

ORDER FOR SUPPLIES OR SERVICES

PAGE OF PAGES
1 14

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

BPA NO.

1. DATE OF ORDER AUG 16 2007		2. CONTRACT NO. (If any)		6. SHIP TO:	
3. ORDER NO. DR-04-07-097		4. REQUISITION/REFERENCE NO. RES-07-097 RES-C07-229		a. NAME OF CONSIGNEE U.S. Nuclear Regulatory Commission	
5. ISSUING OFFICE (Address correspondence to) U.S. Nuclear Regulatory Commission Div. of Contracts Attn: Nicole A. Pratt 301-415-0236 Mail Stop T-7-I-2 Washington, DC 20555				b. STREET ADDRESS 11545 Rockville Pike William Krotiuk T10 K8	
				c. CITY Rockville	d. STATE MD
				e. ZIP CODE 20852	
7. TO:				f. SHIP VIA Delivery Received: 7:15am - 3:45pm (M-F)	
a. NAME OF CONTRACTOR George Yedigarglu				8. TYPE OF ORDER	
b. COMPANY NAME				<input checked="" type="checkbox"/> a. PURCHASE <input type="checkbox"/> b. DELIVERY	
c. STREET ADDRESS ETH-Zurich, WEN B-13 Weinbergstrasse 94				REFERENCE YOUR _____ Please furnish the following on the terms and conditions specified on both sides of this order and on the attached sheet, if any, including delivery as indicated.	
d. CITY CH-8006 Zurich, Switzerland				Except for billing instructions on the reverse, this delivery order is subject to instructions contained on this side only of this form and is issued subject to the terms and conditions of the above-numbered contract.	
e. STATE				f. ZIP CODE	
9. ACCOUNTING AND APPROPRIATION DATA 76015111205 N6524 252A 31X0200.760 Obligate: \$25,000.00				10. REQUISITIONING OFFICE RES	

11. BUSINESS CLASSIFICATION (Check appropriate box(es))				12. F.O.B. POINT Destination	
<input type="checkbox"/> a. SMALL	<input checked="" type="checkbox"/> b. OTHER THAN SMALL	<input type="checkbox"/> c. DISADVANTAGED	<input type="checkbox"/> d. SERVICE-DISABLED VETERAN-OWNED		
<input type="checkbox"/> e. WOMEN-OWNED	<input type="checkbox"/> f. HUBZone	<input type="checkbox"/> g. EMERGING SMALLBUSINESS			
13. PLACE OF			14. GOVERNMENT B/L NO.	15. DELIVER TO F.O.B. POINT ON OR BEFORE (Date)	16. DISCOUNT TERMS
a. INSPECTION Destination	b. ACCEPTANCE Destination				

17. SCHEDULE (See reverse for Rejections)

See CONTINUATION Page

ITEM NO. (a)	SUPPLIES OR SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
001	The Contractor shall provide the NRC with services titled "Support of TRACE 5.0 Peer Review" in accordance with the attached statement of work, at the prices stated in the schedule below: Peer Review Services				\$20,756.00	
002	Reimbursable Travel (NOT TO EXCEED)				\$5,550.00	
	PERIOD OF PERFORMANCE: Date of Acceptance (pg. 2) through one (1) year					

18. SHIPPING POINT		19. GROSS SHIPPING WEIGHT		20. INVOICE NO.		\$26,306.00 NOT TO EXCEED	17(h) TOTAL (Cont. pages)
21. MAIL INVOICE TO:							
a. NAME U.S. Nuclear Regulatory Commission Payment Team, Mail Stop 9-4-47-7 I-2						\$26,306.00	17(i). GRAND TOTAL
b. STREET ADDRESS (or P.O. Box) Attn: (DR-04-07-097)							
c. CITY Washington		d. STATE DC	e. ZIP CODE 20555				

