

SOLICITATION/CONTRACT/ORDER FOR COMMERCIAL ITEMS OFFEROR TO COMPLETE BLOCKS 12, 17, 23, 24, & 30				1. REQUISITION NO. RES-06-100	BPA NO.
2. CONTRACT NO.	3. AWARD/EFFECTIVE DATE 10-01-2006	4. ORDER NO. DR-04-06-100	MODIFICATION NO.	5. SOLICITATION NO.	6. SOLICITATION ISSUE DATE
7. FOR SOLICITATION INFORMATION CALL:	a. NAME JENNIFER DEFINO		b. TELEPHONE NO. (No Collect Calls) 301-415-6714		8. OFFER DUE DATE/LOCAL TIME
9. ISSUED BY U.S. Nuclear Regulatory Commission Div. of Contracts Attn: Jennifer A. DeFino, 301-415-6714 Mail Stop T-7-I-2 Washington, DC 20555		CODE 3100	10. THIS ACQUISITION IS <input checked="" type="checkbox"/> UNRESTRICTED OR <input type="checkbox"/> SET ASIDE: % FOR: <input type="checkbox"/> SMALL BUSINESS <input type="checkbox"/> EMERGING SMALL BUSINESS <input type="checkbox"/> HUBZONE SMALL BUSINESS <input type="checkbox"/> SERVICE-DISABLED VETERAN-OWNED SMALL BUSINESS 8(A) NAICS: 813312 SIZE STANDARD: LARGE		
11. DELIVERY FOR FOB DESTINATION UNLESS BLOCK IS MARKED <input checked="" type="checkbox"/> SEE SCHEDULE	12. DISCOUNT TERMS N/A	<input type="checkbox"/> 13a. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 700)		13b. RATING N/A	
15. DELIVER TO U.S. Nuclear Regulatory Commission Washington DC 20555		CODE	16. ADMINISTERED BY U.S. Nuclear Regulatory Commission Div. of Contracts Mail Stop T-7-I-2 Washington, DC 20555		
17a. CONTRACTOR/OFFEROR CODE 161011064 FACILITY CODE		18a. PAYMENT WILL BE MADE BY U.S. Nuclear Regulatory Commission Payment Team, Mail Stop T-9-H-4 Attn: DR-04-06-100 Washington DC 20555		CODE 3100	
<input type="checkbox"/> 17b. CHECK IF REMITTANCE IS DIFFERENT AND PUT SUCH ADDRESS IN OFFER		<input type="checkbox"/> 18b. SUBMIT INVOICES TO ADDRESS SHOWN IN BLOCK 18a UNLESS BLOCK BELOW IS CHECKED <input type="checkbox"/> SEE ADDENDUM			

19. ITEM NO.	20. SCHEDULE OF SUPPLIES/SERVICES	21. QUANTITY	22. UNIT	23. UNIT PRICE	24. AMOUNT
001	Purchase Order for the following services: Regulatory Membership Fees for full participation in the North American Technical Center (NATC), Information System on Occupational Exposure (ISOE). Membership to include full participation in all NATC and ISOE research activities, technical reports and software normally available to regulatory agencies. The Contractor's letter proposal dated June 1, 2006 (Attachment B) is hereby incorporated and made part of this order. Period of Performance: October 1, 2006 - September 30, 2007				\$36,000.00
002	OPTION YEAR 1- Regulatory Membership Fees for full participation in the North American Technical Center (NATC), Information System on Occupational Exposure (ISOE). Membership to include full participation in all NATC and ISOE research activities, technical reports and software normally available to regulatory agencies. Period of Performance: October 1, 2007 - September 30, 2008				\$39,000.00
SUBTOTAL					\$75,000.00

