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#### PART I - THE SCHEDULE

### SECTION B - SUPPLIES OR SERVICES AND PRICE/COSTS

#### **B.1 PROJECT TITLE**

The title of this project is as follows:

"Statistical Analysis of Fracture Toughness Behavior of Reactor Pressure Vessel Steels"

# **B.2 BRIEF DESCRIPTION OF WORK (MAR 1987)**

The objectives of this contract are to provide statistical analysis of problems concerning the materials and mechanical behavior of RPVs and to assist the NRC staff with developing and issuing Revision 3 to Regulatory Guide 1.99.

### **B.3 CONSIDERATION AND OBLIGATION--LABOR HOUR CONTRACT**

- (a) The total NOT TO EXCEED ceiling amount for the period of performance of the contract is \$384,880. In no case shall the Contractor exceed this amount without prior written approval from the NRC Contracting Officer.
- (b) Travel expenses shall be reimbursed in accordance with Section G.2 of the contract, entitled "Travel Reimbursement." See Section J, Attachment 1, "Billing Instructions" for documentation requirements.
- (c) The amount obligated by the Government with respect to this contract is \$30,000.00.
- (d) It is anticipated that the obligated amount will cover performance through December 31, 2002.
- (e) The fixed hourly billing rates to be charged for the Contractor's labor under this contract are specified below.

YEAR 1 (effective date of contract - 12/31/2002)

| Labor Category  | Quantity       | Unit    | Unit Price                           | Amount   |
|---|----------------|---------|--------------------------------------|--|
| Principal Engineer Senior Engineer/Researcher Travel (NTE) Direct Expenses (bulk xeroxing, express delivery, and other expenses (NTE) | 264<br>24<br>2 |         | \$ 180.00<br>\$ 100.00<br>\$1,526.00 | \$47,520.00<br>\$ 2,400.00<br>\$ 3,052.00<br>\$ 200.00 |
| Total   | 288 I          | COTAL N | TE YEAR 1                            | \$53,172.00  |

| YEAR 2 (1/1/2003 - 12/31/2003)<br>Labor Category   | Quantity       | Unit                  | Unit Price   | Amount  |
|--|----------------|-----------------------|--------------|---|
| Principal Engineer Senior Engineer/Researcher Travel (NTE) Direct Expenses (bulk xeroxing, express delivery, and other expenses (NTE))   | 528<br>48<br>3 | Hour<br>Hour<br>Trips |              | \$ 97,680.00<br>\$ 4,944.00<br>\$ 4,704.00<br>\$ 300.00 |
| Total  | 576 T          | OTAL N                | TE YEAR 2    | \$107,628.00  |
| YEAR 3 (1/1/2004 - 12/31/2004)<br>Labor Category   | Quantity       | Unit                  | Unit Price   | Amount  |
| Principal Engineer Senior Engineer/Researcher Travel (NTE) Direct Expenses (bulk xeroxing, express delivery, and other expenses (NTE) based on Year 2 estimate + 2.8% increase per year) |                | Hour<br>Hour<br>Trips | •            | \$100,320.00<br>\$ 5,088.00<br>\$ 4,844.00<br>\$ 300.00 |
| . Total  | 576 I          | COTAL N               | TE YEAR 3    | \$110,552.00  |
| YEAR 4 (1/1/2005 - 2/28/2006)<br>Labor Category  | Quantity       | Unit                  | Unit Price   | Amount  |
| Principal Engineer Senior Engineer/Researcher Travel (NTE) Direct Expenses (bulk xeroxing, express delivery, and order expenses (NTE) based or Year 3 estimate + 2.8% increase per year) |                | Hour<br>Hour<br>Trips |              | \$102,960.00<br>\$ 5,280.00<br>\$ 4,988.00<br>\$ 300.00 |
| Total  | 576            | TOTAL N               | TTE YEAR 4   | \$113,528.00  |
|  | (              | GRAND T               | COTAL AMOUNT | \$384,880.00  |

# SECTION C - DESCRIPTION/SPECIFICATIONS/STATEMENT OF WORK

#### **C.1 STATEMENT OF WORK**

#### C.1.1 BACKGROUND

The U.S. Nuclear Regulatory Commission (NRC) is responsible for assuring that adequate toughness is maintained in U.S. nuclear power plant reactor pressure vessels (RPV). As the RPVs age, the mechanical properties change due to irradiation embrittlement. These changes include increases in strength of the RPV steel and decreases in toughness. Of particular concern is the fracture toughness of these materials in the possible range of temperatures for normal operation and accident conditions.

The fracture toughness of RPV steels has been measured using various sizes of fracture mechanics specimens machined from the same type of steel as used in U. S. RPVs. The results of these fracture mechanics tests performed at a range of temperatures were used to produce a reference fracture toughness transition curve as a function of test temperature. Any shifts in the reference fracture toughness curve along the temperature axis resulting from neutron embrittlement can be calculated from Charpy impact toughness tests.

Charpy specimens are included in all surveillance programs. These surveillance Charpy specimens were machined from the specific RPV materials or very similar where possible. These surveillance specimens are used to measure the effect of neutron embrittlement on Charpy impact toughness versus temperature behavior. These results can then be used to calculate changes in fracture toughness of RPV steels. If no appropriate surveillance specimens are available for the limiting material, a generic empirical equation has been developed that can predict impact toughness behavior of RPV steel. This embrittlement equation was statistically developed from a power reactor embrittlement database (PREDB) of embrittled Charpy specimens.

In 1988 the NRC published Regulatory Guide 1.99 Revision 2 concerning the "Radiation Embrittlement of Reactor Vessel Materials." This regulatory guide sets forth procedures to estimate the increase in the Charpy transition temperature at 30 ft-lbs of absorbed energy and the reduction of the Charpy upper shelf energy. In 1998 NUREG/CR 6551 (Improved Embrittlement Correlations for Reactor Pressure Vessel Steels) described an updated embrittlement correlation model based on a larger surveillance database and an improved understanding of the mechanisms responsible for irradiation damage in RPV materials. Since the publication of NUREG/CR 6551, additional data have become available and the embrittlement database and shift model have been further updated. The NRC is currently planning to issue revision 3 to Regulatory Guide 1.99 based on the latest embrittlement model.

#### **C.1.2 SCOPE OF WORK**

The objectives of this contract are to provide statistical analysis of problems concerning the materials and mechanical behavior of RPVs and to assist the NRC staff with developing and issuing Revision 3 to Regulatory Guide 1.99.

#### C.1.3 TASK 1 TECHNICAL ASSISTANCE

The contractor shall perform the following tasks:

The NRC staff is currently planning to issue Revision 3 to Regulatory Guide 1.99 (Radiation Embrittlement of Reactor Vessel Materials). The contractor shall provide technical assistance to the staff in developing and issuing this regulatory guide. It includes assistance in developing the technical basis document and addressing any comments received after the draft regulatory guide is issued for public comment. The tasks associated with this effort require detailed knowledge and experience with the latest embrittlement correlation developed by Dr. Ernest Eason who is considered essential for the successful completion of all tasks within this project.

#### C.1.4 TASK 2 UPDATE NUREG/CR-6551

The contractor shall update and revise the NUREG/CR-6551 "Improved Embrittlement Correlations for Reactor Pressure Vessel Steels" to include the additional data and refinements performed by Modeling and Computing Services since its publication in 1998. This task shall be done in collaboration with Dr. G. Robert Odette, at the University of California at Santa Barbara.

