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STANDARD BORM 26, JULY 1966 GENERAL SERVICES ADMINISTRATION				AWARD/CONTRACT				1 17
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THIS CONTRACT CONSISTS OF:

- 1. COVER PAGE
- CONTENTS OF CONTRACT 2.
- SCHEDULE . . 3.

EXHIBITS

6.

DESCRIPTION OF WORK ARTICLE I

PROTECTION OF PROPRIETARY AND COMPANY CONFIDENT!

ARTICLE II INFORMATION

PRIVATE USE AND PROTECTION OF UNCLASSIFIED GOVER ARTICLE III

INFORMATION

CONSIDERATION ARTICLE IV

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BILLING INSTRUCTION FOR NRC COST TYPE CONTRACTS ARTICLE XII

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FEBRUARY 15, 1978 GENERAL PROVISIONS

REPRESENTATIONS AND CERTIFICATIONS ARE INCORPORATED BY REFERENCE

5.

NRC MANUAL CHAPTER 3202, PUBLICATION OF UNCLASSIFIED REGULATORY AND TECHNICAL DOCUMENTS PREPARED BY NRC

CONTRACTORS, INCLUDING REPORTS PREPARED UNDER OR

PURSUANT TO INTERAGENCY AGREEMENTS

CONTRACTOR ORGANIZATIONAL CONFLICTS OF INTEREST 7. ATTACHMENT A

DESCRIPTION OF WORK

The Contractor shall furnish all the necessary qualified personnel, facil materials and services and perform the specific tasks delineated below:

1.0 Background

The Nuclear Regulatory Commission is developing regulations for a national low-level waste management program and preparing for subsequent licensing activities. As part of this effort, the development of a data base of the current technology and economics of volume reduction techniques is necessary to assure the most effective use of disposal options. In addition, this study is an essential element in the development of waste form criteria.

For the purpose of this study, low-level wastes are radioactive materials or materials contaminated by radioactive isotopes which have no useful value and are not defined as some other specific category of waste (such as high-level waste). Uranium mill tailings and wastes containing transuranic materials in concentrations above approximately lonCi/g are also excluded. Low-level waste is generated by the nuclear power industry, industrial processes, medical facilities, and research and other sources.

Volume reduction techniques are those processes used to reduce the overall waste volume and which may be used prior to or in conjunction with waste solidification. Incineration and compaction are considered to be volume reduction techniques.

Several volume reduction techniques have been shown to be technically feasible. Compaction of dry paper, plastics, rubber and cloth wastes and evaporation of liquids are practiced at many nuclear plants. Incineration of dry trash wastes is presently performed for several nuclear power units in Canada. Calciners have been developed for processing radioactive wastes but have not been employed for routine waste treatment in nuclear power plants.

Presently, shallow land burial is the only disposal method being used for low-level wastes in the United States. Non-transuranic contaminated wastes (TRU) projections from NUREG-0217, NRC Task Force Report on Review of the Federal/State Program for Regulation of Commercial Low-Level Radioactive Waste Burial Grounds, indicate that the capacity of the six commercially licensed burial sites will be exhausted between 1994 and 2000. However, this e projections assume full use of two sites presently not accepting wastes (New York and Kentucky) and one site (Illinois) undergoing licensing to expand their limited burial capacity. Assuming the use of only the Washington, Nevada and South Carolina sites, the waste capacity could be exhausted in 10 to 15 years. Volume reduction could



significantly extend the capacity of the commercial burial sites, as well as make some alternatives to shallow land burial (e.g. the engineered storage concept) more economically attractive. In addition, incineration of organic wastes can reduce chemical toxicity levels; the likelihood of complexing with other buried wastes, and the possibility of harmful was a soil interactions.

