

AWARD/CONTRACT

1. CONTRACT (Proc. Inst. Ident.) NO. NRC-03-80-137		2. EFFECTIVE DATE 4-4-80		3. REQUISITION/PURCHASE REQUEST/PROJECT NO. NRR-80-137		4. CERTIFIED FOR NATIONAL DEFENSE UNDER BDSA REG. 2 AND/OR DMS REG. 1. RATING.		
5. ISSUED BY CODE US Nuclear Regulatory Commission Division of Contracts, SPS Washington, DC 20555				6. ADMINISTERED BY (If other than block 5) CODE		7. DELIVERY FOB DESTINATION <input type="checkbox"/> NATION <input type="checkbox"/> OTHER (See below)		
8. CONTRACTOR NAME AND ADDRESS CODE <i>(Street, city, county, State, and ZIP code)</i> Human Design Group 18308 Dutchess Drive Olney, MD 20832				FACILITY CODE		9. DISCOUNT FOR PROMPT PAYMENT NA		
11. SHIP TO/MARK FOR CODE US Nuclear Regulatory Commission ATTN: Donald P. Cleary NRR/Regional Impact Analysis Section Washington, DC 20555				12. PAYMENT WILL BE MADE BY CODE US Nuclear Regulatory Commission Office of the Controller Washington, DC 20555				
13. THIS PROCUREMENT WAS <input type="checkbox"/> ADVERTISED, <input checked="" type="checkbox"/> NEGOTIATED, PURSUANT TO: <input type="checkbox"/> 10 U.S.C. 2304 (a)(1) <input checked="" type="checkbox"/> 41 U.S.C. 252 (c)(3)								
14. ACCOUNTING AND APPROPRIATION DATA B&R No. 20-19-06-08-0 FIN No. B-6890 Appropriation Symbol: 31X0200.200 - \$9338.20								
15. ITEM NO.	16. SUPPLIES/SERVICES				17. QUANTITY	18. UNIT	19. UNIT PRICE	20. AMOUNT
	Provision of Technical Assistance to Assess Psychological Stress Related to Decontamination and Disposal of Radioactive Wastes at Three Mile Island Unit 2							\$9338.20
21. TOTAL AMOUNT OF CONTRACT \$							\$9338.20	
CONTRACTING OFFICER WILL COMPLETE BLOCK 22 OR 26 AS APPLICABLE								
22. <input checked="" type="checkbox"/> CONTRACTOR'S NEGOTIATED AGREEMENT (Contractor is required to sign this document and return <u>3</u> 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. <input type="checkbox"/> 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 Human Design Group BY Andrew S. Baum <i>(Signature of person authorized to sign)</i>					27. UNITED STATES OF AMERICA BY Joyce Perlman <i>(Signature of Contracting Officer)</i>			
24. NAME AND TITLE OF SIGNER (Type or print) Andrew S. Baum			25. DATE SIGNED 3/21/80		28. NAME OF CONTRACTING OFFICER (Type or print) JOYCE PERLMAN		29. DATE SIGNED 5/8/80	

ARTICLE I - BACKGROUND

There is growing evidence that ongoing and prospective events associated with the decontamination of Three Mile Island Unit 2 (TMI-2) are a source of mental distress among the population in the vicinity of TMI. The Report of the President's Commission on the Accident at Three Mile Island reported that, "The major health effect of the accident appears to have been on the mental health of the people living in the region of Three Mile Island and of the workers at TMI." The Governor's Commission on Three Mile Island concurred in that finding. A number of studies to better document the stress effects of the accident are being supported by the Commonwealth of Pennsylvania and the National Institute of Mental Health. A study of the social and economic effects of the accident at Three Mile Island, being conducted for the Nuclear Regulatory Commission (NRC) by Mountain West Research, Inc., is an interim report (NUREG/CR-1215) prepared in November 1979, raised concern over the potential for continuing anxiety as decisions are being made with respect to the future of TMI.

In recent months, contacts with local citizens in public meetings and individually have resulted in a general consensus among the staff that psychological stress is a concern in the numerous decisions relative to TMI-2 decontamination. Most recently, the Commission has requested the staff to obtain the comments, from experts, on psychological stress which may be associated with alternative methods of removing krypton-85 from the atmosphere of the TMI-2 reactor building.

ARTICLE II - SCOPE OF WORK

The Contractor shall furnish all personnel, facilities, and materials to perform the following tasks:

1. Unit 2 Atmospheric Decontamination:

- a. Submit no later than April 11, 1980, a written critique of the alternatives presented in Environmental Assessment for Decontamination of the Three Mile Island Unit 2 Reactor Building Atmosphere, NUREG-0662, including Addendums 1 and 2, (furnished to the Contractor), which answers the following questions:
 - (1) What is the nature and level of psychological stress which will be associated with each decontamination alternative?
 - (2) What mitigative actions could be used to reduce psychological stress for each of the alternatives?
- b. Review public comments on the Environment Assessment regarding psychological stress and submit a summary report no later than April 25, 1980. Documentation on public comments will be furnished to the contractor as it becomes available and in no case later than April 21, 1980.
- c. Participate in a Commission one-day meeting on the issue of psychological stress to be scheduled sometime after the close of the public comment period. The Contractor shall be available to meet upon 48-hour notice during the period April 28 through May 30, 1980.