#### C.1.5 TASK 3 STATISTICAL ANALYSIS

The contractor shall provide reevaluation of the embrittlement equations of Charpy impact toughness behavior using new data to assess the effects of an increase in the number of available data in the embrittlement database. A technical collaboration shall be established and maintained with Dr. G. Robert Odette at the University of California at Santa Barbara to establish and document a physical basis for the effects described by the Charpy embrittlement model. The new data includes additional surveillance data and results obtained by Dr. Odette's IVAR (Irradiation Variable) studies.

#### C.2 TASK 4 MEETING ATTENDANCE

The contractor shall participate in meetings on revising the embrittlement correlations. This includes ASTM (American Society of Testing and Materials) E10.02 (Behavior and Use of Nuclear Structural Materials) committee meetings, and meetings with NRC staff at NRC headquarters.

#### **C.2.1 MEETINGS AND TRAVEL**

There will be up to 3 domestic trips per year for 1 contractor personnel for two days each. This includes 2 trips per year to attend ASTM E10.02 committee meetings and 1 meeting per year to meet with NRC staff in Rockville, MD.

#### C.2.2 NRC-FURNISHED MATERIAL

The NRC will furnish the contractor with any documents and information needed to perform the tasks.

### SECTION D - PACKAGING AND MARKING

# **D.1 PACKAGING AND MARKING (MAR 1987)**

The Contractor shall package material for shipment to the NRC in such a manner that will ensure acceptance by common carrier and safe delivery at destination. Containers and closures shall comply with the Interstate Commerce Commission Regulations, Uniform Freight Classification Rules, or regulations of other carriers as applicable to the mode of transportation. On the front of the package, the Contractor shall clearly identify the contract number under which the product is being provided.

#### **SECTION E - INSPECTION AND ACCEPTANCE**

### E.1 NOTICE LISTING CONTRACT CLAUSES INCORPORATED BY REFERENCE

The following contract clauses pertinent to this section are hereby incorporated by reference (by Citation Number, Title, and Date) in accordance with the clause at FAR "52.252-2 CLAUSES INCORPORATED BY REFERENCE" in Section I of this contract. See FAR 52.252-2 for an internet address (if specified) for electronic access to the full text of a clause.

| NUMBER   | TITLE FEDERAL ACQUISITION REGULATION (48 CFR Chapter) | DATE<br>er 1) |
|----------|---|---------------|
| 52.246-6 | INSPECTIONTIME-AND-MATERIALS AND LABOR-HOUR           | MAY 2001      |
| 52.246-9 | INSPECTION OF RESEARCH AND DEVELOPMENT (SHORT FORM)   | APR 1984      |

#### **E.2 PLACE OF INSPECTION AND ACCEPTANCE (MAR 1987)**

Inspection and acceptance of the deliverable items to be furnished hereunder shall be made by the Project Officer at the destination.

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# SECTION F - DELIVERIES OR PERFORMANCE

# F.1 NOTICE LISTING CONTRACT CLAUSES INCORPORATED BY REFERENCE

The following contract clauses pertinent to this section are hereby incorporated by reference (by Citation Number, Title, and Date) in accordance with the clause at FAR "52.252-2 CLAUSES INCORPORATED BY REFERENCE" in Section I of this contract. See FAR 52.252-2 for an internet address (if specified) for electronic access to the full text of a clause.

| NUMBER    | TITLE<br>FEDERAL ACQUISITION REGULATION (48 CFR Ch | DATE (apter 1) |
|-----------|--|----------------|
| 52.247-34 | F.O.B. DESTINATION                                 | NOV 1991       |
| 52.247-48 | F.O.B. DESTINATIONEVIDENCE OF SHIPMENT             | FEB 1999       |

# F.2 2052.211-70 PREPARATION OF TECHNICAL REPORTS (JAN 1993)

All technical reports required by Section C and all Technical Progress Reports required by Section F are to be prepared in accordance with the attached Management Directive 3.8, "Unclassified Contractor and Grantee Publications in the NUREG Series." Management Directive 3.8 is not applicable to any Contractor Spending Plan (CSP) and any Financial Status Report that may be included in this contract. (See List of Attachments).

# F.3 2052.211-72 FINANCIAL STATUS REPORT (OCT 1999)

The FSR shall include the acquisition of, or changes in the status of, contractor-held property acquired with government funds valued at the time of purchase at \$50,000 or more. Whenever these types of property changes occur, the contractor shall send a copy of the report to the Chief, Property and Acquisition Oversight Branch, Office of Administration. The report is due within 15 calendar days after the end of the report period and must identify the title of the project, the contract number, the appropriate financial tracking code (e.g., Job Code Number or JCN) specified by the NRC Project Officer, project manager and/or principal investigator, the contract period of performance, and the period covered by the report. Each report must include the following for each discrete task:

- (a) Total estimated contract amount.
- (b) Total funds obligated to date.
- (c) Total costs incurred this reporting period.
- (d) Total costs incurred to date.
- (e) Detail of all direct and indirect costs incurred during the reporting period for the entire contract or each task, if it is a task ordering contract.
- (f) Balance of obligations remaining.
- (g) Balance of funds required to complete contract/task order.
- (h) Contractor Spending Plan (CSP) status: A revised CSP is required with the Financial Status Report whenever the contractor or the contracting officer has reason to believe that the total cost for performance of this contract will be either greater or substantially less than what had been previously estimated.

- (1) Projected percentage of completion cumulative through the report period for the project/task order as reflected in the current CSP.
- (2) Indicate significant changes in the original CSP projection in either dollars or percentage of completion. Identify the change, the reasons for the change, whether there is any projected overrun, and when additional funds would be required. If there have been no changes to the original NRC-approved CSP projections, a written statement to that effect is sufficient in lieu of submitting a detailed response to item "h".
- (i) Property status:
- (1) List property acquired for the project during the month with an acquisition cost between \$500 and \$49,999. Give the item number for the specific piece of equipment.
- (2) Provide a separate list of property acquired for the project during the month with an acquisition cost of \$50,000 or more. Provide the following information for each item of property: item description or nomenclature, manufacturer, model number, serial number, acquisition cost, and receipt date. If no property was acquired during the month, include a statement to that effect. The same information must be provided for any component or peripheral equipment which is part of a "system or system unit."
- (3) For multi-year projects, in the September monthly financial status report provide a cumulative listing of property with an acquisition cost of \$50,000 or more showing the information specified in paragraph (i)(2) of this clause.
- (4) In the final financial status report provide a closeout property report containing the same elements as described above for the monthly financial status reports, for all property purchased with NRC funds regardless of value unless title has been vested in the contractor. If no property was acquired under the contract, provide a statement to that effect. The report should note any property requiring special handling for security, health, safety, or other reasons as part of the report.
- (j) Travel status: List the starting and ending dates for each trip, the starting point and destination, and the traveler(s) for each trip.
- (k) If the data in this report indicates a need for additional funding beyond that already obligated, this information may only be used as support to the official request for funding required in accordance with the Limitation of Cost (LOC) Clause (FAR 52.232-20) or the Limitation of Funds (LOF) Clause FAR 52.232-22.