2.0 Work Required

The contractor shall furnish the necessary qualified personnel, facilities, material, and services to accomplish the following tasks:

Task 1 Description of Volume Reduction Techniques

The contractor shall conduct a literature search to compile a complete list of volume reduction techniques developed for radio-active and non-radioactive applications. Both domestic and foreign technology shall be addressed. The contractor shall describe the engineering designs and economics of each concept. The technique descriptions shall include but not be limited to:

- A. Systan Performance Data
- B. Volume Reduction Capability
- C. Flow Diagrams
- D. Process Parameters
- E. Equipment Drawings
- F. System Capacities
- G. Waste-Type Limitations
- H. Effects of Concentrating Radioactive Material on System Design, Product Handling, Shielding, Etc.
- I. Necessity for Additional Product Processing
- J. Potential Radioactive and Non-Radioactive Releases
- K. Operating Experience in Nuclear and Non-Nuclear Applications



- L. Capability to eliminate or reduce chemical or pathological hazards (e.g., incineration of organic material)
- M. Product Characteristics

Volume reduction techniques considered shall include but not be limited to the various methods of evaporation, compaction, incineration, and calcination. Techniques applicable to high-level and TRU wastes shall also be considered. NRC reviews of vendor topical reports will be provided to the contractor. Prior to initiating Task 2, the contractor shall recommend to the NRC the most viable volume reduction techniques for which the economic analysis should be performed.

Task 2 Economic Analysis

Based upon his analysis of contractor recommendations made under Task 1, the COAR shall identify those techniques to be evaluated (not to exceed 5 each) with respect to cost effectiveness in the economic analysis. The contractor shall include in his economic analysis, the cost effects of:

- A. Equipment
- B. Required facilities and structures
- C. Operation and maintenance
- D. Transportation of the waste product
- E. Packaging and shielding
- F. Handling of the waste product
- G. Burial

The economic analysis shall be based on waste volume projections supplied by the NRC and shall consider utilization of the technique at the nuclear facility, on a regional basis, and at the burial site. Shallow land burial shall be assumed as the method of disposal. Applications to both fuel cycle and non-fuel cycle wastes shall be evaluated.



3.0 Reporting Requirements

3.1 Project Plan

Within three weeks after the award of the contract, the contractor shall submit to the COAR for approval a detailed schedule of the planned activities within each task effort showing start dates, completion dates, slack, dependencies, and the critical path.

SUMLLULL (

The project plan will be approved or comments for revision returned to the contractor within two weeks after receipt by the COAR. Approval of the project plan shall not delay the start of the project effort.

3.2 Task Reports

Upon the completion of Task 1, the contractor shall furnish a draft report describing the volume reduction techniques. The technique recommendations for the detailed economic analyses in Task 2 shall also be included in this report. Upon completion of Task 2, the contractor shall furnish a draft report covering the economic analysis performed. Five (5) copies of each draft task report shall be submitted to the COAR.

3.3 Final Report

Upon the resolution of comments on the draft task reports, the contractor shall prepare a final report encompassing the work performed under Tasks 1 and 2. The final report shall consist of one camera ready c by and 20 reproduced copies distributed as indicated below:

A. COAR--1 Camera Ready and

18 reproduced copies

B. Office of Director, NMSS, Program Support, 1 copy C. Contracting Officer, 1 copy

3.4 Meetings

The contractor shall meet with the COAR at the conclusion of each task (paragraph 2) to discuss the results of the 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 final report, the contractor shall brief the final report to the NMSS staff at the NRC offices in Silver Spring, Maryland.

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, (ii) cumulative to date, and (iii) cost projection by month to completion of the work effort. (The first monthly report shall provide the initial cost projection and subsequent reports shall either provide revised projections or indicate "no change in the cost projection.") The reports shall be due by the 15th of each month with distribution as follows:

Contracting Officer's Authorized Representative (1 cy)
Office of the Director, NMSS (ATTN: Program Support) (1 cy)
Mr. Dennis Dougherty, Contracting Officer (1 cy)

Task Reports and Final Reports

For task and final reports prepared under the provisions of this contract, the format shall be in accordance with the provisions as stated in NRC Manual Appendix 3202 for either "Formal Contractor Documents" or "Interim Contractor Documents" as appropriate. (See Attachment E)

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F. Period of Performance

Performance under this contract shall commence on the effective date of this contract and shall continue for a period of twelve (12) at which time all work shall have been completed and all reports shall have been delivered.

NOTE: The work called for above shall be performed in accordance with the Contractor's proposal dated November 15, 1978, and the Best & Final Offer letter dated March 21, 1979, which by this reference are incorporate herein and made a part of this contract as though set forth in full text.

POOR ORIGINAL

Article II

Protection of Proprietary and Company Confidential Information

If proprietary or company confidential data is provided to the contractor by Commission in connection with this contract, the contractor agrees to safed information and agrees not to release such information to any person not directly involved in the performance of work under this contract unless such release involved in writing by the Contracting Officer. Upon completion or terminauthorized in writing by the Contracting Officer. Upon completion or terminauthorized in copies of any such proprietary or company confidential data this contract, all copies of any such proprietary or company confidential data the returned to the Commission.