25. ACCOUNTING AND APPROPRIATION DATA B&R: 66015111207 Job Code: N6348 BOC: 252A Appro. No.: 31X0200.660 Obligate: \$36,000.00			28. TOTAL AWARD AMOUNT (For Govt. Use Only) \$36,000.00		
<input type="checkbox"/> 27a. SOLICITATION INCORPORATES BY REFERENCE FAR 52.212-1, 52.212-4. FAR 52.212-3 AND 52.212-5 ARE ATTACHED. ADDENDA			<input type="checkbox"/> ARE <input type="checkbox"/> ARE NOT ATTACHED.		
<input checked="" type="checkbox"/> 27b. CONTRACT/PURCHASE ORDER INCORPORATES BY REFERENCE FAR 52.212-4. FAR 52.212-5 IS ATTACHED. ADDENDA			<input type="checkbox"/> ARE <input checked="" type="checkbox"/> ARE NOT ATTACHED.		
28. CONTRACTOR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE. CONTRACTOR AGREES TO FURNISH AND DELIVER ALL ITEMS SET FORTH OR OTHERWISE IDENTIFIED ABOVE AND ON ANY ADDITIONAL SHEETS SUBJECT TO THE TERMS AND CONDITIONS SPECIFIED HEREIN.			29. AWARD OF CONTRACT: REFERENCE _____ OFFER DATED _____ YOUR OFFER ON SOLICITATION (BLOCK 5), INCLUDING ANY ADDITIONS OR CHANGES WHICH ARE SET FORTH HEREIN IS ACCEPTED AS TO ITEMS:		
30a. SIGNATURE OF OFFEROR/CONTRACTOR <i>Donald W. Miller</i>			31a. UNITED STATES OF AMERICA (SIGNATURE OF CONTRACTING OFFICER) <i>Donald A. King</i>		
30b. NAME AND TITLE OF SIGNER (TYPE OR PRINT) NATC Regional Director, ISOE		30c. DATE SIGNED 9/16/06	31b. NAME OF CONTRACTING OFFICER (TYPE OR PRINT) Donald A. King Contracting Officer		31c. DATE SIGNED 9/12/06

ITEM NO.	20. SCHEDULE OF SUPPLIES/SERVICES	21. QUANTITY	22. UNIT	23. UNIT PRICE	24. AMOUNT
	<p>NRC reserves the right to exercise OPTION YEAR 1.</p> <p>IF NRC ELECTS TO EXERCISE OPTION YEAR 1, THIS ORDER WILL BE MODIFIED AT A FUTURE DATE TO ADD ADDITIONAL FUNDS CONTINGENT UPON THEIR AVAILABILITY. NO LEGAL LIABILITY ON THE PART OF THE GOVERNMENT MAY ARISE FOR PERFORMANCE BEYOND THE AMOUNT OF THE BASE YEAR OF THIS ORDER WHICH IS \$36,000.00. THE TOTAL AMOUNT FOR THIS PURCHASE ORDER INCLUDING THE BASE YEAR IS \$75,000.00.</p> <p>NRC Project Officer: Harriet Karagiannis Phone: (301) 415-6377 Mail: U.S. Nuclear Regulatory Commission Attn Mail Stop: T-9-F31 Washington, DC 20555</p>	[REDACTED]	YR	[REDACTED]	\$ 36,000

32a. QUANTITY IN COLUMN 21 HAS BEEN

RECEIVED INSPECTED ACCEPTED, AND CONFORMS TO THE CONTRACT, EXCEPT AS NOTED: _____

32b. SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE	32c. DATE	32d. PRINTED NAME AND TITLE OF AUTHORIZED GOVERNMENT REPRESENTATIVE
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32e. MAILING ADDRESS OF AUTHORIZED GOVERNMENT REPRESENTATIVE	32f. TELEPHONE NUMBER OF AUTHORIZED GOVERNMENT REPRESENTATIVE
	32g. E-MAIL OF AUTHORIZED GOVERNMENT REPRESENTATIVE

33. SHIP NUMBER <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL	34. VOUCHER NUMBER	35. AMOUNT VERIFIED CORRECT FOR	36. PAYMENT <input type="checkbox"/> COMPLETE <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL	37. CHECK NUMBER
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38. S/R ACCOUNT NUMBER	39. S/R VOUCHER NUMBER	40. PAID BY
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41a. I CERTIFY THIS ACCOUNT IS CORRECT AND PROPER FOR PAYMENT 41b. SIGNATURE AND TITLE OF CERTIFYING OFFICER	42a. RECEIVED BY (Print)
	42b. RECEIVED AT (Location)
	42c. DATE REC'D (YYMM/DD) 42d. TOTAL CONTAINERS

ADDITIONAL SIMPLIFIED ACQUISITION 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
52.223-6	FEDERAL ACQUISITION REGULATION (48 CFR Chapter 1) DRUG-FREE WORKPLACE	MAY 2001
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
52.217-7	OPTION FOR INCREASED QUANTITY--SEPARATELY PRICED LINE ITEM	MAR 1989

A.2 52.212-5 CONTRACT TERMS AND CONDITIONS REQUIRED TO IMPLEMENT STATUTES OR EXECUTIVE ORDERS--COMMERCIAL ITEMS (FEB 2006)

(a) The Contractor shall comply with the following Federal Acquisition Regulation (FAR) clauses, which are incorporated in this contract by reference, to implement provisions of law or Executive orders applicable to acquisitions of commercial items:

(1) 52.233-3, Protest after Award (AUG 1996) (31 U.S.C. 3553).

