to protect the interests of the United States."
5. Reference Appendix B - Operational Plan - Delete in its entirety and substitute the attached Appendix B - Operational Plan in lieu thereof.
-

6. Reference Appendix C - Approved Budget No. 6 - Delete in its entirety and substitute the attached Appendix C - Approved Budget No. 7 in lieu thereof.
7. Reference Appendix D - Special Provisions; Article IV. - Method of Payment; 1. Federal Reserve Letter of Credit - Delete "\$818,917" and insert in lieu thereof "\$954,489".
8. Reference Appendix D - Special Provisions; II Logistic Support - Delete "local transportation".
9. Reference Appendix D - Special Provisions; III Language Training - Delete in its entirety and insert the following in lieu thereof:

"III Orientation and Language Training

Regular employees shall receive a maximum of two weeks orientation at AID/Washington before travel overseas. The dates of orientation shall be selected by the Contractor, as approved by the Contracting Officer in writing, from the Schedule provided by A.I.D.

As either provided in writing or set forth in the Contract Schedule, the following options may also be authorized by the Contracting Officer in connection with orientation of the Contractor's employees:

- (a) Selected orientation
- (b) Language training
- (c) Orientation for regular employee's dependents at contract expense
- (d) Contractor sponsored orientation program
- (e) Waiver of orientation for individual Contractor employees

Transportation costs and travel allowances of the regular employee will be reimbursed, pursuant to the provisions of the clause of this contract entitled "Travel and Transportation Expenses", if the orientation is more than 50 miles from the regular employee's residence. Allowable salary costs during the period of orientation are also reimbursable.

Contractor employee participation in AID/Washington orientation does not in any way relieve the Contractor of his responsibility for assuring that the employee is properly oriented in all matters related to the administrative, logistical, and technical aspects of his movement to, and tour of duty in, the country of assignment as provided for elsewhere in this contract."

10. Reference Appendix D - Special Provisions; VI Non-Discrimination - Delete in its entirety.

11. Reference Appendix D - Special Provisions - Add the following new clauses:

"VI Local Currency

Upon request the Contractor will be furnished an advance of local currency from the GOB Trust Account to defray the following costs:

1. Temporary Lodging
2. Quarters Allowance
3. Education Allowances
4. Per Diem in lieu of subsistence in the Cooperating Country
5. Travel and Transportation in the Cooperating Country
6. International Travel and Transportation; except the following which are reimbursable in U.S. Dollars:
 - (a) Packing and Unpacking in the U.S.
 - (b) Transportation of HHE and Vehicles from point of origin to port of embarkation, and from port of entry to destination in the U.S.

Local currency transactions will be in accordance with the written instructions of the USAID Director. This clause shall become effective September 1, 1969."

"VII. Salary Payments to Third Country and Local Nationals

Salaries and benefits paid to Cooperating Country and third country nationals who are hired in the United States or a third country shall be subject to the written approval of the USAID Director. Such salaries and benefits shall be established in consideration of those prevailing locally (or in the country of origin for third country nationals) for comparable work unless there are compelling reasons to make exceptions."

"VIII. Payment of Third Country and Local Nationals in Local Currency

All payments to third country and local nationals shall be made in the local currency of the country of assignment, except where exempted in writing by the USAID Director."

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APPENDIX B

Operational Plan

I - INTRODUCTION

The University of Houston/AID Contract No. AID/1a-158 has consisted of two main activities: (1) Development of graduate work in engineering at the Universidade Federal do Rio de Janeiro (COPEE-UFRJ) and the Pontificia Universidade Catolica (IUC) of Rio de Janeiro, and (2) Consulting assistance to the Conselho de Reitores das Universidades Brasileiras in the field of administration and management. The latter is now being continued under separate contract with the Conselho de Reitores. The following operational plan continues the Phase-Out activity begun in 1967.

II - UNIVERSITY GRADUATE ENGINEERING PROGRAM (1969-70)

The University Graduate Engineering Program has accomplished its chief objectives in that permanent graduate schools with national recognition have been established at FUC and UFRJ. Efforts directed toward thesis research and supervision, curriculum development, teaching methodology, and educational standards have produced visible results. An organizational structure involving full-time instructors, student advisors, academic control by committees of professors, and adequate financial control is emerging. Expanding enrollments at UFRJ and FUC together with recognition by MEC, BNDE, Petrobras, CAPES, and CNP of the value of post-graduate work represent significant accomplishments. Almost half of the 1967 enrollment at UFRJ represents engineering teachers from all over Brazil. Many young men trained in the FUC-UFRJ graduate programs are spread throughout the country, resulting in an important multiplier effect.