Article III

Private Use and Protection of Unclassified Government Information.

(a) Except as specifically authorized by this contract, or as otherwise approved by the Contracting Officer, records or other information, documents and material furnished by the Commission to the contractor in the performance of this contract shall be used only in connection with the work performed under this contract. The contractor shall, upon completion or termination of this contract, transmit to the Commission all records or other information documents and material, and any copies thereof, furnished by the Commission to the contractor in the performance of this contract.

- (b) The contractor shall be responsible for safeguarding from unauthorized disclosure any information or other documents and material execut from public disclosure by the Commission's regulations and made available to the contractor in connection with the performance of the work under this contract. The contractor agrees to conform to all regulations, requirements, and direction of the Commission with respect to such material.
- (c) The contractor's duties under this clause shall not be construed to limit or affect in any way the contractor's obligation to conform to all security regulations and requirements of the Commission pertaining to classified information and material.

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PROVISIONS APPLICABLE TO DIRECT COSTS

A. Items Unallowable Unless Otherwise Provided

Notwithstanding Clause No. 5 -- ALLOWABLE COST FEE AND PAYMENT, and Clause No 10 -- SUBCONTRACT, of the General Provisions of this contract, unless authorized in writing by the Contracting Officer, the costs of the following items or activities shall be unallowable as direct costs:

- 1. Acquisition, by purchase or lease, of any interest in real property.
- 2. Special rearrangement or alteration of facilities.
- Purchase or lease of any item of general purpose office furniture or office equipment.

ARTICIE VI AUTHORIZED REPRESENTATIVE

The following authorized representative will represent the Government purpose of this contract:

Tim Johnson

The authorized representative is responsible for: (1) Monitoring the Contractor's technical progress, including the surveillance and assess of performance and recommending to the Contracting Officer changes in requirements; (2) interpreting scope of work; (3) performing technical evaluation as required; (4) performing technical inspections and accept required by this contract; and (5) assisting the Contractor in the reso of technical problems encountered during performance. Within the purvithis authority, the representative is authorized to approve payment you for supplies/services required under the contract. The Contracting Officer changes in terms, conditor amounts cited in the contract.

For guidance from the authorized representative to the Contractor to be valid, it must: (1) be consistent with the description of work set fort in this contract; (2) not constitute new assignment of work or change to 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; (4) not constitute a basis for any increase in the contract fee.

KEY PERSONNEL

Pursuant to Clause No. 40 -- KEY PERSONNEL, the following individual(s) as considered to be essential to the work being performed hereunder:

Mr. 8. George Kniazewycz

GENERAL SERVICES ADMINISTRATION SUPPLY SOURCES

The Contracting Officer may issue and the Contractor agrees to accept an authorization to utilize General Services Administration supply sources for property to be used in the performance of this contract. All property acquired under such an authorization shall be subject to Clause No. 22--GOVERIMENT PROPERTY, of the General Provisions.



ARTICLE IX

Notwithstanding any other provisions of this contract, during the term of this contract, the Contractor agrees to forego entering into consulting other contractual arrangements with any firm or organization, the result which may give rise to an actual or apparent conflict of interest with which may give rise to an actual or apparent conflict of interest with which may give rise to an actual or apparent conflict of interest with respect to the work being performed under this contract. The Contractor shall insure that all employees who are employed full time under this contract and employees designated as key personnel if any, under this contract abide by the provisions of this clause. If the Contractor believes to itself of any such employee that any proposed consultant with respect to itself of any such employee that any proposed consultant or other contractual arrangement with any firm or organization may involved a possible conflict of interest, the Contractor shall obtain the written approval of the Contracting Officer prior to execution of such contractual arrangements.

ORDER OF PRECEDENCE

In the event of an inconsistency between the terms and conditions of this contract, the inconsistency shall be resolved by giving precedence in the following order:

- 1. the SCHEDULE: (Note: Nothing contained in the Contractor's proposal, whether or not incorporated by reference, shall constitute a waiver of any terms or conditions provided in the SCHEDULE.)
- 2. The General Provisions
- Other terms and conditions of the contract, whether incorporated by reference or otherwise.