(2) 52.233-4, Applicable Law for Breach of Contract Claim (OCT 2004) (Pub. L. 108-77, 108-78)

(b) The Contractor shall comply with the FAR clauses in this paragraph (b) that the Contracting Officer has indicated as being incorporated in this contract by reference to implement provisions of law or Executive orders applicable to acquisitions of commercial items: [Contracting Officer check as appropriate.]

(1) 52.203-6, Restrictions on Subcontractor Sales to the Government (JUL 1995), with Alternate I (OCT 1995)(41 U.S.C. 253g and 10 U.S.C. 2402).

(2) 52.219-3, Notice of Total HUBZone Set-Aside (JAN 1999) (15 U.S.C. 657a).

(3) 52.219-4, Notice of Price Evaluation Preference for HUBZone Small Business Concerns (JUL 2005) (if the offeror elects to waive the preference, it shall so indicate in its offer) (15 U.S.C. 657a).

(4) [Reserved]

(5)(i) 52.219-6, Notice of Total Small Business Set-Aside (JUNE 2003) (15 U.S.C. 644).

(ii) Alternate I (OCT 1995) of 52.219-6.

(iii) Alternate II (MAR 2004) of 52.219-6.

(6)(i) 52.219-7, Notice of Partial Small Business Set-Aside (JUNE 2003) (15 U.S.C. 644).

(ii) Alternate I (OCT 1995) of 52.219-7.

(iii) Alternate II (MAR 2004) of 52.219-7.

(7) 52.219-8, Utilization of Small Business Concerns (MAY 2004) (15 U.S.C. 637 (d)(2) and (3)).

(8)(i) 52.219-9, Small Business Subcontracting Plan (JUL 2005) (15 U.S.C. 637(d)(4)).

(ii) Alternate I (OCT 2001) of 52.219-9.

(iii) Alternate II (OCT 2001) of 52.219-9.

(9) 52.219-14, Limitations on Subcontracting (DEC 1996) (15 U.S.C. 637(a)(14)).

(10)(i) 52.219-23, Notice of Price Evaluation Adjustment for Small Disadvantaged Business Concerns (SEP 2005) (10 U.S.C. 2323) (if the offeror elects to waive the adjustment, it shall so indicate in its offer).

(ii) Alternate I (JUNE 2003) of 52.219-23.

(iii) Alternate II (OCT 1998) of 52.219-23.

(11) 52.219-25, Small Disadvantaged Business Participation Program--Disadvantaged Status and Reporting (OCT 1999) (Pub. L. 103-355, section 7102, and 10 U.S.C. 2323).

(12) 52.219-26, Small Disadvantaged Business Participation Program--Incentive Subcontracting (OCT 2000) (Pub. L. 103-355, section 7102, and 10 U.S.C. 2323).

(13) 52.219-27, Notice of Total Service-Disabled Veteran-Owned Small Business Set-Aside (May 2004)

(14) 52.222-3, Convict Labor (JUNE 2003) (E.O. 11755).

(15) 52.222-19, Child Labor--Cooperation with Authorities and Remedies (JAN 2006) (E.O. 13126).

(16) 52.222-21, Prohibition of Segregated Facilities (FEB 1999).

(17) 52.222-26, Equal Opportunity (APR 2002) (E.O. 11246).

(18) 52.222-35, Equal Opportunity for Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans (DEC 2001) (38 U.S.C. 4212).

(19) 52.222-36, Affirmative Action for Workers with Disabilities (JUN 1998) (29 U.S.C. 793).

(20) 52.222-37, Employment Reports on Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans (DEC 2001) (38 U.S.C. 4212).

(21) 52.222-39, Notification of Employee Rights Concerning Payment of Union Dues or Fees (DEC 2004) (E.O. 13201).

(22)(i) 52.223-9, Estimate of Percentage of Recovered Material Content for EPA-Designated Products (AUG 2000) (42 U.S.C. 6962(c)(3)(A)(ii)).

(ii) Alternate I (AUG 2000) of 52.223-9 (42 U.S.C. 6962(i)(2)(C)).

(23) 52.225-1, Buy American Act--Supplies (JUNE 2003) (41 U.S.C. 10a-10d).

(24)(i) 52.225-3, Buy American Act--Free Trade Agreements-- Israeli Trade Act (JAN 2006) (41 U.S.C. 10a-10d, 19 U.S.C. 3301 note, 19 U.S.C. 2112 note, Pub. L. 108-77, 108-78, 108-286).

