

1. AMENDMENT/MODIFICATION NO. **FOUR (4)** 2. EFFECTIVE DATE **7/31/81** 3. REQUISITION/PURCHASE REQUEST NO. **RES-78-228 dtd. 5/14/81** 4. PROJECT NO. (If applicable)

5. ISSUED BY CODE 6. ADMINISTERED BY (If other than block 5) CODE

U. S. Nuclear Regulatory Commission
 Division of Contracts
 Washington, DC 20555

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

State of Iowa
 Iowa Geological Survey
 123 North Capitol Street
 Iowa City, IA 52242

8. AMENDMENT OF SOLICITATION NO. _____ DATED _____ (See block 9)

MODIFICATION OF CONTRACT/ORDER NO. **NRC-04-78-228** DATED **5/1/78** (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers is extended, is not extended. Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods: (a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10. ACCOUNTING AND APPROPRIATION DATA (If required)

B&R NO. **60-19-02-10** FIN NO. **B6312** Increase - **\$78,966.00**

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) This Change Order is issued pursuant to _____ The changes set forth in block 12 are made to the above numbered contract/order.

(b) The above numbered contract/order is modified to reflect the administrative changes (such as changes in issuing office, appropriation data, etc.) set forth in block 12

(c) This Supplemental Agreement is entered into pursuant to authority of **mutual agreement of the parties** It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

The following changes are hereby made to the contract:

ARTICLE III - PERIOD OF PERFORMANCE, the period is hereby extended for an additional year, through July 31, 1982.

ARTICLE II - STATEMENT OF WORK

The workscope for the third year shall include the following:

1. Continue gravity data collection.
2. Continue operation of 5-station microearthquake monitoring array.
3. Continue seismic reflection/refraction profiling.
4. Attempt to utilize local quarry blasts for seismic investigations.

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN **4** COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR BY Donald L. Koch (Signature of person authorized to sign)

17. UNITED STATES OF AMERICA BY Mona A. Tolbert (Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print) **Director & State Geologist**
 8107060510 810624
 PDR CONTR

16. DATE SIGNED **6/15/81**

18. NAME OF CONTRACTING OFFICER (Type or print) **Kellogg V. Morton**

5. Continue data collection for Hertha Limestone structure contour map.
6. Prepare models based on gravity, magnetic, and seismic refraction data.

ARTICLE IV - TOTAL ESTIMATED COST AND OBLIGATION OF FUNDS

Paragraph 1 Total Estimated Cost

The total estimated cost of the work to be performed under this contract is increased by \$94,183.00 from "\$298,310.00" to "\$392,493.00."

The total estimated cost to the Commission is increased by \$78,966.00 (added by this modification) from "\$236,713.00" to "\$315,679.00."

The total estimated cost to the State of Iowa is increased by \$17,217.00 from "\$61,597.00" to "\$76,814.00."

Paragraph 2 Obligation Of Funds

The amount presently obligated by the Commission with respect to this contract is increased by \$78,966.00 from "\$236,713.00" to "\$315,679.00."