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Article XI

- 4. Stop Work Order. (a) The contracting Officer may, at any time, by written order to the contractor, require the contractor to stop all, or any part, of the work called for by this contract for a period of ninety (90) days after the order is delivered to the Contractor, and for any further period at which the parties the Contractor, and for any further period at which the parties may agree. Any such order shall be specifically identified as may agree. Any such order shall be specifically identified as Stop Work Order issued pursuant to this clause. Upon receipt of such an order, the contractor shall forthwith comply with of such an order, the contractor shall forthwith comply with of such an order, the contractor shall forthwith comply with of such an order, the contractor shall forthwith comply with of such an order, the contractor shall forthwith comply with of such an order. Within a period of ninety (90) days period of work stoppege. Within a period of ninety (90) days period of work stoppege. Within a period of ninety (90) days period of work order is delivered to the contractor or within after a stop work order is delivered to the contractor or within agreed, the Contracting Officer shall either:
 - (i) cancel the stop work order, or(ii) terminate the work covered by such order as provided in the "Default" or the "Termination for Convenience" clause of this contract.
 - (b) If a stop work order issued under this clause is cancelled or the period of the order or any extension thereof expires, the contractor shall resume work. An equitable adjustment shall be made in the delivery schedule, the estimated cost, the fee, or a combination thereof, and the contract shall be modified in writing accordingly, if.
 - (i) the stop work order results in an increase in the time required for, or in the contractor's cost properly allocable to, the performance of any part of this contract, and
 - (ii) the contractor asserts a claim for such adjustment within thirty (30) days after the end of the period of work stoppage; provided that, if the Contracting Officer decides the facts justify such action, he may receive and act upon any such claim asserted at any time prior to final payment under this contract.
 - (c) If a stop work order is not cancelled and the work covered by such order is terminated for the convenience of the Covernment, the reasonable costs resulting from the stop work order shall be allowed in arriving at the termination settlement.
 - (d) It a stop work order is not cancelled and the work covered by such order is terminated for default, the reasonabe costs resulting from the stop work order shall be allowed by equitable adjustment or otherwise.

Form. Claims shall be submitted on the payee's letterhead, in on the Government Standard Form 1034, "Public Voucher for Purcifor Purchases Other Than Personal," and "Standard Form 1035, Public are available from the Government Printing Office, 710 North Castreet, Washington, DC 20801.

Number of Copies. An original and six copies should be mailed :

Frequency. The contractor shall submit claims for reimbursement each month unless otherwise authorized by the Contracting Office

Billing of Costs After Expiration of Contract. If cost-reimburse are incurred during the contract period and claimed after the contract period, the period during which these costs were incurred mucited.

Currency. Billings may be expressed in the currency normally used the contractor in maintaining his accounting records; payments will invoices paid under the contract may not exceed the total U.S. dollar equivalent for all authorized in the contract.

Supersession. These instructions supersede all previous billing in

Preparation and Itemization of the Voucher. The contractor shall for the information set forth in the explanatory notes below. These no are keyed to the entries on the sample voucher.

- (a) Payor's Name and Address. (i) Address the original voucher (wi copies) to: U.S. Nuclear Regulatory Commission, Division of Ac Office of the Controller, ATTN: GOV/COM Accounts Section, Washington, ATTN: E.L. Halman, Director, Divison of Contracts, Should indicate that (2) copies have been forwarded to the Contracting Officer.
- (b) Voucher Number. Insert the appropriate serial number of the vouc

POOR

- (c) Date of Voucher. Insert the date the voucher is prepared
- (d) Contract Number and Date. Insert the contract number and of the contract.
- (e) Payee's Name and Address. Show the name of the contractor appears in the contract and its correct address; except wh approved assignment has been made by the contractor, or a payee has been designated, then insert the name and address payee.
- (f) Contract Amount. Insert the total estimated cost of the co Exclusive of fixed-fee. For incrementally funded contracts the amount currently obligated and available for payment.
- (g) Fixed Fee. Insert total fixed-fee (where applicable).
- (h) Billing Period. Insert the beginning and ending dates (day, and year) of the period in which costs were incurred and for reimbursement is claimed.
- (i) Direct Costs. Insert the major cost elements