(ii) Alternate I (JAN 2006) of 52.225-3.

(iii) Alternate II (JAN 2006) of 52.225-3.

(25) 52.225-5, Trade Agreements (JAN 2006) (19 U.S.C. 2501, et seq., 19 U.S.C. 3301 note).

(26) 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).

(27) 52.225-15, Sanctioned European Union Country End Products (FEB 2000) (E.O. 12849).

(28) 52.225-16, Sanctioned European Union Country Services (FEB 2000) (E.O. 12849).

(29) 52.232-29, Terms for Financing of Purchases of Commercial Items (FEB 2002) (41 U.S.C. 255(f), 10 U.S.C. 2307(f)).

(30) 52.232-30, Installment Payments for Commercial Items (OCT 1995) (41 U.S.C. 255(f), 10 U.S.C. 2307(f)).

(31) 52.232-33, Payment by Electronic Funds Transfer--Central Contractor Registration (OCT 2003) (31 U.S.C. 3332).

(32) 52.232-34, Payment by Electronic Funds Transfer--Other than Central Contractor Registration (MAY 1999) (31 U.S.C. 3332).

(33) 52.232-36, Payment by Third Party (MAY 1999) (31 U.S.C. 3332).

(34) 52.239-1, Privacy or Security Safeguards (AUG 1996) (5 U.S.C. 552a).

(35)(i) 52.247-64, Preference for Privately Owned U.S.-Flag Commercial Vessels (FEB 2006) (46 U.S.C. Appx 1241(b) and 10 U.S.C. 2631).

(ii) Alternate I (APR 2003) of 52.247-64.

(c) The Contractor shall comply with the FAR clauses in this paragraph (c), applicable to commercial services, that the Contracting Officer has indicated as being incorporated in this contract by reference to implement provisions of law or Executive orders applicable to acquisitions of commercial items: [Contracting Officer check as appropriate.]

(1) 52.222-41, Service Contract Act of 1965, as Amended (JUL 2005) (41 U.S.C. 351, et seq.).

(2) 52.222-42, Statement of Equivalent Rates for Federal Hires (MAY 1989) (29 U.S.C. 206 and 41 U.S.C. 351, et seq.).

(3) 52.222-43, Fair Labor Standards Act and Service Contract Act--Price Adjustment (Multiple Year and Option Contracts) (MAY 1989) (29 U.S.C. 206 and 41 U.S.C. 351, et seq.).

(4) 52.222-44, Fair Labor Standards Act and Service Contract Act--Price Adjustment (February 2002) (29 U.S.C. 206 and 41 U.S.C. 351, et seq.).

(5) 52.222-47, SCA Minimum Wages and Fringe Benefits Applicable to Successor Contract Pursuant to Predecessor Contractor Collective Bargaining Agreements (CBA) (May 1989) (41 U.S.C. 351, et seq.).

(d) Comptroller General Examination of Record. The Contractor shall comply with the provisions of this paragraph (d) if this contract was awarded using other than sealed bid, is in excess of the simplified acquisition threshold, and does not contain the clause at 52.215-2, Audit and Records--Negotiation.

(1) The Comptroller General of the United States, or an authorized representative of the Comptroller General, shall have access to and right to examine any of the Contractor's directly pertinent records involving transactions related to this contract.

(2) The Contractor shall make available at its offices at all reasonable times the records, materials, and other evidence for examination, audit, or reproduction, until 3 years after final payment under this contract or for any shorter period specified in FAR Subpart 4.7, Contractor Records Retention, of the other clauses of this contract. If this contract is completely or partially terminated, the records relating to the work terminated shall be made available for 3 years after any resulting final termination settlement. Records relating to appeals under the disputes clause or to litigation or the settlement of claims arising under or relating to this contract shall be made available until such appeals, litigation, or claims are finally resolved.

(3) As used in this clause, records include books, documents, accounting procedures and practices, and other data, regardless of type and regardless of form. This does not require the

Contractor to create or maintain any record that the Contractor does not maintain in the ordinary course of business or pursuant to a provision of law.

(e)(1) Notwithstanding the requirements of the clauses in paragraphs (a), (b), (c), and (d) of this clause, the Contractor is not required to flow down any FAR clause, other than those in paragraphs (i) through (vi) of this paragraph in a subcontract for commercial items. Unless otherwise indicated below, the extent of the flow down shall be as required by the clause--

(i) 52.219-8, Utilization of Small Business Concerns (May 2004) (15 U.S.C. 637(d)(2) and (3)), in all subcontracts that offer further subcontracting opportunities. If the subcontract (except subcontracts to small business concerns) exceeds \$500,000 (\$1,000,000 for construction of any public facility), the subcontractor must include 52.219-8 in lower tier subcontracts that offer subcontracting opportunities.

