

**REQUEST FOR QUOTATION  
SOLICITATION - RQ. 50875073**

**DATE ISSUED: 11/16/98**

**ISSUED BY: U.S. Nuclear Regulatory Commission  
ATTN: Yvette Brown  
Division of Contracts - Mail Stop T-712  
Washington, DC 20555  
Telephone No. 301-415-6507 - Facsimile No. 301-415-8157**

To Offerors listed on Attachment 1

**Please furnish quotations to the issuing office on or before 3:00 P.M. Eastern Standard Time, Monday, December 7, 1998**

Offeror shall provide a firm fixed price quote for a requirements type purchase order for whole body dosimeter as specified in the attached Statement of Work (SOW) (Attachment 2).

**PRICE SCHEDULE: Base Year and Option Year(s)**

	<u>Quantity</u>	<u>Unit Price</u>	<u>Total</u>
Beta-gamma dosimeter	4,000 EA	_____	_____
Beta-gamma-neutron dosimeter	500 EA	_____	_____
Environmental TLD	80 EA	_____	_____
TLD Finger estimated	10 EA	_____	_____
Emergency processing - estimated	10 EA	_____	_____
Replacement of lost or damaged dosimeters or holders - estimated	50 EA	_____	_____
One time set-up charge for 1,000 employees	1 EA	_____	_____
Duplicate printouts - estimated per page	260 PG	_____	_____

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The following clauses will be incorporated in the resulting purchase order:  
FAR 52.232-33 Mandatory Information for Electronic Funds Transfer Payment  
FAR 52.216-21 Requirements

Offeror shall address the evaluation criteria in full at Attachment 3.

Offeror shall provide their business size/type, CEC number, and tax identification.

The NRC shall evaluate an offeror's proposal from the perspective of technical qualifications, evidence of satisfactory past performance, and price. Although cost is a factor, past performance will be weighted more heavily than price.

BIDDER'S MAILING LIST FOR  
SOLICITATION NUMBER: RS-508-75-073

COMPANY (Large Businesses are Identified with an Asterisk)	PHONE / FAX
ICN DOSIMETRY DIVISON WENDY 3300 HYLAND AVENUE COSTA MESA, CA 92626	1-800-888-1936 1-714-668-3149
LANDUER, INC. EURIE MORRIS 2 SCIENCE ROAD GLENWOOD, IL 60425	708-755-7000 708-755-7011
PROXTRONICS INC. ROGER GRONERT 5795-B BURKE CENTRE PARKWAY BURKE, VA 22015	703-425-4811 703-503-2856
RSO, INC. GREY SMITH P.O.BOX 1526 LAUREL, MD 20725	301-953-2482 301-498-3017

**Statement of Work  
NRC Personnel Monitoring Program**

**1. Background**

The U.S. Nuclear Regulatory Commission (NRC) is a Federal regulatory agency with approximately 1000 personnel (mostly inspectors) monitored with personnel dosimeters. Personnel are located in a headquarters office, 4 regional offices, and resident inspectors that are located at large reactor and fuel cycle facilities throughout the U.S. NRC personnel are exposed to a wide variety of radionuclides during inspections and site visits at NRC-licensed facilities and field sites where NRC licensed operations are being conducted. Most dosimeters are exchanged on a quarterly basis with a small number exchanged on a monthly basis.

**2. Statement of Work**

- (a) **Dosimeter specifications** - The Contractor shall provide a total of 4,500 whole body dosimeters to the NRC. Each dosimeter shall be capable of detecting beta-gamma radiation as specified below. Of the 4,500 dosimeters, 500 shall have the additional capability of detecting neutrons with a fission energy spectrum similar to that found in reactor facilities with energies equal to or greater than 50 keV. Neutron dosimeters shall meet the performance criteria of ANSI N319 (latest revision). Control dosimeters for emergency returns, regular returns, and late returns will be provided with each shipment. Additional control dosimeters shall be provided as requested. The Contractor shall supply the appropriate holders and all necessary instructions for the proper use of the dosimeters. The dosimeters should be designed for "clip-on" attachment to a worker's clothing.

Radiation	Energy Range	Dose Range	Error Limits
x-ray, gamma	0.01 - 10 MeV	0.001 - 500 rems	NVLAP limits
beta	>1.5 MeV	0.01 - 500 rems	NVLAP limits

- (b) **Dosimeter markings and assignment** - Each dosimeter shall be labeled with a unique serial number and the assigned wear period. The label shall have a color code for rapid identification of the wear period and the label shall be resistant to fading/smearing. Both assigned and unassigned dosimeters shall be provided as requested. Assigned dosimeters shall be labeled with the individual employee's name in addition to the serial number and wear period. NRC shall provide the Contractor with the name and social security number of each individual issued an unassigned dosimeter during the wear period in writing by regular mail, facsimile, or electronic mail. The Contractor shall perform one-time assignment of the results of these dosimeters to the appropriate individuals in accordance with the written documentation provided by NRC. Unassigned dosimeters shall remain unassigned unless a permanent assignment is requested by NRC.