22. UNITED STATES OF AMERICA
BY (Signature)

23. NAME (Typed)
Stephen Pool
Contracting Officer
TITLE: CONTRACTING/ORDERING OFFICER

TEMPLATE - ADM001

ADM002

AUTHORIZED FOR LOCAL REPRODUCTION
PREVIOUS EDITION NOT USABLE

SUNSI REVIEW COMPLETE

SEP 19 2007

OPTIONAL FORM 347 (REV. 4/2006)
PRESCRIBED BY GSA/FAR 48 CFR 53.213(f)

ORDER FOR SUPPLIES OR SERVICES SCHEDULE - CONTINUATION

PAGE NO.
2 14


IMPORTANT: Mark all packages and papers with contract and/or order numbers.

DATE OF ORDER

CONTRACT NO.

ORDER NO.

DR-04-07-097

ITEM NO. (A)	SUPPLIES OR SERVICES (B)	QUANTITY ORDERED (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)	QUANTITY ACCEPTED (G)
	<p>Please indicate your acceptance of this order by having an official who is authorized to bind your organization execute three copies of this document in the spaces provided below and return two copies to the Contract Officer. You should retain the third copy for your records.</p> <p>ACCEPTED:</p> <p></p> <p>Name</p> <p><u>Consultant</u></p> <p>Title</p> <p><u>20 Aug 2007</u></p> <p>Date</p> <p>ATTACHMENTS: Billing Instructions</p>					

TOTAL CARRIED FORWARD TO 1ST PAGE (ITEM 17(H))

STATEMENT OF WORK (SOW)

I. BACKGROUND

The U. S. Nuclear Regulatory Commission (USNRC) Office of Nuclear Regulatory Research (RES) is organizing a panel to review the TRACE RELAP Advanced Computational Engine (TRACE) Version 5.0 computer code and the associated theoretical and test assessment documentation. TRACE is currently being developed in RES to provide a modernized, state-of-the-art method to provide thermal-hydraulic analyses of nuclear reactor systems. Because TRACE is used by the USNRC to audit licensee calculations, an independent review of the code is important especially since the range of code applications is broadening.

II. OBJECTIVE

The peer review panel will review the TRACE code and associated documentation, which includes the Theory Manual, the Theory Manual Supplement, the Assessment Manual and the User's Guide. The review panel shall produce a report that summarizes the strengths and deficiencies of the code as documented, and provides recommendations for code changes and improvements. The panel will present these findings to the Advisory Committee on Reactor Safeguards Thermal-Hydraulic (ACRS T/H) subcommittee.

III. SCOPE OF WORK

Each peer review panel member shall review the TRACE 5.0 code and associated documentation, which includes the Theory Manual, Theory Manual Supplement, the Assessment Manual, and the User's Guide. The TRACE Theory Manual describes the underlying theory, empirical models, and special features within TRACE. The Theory Manual Supplement provides greater detail of each physical model and certain mathematical derivations. The Assessment Manual documents the results of a number of TRACE simulations of experimental tests ranging from fundamental tests such as a manometer problem to complex integral effects tests such as the LOFT series of experiments. The review is not intended to be a line-by-line review of the coding; however, the source code will be made available. The panel members will not be expected to run the code, but sample inputs and outputs will be provided as well as guidance in executing the code if the reviewer chooses to make a run.

USNRC-Furnished Material

- (1) TRACE 5.0 documentation
 - (a) TRACE Theory Manual
 - (b) TRACE Theory Manual Supplement
 - (c) TRACE Assessment Report
 - (d) TRACE User's Manual
- (2) TRACE 5.0 executable and source code
- (3) TRACE sample input and output files

Each panel member will be required to sign a non-disclosure agreement in order to receive the USNRC-furnished material.

The panel members should consider the following topics when reviewing the documentation.

- Capabilities and limitations

- Is there a description of the code mission, its purpose, objectives, capabilities and range of applicability?