(ii) 52.222-26, Equal Opportunity (April 2002) (E.O. 11246).

(iii) 52.222-35, Equal Opportunity for Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans (December 2001) (38 U.S.C. 4212).

(iv) 52.222-36, Affirmative Action for Workers with Disabilities (June 1998) (29 U.S.C. 793).

(v) 52.222-39, Notification of Employee Rights Concerning Payment of Union Dues or Fees (DEC 2004) (E.O. 13201).

(vi) 52.222-41, Service Contract Act of 1965, as Amended (JUL 2005), flow down required for all subcontracts subject to the Service Contract Act of 1965 (41 U.S.C. 351, et seq.).

(vii) 52.247-64, Preference for Privately Owned U.S.-Flag Commercial Vessels (FEB 2006) (46 U.S.C. Appx 1241(b) and 10 U.S.C. 2631). Flow down required in accordance with paragraph (d) of FAR clause 52.247-64.

(2) While not required, the contractor May include in its subcontracts for commercial items a minimal number of additional clauses necessary to satisfy its contractual obligations.

52.213-3

NOTICE TO SUPPLIER

APR 1984

A.3 NRC Acquisition Clauses - (NRCAR) 48 CFR Ch. 20

A.4 Other Applicable Clauses

See Addendum for the following in full text (if checked)

52.216-18, Ordering

52.216-19, Order Limitations

52.216-22, Indefinite Quantity

52.217-6, Option for Increased Quantity

52.217-7, Option for Increased Quantity Separately Priced Line Item

52.217-8, Option to Extend Services

52.217-9, Option to Extend the Term of the Contract

A.5 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.6 BILLING INSTRUCTIONS FOR FIXED PRICE CONTRACTS (October 2003)

General: The contractor is responsible during performance and through final payment of this contract for the accuracy and completeness of the data within the Central Contractor Registration (CCR) database, and for any liability resulting from the Government's reliance on inaccurate or incomplete CCR data. The contractor shall prepare vouchers or invoices as prescribed herein. **FAILURE TO SUBMIT VOUCHERS/INVOICES IN ACCORDANCE WITH THESE INSTRUCTIONS WILL RESULT IN REJECTION OF THE VOUCHER/INVOICES AS IMPROPER.**

Form: Claims shall be submitted on the payee's letterhead, voucher/invoices, or on the Government's Standard Form 1034, "Public Voucher for Purchases and Services Other than Personal," and Standard Form 1035, "Public Voucher for Purchases Other than Personal--Continuation Sheet." These forms are available from the U.S. Government Printing Office, 710 North Capitol Street, Washington, DC 20401.

Number of Copies: An original and three copies shall be submitted. Failure to submit all the required copies will result in rejection of the voucher/invoice as improper.

Designated Agency Billing Office: Vouchers/Invoices shall be submitted to the following address:

U.S. Nuclear Regulatory Commission
Division of Contracts - T-7-I-2
Washington, DC 20555-0001

A copy of any invoice which includes a purchase of property valued at the time of purchase at \$5000 or more, shall additionally be sent to:

NRC Property Management Officer
Administrative Services Center
Mail Stop - T-7-D-27
Washington, DC 20555-0001

HAND-DELIVERY OF VOUCHERS/INVOICES IS DISCOURAGED AND WILL NOT EXPEDITE PROCESSING BY THE NRC. However, should you choose to deliver vouchers/invoices by hand, including delivery by any express mail service or special delivery service which uses a courier or other person to deliver the vouchers/invoices in person to the NRC, such vouchers/invoices must be addressed to the above Designated Agency Billing Office and will only be accepted at the following location:

U.S. Nuclear Regulatory Commission
One White Flint North - Mail Room
11555 Rockville Pike
Rockville, MD 20852

HAND-CARRIED SUBMISSIONS WILL NOT BE ACCEPTED AT OTHER THAN THE ABOVE ADDRESS

Note that the official receipt date for hand-delivered vouchers/invoices will be the date it is received by the official agency billing office in the Division of Contracts.

Agency Payment Office: Payment will continue to be made by the office designated in the contract in Block 12 of the Standard Form 26 or Block 25 of the Standard Form 33, whichever is applicable.