- (c) **Program accreditation** - The dosimeters shall be processed in a program that is accredited by the National Institute of Standards and Technology, National Voluntary Laboratory Accreditation Program (NVLAP) for Categories I through VIII of ANSI Standard N13.11. During the period of the contract, the Contractor must maintain a Certificate of Accreditation from NVLAP in accordance with the provisions of 10 CFR 20.1501(c). Any deviations from this criteria within an accredited program must be clearly stated in offeror's bid. The Contractor shall provide copies of all NVLAP inspection reports received during the term of this contract to the NRC Technical Monitor (TM) within ten (10) working days of receiving the reports. The Contractor shall address any change to its NVLAP accreditation status when the inspection reports are submitted to NRC.
- (d) **Delivery of dosimeters** - The Contractor shall deliver dosimeters at the request of the authorized Radiation Safety Officers (RSO) listed below. The Contractor shall provide the requested number and type of dosimeters at least 21 days before the beginning of the assigned wear period, as specified by NRC, and be able to change dosimeter assignments on 10 days notice by telephone or written request (by regular mail, facsimile, or electronic mail). The Contractor shall provide with each dosimetry shipment a written invoice listing the serial number and assigned name (if any) of each dosimeter in the shipment.

**Authorized RSOs:**

1. Radiation Safety Officer, NRC Region I  
475 Allendale Road, King of Prussia, PA 19406-1415
2. Radiation Safety Officer, NRC Region II  
61 Forsyth Street, S.W., Suite 23T85, Atlanta, GA 30303-8931
3. Radiation Safety Officer, NRC Region III  
801 Warrenville Road, Lisle, IL 60532-4351
4. Radiation Safety Officer, NRC Region IV  
611 Ryan Plaza Drive, Suite 400, Arlington, TX 76011-8064
5. Radiation Safety Officer, NRC Headquarters  
Office of Nuclear Material Safety and Safeguards (NMSS)  
Mailstop T8-F5, 11555 Rockville Pike, Rockville, MD 20852
6. Radiation Safety Officer, NRC Headquarters  
Office of Nuclear Reactor Regulation (NRR)  
Mailstop O10-D4, 11555 Rockville Pike, Rockville, MD 20852
7. Radiation Safety Officer, NRC Headquarters  
Office for Analysis and Evaluation of Operational Data (AEOD)  
Mailstop T4-A9, 11555 Rockville Pike, Rockville, MD 20852

- (e) **Return of dosimeters** - Each NRC office shall return dosimeters within fifteen (15) days after the end of the monitoring period. The Contractor shall notify the NRC TM if a return shipment has not been received from an NRC office within twenty (20) days after the end of a monitoring period.
- (f) **Evaluation of dosimeters** - The dosimeters shall be evaluated by the Contractor within ten (10) days after they are received at the contractor's facility. The Contractor shall notify the appropriate RSO by telephone as soon as possible, but not later than one (1) working day after the evaluation of a dosimeter if it exceeds any of the Level I doses specified below. This notification shall be by direct contact with the appropriate RSO or the RSO's designated representative (not a voice mail message). The Contractor shall transmit by overnight mail a report of the results within one (1) working day of the telephone notification. If a dosimeter evaluation exceeds any of the Level II doses or indicates gross contamination, the Contractor shall assign a physicist (or other expert who is experienced in evaluating exposure readings) to conduct a comprehensive evaluation of the dosimeter. This evaluation shall be completed and a written report provided to the appropriate RSO within one (1) working day of the telephone notification.

Investigation Levels	Level I	Level II
Whole Body	125 mrem	375 mrem
Extremity	1875 mrem	5625 mrem
Skin of whole body	750 mrem	2250 mrem

- (g) **Dosimetry reports** - The Contractor shall provide each RSO, with a copy to the NRC TM, a written report of the exposures of individuals in the RSO's office within fifteen (15) days after receipt of the dosimeters. In addition, the Contractor shall provide the NRC TM an electronic report containing the same information transmitted to individual RSO's during the previous calendar quarter within forty-five (45) days after each calendar quarter. The electronic report shall be provided on a 3.5 inch, high density diskette, standard ASCII format, with a fixed length sequential file. The data shall be structured as specified or approved by the NRC TM. The Contractor shall be prepared to change the structure of the file according to NRC specifications within thirty (30) days of receiving a written request from the NRC TM.
- (h) **Quality Assurance Provisions** - Periodically, NRC may expose dosimeters supplied by the contractor to known quantities of radiation from calibrated sources. These shall be sent to the contractor for evaluation as a quality control measure. The Contractor shall read the dosimeters and report the exposures. Failure of the Contractor to indicate the correct doses within the error limits specified shall be investigated by the contractor. The cause of the errors shall be determined and corrective action taken. Consistent disagreement of the dosimeter reading results with the known exposures under this quality control measure shall be grounds for termination of the contract.