### F.4 2052.211-71 TECHNICAL PROGRESS REPORT

The contractor shall provide a monthly Technical Progress Report to the NRC Project Officer and the Contracting Officer. The report is due within 15 calendar days after the end of the report period and must identify the title of the project, the contract number, appropriate financial tracking code specified by the Project Officer, project manager and/or principal investigator, the contract period of performance, and the period covered by the report. Each report must include the following for each discrete task/task order:

- (a) A listing of the efforts completed during the period, and milestones reached or, if missed, an explanation provided;
- (b) Any problems or delays encountered or anticipated and recommendations for resolution. If the recommended resolution involves a contract modification, e.g., change in work requirements, level of effort (cost) or schedule delay, the contractor shall submit a separate letter to the contracting officer identifying the required change and estimated cost impact.
- (c) A summary of progress to date; and
- (d) Plans for the next reporting period.

# F.5 REPORTING REQUIREMENTS

A draft NUREG/CR report which updates and revises the existing NUREG/CR 6551 "Improved Embrittlement Correlations for Reactor Pressure Vessel Steels" shall be submitted to the NRC for comment by June 30, 2003.

The final NUREG/CR report which updates and revises the existing NUREG/CR 6551 "Improved Embrittlement Correlations for Reactor Pressure Vessel Steels" shall be submitted 30 days after receiving NRC comments.

### F.6 PUBLICATIONS NOTE

NRC encourages the publication of the scientific results from NRC sponsored programs in refereed scientific and engineering journals as appropriate. If the laboratory proposes to publish in the open literature or present the information at meeting in addition to submitting the required technical reports, approval of the proposed article or presentation should be obtained from the NRC Project Officer. The Project Officer shall either approve the material as submitted, approve it subject to NRC suggested revisions, or disapprove it. In any event, the Project Officer may disapprove or delay presentation or publication of papers on information that is subject to Commission approval that has not been ruled upon or which has been disapproved. Additional information regarding the publication of NRC sponsored research is contained in NRC Management Directives 3.8, "Unclassified Contractor and Grantee Publications in the NUREG Series," and 3.9, "NRC Staff and Contractor Speeches, Papers, and Journal Articles on Regulatory and Technical Subjects."

If the presentation or paper is in addition to the required technical reports and the Project Officer determines that it will benefit the NRC project, the Project Officer may authorize payment of travel and publishing costs, if any, from the project funds. If the Project Officer determines that the article or presentation would not benefit the NRC project, the costs associated with the preparation, presentation, or publication will be borne by the contractor. For any publication or presentations falling into this category, the NRC reserves the right to require that such presentation or publication will not identify the NRC's sponsorship of the work.

# F.7 NEW STANDARDS FOR CONTRACTORS WHO PREPARE NUREG-SERIES MANUSCRIPTS

The U.S. Nuclear Regulatory Commission (NRC) began to capture its official records electronically on January 1, 2000. All records will be saved electronically in the Agency-wide Documents Access and Management System, known as ADAMS.

The NRC will capture each final NUREG-series publication in its native application. Therefore, commencing January 1, 2000, please submit your final manuscript that has been approved by your NRC Project Officer in both electronic and camera-ready copy.

All format guidance, as specified in NUREG-0650, Revision 2, will remain the same with one exception. You will no longer be required to include the NUREG-series designator on the bottom of each page of the manuscript. The NRC will assign this designator when we send the camera- ready copy to the printer and will place the designator on the cover, title page, and spine. The designator for each report will no longer be assigned when the decision to prepare a publication is made. The NRC's Publishing Services Branch will inform the NRC Project Officer for the publication of the assigned designator when the final manuscript is sent to the printer.

For the electronic manuscript, prepare the text in WordPerfect 8, and use any of the following file types for charts, spreadsheets, and the like.

#### F.8 FILE TYPES TO BE USED FOR NUREG-SERIES PUBLICATIONS

| FILE TYPE                | FILE EXTENSION |
|--------------------------|----------------|
| WordPerfect              | .wpd           |
| Microsoft PowerPoint     | .ppt           |
| Corel QuattroPro         | 8dw            |
| Corel Presentations      | .shw           |
| Lotus 1-2-3              | .wk4           |
| Portable Document Format | .pdf           |

This list is subject to change if new software packages come into common use at NRC or by our licensees or other

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stakeholders that participate in the electronic submission process. If a portion of your manuscript is from another source and you cannot obtain an acceptable electronic file type for this portion (e.g., an appendix from an old publication), the NRC can, if necessary, create a tagged image file format (file extension.tif) for that portion of your report. Note that you should continue to submit original photographs, which will be scanned, since digitized photographs do not print well.

If you choose to publish a compact disk (CD) of your publication, place on the CD copies of the manuscript in both (1) a portable document format (PDF); (2) a WordPerfect 8/9 file format, and (3) an Adobe Acrobat Reader, or, alternatively, print instructions for obtaining a free copy of Adobe Acrobat Reader on the back cover insert of the jewel box.

#### F.9 MEETINGS AND TRAVEL

There will be up to 3 domestic trips per year for 1 contractor personnel for two days each. This includes 2 trips per year to attend ASTM E10.02 committee meetings and 1 meeting per year to meet with NRC staff in Rockville, MD.

#### F.10 NRC-FURNISHED MATERIAL

The NRC will furnish the contractor with any documents and information needed to perform the tasks.

### F.11 PLACE OF DELIVERY--REPORTS (JUN 1988)

The items to be furnished hereunder shall be delivered, with all charges paid by the Contractor, to:

(a) Project Officer (1 copy)

U.S. Nuclear Regulatory Commission Office of Nuclear Regulatory Research Division of Engineering Technology, RES/DET/MEB, M/S: T-10-E-10 Washington, DC 20555

(b) Contracting Officer (1 copy) U.S. Nuclear Regulatory Commission Office of Administration Division of Contracts, CMC2, M/S: T-7-I-2 Washington, DC 20555

#### F.12 DURATION OF CONTRACT PERIOD (MAR 1987)

This contract shall commence on the effective date of the contract and will expire in forty-three (43) months.

# SECTION G - CONTRACT ADMINISTRATION DATA

# G.1 2052.215-71 PROJECT OFFICER AUTHORITY

(a) The contracting officer's authorized representative hereinafter referred to as the project officer for this contract is:

Name:

Cayetano Santos

Address:

U.S. Nuclear Regulatory Commission Office of Nuclear Regulatory Research

RES/DET/MEB

11545 Rockville Pike, M/S: T-10-E-10

Rockville, Maryland 20555

Telephone Number: (301) 415-6004

- (b) Performance of the work under this contract is subject to the technical direction of the NRC project officer. The term "technical direction" is defined to include the following:
- (1) Technical direction to the contractor which shifts work emphasis between areas of work or tasks, authorizes travel which was unanticipated in the Schedule (i.e., travel not contemplated in the Statement of Work or changes to specific travel identified in the Statement of Work), fills in details, or otherwise serves to accomplish the contractual statement of work.
- (2) Provide advice and guidance to the contractor in the preparation of drawings, specifications, or technical portions of the work description.
- (3) Review and, where required by the contract, approval of technical reports, drawings, specifications, and technical information to be delivered by the contractor to the Government under the contract.
- (c) Technical direction must be within the general statement of work stated in the contract. The project officer does not have the authority to and may not issue any technical direction which:
- (1) Constitutes an assignment of work outside the general scope of the contract.
- (2) Constitutes a change as defined in the "Changes" clause of this contract.
- (3) In any way causes an increase or decrease in the total estimated contract cost, the fixed fee, if any, or the time required for contract performance.
  - (4) Changes any of the expressed terms, conditions, or

specifications of the contract.

