

SUPPLEMENTAL AGREEMENT
BETWEEN
VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY
AND
THE U. S. NUCLEAR REGULATORY COMMISSION

THIS SUPPLEMENTAL AGREEMENT, effective the 1st day of July, 1979, by and between the UNITED STATES OF AMERICA (hereinafter referred to as the "Government"), as represented by the UNITED STATES NUCLEAR REGULATORY COMMISSION (hereinafter referred to as the "Commission") and VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY (hereinafter referred to as the "Contractor"),

WITNESSETH THAT:

WHEREAS, the parties desire to modify Contract No. NRC-04-77-134 as hereinafter provided, and this supplemental agreement is authorized by law, including the Energy Reorganization Act of 1974, as amended, and the Atomic Energy Act of 1954, as amended.

NOW, THEREFORE, said Contract is hereby modified as follows:

1. Appendix A, attached to this supplemental agreement and made a part hereof, provides for the research to be performed by the Contractor during the contract period specified therein.
2. In Article II - The Period of Performance, the date "June 30, 1980" is substituted for the date "June 30, 1979".
3. In Article III - Consideration, the sum "\$202,633.00" is substituted for the sum "\$141,973.00".

IN WITNESS WHEREOF, the parties have executed this document.

UNITED STATES OF AMERICA
BY: [Signature]
Kellogg V. Morton, Chief
Research Contracts Branch
(title)

Nuclear Regulatory Commission
BY: [Signature]
A. H. Krebs, Vice President
for Administration
(title)

Virginia Polytechnic Institute
and State University

I, Eleanor A. Woodall, certify that I am the
(attester)
Clerk of the Board of Visitors of the Contractor named
(title)

under this document; that A. H. Krebs
(signatory)

who signed this document on behalf of said Contractor was then
Vice President for Administration of said Contractor; that
this document was duly signed for and on behalf of said Contractor by
authority of its governing body and is within the scope of its legal
powers.

IN WITNESS WHEREOF, I have hereunto affixed my hand and the seal of
said Contractor.

Eleanor A. Woodall

(SEAL)

CONTRACTOR: VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY

APPENDIX A

For the Contract period July 1, 1979 through June 30, 1980

Article I RESEARCH TO BE PERFORMED BY CONTRACTOR

(a) The unclassified scope of work under this contract entitled, "Central Virginia Regional Seismic Network" is as follows:

1. Maintain and operate an eighteen station seismograph network.
2. Conduct velocity studies based on two extensive refraction profiles in central Virginia and Giles County, Va., including the completion of a computer technique to remove the curvature effect from the refracted wave front.
3. Determine the current hypocenters and relocate historic shocks using the joint hypocenter determination technique developed by Dewey of USGS.
4. Correlate resulting seismicity with local and regional geology.

Publish all phases, locations, magnitudes and fault plane results in the bi-annual Southeastern United States Seismograph Network Bulletin.

(b) The Principal Investigator expects to devote the following approximate amount(s) of time to the contract work:

G. A. Bollinger: 15% of his time for 12 months

ARTICLE A-II WAYS AND MEANS OF PERFORMANCE

(a) Items for which support will be provided as indicated in A-III, below

- | | |
|---|--------------|
| (1) Salaries and Wages | \$ 27,042.00 |
| (2) Equipment to be purchased or fabricated by the Contractor | \$ 2,000.00 |

Over \$1,000.00

General Mobile Radio Service (Class A)

- | | |
|--------------|-------------|
| (3) Travel | |
| (i) Domestic | \$ 2,050.00 |
| (ii) Foreign | \$ -0- |

- (4) Other direct costs including fringe benefits
- (5) Indirect costs based on a predetermined rate of 35 percent applicable to salaries and wages.

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- (b) Items, if any, significant to the performance of this contract, but excluded from computation of Support Cost and from consideration in proportioning costs: None
- (c) Time or effort of Principal Investigator including indirect costs and fringe benefits contributed by Contractor but excluded from computation of Support Cost and from consideration in proportioning costs:

G. A. Bollinger: 15% of his time for 12 months

Article A-III

The total estimated cost of items under A-II(a) above for the contract period stated in this Appendix A is \$60,660.00; the Commission will pay 100 percent of the actual costs of these items incurred during the contract period stated in this Appendix A, subject to the provisions of Article III and Article B-XXVIII. The estimated NRC Support Cost for the contract period stated in this Appendix A is \$60,660.00.

The estimated NRC Support Cost is funded as follows:

- (a) Estimated unexpended balance from prior period(s) \$ -0-
- (b) New funds for the current period(s) \$ 60,660.00
- (c) The new funds being added in A-III(b) constitute the basis for advance payments provided under Article B-X.