

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE	PAGE OF PAGES 1   3
2. AMENDMENT/MODIFICATION NO. <div style="text-align: center;">Five (5)</div>	3. EFFECTIVE DATE <div style="text-align: center;">9/25/85</div>	4. REQUISITION/PURCHASE REQ. NO. <div style="text-align: center;">RES-84-103</div>	5. PROJECT NO. (If applicable)		
6. ISSUED BY <div style="text-align: center;">U.S. Nuclear Regulatory Commission Division of Contracts Washington, DC 20555</div>		7. ADMINISTERED BY (If other than Item 6) <div style="text-align: center;">CODE</div>			
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) <div style="text-align: center;">Battelle Columbus Laboratories 505 King Avenue Columbus, OH 43201</div>				9A. AMENDMENT OF SOLICITATION NO.	
				9B. DATED (SEE ITEM 11)	
				10A. MODIFICATION OF CONTRACT/ORDER NO. <div style="text-align: center;">NRC-04-84-103</div>	
				10B. DATED (SEE ITEM 13) <div style="text-align: center;">4/23/84</div>	
CODE	FACILITY CODE				
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS					
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended, <input type="checkbox"/> 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 completing Items 8 and 15, and returning _____ copies of the 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 ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS 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 each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.					
12. ACCOUNTING AND APPROPRIATION DATA (If required) <div style="display: flex; justify-content: space-between;"> <span>B&amp;R No. 601910    FIN: B8134</span> <span>Obligated: \$840,611.00</span> </div>					
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.					
<div style="display: flex;"> <div style="width: 20px; text-align: center; margin-right: 10px;"> <input checked="" type="checkbox"/> </div> <div>             A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.           </div> </div>					
<div style="display: flex;"> <div style="width: 20px; text-align: center; margin-right: 10px;"> <input type="checkbox"/> </div> <div>             B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).           </div> </div>					
<div style="display: flex;"> <div style="width: 20px; text-align: center; margin-right: 10px;"> <input checked="" type="checkbox"/> </div> <div>             C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:  <div style="text-align: center;">mutual agreement</div> </div> </div>					
<div style="display: flex;"> <div style="width: 20px; text-align: center; margin-right: 10px;"> <input type="checkbox"/> </div> <div>             D. OTHER (Specify type of modification and authority)           </div> </div>					
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> is required to sign this document and return <u>2</u> copies to the issuing office.					
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by DCF section headings, including solicitation/contract subject matter where feasible.)  The purpose of this modification is to increase the NRC funding obligation by \$840,611.00 in FY 1985 funds. Therefore, the following revision is applicable:  A. Article III - <u>Consideration and Payment</u> , paragraph A.2 is revised to read:  2. Total funds currently available for payment and obligated for this contract are increased by \$840,611.00 from \$2,434,389.00 to \$3,275,000.  <div style="text-align: center;">             8510070078 850926              PDR CONTR              NRC-04-84-103 PDR           </div>					
15A. NAME AND TITLE OF SIGNER (Type or print) <div style="text-align: center;">M. MICHAEL SEWELL CONTRACTING OFFICER</div>			16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) <div style="text-align: center;">Paul J. Edgeworth, Contracting Officer</div>		
15B. CONTRACTOR/OFFEROR <div style="text-align: center;">#Michael Sewell (Signature of person authorized to sign)</div>		15C. DATE SIGNED <div style="text-align: center;">SEP 26 1985</div>		16B. UNITED STATES OF AMERICA <div style="text-align: center;">Paul J. Edgeworth (Signature of Contracting Officer)</div>	
				16C. DATE SIGNED <div style="text-align: center;">9/25/85</div>	

- B. It is estimated that the amount currently allotted will cover performance through January 31, 1986.
- C. It is understood that the incremental funding provided is to be utilized for Optional Program Tasks only, and is not intended to fund any cost growth under the Base Program.
- D. Article I - Statement of Work, is revised to include the following experimental/analytical tasks selected by the NRC to be performed while negotiation of the Optional Program requirement is in progress. Work will be accomplished as described in Battelle's technical proposal number 763-J-9615X, dated September 6, 1985.

<u>Item No.</u>	<u>Title</u>
B	Subtask 2110-A, Notch Acuity Effect Studies that Include Welds and Heat-Affected Zones
D	Task 9000, Assistance to NRR on Flaw Acceptance Criteria
G	Subtask 7600, International Piping Integrity Research Group (IPIRG)
H	Subtask 7310, Prepare Pipe and Plate Specimens for Interlaboratory Efforts
I.1	Subtask 1100-A, Complete Procurement of Service Degraded Pipe
I.2	Subtask 1300-A, Pipe Transportation, Storage and Disposal
I.4	Subtask 2130-A, Large Crack Growth Studies in Weld Metal Compact Specimens at 550°F
I.8	Subtask 4121, Various Crack Geometries Under Axial Membrane Tension
I.9	Subtask 4131-A, Complimentary Pressure and Bending Experiments
I.14	Subtask 5120-A, Large Crack Growth in CT Specimens Pipe with Low-Toughness Welds
I.16	Subtask 5320, Develop J-Estimation Computer Code

I.20

Subtask 6111-B, Refine Displacement Prediction Using  
J-Estimation Schemes for TWC Pipe in Bending

- E. The ceiling price for this phase of the program remains to be negotiated. It is anticipated that negotiations to agree to a new contract ceiling will be completed by the parties within 45 days from the effective date of this modification. If agreement cannot be reached within 45 days, the parties will agree to a mutually acceptable time in which to complete discussions.