- (5) Terminates the contract, settles any claim or dispute arising under the contract, or issues any unilateral directive whatever.
- (d) All technical directions must be issued in writing by the project officer or must be confirmed by the project officer in writing within ten (10) working days after verbal issuance. A copy of the written direction must be furnished to the contracting officer. A copy of NRC Form 445, Request for Approval of Official Foreign Travel, which has received final approval from the NRC must be furnished to the contracting officer.
- (e) The contractor shall proceed promptly with the performance of technical directions duly issued by the project officer in the manner prescribed by this clause and within the project officer's authority under the provisions of this clause.
- (f) If, in the opinion of the contractor, any instruction or direction issued by the project officer is within one of the categories as defined in paragraph (c) of this section, the contractor may not proceed but shall notify the contracting officer in writing within five (5) working days after the receipt of any instruction or direction and shall request the contracting officer to modify the contract accordingly. Upon receiving the notification from the contractor, the contracting officer shall issue an appropriate contract modification or advise the contractor in writing that, in the contracting officer's opinion, the technical direction is within the scope of this article and does not constitute a change under the "Changes" clause.
- (g) Any unauthorized commitment or direction issued by the project officer may result in an unnecessary delay in the contractor's performance and may even result in the contractor expending funds for unallowable costs under the contract.
- (h) A failure of the parties to agree upon the nature of the instruction or direction or upon the contract action to be taken with respect thereto is subject to 52.233-1 Disputes.
- (i) In addition to providing technical direction as defined in paragraph (b) of the section, the project officer shall:
- (1) Monitor the contractor's technical progress, including surveillance and assessment of performance, and recommend to the contracting officer changes in requirements.
- (2) Assist the contractor in the resolution of technical problems encountered during performance.
- (3) Review all costs requested for reimbursement by the contractor and submit to the contracting officer recommendations for approval, disapproval, or suspension of payment for supplies and services required under this contract.
- (4) Assist the contractor in obtaining the badges for the contractor personnel.

(5) Immediately notify the Personnel Security Branch, Division of Facilities and Security (PERSEC/DFS) (via e-mail) when a contractor employee no longer requires access authorization and return the individual's badge to PERSEC/DFS within three days after their termination.

# G.2 2052.215-77 TRAVEL APPROVALS AND REIMBURSEMENT (OCT 1999)

- (a) All foreign travel must be approved in advance by the NRC on NRC Form 445, Request for Approval of Official Foreign Travel, and must be in compliance with FAR 52.247-63 Preference for U.S. Flag Air Carriers. The contractor shall submit NRC Form 445 to the NRC no later than 30 days before beginning travel.
- (b) The contractor must receive written approval from the NRC Project Officer before taking travel that was unanticipated in the Schedule (i.e., travel not contemplated in the Statement of Work, or changes to specific travel identified in the Statement of Work).
- (c) The contractor will be reimbursed only for those travel costs incurred that are directly related to this contract and are allowable subject to the limitations prescribed in FAR 31.205-46.
- (d) It is the responsibility of the contractor to notify the contracting officer in accordance with the Limitations of Cost clause of this contract when, at any time, the contractor learns that travel expenses will cause the contractor to exceed the estimated costs specified in the Schedule.
- (e) Reasonable travel costs for research and related activities performed at State and nonprofit institutions, in accordance with Section 12 of Pub. L. 100-679, shall be charged in accordance with the contractor's institutional policy to the degree that the limitations of Office of Management and Budget (OMB) guidance are not exceeded. Applicable guidance documents include OMB Circular A-87, Cost Principles for State and Local Governments; OMB Circular A-122, Cost Principles for Nonprofit Organizations; and OMB Circular A-21, Cost Principles for Educational Institutions.

#### G.3 ELECTRONIC PAYMENT

The Debt Collection Improvement Act of 1996 requires that all payments except IRS tax refunds be made by Electronic Funds Transfer. It is the policy of the Nuclear Regulatory Commission to pay vendors by the Automated Clearing House (ACH) electronic funds transfer payment system. The electronic system is known as Vendor Express. Payment shall be made in accordance with FAR 52.232-33, entitled "Mandatory Information for Electronic Funds Transfer Payment".

To receive payment, the contractor shall complete the "Company Information" portion of the Standard Form 3881, entitled "ACH Vendor/Miscellaneous Payment Enrollment Form" found as an attachment to this document. The contractor shall take the form to the ACH Coordinator

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at the financial institution that maintains its company's bank account. contractor shall discuss with the ACH Coordinator how the payment identification information (addendum record) will be passed to them once the payment is received by the financial institution. Further information concerning the addendum is provided at Attachment 3. The ACN Coordinator should fill out the "Financial Institution Information" portion of the form and return it to the Office of the Controller at the following address: Nuclear Regulatory Commission, Division of Accounting and Finance, Financial Operations Section, Mail Stop T-9-H-4, Washington, 20555, ATTN: ACH/Vendor Express. It is the responsibility of the contractor to ensure that the financial institution returns the completed form to the above cited NRC address. If the contractor can provide the financial information, signature of the financial institutions ACH Coordinator is not required. The NRC is under no obligation to send reminders. Only after the Office of the Controller has processed the contractor's sign-up form will the contractor be eligible to receive payments.

Once electronic funds transfer is established for payments authorized by NRC, the contractor needs to submit an additional SF 3881 only to report changes to the information supplied.

Questions concerning ACH/Vendor Express should be directed to the Financial Operations staff at (301) 415-7520."