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In 1963 UFM had ten graduate students in engineering. In 1968 there were 176 full-time graduate engineering students and 99 part-time at COPPE-UFRJ. In addition FUC had 60 full-time graduate engineering students. The contractor will assist UFRJ's Coordination Center for Postgraduate Programs in Engineering (COPE) to (a) establish academic interchanges with other engineering institutions, (b) provide teaching and limited research assistance to their postgraduate engineering programs and (c) plan, organize and assist in postgraduate seminars in such fields as industrial, mechanical, chemical and electrical engineering and in specialized topics relating to the improvement of engineering school administration. The U. S. technicians assigned to this project will be phased out by December 31, 1970.

The University of Houston will reduce its resident advisors in graduate engineering from six (6) in 1967 to four (4) in 1969 and three (3) in 1970. It will provide 13 man-months of short-term staff members in fields mutually selected and agreed upon by COPPE and USAID/B. It is anticipated that grant technical assistance under this contract will terminate (except for participants) by 12/31/70.

III - SHORT COURSES IN ENGINEERING AND SCIENCE

A continuing process of upgrading and maintaining competence of engineering professors including those trained previously in the graduate program is important to the development of higher education. Short courses given on a regional basis would complement the graduate work which is producing increasingly larger groups of scientists and engineers. Short courses in teaching methodology, new developments, and laboratory techniques would be particularly valuable.

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Beginning in 1969, the University of Houston will conduct several short courses of four to six weeks in length. University of Houston input will consist of a single consultant, or occasionally two, participating with Brazilians in preparing and conducting each short course. The courses will require visual aids and other teaching materials in Portuguese, some of which must be prepared in Houston, drawing upon and adapting existing materials found successful in U. S. programs of this type.

IV - PERSONNEL

During the 1969 CY the following positions are authorized:

<u>No. of Positions</u>	<u>Specialized Field</u>	<u>Man-Months</u>
	<u>Off-Campus</u>	
1	Chemical Engineering	7
2	Electrical Engineering	10
2	Industrial Engineering	23
1	Mechanical Engineering	11
6	Short-term Staff Members	6
	<u>On-Campus</u>	
1	Campus Coordinator	6
1	Secretarial	12

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APPENDIX C

CONTRACT BETWEEN THE UNITED STATES OF AMERICA
AND
UNIVERSITY OF HOUSTON

APPROVED BUDGET NO. 7

<u>Line Item</u>	<u>Actual</u>		
	<u>Expenditures</u>	<u>Firm Budget</u>	<u>Total Budget</u>
	Fr: 6/1/64 To: 12/31/68	Fr: 1/1/69 To: 12/31/69	Fr: 6/1/64 To: 12/31/69
1. Salaries	\$394,115	\$124,908	\$519,023
2. Allowances	77,031	16,361	93,392
3. Travel and Transportation	106,304	39,250	145,554
4. Other Direct Costs	47,416	8,449	55,865
5. Overhead	113,025	37,446	150,471
6. Equipment	16,159	-0-	16,159
7. Participant Training	9,025	-0-	9,025
	<u>\$763,075</u>	<u>\$226,414</u>	<u>\$989,489</u>

SPECIAL PROVISIONS

1. The firm budget represents the total funds authorized to be expended by the Contractor during the period indicated. Within the grand total of the firm budget the Contractor may increase or decrease any of the line items contained in the firm budget, by not more than 15%, except Line Items Nos. 6 and 7, without obtaining approval of the Contracting Officer.
2. As soon as practicable during the period covered by the firm budget, but not later than three months prior to the end of the firm budget period, the Contractor will submit new budget proposals in three (3) copies to AID/Washington and one (1) copy to the Mission Director. Such proposals will include:
 - a. Data (by line items of this Appendix C) on Contractor's cumulative expenditures from the effective date of this contract through the end of the current firm budget period. At the time of submittal these data will necessarily be a combination of (1) actual expenditures through the latest practicable date in the current firm budget period (show separately) plus (2) estimated expenditures for the remainder of the current firm budget period.
 - b. Proposed firm budget for the year (or other agreed upon period) immediately following the end of the current firm budget period, accompanied by worksheet data in sufficient detail as to justify the firm budget proposal.