Frequency: The contractor shall submit a voucher or invoice only after the NRC's final acceptance of services rendered or products delivered in performance of the contract unless otherwise specified in the contract.

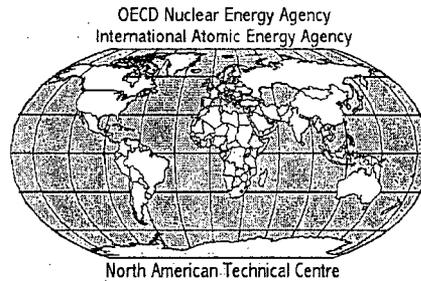
Preparation and Itemization of the Voucher/Invoice: The voucher/invoice shall be prepared in ink or by typewriter (without strike-overs). Corrections or erasures must be initialed. To be considered a proper voucher/invoice, all of the following elements must be included:

1. Contractor's Data Universal Number (DUNS) or DUNS+4 number that identifies the contractor's name and address. The DUNS+4 number is the DUNS number plus a 4-character suffix that may be assigned at the discretion of the contractor to identify alternative Electronic Funds Transfer (EFT) accounts for the same parent concern.
2. Contract number.
3. Sequential voucher/invoice number.
4. Date of voucher/invoice.
5. Payee's name and address. Show the name of the Payee as it appears in the contract and its correct address. If the Payee assigns the proceeds of this contract as provided for in the assignment of claims terms of this contract, the Payee shall require as a condition of any such assignment, that the assignee shall register separately in the Central Contractor Registration (CCR) database at <http://www.ccr.gov> and shall be paid by EFT in accordance with the terms of this contract. See Federal Acquisition Regulation 52.232-33(g) Payment by Electronic Funds Transfer - Central Contractor Registration (October 2003).
6. Description of articles or services, quantity, unit price, and total amount.
7. For contractor acquired property list each item purchased costing \$50,000 or more and having a life expectancy of more than 1 year and provide: (1) an item description, (2) manufacturer, (3) model number, (4) serial number, (5) acquisition cost, (6) date of purchase, and (7) a copy of the purchasing document.
8. Weight and zone of shipment, if shipped by parcel post.

9. Charges for freight or express shipments. Attach prepaid bill if shipped by freight or express.
10. Instructions to consignee to notify the Contracting Officer of receipt of shipment.
11. For Indefinite Delivery contracts or contracts under which progress payments are authorized, the final voucher/invoice shall be marked "FINAL VOUCHER" OR "FINAL INVOICE."

Currency: Billings may be expressed in the currency normally used by the contractor in maintaining his accounting records and payments will be made in that currency. However, the U.S. dollar equivalent for all vouchers/invoices paid under the contract may not exceed the total U.S. dollars authorized in the contract.

ATTACHMENT B



June 1, 2006

Ms. Harriett Karagiannis: MS T-9 C24
Office of Nuclear Regulatory Research
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555-0001

SUBJECT: US NRC Contract Renewal Proposal for Project Title: "Support of the NEA Information System on Occupational Exposure"

REFERENCE: US NRC RES-C03-075 & RES-C03-076

ORDER Number: DR-04-02-076 Mod. 1

Dear Harriett Karagiannis:

The North American Technical Center (NATC), Information System on Occupational Exposure (ISOE), OECD/ Nuclear Energy Agency (NEA)-IAEA has prepared the attached US NRC Contract Renewal Proposal for US Nuclear Regulatory Commission Research Contract Number US NRC RES-C03-075 and 76. The Research Contract Renewal Proposal covers the contract period from October 1, 2006 to September 30, 2008.

The North American Regional Technical Center, ISOE, has expanded the utility membership and occupational dose information studies provided to North American utilities and regulatory members. The Center now has 22 CANDU units, 58 PWR units and 25 BWR units as utility members. Canadian, Mexican and US regulatory agencies also continued their membership and support of the NATC ISOE program.

A new US industry radiation safety task force has noted the value of the annual ISOE international ALARA symposium held in January since 1997. It has been proposed as one of two US industry consolidation meetings to be held each year to promote information exchange and minimize professional time away from nuclear stations. This represents important industry support of the value of the world's largest database on occupational exposure.

The 2005 International ALARA Symposium held on January 11-14, 2005 in Ft. Lauderdale, Florida provided an excellent forum for US Nuclear Regulatory Commission licensees to provide feedback to regulators on the new revisions to the ALARA inspection module. Industry lessons learned were also discussed. Over 150 individuals from 12 countries attended the meeting including 6 US NRC health physics inspectors and NRR staff. Thirty-eight technical papers were presented.

