

# COMMISSIONER ACTION

May 5, 1978

SECY-78-242

For: The Commissioners

From: Daniel J. Donoghue, Director, Office of Administration

Thru: Executive Director for Operations *W. J. Stacks*

Subject: PROPOSED CONTRACT AWARD FOR A STUDY OF CONSUMER PRODUCTS CONTAINING RADIOACTIVE MATERIAL

Purpose: To request Commission approval to enter into a technical assistance contract with Science Application, Inc., which exceeds \$250,000.00.

Discussion: In paragraph 4b) of the Chairman's January 20, 1975, delegation of authority to the Director, Office of Administration, the Contracting Officer is required to submit any contract (other than Nuclear Regulatory Research) in excess of \$250,000.00 to the Commission for approval.

The Division of Contracts proposes to make an award to Science Application, Inc., at an estimated cost of \$282,000.00 over a twenty-four (24) month period. This effort was competitively negotiated and seven firms responded with offers. The Source Selection Board's deliberations resulted in a recommendation of award to Science Application, Inc., whose proposal presented the "Best Buy" to the Government.

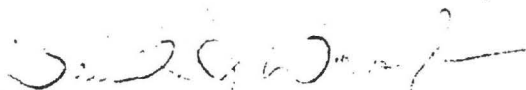
Contacts:  
Nathan Bassin, NMSS  
928

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Recommendation:

Accordingly award is recommended to Science Application Inc., for A Study of Consumer Products Containing Radioactive Material.

Attached hereto is the planned Statement of Work for the proposed contract.



Daniel J. Donoghue, Director  
Office of Administration

Attachment:  
Statement of Work

## Part I - Statement of Work

### 1.0 Background

The Nuclear Regulatory Commission plans to reevaluate the adequacy of the existing policy pertaining to the distribution of consumer products containing byproduct and source material to the public on a license-exempt basis (the existing policy was published in the Federal Register on March 16, 1965 - 30 FR 3462).\* As part of this reexamination, a generic environmental impact statement on consumer products will be prepared. In recognition of this need, the NRC is seeking proposals for a contract to study the area of consumer products containing radioactive materials and to develop sufficient information for the preparation of a generic environmental impact statement on the distribution of such consumer products. For the purpose of this study, consumer products are considered to be those products, commodities or materials containing radioactive material that are available in the marketplace to the general public as 'off-the-shelf' items and are intended for personal and household use by the public. The radioactive material used in consumer products includes byproduct material, source material, naturally-occurring radioisotopes, such as radium, and accelerator-produced radioisotopes. Products, such as building materials, and products intended solely for industrial and medical use are not considered consumer products for purposes of this study. The effort described generally above is to assist the NRC staff to:

\* See Exhibit 4.

- a. Determine the environmental impact of the distribution and use of consumer products by the public
- b. Define the benefits which accrue to the public from each product or class of products, as appropriate
- c. Assess the current criteria for approval of distribution of consumer products to the public
- d. Identify and evaluate alternative courses of action for each product or class of product, considering types and quantities of radioactive materials and non-radioactive options
- e. Provide information and data for re-evaluation of existing policy for consumer products
- f. Identify and develop any necessary modification of NRC regulations dealing with consumer products.

## 2.0 Work Required

### Task 1. Data Compilation

The Contractor shall make a compilation of consumer products distributed to the general public starting with the year 1956 through June 30, 1977, the amount of radioactive material in each product, and the total amount of each radionuclide in each product distributed to the public. The Contractor shall specify the parameters required to obtain the data.\* Upon completing this task, the Contractor shall document the results of the task in a report to the Contracting Officer's Authorized Representative (COAR). The report shall be

\* Data sources shall include, but not be limited to, the sources listed in Exhibit 5 to this RFP.

Submitted in ten copies in contractor format, except that the title page shall be formatted as shown on Exhibit 1 to this RFP. This report is due no later than 4 months after contract execution. Allow 20 days for Government review and approval.

