

1. CONTRACT (Proc. Inst. Ident.) NO: **NRC-04-79-213**  
 2. EFFECTIVE DATE: **9/15/79**  
 3. REQUISITION/PURCHASE REQUEST PROJECT NO.: **RES-79-213**  
 4. CERTIFIED FOR NATIONAL DEFENSE UNDER DDPA REG. 2 AND OR DMS REG. 1.  
 RECEIVED BY: **U. S. Nuclear Regulatory Commission**  
 Division of Contracts  
 Washington, D.C. 20555

8. CONTRACTOR NAME AND ADDRESS: **State of Arkansas**  
**Arkansas Geological Commission**  
**3815 West Roosevelt Road**  
**Little Rock, AR 72204**  
 9. DISCOUNT FOR PROMPT PAYMENT: **N/A**  
 10. SUBMIT INVOICES (4 copies unless otherwise specified) TO ADDRESS SHOWN IN BLOCK **12**

11. SHIP TO/MARK FOR: **U. S. Nuclear Regulatory Commission**  
**ATTN: Director, Office of Nuclear**  
**Regulatory Research**  
**Washington, D.C. 20555**  
 12. PAYMENT WILL BE MADE BY: **U. S. Nuclear Regulatory Commission**  
**Office of the Controller**  
**Washington, D.C. 20555**

13. THIS PROCUREMENT WAS  ADVERTISED,  NEGOTIATED, PURSUANT TO:  
 10 U.S.C. 2304 (a)(1)  41 U.S.C. 252 (c)(1)

14. ACCOUNTING AND APPROPRIATION DATA  
**B&R No. 60-19-10-06** **Fin. No. B6790** **\$30,000.00**

15. ITEM NO	16. SUPPLIES/SERVICES	17. QUANTITY	18. UNIT	19. UNIT PRICE	20. AMOUNT
	A RESEARCH STUDY ENTITLED, "AEROMAGNETIC SURVEY OF PARTS OF NORTHEAST ARKANSAS"			Estimate of Cost	\$30,000.00

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21. ESTIMATED TOTAL AMOUNT OF CONTRACT \$ **30,000.00**

22.  CONTRACTOR'S NEGOTIATED AGREEMENT (Contractor is required to sign this document and return 3 copies to issuing office.) Contractor agrees to furnish and deliver all items or perform all the services set forth or otherwise identified above and on any continuation sheets for the consideration stated herein. The rights and obligations of the parties to this contract shall be subject to and governed by the following documents: (a) this award/contract, (b) the solicitation, if any, and (c) such provisions, representations, certifications, and specifications, as are attached or incorporated by reference herein. (Attachments are listed herein.)  
 26.  AWARD (Contractor is not required to sign this document.) Your offer on Solicitation Number \_\_\_\_\_, including the additions or changes made by you which additions or changes are set forth in full above, is hereby accepted as to the items listed above and on any continuation sheets. This award consummates the contract which consists of the following documents: (a) the Government's solicitation and your offer, and (b) this award/contract. No further contractual document is necessary.

23. NAME OF CONTRACTOR: **Norman F. Williams**  
 BY: *[Signature]*  
 27. UNITED STATES OF AMERICA  
 BY: *[Signature]*  
 (Signature of Contracting Officer)

24. NAME AND TITLE OF SIGNER (Type or print): **Norman F. Williams**  
**State Geologist**  
 25. DATE SIGNED: **9/14/79**  
 28. NAME OF CONTRACTING OFFICER (Type or print): **Keillogg V. Morton**  
 29. DATE SIGNED: **9-11-79**

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SCOPE OF WORK, TERMS AND CONDITIONS

ARTICLE I - OBJECTIVE

The objective of this research project shall be to develop information and data of interest to the U. S. Nuclear Regulatory Commission in regard to the licensing and siting of nuclear facilities within the State of Arkansas.

ARTICLE II - STATEMENT OF WORK

1. Scope of Technical Work. The Contractor shall furnish all personnel, materials, equipment, facilities, and services (except as may be furnished by the Government) necessary to perform, and shall therewith perform the following technical scope of work:

The Contractor shall perform the research project proposed in its proposal entitled "Aeromagnetic Survey of Parts of Northeast Arkansas," which proposal is incorporated by reference and made a part hereof. In the course of the contract work, the Contractor shall perform an aeromagnetic survey of parts of Northeast Arkansas and develop a series of reproducible total field magnetic intensity maps of the area surveyed.

Specifically, in the survey the Arkansas Geological Commission shall acquire high resolution total field aeromagnetic coverage compatible with existing data. The flight line spacing shall be on one mile traverses at an altitude of approximately 1,000 feet above the average terrain with the total coverage to be approximately 5,900 square miles. The interpretation of the aeromagnetic maps shall be made as to a depth to magnetic basement, definition of magnetic trends and their relation to observed surface features, and estimates of the magnetic susceptibility of the magnetic basement rocks. The Contractor shall combine the survey results with existing and scheduled surveys within a 200 mile radius of New Madrid, Missouri in order to provide a better understanding of the tectonic settling of the inclusive active seismic area.