The 2006 North American ALARA Symposium was held January 14-17, 2006 in Orlando, Florida. An excellent forum for NRR discussion of the ALARA regulatory program in the US was provided. The Asian Technical Center, ISOE, decided to develop a similar ALARA symposium for Asian nuclear plants under the ISOE program. Their first symposium was held in November 2005 in Tokyo.

The renewal grant proposal represents the annual subscription fee of \$36,000 for regulatory membership in the NATC ISOE for 2006-2007. The modest increase is to reflect the effects of inflation, higher travel costs and greater technical studies requested by US NRC staff during the contract period. An increase in 2007-2008 to \$39,000 to align the US regulatory agencies contribution more closely with the 1/3 regulator to 2/3 industry ratio used throughout the ISOE program. The 2006-2008 estimated budget is provided in Attachment #1.

The US NRC funds provide for US Nuclear Regulatory Commission full participation in all NATC and ISOE research activities, technical reports and software normally available to regulatory agencies in accord with ISOE NEA Terms and Conditions. NATC has completed additional data analysis studies for NRR during the current contract period. For example, only the ISOE international database has the outage dose and duration numbers for 430 nuclear plants operating globally. This data was important to NRR staff in 2005 for comparisons with US outage duration and dose data for pending rule making.

Also, the Japanese regulatory body determined that the Japanese BWRs were twice as high in occupational dose than US BWRs. It was only through the US NRC funded ISOE program that this determination was made. It resulted in Japanese benchmarking trips to the US NRC and US BWRs in 2005 and 2006 to improve the Japanese plant performance in this area.

NATC is also committed to performing the Verification and Validation of the new web-based ISOE software once it is developed by OCED NEA programmers. The additional budget funds will assist NATC in completing this commitment

The US NRC annual subscription fee is compared with Canadian and Mexican annual fees in Attachment #2. The NATC optional proposal for addition research funding is provided in Attachment #3.

A special research study comparing occupational dose during French and US PWR Reactor Vessel Head Crack inspections, repairs and replacement was initiated in September, 2001. The study is continuing to track dose and duration of PWR head

replacements under 20 standardize work categories to simplify the benchmarking process. The NATC is providing additional standardized task categories for PWR Pressurizer Replacements, Alloy 600 weld overlays, and BWR power up-rate tasks.

Exelon and other US utilities use the NATC annual information sheets on outage, normal and unit outage dose at key performance indicator for their fleet of reactor units. NATC plans to continue to expand the number of standardized dose analysis studies to continue the US effort to reduce occupational dose from important inspection and repair activity. It is important to note that the US PWR reactors reduced their occupational dose 23% from 2003 to 2004. Further dose reductions will be a challenge to achieve. Hence, expanded NATC products and reports to US regulatory and utility professionals will be an important contribution to the mission of occupational dose reduction.

It is important to note that the ISOE program is under the IAEA organization. The IAEA organization and the Director General were awarded the 2005 Noble Peace Prize for contributions to peaceful uses of atomic energy.

NATC ISOE IAEA/ NEA appreciates the financial support the US Nuclear Regulatory Commission has provided the North American Technical Center since 1995. NATC looks forward to future accomplishments in occupational dose reduction based on continued US NRC support of the largest occupational dose database and program in the world.

If you have any questions, please contact me at 217 333-1098.

Sincerely yours,

David W. Miller
NATC Regional Coordinator
Information System on Occupational Exposure

cc: Scott Schofield, Chair, Overview Committee

Budget for 2006-2007
U.S. Nuclear Regulatory Commission
NEA Information System on Occupational Exposure (ISOE)
Research Period: October 1, 2006 – September 30, 2007

Estimated Costs:**Labor:**

NATC Regional Coordinator: \$4000/month x 5 months/yr	\$20,000
Software Consultant \$800/month x 2 months/yr	1,600
Senior ALARA Engineer (Data Analysis): 5hrs/week - \$800/month x 2 months/yr	1,600
ALARA Research Assistant (Data Entry): 10hrs/week - \$1600/month x 2.5 months/yr	4,000
ALARA Secretary 10hrs/week - \$800/month 4 months/yr	3,200

Travel:

Steering Committee Annual Meeting 1 Representative x \$2,400/trip/yr	2,400
NATC Oversight Committee Meeting 1 Representative x 1 Meeting x \$1,200/mtg./yr	1,200

Program Administration:

Computer Hardware & Supplies/yr	600
Printing & Mailing/yr	600
Web Site Maintenance/yr	800
Telephone /yr	400