- Is there a description of the code limitations?
- Numerical solution methods
 - Is the numerical solution scheme described?
 - Are the time and space averaging approaches described?
- Fundamental equations, models and correlations
 - Are descriptions included for all models and correlations?
 - Are the original published sources referenced along with supporting data, and a description of the accuracy and applicability of the model or correlation to power reactor conditions?
 - Is the model or correlation implementation approach described including any modifications used to overcome computational difficulties?
- General quality
 - Is the documentation well written, well organized and understandable?

Each panel member shall provide comments on all portions of the code and documentation; however, each member will be asked to pay special attention and provide a more detailed review in specific focus areas. The list of the focus areas that will require special attention and detailed review by one or more of the panel members includes:

1. Conservation equations as applied in the code
2. Numerical solution scheme
3. Thermal-hydraulic closure relations and physical models
4. Nuclear system components and features, such as pumps, valves, fuel rod models and reactor kinetics
5. The test assessment matrix, specifically its sufficiency and completeness relative to other thermal-hydraulic computer codes

Dr. Dominique Bestion shall provide specific comments regarding the (3) thermal-hydraulic closure relations and physical models, and the (5) test assessment matrix and results.

Dr. Peter Griffith shall provide specific comments regarding the (4) nuclear system components, features and physical models, and the (5) test assessment matrix and results.

Mr. Marv Thurgood shall provide specific comments regarding the (1) application of the conservation equations and the (2) numerical solution methods used in TRACE.

Dr. George Yadigaroglu shall provide specific comments regarding the (1) application of the conservation equations, and the (3) thermal-hydraulic closure relations and physical models.

Each panel member shall provide a draft report which includes an evaluation of the topics and focus areas. Following review of each other's reports and discussions by the panel members, the panel members shall assemble a final report that addresses the findings of all the panel members. The final report shall address the adequacy of the TRACE Version 5.0 computer code based on the documentation review. The final report should indicate areas where a consensus exists among the panel members, and specify areas with differences of opinion. The USNRC project manager will confer with the panel members to reach a consensus when possible. The USNRC will also provide logistic support (e.g., editing, printing, etc.) to the review panel members in preparing the final report of the panel's findings and in preparing the presentation of its findings to the ACRS T/H subcommittee.

IV. SCHEDULE AND DELIVERABLES

Deliverable	Due Date
TRACE peer review members draft reports	5 months after purchase order initiation
TRACE peer review panel final report draft	7 months after purchase order initiation
TRACE peer review panel final report	9 months after purchase order initiation
Presentation by the peer review panel to ACRS T/H Subcommittee	To be determined but within 12 months after purchase order initiation

V. MEETINGS AND TRAVEL REQUIREMENTS

Each panel member shall plan to attend two working meetings of two-day duration at the USNRC offices in Rockville, Maryland. In addition, each panel member shall plan to attend one two-day meeting to present the panel's findings to the ACRS T/H Subcommittee at the USNRC office in Rockville, Maryland. The following table provides the meeting schedule.

Schedule	Date
Kick-off meeting	ASAP after purchase order initiation
Meeting to discuss draft reports and findings	6 months after purchase order initiation
Presentation by the peer review panel to ACRS T/H Subcommittee	To be determined but within 12 months after purchase order initiation

VI. PUBLICATIONS

RES encourages the publication of scientific results from RES-sponsored programs in refereed scientific and engineering journals, as appropriate. If the contractor proposes to publish in the open literature or present the information at meetings in addition to submitting the required technical reports, approval of the proposed article or presentation must be obtained from the USNRC project manager in advance of submitting abstracts, papers, or presentation material. The RES project manager shall either approve the material as submitted, approve it subject to USNRC suggested revisions, or disapprove it. In any event, the RES project manager 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 USNRC-sponsored research is contained in USNRC Management Directives 3.8 and 3.9).

TERMS AND CONDITIONS

A.1 NOTICE LISTING CLAUSES INCORPORATED BY REFERENCE

The following clauses 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" contained in this document. FAR 52.252-2 contains the internet address for electronic access to the full text of a clause.