# SECTION H - SPECIAL CONTRACT REQUIREMENTS

# H.1 2052.209-72 CONTRACTOR ORGANIZATIONAL CONFLICTS OF INTEREST (JAN 1993)

- (a) Purpose. The primary purpose of this clause is to aid in ensuring that the contractor:
- (1) Is not placed in a conflicting role because of current or planned interests (financial, contractual, organizational, or otherwise) which relate to the work under this contract; and
  - (2) Does not obtain an unfair competitive advantage over other parties by virtue of its performance of this contract.
- (b) Scope. The restrictions described apply to performance or participation by the contractor, as defined in 48 CFR 2009.570-2 in the activities covered by this clause.
- (c) Work for others.
- (1) Notwithstanding any other provision of this contract, during the term of this contract, the contractor agrees to forego entering into consulting or other contractual arrangements with any firm or organization the result of which may give rise to a conflict of interest with respect to the work being performed under this contract. The contractor shall ensure that all employees under this contract abide by the provision of this clause. If the contractor has reason to believe, with respect to itself or any employee, that any proposed consultant or other contractual arrangement with any firm or organization may involve a potential conflict of interest, the contractor shall obtain the written approval of the contracting officer before the execution of such contractual arrangement.
- (2) The contractor may not represent, assist, or otherwise support an NRC licensee or applicant undergoing an NRC audit, inspection, or review where the activities that are the subject of the audit, inspection, or review are the same as or substantially similar to the services within the scope of this contract (or task order as appropriate) except where the NRC licensee or applicant requires the contractor's support to explain or defend the contractor's prior work for the utility or other entity which NRC questions.
- (3) When the contractor performs work for the NRC under this contract at any NRC licensee or applicant site, the contractor shall neither solicit nor perform work in the same or similar technical area for that licensee or applicant organization for a period commencing with the award of the task order or beginning of work on the site (if not a task order contract) and ending one year after completion of all work under the associated task order, or last time at the site (if not a task order contract).
  - (4) When the contractor performs work for the NRC under this contract at any NRC licensee or applicant site,
- (i) The contractor may not solicit work at that site for that licensee or applicant during the period of performance of the task order or the contract, as appropriate.
- (ii) The contractor may not perform work at that site for that licensee or applicant during the period of performance of the task order or the contract, as appropriate, and for one year thereafter.
- (iii) Notwithstanding the foregoing, the contracting officer may authorize the contractor to solicit or perform this type of work (except work in the same or similar technical area) if the contracting officer determines that the situation will not pose a potential for technical bias or unfair competitive advantage.
  - (d) Disclosure after award.
- (1) The contractor warrants that to the best of its knowledge and belief, and except as otherwise set forth in this contract, that it does not have any organizational conflicts of interest as defined in 48 CFR 2009.570-2.
- (2) The contractor agrees that if, after award, it discovers organizational conflicts of interest with respect to this contract, it shall make an immediate and full disclosure in writing to the contracting officer. This statement must include

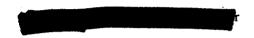
a description of the action which the contractor has taken or proposes to take to avoid or mitigate such conflicts. The NRC may, however, terminate the contract if termination is in the best interest of the Government.

- (3) It is recognized that the scope of work of a task-order-type contract necessarily encompasses a broad spectrum of activities. Consequently, if this is a task-order-type contract, the contractor agrees that it will disclose all proposed new work involving NRC licensees or applicants which comes within the scope of work of the underlying contract. Further, if this contract involves work at a licensee or applicant site, the contractor agrees to exercise diligence to discover and disclose any new work at that licensee or applicant site. This disclosure must be made before the submission of a bid or proposal to the utility or other regulated entity and must be received by the NRC at least 15 days before the proposed award date in any event, unless a written justification demonstrating urgency and due diligence to discover and disclose is provided by the contractor and approved by the contracting officer. The disclosure must include the statement of work, the dollar value of the proposed contract, and any other documents that are needed to fully describe the proposed work for the regulated utility or other regulated entity. NRC may deny approval of the disclosed work only when the NRC has issued a task order which includes the technical area and, if site-specific, the site, or has plans to issue a task order which includes the technical area and, if site-specific, the site, or when the work violates paragraphs (c)(2), (c)(3) or (c)(4) of this section.
  - (e) Access to and use of information.
- (1) If in the performance of this contract, the contractor obtains access to information, such as NRC plans, policies, reports, studies, financial plans, internal data protected by the Privacy Act of 1974 (5 U.S.C. Section 552a (1988)), or the Freedom of Information Act (5 U.S.C. Section 552 (1986)), the contractor agrees not to:
  - (i) Use this information for any private purpose until the information has been released to the public;
- (ii) Compete for work for the Commission based on the information for a period of six months after either the completion of this contract or the release of the information to the public, whichever is first;
- (iii) Submit an unsolicited proposal to the Government based on the information until one year after the release of the information to the public; or
- (iv) Release the information without prior written approval by the contracting officer unless the information has previously been released to the public by the NRC.
- (2) In addition, the contractor agrees that, to the extent it receives or is given access to proprietary data, data protected by the Privacy Act of 1974 (5 U.S.C. Section 552a (1988)), or the Freedom of Information Act (5 U.S.C. Section 552 (1986)), or other confidential or privileged technical, business, or financial information under this contract, the contractor shall treat the information in accordance with restrictions placed on use of the information.
- (3) Subject to patent and security provisions of this contract, the contractor shall have the right to use technical data it produces under this contract for private purposes provided that all requirements of this contract have been met.
- (f) Subcontracts. Except as provided in 48 CFR 2009.570-2, the contractor shall include this clause, including this paragraph, in subcontracts of any tier. The terms contract, contractor, and contracting officer, must be appropriately modified to preserve the Government's rights.
- (g) Remedies. For breach of any of the above restrictions, or for intentional nondisclosure or misrepresentation of any relevant interest required to be disclosed concerning this contract or for such erroneous representations that necessarily imply bad faith, the Government may terminate the contract for default, disqualify the contractor from subsequent contractual efforts, and pursue other remedies permitted by law or this contract.
- (h) Waiver. A request for waiver under this clause must be directed in writing to the contracting officer in accordance with the procedures outlined in 48 CFR 2009.570-9.
- (i) Follow-on effort. The contractor shall be ineligible to participate in NRC contracts, subcontracts, or proposals therefor (solicited or unsolicited), which stem directly from the contractor's performance of work under this contract. Furthermore, unless so directed in writing by the contracting officer, the contractor may not perform any technical consulting or management support services work or evaluation activities under this contract on any of its products or services or the products or services of another firm if the contractor has been substantially involved in the development or marketing of the products or services.

- (1) If the contractor, under this contract, prepares a complete or essentially complete statement of work or specifications, the contractor is not eligible to perform or participate in the initial contractual effort which is based on the statement of work or specifications. The contractor may not incorporate its products or services in the statement of work or specifications unless so directed in writing by the contracting officer, in which case the restrictions in this paragraph do not apply.
- (2) Nothing in this paragraph precludes the contractor from offering or selling its standard commercial items to the Government.

### H.2 2052.215-70 KEY PERSONNEL (JAN 1993)

(a) The following individuals are considered to be essential to the successful performance of the work hereunder:



The contractor agrees that personnel may not be removed from the contract work or replaced without compliance with paragraphs (b) and (c) of this section.

- (b) If one or more of the key personnel, for whatever reason, becomes, or is expected to become, unavailable for work under this contract for a continuous period exceeding 30 work days, or is expected to devote substantially less effort to the work than indicated in the proposal or initially anticipated, the contractor shall immediately notify the contracting officer and shall, subject to the con-currence of the contracting officer, promptly replace the personnel with personnel of at least substantially equal ability and qualifications.
- (c) Each request for approval of substitutions must be in writing and contain a detailed explanation of the circumstances necessitating the proposed substitutions. The request must also contain a complete resume for the proposed substitute and other information requested or needed by the contracting officer to evaluate the proposed substitution. The contracting officer and the project officer shall evaluate the contractor's request and the contracting officer shall promptly notify the contractor of his or her decision in writing.
- (d) If the contracting officer determines that suitable and timely replacement of key personnel who have been reassigned, terminated, or have otherwise become unavailable for the contract work is not reasonably forthcoming, or that the resultant reduction of productive effort would be so substantial as to impair the successful completion of the contract or the service order, the contract may be terminated by the contracting officer for default or for the convenience of the Government, as appropriate. If the contracting officer finds the contractor at fault for the condition, the contract price or fixed fee may be equitably adjusted downward to compensate the Government for any resultant delay, loss, or damage.