2. Unit 2 Decontamination Environmental Impact Statement

- a. Submit no later than April 30, 1980, a written report on psychological stress for inclusion in the Programmatic Environmental Impact Statement on the Decontamination and Disposal of Radioactive Wastes at Three Mile Island Unit 2. This report should present an assessment of the nature and extent of TMI-related stress currently existing in the population surrounding TMI and down river to the upper Chesapeake Bay, and should specifically identify the possible influence of the several steps of decontamination on stress levels.
 - b. Review and provide to the NRC a draft response, by August 29, 1980, to public and agency comments on the Draft Environmental Statement (DES) which are related to psychological stress. Documentation on public comments will be furnished to the Contractor as it becomes available and in no case later than August 22, 1980.
 - c. Revise Environmental Impact Statement (EIS) as appropriate to reflect analysis conducted since preparation of the DES and review of public comments. This report will be due by August 29, 1980 for inclusion in the Final Environmental Statement.
 - d. During the course of the contract, the Contractor will provide a telephonic status report to the NRC Contracting Officer's Authorized Representative (COAR) no less frequently than once a week. In addition, the Contractor shall provide a monthly one-to-three hour briefing at the NRC in Bethesda at dates and times to be mutually agreed upon. The purpose of the briefing will be to present substantive findings and to present information and observations which may aid NRC efforts to maintain open public participation in the EIS process.
3. The Contractor will be available until October 31, 1980 to participate as required in briefings to the Commission regarding the final report.

ARTICLE III - PERIOD OF PERFORMANCE

The period of performance under this contract will commence April 4, 1980, and all effort shall be completed by October 31, 1980.

ARTICLE IV - CONSIDERATION

In full consideration of the Contractor's performance hereunder, the NRC shall pay the Contractor a fixed fee of \$9,338.20.

ARTICLE V - OBLIGATIONS

The amount presently obligated by the NRC with respect to this contract is \$9,338.20.

ARTICLE VI - PAYMENT

Pursuant to Article 2 of the General Provisions entitled "Payments," progress payments are hereby authorized and shall be made in accordance with the following schedule 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 with the Government may have by law or under other provisions of this contract:

<u>Deliverables</u>	<u>Amount</u>
Task 1.a. - Report Due April 11, 1980	\$ 910.00
Task 1.b. - Report Due April 25, 1980	\$1632.80
Task 2.a. - Report Due April 30, 1980	\$3640.00
Task 2.b. - Draft Response Due August 29, 1980	\$1214.48
Task 2.c. - Report Due August 29, 1980	\$1092.00
Balance upon completion of contract - October 31, 1980	\$ 848.92

ARTICLE VII - KEY PERSONNEL

The personnel cited below are considered to be essential to the work being performed hereunder. Prior to diverting any listed individual to another program, the Contractor shall notify the Contracting Officer, reasonably in advance of such diversion, and shall submit justification (including the names and vitae of proposed substitutions) in sufficient detail to permit evaluation of the impact of such substitutions on the program. No diversions shall be made by the Contractor without the written concurrence of the Contracting Officer.

Dr. Andrew Baum

Robert Gatchel

Dr. Sigfried Struferd

Dr. Jerome E. Singer

Carlene Baum

ARTICLE VIII - SPECIAL PROVISIONSVIII.1 CONTRACTING OFFICER'S AUTHORIZED REPRESENTATIVE (COAR)

Performance of the work hereunder shall be subject to the technical instructions issued by the US Nuclear Regulatory Commission. The technical instructions shall be signed by the COAR.

The CO is responsible for:

1. monitoring the Contractor's technical progress, including the surveillance and assessment of performance and recommending to the Contracting Officer changes in requirement;
2. interpreting the statement of work;
3. performing technical evaluation as required;

4. performing the 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 COAR is authorized to approve payment vouchers 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 COAR 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.

If the Contractor receives guidance from the COAR which the Contractor feels is not valid under the criteria cited above, the Contractor shall immediately notify the COAR. If the COAR and the Contractor are not able to resolve the questions within five days, the Contractor shall notify the Contracting Officer.

VIII.2 INSPECTION AND ACCEPTANCE

Acceptance of the services and reports to be delivered herein will be made by the COAR.

VIII.3 DISSEMINATION OF CONTRACT INFORMATION

The Contractor shall not publish, permit to be published, or distribute for public consumption any information, oral or written, concerning the results or conclusions made pursuant to the performance of this contract without the prior written consent of the Contracting Officer. (Two copies of any material proposed to be published or distributed shall be submitted to the Contracting Officer.)

ARTICLE IX - GENERAL PROVISIONS

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

Clause 14 entitled "Patent Rights" is deleted in its entirety.