NUMBER	TITLE	DATE
	FEDERAL ACQUISITION REGULATION (48 CFR Chapter 1)	
52.213-3	NOTICE TO SUPPLIER	APR 1984
52.222-42	STATEMENT OF EQUIVALENT RATES FOR FEDERAL HIRES	MAY 1989
52.223-6	DRUG-FREE WORKPLACE	MAY 2001
52.225-13	RESTRICTIONS ON CERTAIN FOREIGN PURCHASES	FEB 2006
52.233-4	APPLICABLE LAW FOR BREACH OF CONTRACT CLAIM	OCT 2004
52.237-1	SITE VISIT	APR 1984
52.237-2	PROTECTION OF GOVERNMENT BUILDINGS, EQUIPMENT, AND VEGETATION	APR 1984
52.243-1	CHANGES--FIXED PRICE ALTERNATE I (APR 1984)	AUG 1987

A.2 52.213-4 TERMS AND CONDITIONS - SIMPLIFIED ACQUISITIONS (OTHER THAN COMMERCIAL ITEMS) (MAR 2007)

(a) The Contractor shall comply with the following Federal Acquisition Regulation (FAR) clauses that are incorporated by reference:

(1) The clauses listed below implement provisions of law or Executive order:

(i) 52.222-3, Convict Labor (June 2003) (E.O. 11755).

(ii) 52.222-21, Prohibition of Segregated Facilities (Feb 1999) (E.O. 11246).

(iii) 52.222-26, Equal Opportunity (Mar 2007) (E.O. 11246).

(iv) 52.225-13, Restrictions on Certain Foreign Purchases (Feb 2006) (E.o.s, proclamations, and statutes administered by the Office of Foreign Assets Control of the Department of the Treasury).

(v) 52.233-3, Protest After Award (Aug 1996) (31 U.S.C. 3553).

(vi) 52.233-4, Applicable Law for Breach of Contract Claim (Oct 2004) (Pub. L. 108-77, 108-78).

(2) Listed below are additional clauses that apply:

(i) 52.232-1, Payments (Apr 1984).

(ii) 52.232-8, Discounts for Prompt Payment (Feb 2002).

(iii) 52.232-11, Extras (Apr 1984).

(iv) 52.232-25, Prompt Payment (Oct 2003).

(v) 52.233-1, Disputes (Jul 2002).

(vi) 52.244-6, Subcontracts for Commercial Items (Mar 2007).

(vii) 52.253-1, Computer Generated Forms (Jan 1991).

(b) The Contractor shall comply with the following FAR clauses, incorporated by reference, unless the circumstances do not apply:

(1) The clauses listed below implement provisions of law or Executive order:

(i) 52.222-19, Child Labor--Cooperation with Authorities and Remedies (Jan 2006) (E.O. 13126). (Applies to contracts for supplies exceeding the micro-purchase threshold.)

(ii) 52.222-20, Walsh-Healey Public Contracts Act (Dec 1996) (41 U.S.C. 35-45) (Applies to supply contracts over \$10,000 in the United States, Puerto Rico, or the U.S. Virgin Islands).

(iii) 52.222-35, Equal Opportunity for Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans (Sept 2006) (38 U.S.C. 4212) (Applies to contracts of \$100,000 or more).

(iv) 52.222-36, Affirmative Action for Workers with Disabilities (June 1998) (29 U.S.C. 793). (Applies to contracts over \$10,000, unless the work is to be performed outside the United States by employees recruited outside the United States.) (For purposes of this clause, United States includes the 50 States, the District of Columbia, Puerto Rico, the Northern Mariana Islands, American Samoa, Guam, the U.S. Virgin Islands, and Wake Island.)

(v) 52.222-37, Employment Reports on Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans (Sept 2006) (38 U.S.C. 4212) (Applies to contracts of \$100,000 or more).