MODIFICATION OF CONTRACT

PAGE 1 of 3

Amendment No. 9	2. Effective Date January 1, 1970	3. Contract No. AID/1a-158	4. Effective Date June 1, 1964
5. CONTRACTOR (Name and Address) University of Houston Houston, Texas 77004		6. Administered by - USAID/Brazil	
7. PIO/T No. 512-263-3-00083 A-1 Appropriation No. 72-1101010 Allotment Symbol 095-50-512-CO-69-01		8. Previous PIO/Ts - See Reference 1. below	

9. The above numbered Contract is hereby modified as follows:

1. Reference Block 8; Previous PIO/Ts -
 - 512-N-66-AO-3-30258
 - 512-11-660-CO1-3-40071
 - 512-263-3-50391 A-1
 - 512-263-3-60363
 - 512-263-3-70513
 - 512-263-3-80279
 - 512-263-3-80424
 - 512-263-3-90307 A-2

CERTIFIED TRUE COPY
 SIGNED A. Luciani
 EFFECTIVE DATE 1/1/70

10. This amendment is entered into pursuant to the authority of the Foreign Assistance Act of 1961, as amended, and Executive Order No. 11223. Except as herein provided, all terms and conditions of the contract referenced in Block #3 remain unchanged and in full force and effect.

11. Contractor is required to sign this document and return 5 copies to issuing office.

12. CONTRACTOR
 UNIVERSITY OF HOUSTON
 By: [Signature]

 (Name typed or printed)
 Title _____
 Date 5/29/70

UNITED STATES OF AMERICA
 AGENCY FOR INTERNATIONAL DEVELOPMENT
 By: [Signature]

 D. Chiddo
 (Name typed or printed)
 Title Contracting Officer
 Date 6-2-70

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- 2. Reference Article III - Financing - Delete "\$853,197" and insert in lieu thereof "\$989,489".
 + 136,292
- 3. Reference Article IV - Term - Delete "December 31, 1969" and insert in lieu thereof "December 31, 1970".
- 4. Reference Appendix A - Standard Provisions; XIII. Equal Opportunity 1. - Insert the word "sex" after the word "color".
- 5. Reference Appendix B - Operational Plan; IV Personnel - Delete in its entirety and insert the following in lieu thereof:

"IV Personnel

During the 1970 CY the following positions are authorized:

<u>No. of Position</u>	<u>Specialized Field</u>	<u>Man-Months</u>
	<u>Off-Campus</u>	
1	Chemical Engineering	7
1	Mechanical Engineering	10
2	Industrial Engineering	19
Various	Short Term Staff	19.5
	<u>On-Campus</u>	
1	Campus Coordinator	6
1	Secretarial	12 "

- 6. Reference Appendix C - Approved Budget No. 7 - Delete in its entirety and substitute the attached Appendix C - Approved Budget No. 8 therefor.
- 7. Reference Appendix D - Special Provisions; Article IV Method of Payment; 1. Federal Reserve Letter of Credit - Delete "\$954,489" and insert in lieu thereof "\$1,116,530".

APPENDIX C
APPROVED BUDGET NO. 8

<u>Line Item No.</u>	<u>Actual Expenditures</u> FR: 6/1/64 TO: 12/31/69	<u>Firm Budget</u> FR: 1/1/70 TO: 12/31/70	<u>Total Budget</u> FR: 6/1/64 TO: 12/31/70
1. Salaries	\$519,023	\$111,880	\$630,903
2. Allowances	93,392	150	93,542
3. Travel & Transportation	145,554	3,450	149,004
4. Other Direct Costs	55,865	9,295	65,160
5. Overhead	150,471	31,266	181,737
6. Equipment	16,159	-0-	16,159
7. Participant Training	9,025	6,000	15,025
TOTAL	<u>\$989,489</u>	<u>\$162,041</u>	<u>\$1,151,530</u>

SPECIAL PROVISIONS

1. The firm budget represents the total funds authorized to be expended by the Contractor during the period indicated. Within the grand total of the firm budget the Contractor may increase or decrease any of the line items contained in the firm budget, by not more than 15%, except Line Items Nos. 6 and 7, without obtaining approval of the Contracting Officer.
2. As soon as practicable during the period covered by the firm budget, but not later than three months prior to the end of the firm budget period, the Contractor will submit new budget proposals in three (3) copies to AID/Washington and one (1) copy to the Mission Director. Such proposals will include:
 - a. Data (by line items of this Appendix C) on Contractor's cumulative expenditures from the effective date of this contract through the end of the current firm budget period. At the time of submittal these data will necessarily be a combination of (1) actual expenditures through the latest practicable date in the current firm budget period (show separately) plus (2) estimated expenditures for the remainder of the current firm budget period.
 - b. Proposed firm budget for the year (or other agreed upon period) immediately following the end of the end of the current firm budget period, accompanied by worksheet data in sufficient detail as to justify the firm budget proposal.