2. Emphasis. The Contractor shall comply with any Contracting Officer requests relating to the emphasis or relative emphasis to be placed on various aspects of the said work, or such other matters pertaining to said work as the requests are of concern to the Commission.
3. Standards of Performance. The Contractor shall perform said work by utilization of its best efforts and know-how and its performance shall be accomplished in a workmanlike manner by qualified, careful, and efficient personnel; also, the Contractor's said work shall, as a minimum, accord good pertinent scientific and technical procedures, practices, and standards.
4. Technical Reports. The Contractor shall prepare and submit to the Commission and/or distribute, as directed by the Contracting Officer, such reports concerning technical aspects of said work in such quantity and form (including detail), and at such times, as may be specified by the Contracting Officer.

The known reporting requirements at this time include: \_\_\_\_\_

- a. Quarterly Progress Reports (due one month after close of calendar quarter)

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- b. Topical Reports (as appropriate)
- c. Annual Reports (due August 1)
- d. Final Report (upon completion of the contract work)

Unless otherwise directed, all reports are to be submitted in six (6) copies with a reproducible master.

- 5. Incidental Work. In addition to performing the work described in paragraphs 1. and 4. above, the Contractor shall perform the incidental contract activities provided for under other articles of this contract and, in connection with the close-out of this contract upon termination, expiration, and/or completion of the work described in paragraph 4, above, plus said activities covered by other articles and, subject to the approval of the Contracting Officer, shall perform such other close-out work as may be appropriate.
- 6. Subcontracts. The Contractor shall, when directed by the Commission, and may, but only when authorized by the Contracting Officer, as set forth in the General Provisions, enter into subcontracts for the performance of any part of the work under this Article.

#### ARTICLE III - PERIOD OF PERFORMANCE

The period of performance of the work described in paragraph 1 of Article II hereof shall commence on September 15, 1979, and shall continue up to and including completion thereof, estimated to occur on or about September 30, 1980; provided, however, that said period of performance may be extended for additional periods by written agreement of the parties.

#### ARTICLE IV - TOTAL ESTIMATED COST AND OBLIGATION OF FUNDS

- 1. Total Estimated Cost. The total estimated cost to the Government for the performance of this contract for the purpose of Clause 4 of the General Provisions entitled "Limitation of Costs" is \$30,000.00.
- 2. Obligation of Funds. The amount presently obligated by the Government with respect to this contract is \$30,000.00. Such amount may be increased unilaterally by the Commission by written notice to the Contractor and may be increased or decreased by written agreement of the parties (whether or not by formal modification of this contract).

#### ARTICLE V - ALLOWABLE COST AND PAYMENT

The allowable cost of performing the work under this contract shall be the costs and expenses (less applicable income and other credits) that are actually chargeable either as directly incident or as allocable through appropriate distribution or apportionment to the performance of the contract work in accordance with Clause 5 of the General Provisions entitled "Allowable Cost, Fee, and Payment" and as determined to be allowable in accordance with Federal Procurement Regulation 1-15.7.

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ARTICLE VI - TECHNICAL DIRECTION AND AUTHORIZED REPRESENTATIVE

The Contracting Officer may designate an authorized representative under this contract for the purpose of assuring that the services required under the contract are ordered and delivered in accordance therewith. Any technical instructions issued shall be signed by the authorized representative of the NRC. As used herein, technical instructions are instructions to the Contractor which provide details, suggest possible lines of inquiry, or otherwise complete the general scope of work as set forth herein, and shall not constitute new assignments of work or changes of such a nature as to justify an adjustment in fixed fee, cost or performance schedule. Such representative as may be appointed will be specifically designated in writing to the Contractor from the Contracting Officer, including the extent of such designee's authority.

ARTICLE VII - GENERAL PROVISIONS

The General Provisions of this contract consist of the "Cost Type Research and Development Contracts With Concerns Other Than Educational Institutions, Appendix A," dated February 15, 1978, attached hereto, and by this reference made a part hereof except as follows:

1. Clause 3, entitled "Limitation of Funds" is deleted in its entirety.
2. In Clause 5, entitled "Allowable Cost, Fixed Fee, and Payment" the following changes are effected:
  - a. In subparagraph (a)(1)(i) delete "Subpart 1.15.2" and "41 CFR 1-15.2" and substitute in lieu thereof "Subpart 1.15.7" and "41 CFR 1-15.7," respectively.
  - b. Delete any reference to "fixed fee."
3. Clause 23, entitled "Nuclear Hazards Indemnity - Product Liability" is deleted in its entirety.
4. Clause 37, entitled "Cost Accounting Standards" is deleted in its entirety.
5. Clause 38, entitled "Administration of Cost Accounting Standards" is deleted in its entirety.

ARTICLE VIII - KEY PERSONNEL

The key personnel referred to in the aforementioned General Provisions is Mr. Norman F. Williams.

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