### H.3 2052.235-70 PUBLICATION OF RESEARCH RESULTS (OCT 1999)

- (a) The principal investigator(s)/contractor shall comply with the provisions of NRC Management Directive 3.8 (Vol. 3, Part 1) and NRC Handbook 3.8 (Parts I-IV) regarding publication in refereed scientific and engineering journals or dissemination to the public of any information, oral or written, concerning the work performed under this contract. Failure to comply with this clause shall be grounds for termination of this contract.
- (b) The principal investigator(s)/contractor may publish the results of this work in refereed scientific and engineering journals or in open literature and present papers at public or association meetings at interim stages of work, in addition to submitting to NRC the final reports and other deliverables required under this contract. However, such publication and papers shall focus on advances in science and technology and minimize conclusions and/or recommendations which may have regulatory implications.

(c) The principal investigator(s) shall coordinate all such publications with, and transmit a copy of the proposed article or paper to, the NRC Contracting Officer or Project Officer, prior to publication. The NRC agrees to review and provide comments within thirty (30) days after receipt of a proposed publication. However, in those cases where the information to be published is (1) subject to Commission approval, (2) has not been ruled upon, or (3) disapproved by the Commission, the NRC reserves the right to disapprove or delay the publication. Further, if the NRC disagrees with the proposed publication for any reason, it reserves the right to require that any publication not identify the NRC's sponsorship of the work and that any associated publication costs shall be borne by the contractor.

# H.4 2052.235-71 SAFETY, HEALTH, AND FIRE PROTECTION (JAN 1993)

The contractor shall take all reasonable precautions in the performance of the work under this contract to protect the health and safety of its employees and of members of the public, including NRC employees and contractor personnel, and to minimize danger from all hazards to life and property. The contractor shall comply with all applicable health, safety, and fire protection regulations and requirements (including reporting requirements) of the Commission and the Department of Labor. If the contractor fails to comply with these regulations or requirements, the contracting office may, without prejudice to any other legal or contractual rights of the Commission, issue an order stopping all or any part of the work. Thereafter, a start work order for resumption of work may be issued at the discretion of the contracting officer. The contractor may not make a claim for an extension of time or for compensation or damages by reason of, or in connection with, this type of work stoppage.

# H.5 GOVERNMENT FURNISHED EQUIPMENT/PROPERTY - NONE PROVIDED (JUN 1988)

The Government will not provide any equipment/property under this contract.

#### **H.6 SEAT BELTS**

Contractors, subcontractors, and grantees, are encouraged to adopt and enforce on-the-job seat belt policies and programs for their employees when operating company-owned, rented, or personally owned vehicles.

#### H.7 ANNUAL AND FINAL CONTRACTOR PERFORMANCE EVALUATIONS

Annual and final evaluations of contractor performance under this contract will be prepared in accordance with FAR 42.15, "Contractor Performance Information," normally at the time the contractor is notified of the NRC's intent to exercise the contract option. If the multi-year contract does not have option years, then an annual evaluation will be prepared (state time for annual evaluation). Final evaluations of contractor performance will be prepared at the expiration of the contract during the contract closeout process.

The Contracting Officer will transmit the NRC Project Officer's annual and final contractor performance evaluations to the contractor's Project Manager, unless otherwise instructed by the contractor. The contractor will be permitted thirty days to review the document. The contractor may concur without comment, submit additional information, or request a meeting to discuss the performance evaluation. The Contracting Officer may request the contractor's Project Manger to attend a meeting to discuss the performance evaluation.

Where a contractor concurs with, or takes no exception to an annual performance evaluation, the Contracting Officer will consider such evaluation final and releasable for source selection purposes. Disagreements between the parties regarding a performance evaluation will be referred to an individual one level above the Contracting Officer, whose decision will be final.

The Contracting Officer will send a copy of the completed evaluation report, marked "For Official Use Only," to the

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#### **SECTION H**

contractor's Project Manager for their records as soon as practicable after it has been finalized. The completed evaluation report also will be used as a tool to improve communications between the NRC and the contractor and to improve contract performance.

The completed annual performance evaluation will be used to support future award decisions in accordance with FAR 42.1502(a) and 42.1503(c). During the period the information is being used to provide source selection information, the completed annual performance evaluation will be released to only two parties - the Federal government personnel performing the source selection evaluation and the contractor under evaluation if the contractor does not have a copy of the report already.

# PART II - CONTRACT CLAUSES SECTION I - CONTRACT CLAUSES

# 1.1 NOTICE LISTING CONTRACT CLAUSES INCORPORATED BY REFERENCE

The following contract clauses pertinent to this section are hereby incorporated by reference (by Citation Number, Title, and Date) in accordance with the clause at FAR "52.252-2 CLAUSES INCORPORATED BY REFERENCE" in Section I of this contract. See FAR 52.252-2 for an internet address (if specified) for electronic access to the full text of a clause.

| NA IN WOLD      | TITLE  | DATE              |
|-----------------|--|-------------------|
| NUMBER          | FEDERAL ACQUISITION REGULATION (48 CFR Chapter                   | 1)                |
|                 | I EDERGIE NOQUISITION 120 0 2 2 2 2 2                            |                   |
| 52.202-1        | DEFINITIONS  | DEC 2001          |
| 52.203-3        | GRATUITIES   | APR 1984          |
| 52.203-5        | COVENANT AGAINST CONTINGENT FEES                                 | APR 1984          |
| 52.203-6        | RESTRICTIONS ON SUBCONTRACTOR SALES TO                           | JUL 1995          |
| 32.203-0        | THE GOVERNMENT   |                   |
| 52.203-7        | ANTI-KICKBACK PROCEDURES   | JUL 1995          |
| 52.203-8        | CANCELLATION, RESCISSION, AND RECOVERY                           | JAN 1997          |
| 32.203-6        | OF FUNDS FOR ILLEGAL OR IMPROPER                                 |                   |
|                 | ACTIVITY   |                   |
| 52 202 10       | PRICE OR FEE ADJUSTMENT FOR ILLEGAL OR                           | JAN 1997          |
| 52.203-10       | IMPROPER ACTIVITY  |                   |
| 50 002 10       | LIMITATION ON PAYMENTS TO INFLUENCE                              | JUN 1997          |
| 52.203-12       | CERTAIN FEDERAL TRANSACTIONS                                     |                   |
| 50.004.4        | PRINTED OR COPIED DOUBLE-SIDED                                   | AUG 2000          |
| 52.204-4        | ON RECYCLED PAPER  |                   |
| <b>53.000</b> ( | PROTECTING THE GOVERNMENT'S INTEREST                             | JUL 1995          |
| 52.209-6        | WHEN SUBCONTRACTING WITH CONTRACTORS                             | 30E 1776          |
|                 | DEBARRED, SUSPENDED, OR PROPOSED FOR                             |                   |
|                 |  |                   |
|                 | DEBARMENT  | JUN 1999          |
| 52.215-2        | AUDIT AND RECORDSNEGOTIATION ORDER OF PRECEDENCEUNIFORM CONTRACT | OCT 1997          |
| 52.215-8        |  | 001 1777          |
|                 | FORMAT CANCELLATION UNDER MULTIYEAR CONTRACTS                    | OCT 1997          |
| 52.217-2        | CANCELLATION UNDER MULTITEAR CONTRACTS                           | OCT 2000          |
| 52.219-8        | UTILIZATION OF SMALL BUSINESS CONCERNS                           | AUG 1996          |
| 52.222-3        | CONVICT LABOR  | DEC 2001          |
| 52.222-19       | CHILD LABOR - COOPERATION WITH                                   | DEC 2001          |
|                 | AUTHORITIES AND REMEDIES   | FEB 1999          |
| 52.222-21       | PROHIBITION OF SEGREGATED FACILITIES                             | APR 2002          |
| 52.222-26       | EQUAL OPPORTUNITY  | DEC 2001          |
| 52.222-35       | EQUAL OPPORTUNITY FOR SPECIAL DISABLED                           | DEC 2001          |
|                 | VETERANS, OF THE VIETNAM ERA, AND OTHER                          |                   |
|                 | ELIGIBLE VETERANS  | JUN 1998          |
| 52.222-36       | AFFIRMATIVE ACTION FOR WORKERS WITH                              | JUN 1990          |
|                 | DISABILITIES   | DEC 2001          |
| 52.222-37       | EMPLOYMENT REPORTS ON SPECIAL DISABLED                           | DEC 2001          |
|                 | VETERANS, VETERANS OF THE VIETNAM ERA,                           |                   |
|                 | AND OTHER ELIGIBLE VETERANS                                      | DEC 2001          |
| 52.222-38       | COMPLIANCE WITH VETERANS' EMPLOYMENT                             | DEC 2001          |
|                 | REPORTING REQUIREMENTS   | 3 6 4 3 7 0 0 0 1 |
| 52.223-6        | DRUG-FREE WORKPLACE  | MAY 2001          |
| 52.225-13       | RESTRICTIONS ON CERTAIN FOREIGN                                  | JUL 2000          |
|                 | I-1  |                   |
|                 | Y- T   |                   |