Task 2. Development of Information for the Preparation of Generic Environmental Impact Statement

No work shall commence nor costs incurred on this Task 2 until written approval of the Task Report for Task 1 is forwarded by the Contracting Officer.

The Contractor shall develop information necessary for the preparation of a generic environmental impact statement\* which includes (1) present environmental impact, (2) prediction of future environmental impact, and (3) identification and discussion of alternatives for regulatory distribution of consumer products.

For the estimation of present environmental impact, the Contractor shall estimate the population dose from the normal distribution, use, and disposal of already distributed products, the environmental impact and population dose resulting from possible misuses of products which would cause unintended release of the radioactive material, and the environmental impact and population dose from occurrences which would cause unintended release of the radioactive material. The Contractor shall evaluate and assess the environmental impact in terms of the increment of additional radiation dose to the population above that received from natural background, medical diagnosis and therapy, and other sources of radiation as a result of both normal and abnormal distribution and use of consumer products.

For the estimation of future environmental impact, the Contractor shall estimate the types and quantities of consumer products which are predicted to be developed for distribution through 1987. The

\* See 10 CFR Part 51

same parameters for estimation of the environmental impact for already distributed consumer products shall be used.

For the investigation of alternatives, the Contractor shall identify alternatives for each class of products containing radioactive material. The alternatives shall consider use of other radioactive materials and identification of non-radioactive means to perform the function served by the use of radioactive material. The Contractor shall provide a cost/benefit analysis for each alternative specified which will estimate the impact on manufacturers and distributors of consumer products and the impact on the public.

The Contractor shall prepare a report on Task 2 and shall submit ten copies to the COAR in the contractor, format except that the title page shall be formatted as shown on Exhibit 1 to this RFP, not more than 15 working days following completion of the task.

### 3.0 Reporting Requirements

#### 3.1 Monthly Letter Report

Each month, the Contractor shall submit 3 copies of a brief letter report which summarizes: (1) the work performed during the previous month, (2) personnel time expenditures during the previous month; and (3) costs: (i) current period, and (ii) cumulative to date, and (iii) estimated cost to completion. The report shall be due by the 15th of each month with distribution as follows:

1. Mr. Bernard Singer, Chief, Radioisotopes Licensing Branch, NMSS
2. Office of the Director, NMSS (ATTN: Program Support)
3. Mr. Dennis Dougherty, Contracting Officer

### 3.3 Final Report

Within 18 months after the effective date of this contract, the Contractor shall furnish to the COAR a draft copy of the final report. The report shall be in the contractor format except that the title page shall be formatted as shown on Exhibit 2 to this RFP and shall contain the notice as shown on Exhibit 3 to this RFP. The Report shall document the work accomplished under this work including:

- a. a compilation of data concerning distribution of consumer products (Task 1)
- b. a generic environmental impact statement for consumer products (Task 2)

The COAR will furnish comments on the draft report to the Contractor within 60 days after receipt of the draft. Based on these comments, the Contractor shall revise the draft and submit the final report in eleven (11) copies to the COAR and one (1) to the Division of Contracts, not later than 24 months after the effective date of this contract.

### 3.4 Meetings

The Contractor shall meet with the COAR every 3 months from the effective date of this contract to discuss the results of contractor

work. These meetings shall be of one day's duration and shall be held at the NRC offices in Silver Spring, Maryland. Upon completion of the-draft final report, the Contractor shall brief the final report to the NMSS staff at the NRC offices in Silver Spring, Maryland. It is anticipated that there will be a total of 8 meetings.

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#### 4.0 Period of Performance

Performance under this contract shall commence on the effective date of this contract and shall continue for a period of 24 months, at which time all work shall have been completed and all reports shall have been delivered.

#### 5.0 Level of Effort

The NRC estimates a 5 man-year effort will be required under this statement of work. This estimate is furnished for the offerer's information only, and is not to be considered restrictive. Offerer's are advised to use independent judgement in developing their cost estimates.