(vi) 52.222-41, Service Contract Act of 1965, As Amended (July 2005) (41 U.S.C. 351, et seq.) (Applies to service contracts over \$2,500 that are subject to the Service Contract Act and will be performed in the United States, District of Columbia, Puerto Rico, the Northern Mariana Islands, American Samoa, Guam, the U.S. Virgin Islands, Johnston Island, Wake Island, or the outer continental shelf lands).

(vii) 52.223-5, Pollution Prevention and Right-to-Know Information (Aug 2003) (E.O. 13148) (Applies to services performed on Federal facilities).

(viii) 52.225-1, Buy American Act--Supplies (June 2003) (41 U.S.C. 10a-10d) (Applies to contracts for supplies, and to contracts for services involving the furnishing of supplies, for use in the United States or its outlying areas, if the value of the supply contract or supply portion of a service contract exceeds the micro-purchase threshold and the acquisition--

(A) Is set aside for small business concerns; or

(B) Cannot be set aside for small business concerns (see 19.502-2), and does not exceed \$25,000.)

(ix) 52.232-33, Payment by Electronic Funds Transfer--Central Contractor Registration (Oct 2003). (Applies when the payment will be made by electronic funds transfer (EFT) and the payment office uses the Central Contractor Registration (CCR) database as its source of EFT information.)

(x) 52.232-34, Payment by Electronic Funds Transfer--Other than Central Contractor Registration (May 1999). (Applies when the payment will be made by EFT and the payment office does not use the CCR database as its source of EFT information.)

(xi) 52.247-64, Preference for Privately Owned U.S.-Flag Commercial Vessels (Feb 2006) (46 U.S.C. Appx 1241). (Applies to supplies transported by ocean vessels (except for the types of subcontracts listed at 47.504(d).)

(2) Listed below are additional clauses that may apply:

(i) 52.209-6, Protecting the Government's Interest When Subcontracting with Contractors Debarred, Suspended, or Proposed for Debarment (Sept 2006) (Applies to contracts over \$30,000).

(ii) 52.211-17, Delivery of Excess Quantities (Sept 1989) (Applies to fixed-price supplies).

(iii) 52.247-29, F.o.b. Origin (Feb 2006) (Applies to supplies if delivery is f.o.b. origin).

(iv) 52.247-34, F.o.b. Destination (Nov 1991) (Applies to supplies if delivery is f.o.b. destination).

(c) FAR 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>

(d) Inspection/Acceptance. The Contractor shall tender for acceptance only those items that conform to the requirements of this contract. The Government reserves the right to inspect or test any supplies or services that have been tendered for acceptance. The Government may require repair or replacement of nonconforming supplies or reperformance of nonconforming services at no increase in contract price. The Government must exercise its postacceptance rights--

(1) Within a reasonable period of time after the defect was discovered or should have been discovered; and

(2) Before any substantial change occurs in the condition of the item, unless the change is due to the defect in the item.

(e) Excusable delays. The Contractor shall be liable for default unless nonperformance is caused by an occurrence beyond the reasonable control of the Contractor and without its fault or negligence, such as acts of God or the public enemy, acts of the Government in either its sovereign or contractual capacity, fires, floods, epidemics, quarantine restrictions, strikes, unusually severe weather, and delays of common carriers. The Contractor shall notify the Contracting Officer in writing as soon as it is reasonably possible after the commencement of any excusable delay, setting forth the full particulars in connection therewith, shall remedy such occurrence with all reasonable dispatch, and shall promptly give written notice to the Contracting Officer of the cessation of such occurrence.

(f) Termination for the Government's convenience. The Government reserves the right to terminate this contract, or any part hereof, for its sole convenience. In the event of such termination, the

Contractor shall immediately stop all work hereunder and shall immediately cause any and all of its suppliers and subcontractors to cease work. Subject to the terms of this contract, the Contractor shall be paid a percentage of the contract price reflecting the percentage of the work performed prior to the notice of termination, plus reasonable charges that the Contractor can demonstrate to the satisfaction of the Government, using its standard record keeping system, have resulted from the termination. The Contractor shall not be required to comply with the cost accounting standards or contract cost principles for this purpose. This paragraph does not give the Government any right to audit the Contractor's records. The Contractor shall not be paid for any work performed or costs incurred that reasonably could have been avoided.

