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| 1. AMENDMENT/MODIFICATION NO. One (1) | 2. EFFECTIVE DATE AUG 3 1982 | 3. REQUISITION/PURCHASE REQUEST NO. RFPA-NMS-82-028-04 dtd 3/2/82 | 4. PROJECT NO. (If applicable) PDR |
| 5. ISSUED BY U.S. Nuclear Regulatory Commission Division of Contracts Washington, DC 20555 | 6. ADMINISTERED BY (If other than block 5) | CODE | |

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| 7. CONTRACTOR NAME AND ADDRESS International Engineering Company, Inc. 180 Howard Street San Francisco, CA 94105 | 8. AMENDMENT OF SOLICITATION NO. DATED _____ (See block 9) |
| 8. MODIFICATION OF CONTRACT/ORDER NO. <input checked="" type="checkbox"/> NRC-02-82-028-04 DATED 1/7/82 (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.

Offers 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)

N/A

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 paying office, appropriation data, etc.) set forth in block 12.

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

12. DESCRIPTION OF AMENDMENT/MODIFICATION

The purpose of this modification is to incorporate the contractor's provision of microfiche copies of interim and final reports. Therefore, Article II - Services to be Ordered, Paragraph E. Reporting Requirements, is hereby modified as follows:

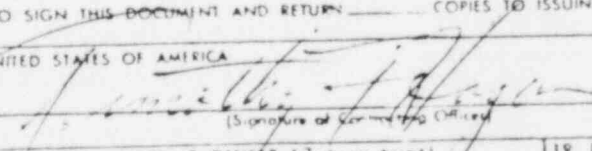
The following additional reporting requirement is hereby incorporated:

"Microfiche Copies of Reports

In addition to the above-described paper copies of all reports, the Contractor shall provide microfiche copies of all interim and final reports, and such microfiche shall conform to the following specifications:

1. Microfiche containing source documentation shall conform to the NMA Type 1 format (ANSI/NMA MS.5) consisting of 98 frames arranged in 7 rows and 14 columns.
2. The reduction ratio shall be 24:1 for all microfiche.

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.

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| 13. <input checked="" type="checkbox"/> CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT | <input type="checkbox"/> CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN _____ COPIES TO ISSUING OFFICE |
| 14. NAME OF CONTRACTOR/OFFEROR BY _____ (Signature of person authorized to sign) | 17. UNITED STATES OF AMERICA BY  (Signature of Contracting Officer) |
| 15. VALUE, UNIT TITLE OR OTHER IDENTIFYING INFO. 8209010272 820803 PDR CONTR NRC-02-82-028 PDR | 16. DATE SIGNED |
| 18. NAME OF CONTRACTING OFFICER (Type or Print) Timothy F. Hagan | 19. DATE SIGNED 8/5/82 |

3. The microfiche shall be standard 148mm x 105mm.
4. The microfiche shall be one silver-halide master and one diazo placed in individual acid free envelopes.
5. Diazo duplicates may be either blue/black or black.
6. The microfiche shall be titled in the following manner:

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|--------------|-----------------|------|
| FIN No. | Title of Report | Date |
| Contract No. | | |
| NUREG/CR No. | | |
| Fiche No. | | |

Fiche number refers to 1 of 2, 2 of 2 etc. information.

7. Title information shall be eye readable on a clear background.
8. The submittal of microfiche containing proprietary material shall be coordinated with the Document Management Branch, Division of Technical Information and Document Control, U.S. Nuclear Regulatory Commission 20555 to set format and procedures for submittal.
9. Foldouts, if any, shall be segmented and filmed in logical order.
10. The first frame shall be blank, and the second frame shall contain the resolution target (NBS 1010A).
11. Questions on microfiche specifications should be submitted in writing to:

U.S. Nuclear Regulatory Commission
 Document Management Branch
 Division of Technical Information and
 Document Control
 Washington, DC 20555

Distribution of the microfiche reports shall be as follows:

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| U.S. Nuclear Regulatory Commission Document Management Branch Division of Technical Information and Document Control Washington, DC 20555 | One (1) Master |
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| U.S. Nuclear Regulatory Commission Docket Control Center Division of Waste Management Office of Nuclear Material Safety and Safeguards Washington, DC 20555" | One (1) Duplicate |
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