(i)(1) Direct Labor. This consists of salaries and wages pai accrued) for direct performance of the contract. (i)(2) Fringe Benefits. This represents fringe benefits appli to direct labor and billed as a direct cost. Fringe benefits included in direct costs should not be identified here. (i)(3) Capitalized Nonexpendable Equipment. For educational i list each item costing \$1,000. or more; for contractors other educational institutions list each item costing \$200. or more having a life expectancy of more than one year. List only thos items of equipment for which reimbursement is requested. A re: shall be made to the following (as applicable): (1) the item number for the specific piece of equipment listed in the Proper Schedule; (2) the Contracting Officer's Approval Letter, if the equipment covered by the Property Schedule; or (3) be pr by an asterisk (*) if the equipment is below the approval level. Further itemization of vouchers shall only be required for items having specific limitations set forth in the contract. (i)(4) Materials, Supplies, and Noncapitalized Equipment. This consumable materials and supplies and equipment other than that

described in (i)(3) above.

(i)(5) Premium Pay. This is remuneration in excess of the basic hourly rate.

(i)(6) Consultants' Fee. These are fees paid to consultants.
(i)(7) Travel. Domestic travel is travel within the United State its territories, possessions, and Canada; it should be billed

POOR ORIGINAL

SCHEDULE

separately from foreign travel.

(i)(8) Other. List all other direct costs in total unless significant in amount. If significant, list cost elements and dollar amount separately, e.g., subcontracts.

- (j) Indirect Costs--Overhead. Cite the formula (rate and base) in effect during the time the cost was incurred and for which reimbursement is claimed.
- (k) Fixed-Fee. If the contract provides for a fixed-fee, it must be claimed as provided for by the contract. Cite the formula or method of computation.
- (1) Amount Billed for Current Period. Insert the amount billed for the major cost elements, adjustment, and adjusted amounts for the period.
- (m) Cumulative amount from Inception to Date of this Billing. Insert the cumulative amounts billed for the major cost elements and adjusted amounts claimed during this contract.
- (a) Total Amounts Claimed. Insert the total amounts claimed for the current and cumulative periods.
- (o) Adjustments. This includes amounts conceded by the contractor, outstanding suspensions, and disapprovals subject to appeal.
- (p) Grand Totals.

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SCHEDULE

	SAMPLE	VOUCHER				
(a) P	eyor's Name and Address he U. S. Nuclear Regulatory	(b) Voucher No.				
0	Commission of Accounting, CON	(c) Date Voucher Prepared				
A:	ttention: Gov/Com Accts Section- ashington, DC 20555	(d) Contract No. and Date				
(e) Pa	agee's Name and Address BC CORPORATION	(f) Total Estimated Cost of Contra				
Ar Tr	N Main Street nywhere, U.S.L. nor ne National Bank, Anywhere, U.S.L.	(g) Total Fixed-Fee				
Ar	signee for ABC Corporation where, U.S.A.					
(h) Tr	hen Pavments are Assigned) is voucher represents reimburseable	costs from July 1,]	977 through July 31			
		(1)Amount Billed for Current Period	or recommended to the second s			
(1	rect Costs)(:) Direct Labor)(2) Fringe Benefits)(3) Capitalized Nonexpendable Equipment	\$ 3,400	\$ 6,800 1,200			
. /:)(4) Materials, Supplies and	5,000				
	Noncapitalized Equipment	2,000	4,000 150			
} i	(5) Prenium Pay (6) Consultant's Fee (7) Travel — Domestic Foreign	100 200 200	100 200 200			
	(8) Cther Total Direct Costs	\$11,600	\$20,650			
_	S of Direct Labor or Other Base (Formula)	4,000	6,000			
(n)	Total Amounts Claimed	\$16,300	\$28,050			
0	nstrents . ntstanding Suspensions nd Totals	(1) \$16.300	\$26.350			

GENERAL PROVISIONS/ALTERATIONS

- Provisions Cost-Type
 Other Than Educational Institutions dated February 15, 1978, which is attached hereto and by this reference made a part hereof.
- b. In addition to those general provisions set forth in Appendix A hereto which are by their terms self-deleting, the following deletions and, or modifications to Appendix A are as follows:
 - Clause 25 entitled. "Nuclear Hazards Indemnity Product Liabili is deleted in its entirety.
 - Clause 53 entitled, "Private Use of Information and Data" is deleted in tis entirety.