(g) Termination for cause. The Government may terminate this contract, or any part hereof, for cause in the event of any default by the Contractor, or if the Contractor fails to comply with any contract terms and conditions, or fails to provide the Government, upon request, with adequate assurances of future performance. In the event of termination for cause, the Government shall not be liable to the Contractor for any amount for supplies or services not accepted, and the Contractor shall be liable to the Government for any and all rights and remedies provided by law. If it is determined that the Government improperly terminated this contract for default, such termination shall be deemed a termination for convenience.

(h) Warranty. The Contractor warrants and implies that the items delivered hereunder are merchantable and fit for use for the particular purpose described in this contract.

A.3 CONSIDERATION AND OBLIGATION—LABOR HOUR

- (a) The total NOT TO EXCEED estimated cost to the Government for full performance under this contract is **\$26,306.00**.
- (b) The amount presently obligated by the Government with respect to this contract is **\$25,000.00**.
- (c) **Contractor shall NOT exceed presently obligated amount.**

A.4 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 209.570-2 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 therefore (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.

A.5 PROJECT OFFICER AUTHORITY ALTERNATE 2 (FEBRUARY 2004)

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

Name: William Krotiuk

Address: US Nuclear Regulatory Commission
11545 Rockville Pike (T10-K8)
Rockville, MD 20852

Telephone Number: 301-415-6839

(b) The project officer shall:

(1) Monitor contractor performance and recommend changes in requirements to the contracting officer.

(2) Inspect and accept products/services provided under the contract.

(3) Review all contractor invoices/vouchers requesting payment for products/services provided under the contract and make recommendations for approval, disapproval, or suspension.

(4) Immediately notify the Security Branch, Division of Facilities and Security (SB/DFS) (via e-mail) when a contractor employee no longer requires access authorization and return of any NRC issued badge to SB/DFS within three days after their termination.

(c) The project officer may not make changes to the express terms and conditions of this contract.

*To be incorporated into any resultant contract

A.6 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.

A.7 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).

A.8 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 copies)

William Krotiuk RES/DRASP/NRCA T-10 K8

- (b) Contracting Officer (1 copy)

A.9 2052.215-78 TRAVEL APPROVALS AND REIMBURSEMENT -ALTERNATE 1 (OCT 1999)

- (a) Total expenditure for travel may not exceed \$5,550.00 without the prior approval of the contracting officer.

(b) 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 prior to the commencement of travel.

(c) The contractor will be reimbursed only for those travel costs incurred that are directly related to this contract and which 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 FAR Limitations of Cost clause of this contract when, at any time, the contractor learns that travel expenses will cause the contractor to exceed the travel ceiling amount identified in paragraph (a) of this clause.

(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.

A.10 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.

A.11 Compliance with U.S. Immigration Laws and Regulations

NRC contractors are responsible to ensure that their alien personnel are not in violation of United States Immigration and Naturalization (INS) laws and regulations, including employment authorization documents and visa requirements. Each alien employee of the Contractor must be lawfully admitted for

permanent residence as evidenced by Alien Registration Receipt Card Form 1-151 or must present other evidence from the Immigration and Naturalization Services that employment will not affect his/her immigration status. The INS Office of Business Liaison (OBL) provides information to contractors to help them understand the employment eligibility verification process for non-US citizens. This information can be found on the INS website, <http://www.ins.usdoj.gov/graphics/services/employerinfo/index.htm#obl>.

The NRC reserves the right to deny or withdraw Contractor use or access to NRC facilities or its equipment/services, and/or take any number of contract administrative actions (e.g., disallow costs, terminate for cause) should the Contractor violate the Contractor's responsibility under this clause.