| NRC-04-02-071                                     | SECTION I  |                      |
|---|--|----------------------|
| · · · · · · · ·                                   |  |                      |
|   | PURCHASES  | TIT 1005             |
| 52.227-1  | AUTHORIZATION AND CONSENT                                    | JUL 1995             |
| <b></b>   | ALTERNATE I (APR 1984)                                       | AUG 1996             |
| 52.227-2  | NOTICE AND ASSISTANCE REGARDING PATENT                       | AUG 1990             |
|   | AND COPYRIGHT INFRINGEMENT                                   | JUN 1997             |
| 52.227-11   | PATENT RIGHTS RETENTION BY THE                               | 3014 1997            |
|   | CONTRACTOR (SHORT FORM) PAYMENT UNDER TIME-AND-MATERIALS AND | FEB 2002             |
| 52.232-7  | PAYMENT UNDER TIME-AND-MATERIALS AND                         | 120200               |
|   | LABOR-HOUR CONTRACTS<br>ALTERNATE II (JAN 1986)              |                      |
| co ooo 17   | INTEREST   | JUN 1996             |
| 52.232-17   | ASSIGNMENT OF CLAIMS   | JAN 1986             |
| 52.232-23<br>52.232-33                            | PAYMENT BY ELECTRONIC FUNDSCENTRAL                           | MAY 1999             |
| 54.434-33   | CONTRACTOR REGISTRATION                                      |                      |
| 52.233-1  | DISPUTES   | DEC 1998             |
| 52.233-3  | PROTEST AFTER AWARD  | AUG 1996             |
| 52.242-1  | NOTICE OF INTENT TO DISALLOW COSTS                           | APR 1984             |
| 52.242-13   | BANKRUPTCY   | JUL 1995             |
| 52.243-3  | CHANGESTIME-AND-MATERIALS OR                                 | SEP 2000             |
| <del>• • • • • • • • • • • • • • • • • • • </del> | LABOR-HOURS  | PPD 1007             |
| 52.246-23   | LIMITATION OF LIABILITY                                      | FEB 1997<br>FEB 1997 |
| 52.246-25   | LIMITATION OF LIABILITY-SERVICES                             | SEP 1996             |
| 52.249-6  | TERMINATION (COST-REIMBURSEMENT)                             | SEF 1990             |
|   | ALTERNATE IV (SEP 1996)                                      | APR 1984             |
| 52.249-14   | EXCUSABLE DELAYS   | JAN 1991             |
| 52.253-1  | COMPUTER GENERATED FORMS                                     | ALENA YOUN           |

### I.2 52.232-25 PROMPT PAYMENT (FEB 2002)

Notwithstanding any other payment clause in this contract, the Government will make invoice payments under the terms and conditions specified in this clause. The Government considers payment as being made on the day a check is dated or the date of an electronic funds transfer (EFT). Definitions of pertinent terms are set forth in sections 2.101, 32.001, and 32.902 of the Federal Acquisition Regulation. All days referred to in this clause are calendar days, unless otherwise specified. (However, see paragraph (a)(4) of this clause concerning payments due on Saturdays, Sundays, and legal holidays.)

### (a) Invoice payments--

- (1) Due date.
- (i) Except as indicated in paragraphs (a)(2) and (c) of this clause, the due date for making invoice payments by the designated payment office is the later of the following two events:
- (A) The 30th day after the designated billing office receives a proper invoice from the Contractor (except as provided in paragraph (a)(1)(ii) of this clause).
- (B) The 30th day after Government acceptance of supplies delivered or services performed. For a final invoice, when the payment amount is subject to contract settlement actions, acceptance is deemed to occur on the effective date of the contract settlement.
- (ii) If the designated billing office fails to annotate the invoice with the actual date of receipt at the time of receipt, the invoice payment due date is the 30th day after the date of the Contractor's invoice, provided the designated billing office receives a proper invoice and there is no disagreement over quantity, quality, or Contractor compliance with contract requirements.
  - (2) Certain food products and other payments.
- (i) Due dates on Contractor invoices for meat, meat food products, or fish; perishable agricultural commodities; and dairy products, edible fats or oils, and food products prepared from edible fats or oils are-