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MODIFICATION OF CONTRACT

1. Amendment No. 10	2. Effective Date January 1, 1970	3. Contract No. AID/1a-158	4. Effective Date June 1, 1964
5. CONTRACTOR (Name and Address) University of Houston Houston, Texas 77004		6. Administered by - USAID/ Brazil	
7. PIO/T No. Appropriation No. N.A. Allotment Symbol -	8. Previous PIO/Ts - N.A. CERTIFIED TRUE COPY SIGNED <i>A. Lucas</i> EFFECTIVE DATE <i>1/1/70</i>		

9. The above numbered Contract is hereby modified as follows:

The purpose of this modification is to correct a typographical error appearing in Amendment No. 9.

1. Reference Article III - Financing - Delete "\$989,489" and insert in lieu thereof "\$1,151,530".

10. This amendment is entered into pursuant to the authority of the Foreign Assistance Act of 1961, as amended, and Executive Order No. 11223. Except as herein provided, all terms and conditions of the contract referenced in Block #3 remain unchanged and in full force and effect.

11.

Contractor is required to sign this document and return 5 copies to issuing office.

12. CONTRACTOR
UNIVERSITY OF HOUSTON

BY: *[Signature]*

(Name typed or printed)

Title CONTROLLER

Date 7-30-70

UNITED STATES OF AMERICA
AGENCY FOR INTERNATIONAL DEVELOPMENT

By: *[Signature]*

D. Chiddo
(Name typed or printed)

Title Contracting Officer

Date 8-4-70

1. Amendment No. 11	2. Effective Date June 1, 1964	3. Contract No. AID/1a-158	4. Effective Date June 1, 1964
5. CONTRACTOR (Name and Address) University of Houston Houston, Texas 77004		6. Administered by - CERTIFIED TRUE COPY USAID/Brazil SIGNED <i>L. Luciani</i> 6-1-64 EFFECTIVE DATE.....	
7. PIO/T No. N.A. Appropriation No. Allotment Symbol - PROC/OSNB's memo of 5/22/72		8. Previous PIO/Ts - See Reference No. 1. below	

9. The above numbered Contract is hereby modified as follows:

- 1. Reference Block 8: Previous PIO/Ts -
 - 512-N-66-AO-3-30258
 - 512-11-660-001-3-40071
 - 512-263-3-50391 A-1
 - 512-263-3-60363
 - 512-263-3-70513
 - 512-263-3-80279
 - 512-263-3-80424
 - 512-263-3-90307 A-2
 - 512-263-3-00083 A-1

(continued page 2)

10. This amendment is entered into pursuant to the authority of the Foreign Assistance Act of 1961, as amended, and Executive Order No. 11223. Except as herein provided, all terms and conditions of the contract referenced in Block #3 remain unchanged and in full force and effect.

11. Contractor is required to sign this document and return 5 copies to issuing office.

<p>12. CONTRACTOR</p> <p>UNIVERSITY OF HOUSTON</p> <p>By: <i>J. T. Brogdon</i></p> <p>J. T. Brogdon</p> <p>(Name typed or printed) Assistant Vice President and Business Manager</p> <p>Title _____</p> <p>Date <u>AUG - 4 '72</u></p>	<p>UNITED STATES OF AMERICA</p> <p>AGENCY FOR INTERNATIONAL DEVELOPMENT</p> <p>By: <i>D. Chiddo</i></p> <p>D. Chiddo</p> <p>(Name typed or printed)</p> <p>Title <u>Contracting Officer</u></p> <p>Date <u>8-14-72</u></p>
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- 2. Reference Appendix D, Article I - Overhead - Delete in its entirety and in lieu thereof insert the following:

"I. Overhead

Pursuant to Clause XXII Indirect Costs (Overhead) of Appendix A, the following final rates are established for the periods indicated:

Period	Rates			
	With Participants		Without Participants	
	On-Campus	Off-Campus	On-Campus	Off-Campus
6/1/64-8/31/64			23.75	
9/1/64-8/31/65			47.37	29.02
9/1/65-8/31/66			46.69	22.79
9/1/66-8/31/67	41.58	22.89		
9/1/67-8/31/68	42.14	25.25		
9/1/68-8/31/69			57.60	33.35
9/1/69-12/31/70			50.08	31.16

Distribution Base:

- (1) For the period from 6/1/64 through 8/31/64:
Total direct expenditures, net of capital expenditures.
- (2) For the period from 9/1/64 and forward:
Direct salaries and wages including allowances for vacation, holiday and sick leave.

Treatment of Fringe Benefits:

Fringe benefits applicable to direct salaries and wages are treated as direct costs with the exception of state retirement contribution which are consistently treated as indirect costs."

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