(i) **Additional services** - The Contractor shall also provide the following services as needed:

1. Finger rings for extremity monitoring for beta and gamma radiation shall be provided upon request by authorized RSOs to the locations specified.
2. Emergency processing of dosimeters equivalent to routine processing in quality, but within twenty-four (24) hours of receipt at the contractor's facility regardless of the time of day or day of the week. Results of the processing shall be provided immediately by telephone to the appropriate RSO and confirmed in writing within one week.
3. Lost or damaged dosimeters/holders shall be replaced upon request by authorized RSOs.
4. In the event of litigation as a result of alleged radiation overexposure of any individual provided a dosimeter under this contract, the Contractor shall cooperate fully by providing experts and witnesses to testify as to the methods and techniques used in the preparation and processing of the dosimeter. It is understood that this cooperation will entail no additional expense to the Government.
5. When requested, the Contractor shall update and correct individual dosimetry records and account information. This shall include transferring an employee from one account/group to another when requested. Transfers shall include the employee's entire dosimetry history. This account maintenance activity will entail no additional expense to the Government.
6. Environmental dosimeters which meet the performance, testing and procedural specifications of ANSI N545 and shall be suitable for outdoor use. The minimum detectable dose shall be no greater than 0.1 mrem ambient dose equivalent.

3. **Government Furnished Materials:**

A hard copy list of employee information (name, social security number, type of dosimeter required, etc.) for each of the five main NRC offices will be provided within two weeks after award of the Purchase Order. This list may also be available electronically.

4. **Deliverables**

(a) Dosimeters shall be delivered to the following locations and any additional locations specified by an NRC RSO:

1. NRC Region I, 475 Allendale Road, King of Prussia, PA 19406-1415
2. NRC Region II, 61 Forsyth Street, S.W., Suite 23T85, Atlanta, GA 30303-8931
3. NRC Region III, 801 Warrenville Road, Lisle, IL 60532-4351

4. NRC Region IV, 611 Ryan Plaza Drive, Suite 400, Arlington, TX 76011-8064

5. NRC Headquarters, Administrative Services Center, 11555 Rockville Pike, Rockville, MD 20852

- (b) Written dosimetry reports shall be delivered to the appropriate RSO at the addresses specified in section 2(d) above.
- (c) The computer disk containing the electronic dosimetry report shall be delivered to the NRC TM, Office of Nuclear Material Safety and Safeguards, Mailstop T8-F5, 11555 Rockville Pike, Rockville, MD 20852.

5. Period of Performance

The period of performance for the work specified in this SOW shall commence with issuance of the purchase order and continue for one year. The term of this P.O. may be extended at the option of the NRC for an additional 4 one-year options.

6. Travel Requirements

There are no travel requirements for the work specified in this SOW.

## Evaluation Criteria with Numerical Weights Assigned

Title: NRC Personnel Monitoring Program

Extent to which the prospective offeror demonstrates the following three elements with respective weights assigned:

<u>Criteria</u>	<u>Weight</u>
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<b>Corporate Experience</b>	<b>30 pts.</b>
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Extent of offeror's (including subcontractor's, if proposed) corporate experience involving the performance of work identified in the attached Statement of Work. The Offeror must be accredited by the National Institute of Standards and Technology, National Voluntary Accreditation Program for Categories I through VII of ANSI Standard N13.11a. The Offeror must provide a copy of certification to substantiate accreditation.

<b>Quality of Product</b>	<b>40 pts.</b>
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The extent to which the dosimeters and services best suit the needs of NRC's monitoring program.

<b>Past Performance</b>	<b>30 pts</b>
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Extent to which the offeror has successfully performed on contracts/purchase orders similar in size, scope, and complexity of this acquisition.

The proposal shall include a detailed description of the offeror's previous experience with providing whole body dosimeters capable of detecting gamma/x-ray, neutron, and beta radiation for three (3) previous/current contracts/purchase orders for the same or similar services. In addition, the proposal shall include a discussion of the past performance on projects referenced in the proposal.

As a minimum, the offeror shall provide the following information using the format specified below:

- a. Client's name
- b. Client's address
- c. Business Representative/phone number  
Technical Representative/phone number
- d. Period of Performance
- e. Description of the size and scope of the services provided

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100 pts.