

1. CONTRACT (Proc. Inst. Ident.) NO. NRC-06-83-267	2. EFFECTIVE DATE 10/26/82	3. REQUISITION/PURCHASE REQUEST/PROJECT NO. RPPA OSP-83-267	4. CERTIFIED FOR NATIONAL DEFENSE UNDER BDSA REG. 2 AND/OR DMS REG. 1. RATING.
5. ISSUED BY U.S. Nuclear Regulatory Commission Division of Contracts, SPS Washington, D. C. 20555		6. ADMINISTERED BY (If other than block 5)	7. DELIVERY FOB DESTINATION <input type="checkbox"/> OTHER (See below)

8. CONTRACTOR NAME AND ADDRESS <i>(Street, city, county, State, and ZIP code)</i> Robert J. Shalek, PH.D. Department of Physics M.D. Anderson Hospital 6723 Bertner Avenue Houston, Texas 77030	9. DISCOUNT FOR PROMPT PAYMENT
10. SUBMIT INVOICES (4 copies unless otherwise specified) TO ADDRESS SHOWN IN BLOCK 12	

11. SHIP TO/MARK FOR U.S. Nuclear Regulatory Commission Office of State Programs Washington, D. C. 20555	12. PAYMENT WILL BE MADE BY U. S. Nuclear Regulatory Commission ORM/Div. of Accounting and Finance Washington, D. C. 20555
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13. THIS PROCUREMENT WAS ADVERTISED, NEGOTIATED, PURSUANT TO: 10 U.S.C. 2304 (a)() 41 U.S.C. 252 (c) 3

14. ACCOUNTING AND APPROPRIATION DATA
31 X0200.803 80-19-05-02 B5090

15. ITEM NO.	16. SUPPLIES/SERVICES	17. QUANTITY	18. UNIT	19. UNIT PRICE	20. AMOUNT
	"Cobalt Teletherapy Calibration Course"				\$3,000.00
8212070429 821117 PDR CONTR NRC-06-83-267 PDR					

21. TOTAL AMOUNT OF CONTRACT \$ 3,000.00

22. CONTRACTOR'S NEGOTIATED AGREEMENT (Contractor is required to sign this document and return 3 copies to issuing office.) Contractor agrees to furnish and deliver all items or perform all the services set forth or otherwise identified above and on any continuation sheets for the consideration stated herein. The rights and obligations of the parties to this contract shall be subject to and governed by the following documents: (a) this award/contract, (b) the solicitation, if any, and (c) such provisions, representations, certifications, and specifications, as are attached or incorporated by reference herein. (Attachments are listed herein.)

26. AWARD (Contractor is not required to sign this document.) Your offer on Solicitation Number _____, including the additions or changes made by you which additions or changes are set forth in full above, is hereby accepted as to the items listed above and on any continuation sheets. This award consummates the contract which consists of the following documents: (a) the Government's solicitation and your offer, and (b) this award/contract. No further contractual document is necessary.

23. NAME OF CONTRACTOR BY _____ (Signature of person authorized to sign)

27. UNITED STATES OF AMERICA BY _____ (Signature of Contracting Officer)

24. NAME AND TITLE OF SIGNER
E. R. Gilley
Executive VP for Admin. & Fin.

25. DATE SIGNED

28. NAME OF CONTRACTING OFFICER (Type or print)

29. DATE SIGNED
11/30/82

ARTICLE I - SCOPE OF WORK

The Contractor shall furnish the necessary qualified personnel, facilities, materials and services to prepare and conduct one training course with an option for a second course at a later and mutually agreeable date during fiscal year 1983.

1. Description of Course

Each training course shall be three (3) days in duration with a class size of approximately twelve students. All attendees will be preselected by the Nuclear Regulatory Commission (NRC), Office of State Programs. The course objectives shall be accomplished through a combination of lectures, discussions and hands-on demonstrations of measurement techniques. In particular the course shall accomplish the following.

- a. Provide a working knowledge of all facets of the design, use and limitations of cobalt teletherapy units.
- b. Provide a working knowledge of the procedures for calibration of cobalt teletherapy units.
- c. Provide a working knowledge of the analysis techniques and precautions used to verify reported radiation output from the teletherapy unit.
- d. Provide a general familiarity of National Standards (NBS, ANSI) and procedures.