- (A) For meat or meat food products, as defined in section 2(a)(3) of the Packers and Stockyard Act of 1921 (7 U.S.C. 182(3)), and as further defined in Pub. L. 98-181, including any edible fresh or frozen poultry meat, any perishable poultry meat food product, fresh eggs, and any perishable egg product, as close as possible to, but not later than, the 7th day after product delivery.
- (B) For fresh or frozen fish, as defined in section 204(3) of the Fish and Seafood Promotion Act of 1986 (16 U.S.C. 4003(3)), as close as possible to, but not later than, the 7th day after product delivery.
- (C) For perishable agricultural commodities, as defined in section 1(4) of the Perishable Agricultural Commodities Act of 1930 (7 U.S.C. 499a(4)), as close as possible to, but not later than, the 10th day after product delivery, unless another date is specified in the contract.
- (D) For dairy products, as defined in section 111(e) of the Dairy Production Stabilization Act of 1983 (7 U.S.C. 4502(e)), edible fats or oils, and food products prepared from edible fats or oils, as close as possible to, but not later than, the 10th day after the date on which a proper invoice has been received. Liquid milk, cheese, certain processed cheese products, butter, yogurt, ice cream, mayonnaise, salad dressings, and other similar products, fall within this classification. Nothing in the Act limits this classification to refrigerated products. When questions arise regarding the proper classification of a specific product, prevailing industry practices will be followed in specifying a contract payment due date. The burden of proof that a classification of a specific product is, in fact, prevailing industry practice is upon the Contractor making the representation.
- (ii) If the contract does not require submission of an invoice for payment (e.g., periodic lease payments), the due date will be as specified in the contract.
- (3) Contractor's invoice. The Contractor shall prepare and submit invoices to the designated billing office specified in the contract. A proper invoice must include the items listed in paragraphs (a)(3)(i) through (a)(3)(x) of this clause. If the invoice does not comply with these requirements, the designated billing office will return it within 7 days after receipt (3 days for meat, meat food products, or fish; 5 days for perishable agricultural commodities, dairy products, edible fats or oils, and food products prepared from edible fats or oils), with the reasons why it is not a proper invoice. The Government will take into account untimely notification when computing any interest penalty owed the Contractor.
  - (i) Name and address of the Contractor.
- (ii) Invoice date and invoice number. (The Contractor should date invoices as close as possible to the date of the mailing or transmission.)
- (iii) Contract number or other authorization for supplies delivered or services performed (including order number and contract line item number).
  - (iv) Description, quantity, unit of measure, unit price, and extended price of supplies delivered or services performed.
- (v) Shipping and payment terms (e.g., shipment number and date of shipment, discount for prompt payment terms). Bill of lading number and weight of shipment will be shown for shipments on Government bills of lading.
- (vi) Name and address of Contractor official to whom payment is to be sent (must be the same as that in the contract or in a proper notice of assignment).
- (vii) Name (where practicable), title, phone number, and mailing address of person to notify in the event of a defective invoice.
- (viii) Taxpayer Identification Number (TIN). The Contractor shall include its TIN on the invoice only if required elsewhere in this contract.
  - (ix) Electronic funds transfer (EFT) banking information.
  - (A) The Contractor shall include EFT banking information on the invoice only if required elsewhere in this contract.
- (B) If EFT banking information is not required to be on the invoice, in order for the invoice to be a proper invoice, the Contractor shall have submitted correct EFT banking information in accordance with the applicable solicitation provision (e.g., 52.232-38, Submission of Electronic Funds Transfer Information with Offer), contract clause (e.g., 52.232-33, Payment by Electronic Funds Transfer-Central Contractor Registration, or 52.232-34, Payment by Electronic

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Funds Transfer--Other Than Central Contractor Registration), or applicable agency procedures.

- (C) EFT banking information is not required if the Government waived the requirement to pay by EFT.
- (x) Any other information or documentation required by the contract (e.g., evidence of shipment).
- (4) Interest penalty. The designated payment office will pay an interest penalty automatically, without request from the Contractor, if payment is not made by the due date and the conditions listed in paragraphs (a)(4)(i) through (a)(4)(iii) of this clause are met, if applicable. However, when the due date falls on a Saturday, Sunday, or legal holiday, the designated payment office may make payment on the following working day without incurring a late payment interest penalty.
  - (i) The designated billing office received a proper invoice.
- (ii) The Government processed a receiving report or other Government documentation authorizing payment, and there was no disagreement over quantity, quality, or Contractor compliance with any contract term or condition.
- (iii) In the case of a final invoice for any balance of funds due the Contractor for supplies delivered or services performed, the amount was not subject to further contract settlement actions between the Government and the Contractor.
- (5) Computing penalty amount. The Government will compute the interest penalty in accordance with the Office of Management and Budget prompt payment regulations at 5 CFR part 1315.
- (i) For the sole purpose of computing an interest penalty that might be due the Contractor, Government acceptance is deemed to occur constructively on the 7th day (unless otherwise specified in this contract) after the Contractor delivers the supplies or performs the services in accordance with the terms and conditions of the contract, unless there is a disagreement over quantity, quality, or Contractor compliance with a contract provision. If actual acceptance occurs within the constructive acceptance period, the Government will base the determination of an interest penalty on the actual date of acceptance. The constructive acceptance requirement does not, however, compel Government officials to accept supplies or services, perform contract administration functions, or make payment prior to fulfilling their responsibilities.
- (ii) The prompt payment regulations at 5 CFR 1315.10(c) do not require the Government to pay interest penalties if payment delays are due to disagreement between the Government and the Contractor over the payment amount or other issues involving contract compliance, or on amounts temporarily withheld or retained in accordance with the terms of the contract. The Government and the Contractor shall resolve claims involving disputes and any interest that may be payable in accordance with the clause at FAR 52.233-1, Disputes.
- (6) Discounts for prompt payment. The designated payment office will pay an interest penalty automatically, without request from the Contractor, if the Government takes a discount for prompt payment improperly. The Government will calculate the interest penalty in accordance with the prompt payment regulations at 5 CFR part 1315.
  - (7) Additional interest penalty.
- (i) The designated payment office will pay a penalty amount, calculated in accordance with the prompt payment regulations at 5 CFR part 1315 in addition to the interest penalty amount only if--
  - (A) The Government owes an interest penalty of \$1 or more;
- (B) The designated payment office does not pay the interest penalty within 10 days after the date the invoice amount is paid; and
- (C) The Contractor makes a written demand to the designated payment office for additional penalty payment, in accordance with paragraph (a)(7)(ii) of this clause, postmarked not later than 40 days after the invoice amount is paid.
- (ii)(A) The Contractor shall support written demands for additional penalty payments with the following data. The Government will not request any additional data. The Contractor shall--
- (1) Specifically assert that late payment interest is due under a specific invoice, and request payment of all overdue late payment interest penalty and such additional penalty as may be required;
  - (2) Attach a copy of the invoice on which the unpaid late payment interest is due; and

- (3) State that payment of the principal has been received, including the date of receipt.
- (B) If there is no postmark or the postmark is illegible--
- (1) The designated payment office that receives the demand will annotate it with the date of receipt, provided the demand is received on or before the 40th day after payment was made; or
- (2) If the designated payment office fails to make the required annotation, the Government will determine the demand's validity based on the date the Contractor has placed on the demand, provided such date is no later than the 40th day after payment was made.
- (iii) The additional penalty does not apply to payments regulated by other Government regulations (e.g., payments under utility contracts subject to tariffs and regulation).
- (b) Contract financing payment. If this contract provides for contract financing, the Government will make contract financing payments in accordance with the applicable contract financing clause.
- (c) Fast payment procedure due dates. If this contract contains the clause at 52.213-1, Fast Payment Procedure, payments will be made within 15 days after the date of receipt of the invoice.
- (d) Overpayments. If the Contractor becomes aware of a duplicate payment or that the Government has otherwise overpaid on an invoice payment, the Contractor shall immediately notify the Contracting Officer and request instructions for disposition of the overpayment.

# I.3 52.252-2 CLAUSES INCORPORATED BY REFERENCE (FEB 1998)

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address(es):

http://www.arnet.gov/far

# PART III - LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACHMENTS SECTION J - LIST OF ATTACHMENTS

| ATTACHMENT<br>NUMBER | TITLE                                  | DATE                     | NO.<br>PAGES |
|----------------------|--|--------------------------|--------------|
| 1                    | Billing Instruction Reimbursement Type | ons - Cost<br>e Contract |              |
| 2                    | NRC Handbook 3.8                       |                          |              |
| 3                    | Payment Informati                      | on For SF 3381           |              |