Total:	<u>\$36,000</u>
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Budget for 2007-2008
U.S. Nuclear Regulatory Commission Research Contract
NEA Information System on Occupational Exposure (ISOE)
Research Period: October 1, 2007 – September 30, 2008

Estimated Costs:

Labor:

NATC Regional Coordinator:
\$4000/month x 5 months/yr
Software Consultant
\$800/month x 2 months/yr
Senior ALARA Engineer (Data Analysis):
5hrs/week - \$800/month x 3 months/yr
ALARA Research Assistant (Data Entry):
10hrs/week - \$1600/month x 3 months/yr
ALARA Secretary
10hrs/week - \$800/month 5 months/yr

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

Travel:

Steering Committee Annual Meeting
1 Representative x \$2,600/trip/yr

NATC Oversight Committee Meeting
1 Representative x 1 Meeting x \$1,200/mtg./yr

[REDACTED]
[REDACTED]

Program Administration:

Computer Hardware & Supplies/yr
Printing & Mailing/yr
Web Site Maintenance/yr
Telephone /yr

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

Total:

\$39,000

Annual Subscription Fee Comparison
North American Technical Center
Information System on Occupational Exposure

I. Utility NARTC Members:

- A. Canadian Units- \$ [REDACTED] * / [REDACTED] nuclear units = [REDACTED] / unit
- B. Mexican Units- \$ [REDACTED] * / [REDACTED] nuclear units = [REDACTED] / unit
- C. United States- \$ [REDACTED] * / [REDACTED] nuclear units = [REDACTED] / unit

II. North American Regulatory Agency Members:

- A. Canadian Nuclear Safety Commission
Ottawa, CANADA-
\$ [REDACTED] fee* / [REDACTED] nuclear units = [REDACTED] / unit
- B. Comision Nacional De Seguridad
Nuclear Y Salvaguardias
Mexico City, MEXICO -
\$ [REDACTED] * / [REDACTED] nuclear units = [REDACTED] / unit

* NATC Annual Fee is in US dollars.

**Proposal for Additional Funding for NATC Compilation
Of Brookhaven ALARA Center Reports and Studies**
U.S. Nuclear Regulatory Commission Research Contract
NEA/IAEA Information System on Occupational Exposure (ISOE)
North American Technical Center, OCED NEA/IAEA
Grant Period: October 1, 2006 to September 30, 2008

The North American Technical Center, Information System on Occupational Exposure, has continued to expand the technical services and products provided within the ISOE system. These technical services are important since they continue to demonstrate the US leadership in the ALARA area to other technical centers and foreign countries.

The US has made significant improvements in annual dose reduction at PWRs in the last five years. However, US BWRs are still challenged by difficult source term issues, large number of equipment repair tasks, and chemistry control issues. The Japanese and French RP professionals have benefited by the NATC ISOE ALARA reports funded by the US NRC.

The Brookhaven ALARA Center was funded by the US NRC for 20 years until 1993. NATC accepted the studies and reports from the Brookhaven ALARA Center in 1995 from the US NRC Research Branch. NATC would now like to place these studies on the NATC website for use by the ISOE regulators and utility ALARA planners. Some of the reports should be updated with current data over the next 5 years. For example, Duke Energy and Exelon management has formally requested NATC ISOE to provide the updated historical Brookhaven ALARA dose studies on the ISOE website.

Additional annual funding is requested for the special project of preparing and inputting historical US Brookhaven ALARA Studies onto the ISOE NATC website. With the retiring of many first generation nuclear employees, the NATC board believes it is important to capture not just current but past radiological incidents that led to unplanned occupational exposures or radiological mishaps. Much of this historical ALARA information is in the Brookhaven ALARA Center databases. This will provide future generations of health physicists with this valuable database to avoid reoccurrence of the same incident.

It is anticipated that the Brookhaven studies would be linked to the ISOE 3 lessons learned database. ISOE 3 database provides a powerful search engine to compile lessons learned by plant component, system, work activity and ALARA function. It is the premier software available to US ISOE industry members.

The additional funding requested for this option for 2006-2007 is \$10,000. The additional funding requested for this option for 2007 to 2008 is \$12,000. Funds would go for the NATC Regional Coordinator and radiological engineering students at

University of Illinois to complete the task of placing the Brookhaven ALARA reports on the NATC ISOE website.

An additional justification for this funding is the need of well trained and skillful radiological engineers for future US NRC employees. This optional project is a good method of interesting undergraduate engineering students in careers with the US NRC.