2. Examination

Students will demonstrate attainment of the required level of knowledge by successful completion of a written examination at the conclusion of the course.

3. General Requirements

- a. The course shall be conducted by a licensed medical institution with experience in the therapeutic uses of radioactive material and where training for therapeutic or medical physicists is conducted.
- b. There shall be at least one board certified therapeutic or medical physicist involved in the planning and presentation of this course.

4. Reporting Requirements

A report or letter shall be submitted to the Office of State Programs no later than 90 days after the completion of each course and shall include:

- a. the original of each graded examination
- b. a completed course evaluation from each student

5. Place of Delivery

The report (or letter) specified above shall be delivered to:

U. S. Nuclear Regulatory Commission
Office of State Programs
Attn: Mr. Lloyd A. Bolling
AR-5233
Washington, D. C. 20555

ARTICLE II - PERIOD OF PERFORMANCE

The period of performance under this contract will commence on November 17, 1982 and shall end on November 19, 1982.

ARTICLE III - CONSIDERATION

A. Basic Year

In full consideration of the contractor's performance hereunder, the NRC shall pay the contractor the firm-fixed price of \$3,000.00 for the course that is given in November, 1982.

B. Option for Second Course

In full consideration of the contractor's performance hereunder, the NRC shall pay the contractor the firm-fixed fee of \$3,000.00 for the Second Course at a later and mutually agreeable date during fiscal year 1983.

ARTICLE IV - OBLIGATION

The amount presently obligated by the NRC with respect to this contract is Three Thousand dollars (\$3,000.00) for the course conducted on November 17, 1982 through November 19, 1982.

Upon execution of Option B under ARTICLE II - CONSIDERATION, the amount presently obligated by the NRC with respect to this contract is \$3,000.00.

ARTICLE V - PAYMENT

Payment shall be made in accordance with Clause 2 of the General Provisions entitled "Payment" as soon as practicable after successful completion of each course and upon submission by the contractor of voucher(s) in a form satisfactory to the Contracting Officer, provided, however, that said payment(s) shall not be deemed to prejudice any rights which the Government may have by law or under other provisions of this contract.

In the absence of a discount, the contractor shall be paid upon the submission of a proper and correct invoice or voucher in approximately thirty days after submission or date of delivery, whichever is later, the prices stipulated herein for supplies delivered and accepted or services rendered and accepted, as herein provided.

ARTICLE VI - PROJECT OFFICER

Mr. Lloyd A. Bolling is hereby designated as the Contracting Officer's authorized representative (hereinafter called Project Officer) for technical aspects of this contract. The Project Officer is not authorized to approve or request any action which results in or could result in an increase in contract costs; nor to terminate or settle any claim or dispute arising under the contract; nor to issue any unilateral directive whatever.

The Project Officer is responsible for:

1. monitoring the contractor's technical progress, including surveillance and assessment of performance, and recommending to the Contracting Officer changes in requirements;
2. interpreting the scope of work;
3. performing technical evaluation as required;
4. performing technical inspections and acceptances required by this contract; and
5. assisting the contractor in the resolution of technical problems encountered during performance.

Within the purview of this authority, the Project Officer is authorized to review all costs requested for reimbursement by the Contractor and submit recommendations for approval, disapproval, or suspension for supplies/services required under the contract. The Contracting Officer is responsible for directing or negotiating any changes in terms, conditions, or amounts cited in the contract.

For guidance from the Project Officer to the contractor to be valid, it must;

1. be consistent with the description of work set forth in this contract;
2. not constitute new assignment of work or change of the expressed terms, conditions, or specifications incorporated into this contract;
3. not constitute a basis for an extension to the period of performance or contract delivery schedule; and
4. not constitute a basis for any increase in the contract price.

ARTICLE VII - GENERAL PROVISIONS

This contract is subject to the Fixed Price Research and Development Contracts Under \$10,000.00 General Provisions, dated November 14, 1977 which incorporates the FPR Changes and Additions and NRC Additions, which is attached hereto and made a part hereof.