



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

JUL 10 1985

Mr. Edward Trott
Assistant to the Chief, READ
BE-61
Bureau of Economic Analysis
Department of Commerce
Washington, DC 20230

Dear Mr. Trott:

Subject: Interagency Agreement NRC-03-85-057 Entitled "Calibration of Site Analysis Branch Economic Impacts of Accidents"

Pursuant to the Economy Act of 1932, as amended 31 U.S.C. 686, the U.S. Nuclear Regulatory Commission (NRC) desires to enter into an agreement whereby the U.S. Bureau of Economic Analysis (BEA), Department of Commerce, would provide services for the project entitled "Calibration of Site Analysis Branch Economic Impacts of Accidents."

Accordingly, the parties hereto mutually agree to the following terms of this agreement:

Article I - Statement of Work

The Bureau of Economic Analysis will provide services to the Nuclear Regulatory Commission as set forth in the attached Statement of Work.

Article II - Period of Performance

The period of performance for the work required hereunder shall commence as of the effective date of acceptance of this agreement and shall continue through March 31, 1986.

Article III - Estimate of Cost and Obligation of Funds

- A. The estimated cost to the NRC of the work to be performed under this agreement is \$50,000.
- B. The amount presently obligated by the NRC for the performance of work under this agreement for fiscal year 1985 is \$40,000. The remaining funds (\$10,000) will be obligated by unilateral modification to this agreement based on the availability of fiscal year 1986 funding.

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- C. Prepayment to BEA in the amount of \$40,000 is hereby authorized upon receipt of a voucher in that amount. When additional funding is obligated by the NRC, prepayment to BEA is authorized in the new amount obligated upon receipt of a voucher in the amount of the additional funding.
- D. The amount presently obligated is chargeable to the following NRC accounting data:

FIN: D1320

B&R No.: 20-19-50-56-2

Amount: \$40,000

Article IV - Technical Direction and Authorized Representative

The Project Officer is Donald Cleary (telephone: 492-7680). All technical instructions to the contractor shall be issued through the Project Officer. As used herein, technical instructions are instructions to the contractor which provide details, suggest possible lines of inquiry, or otherwise complete the general scope of work set forth herein. Technical instructions shall not constitute new assignments of work or changes of such a nature as to justify an adjustment in cost or performance schedule.

Article V - Billing Instructions

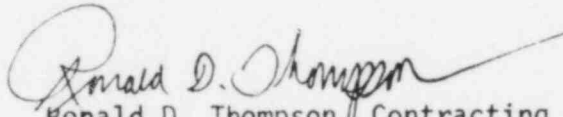
All requests for payment shall be submitted on Standard Form 1081 in an original and three copies to the following address:

U.S. Nuclear Regulatory Commission
Office of Resource Management
Division of Accounting and Finance
ATTN: GOV/COM Accounts
Washington, DC 20555

If you agree with the provisions of this agreement, please so indicate by signing in the space provided below and returning two signed copies to this office. The third copy is for your records. Any questions

concerning this agreement should be directed to Mrs. Mary Mace of my staff on (301) 492-4282.

Sincerely,

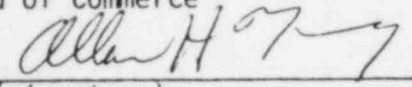

Ronald D. Thompson, Contracting Officer
Technical Contracts Branch
Division of Contracts
Office of Administration

Attachment: Statement of Work

ACCEPTED:

Bureau of Economic Analysis
Bureau of Commerce

By:


(signature)

ALLAN H. YOUNG
(typed name)

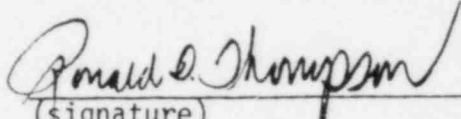
Title: Acting Director

Date: July 23, 1985

ACCEPTED:

U.S. Nuclear Regulatory Commission

By:


(signature)

Ronald D. Thompson
(typed name)

Title: Contracting Officer

Date: 8/1/85

STATEMENT OF WORK

Title: Calibration of Site Analysis Branch Regional Economic Impacts Model of Accidents

Background

Under two previous contracts (FIN #B8044 & #B8678) the Bureau of Economic Analysis (BEA) has adapted its RIMS II (Regional Input-Output Modeling System) to estimate the off-site economic impacts of postulated nuclear power plant accidents. Considerable advancements have been made in lowering costs and in providing greater flexibility in the geographical and industrial level of detail at which the model can be run. Experience gained in using RIMS II output in casework has led the Site Analysis Branch (SAB) to begin developing a simplified more aggregate model for in-house use for risk consequence analysis. Calibration and validation of the SAB model requires BEA to produce RIMS II economic impact estimates for two nuclear power plant sites. The SAB model will use a regional economic data base supplied by BEA.

Objective

The objective of this project is to calibrate and validate the "in-house" regional economic impact SAB model being developed within SAB by comparing estimates for this model for those of RIMS II for two sites, and to obtain appropriate BEA data to allow staff use of the SAB model for approximately 80 nuclear power plant sites.

WORK REQUIREMENTS

Task 1: Provide a regional economic data base and RIMS II economic impact estimates for two nuclear power plant sites

Estimated level of effort: 5 professional staff months

Estimated completion data:

Regional economic data base	September 15, 1985
RIMS II impact estimates	October 31, 1985
Available for consultation through	March 31, 1986

Within two months of the beginning of this contract BEA and the Nuclear Regulatory Commission (NRC) through its Site Analysis Branch will jointly identify two nuclear power plants sites for which appropriate CRAC consequence estimates are available and which are located in regions with significantly different economic structures. BEA will furnish NRC with a computer tape of regional economic data to run the SAB regional economic impact model by September 15, 1985. Final data requirements will be negotiated in accordance with BEA regulations concerning the release and use of data. A report providing detailed output data from RIMS II economic impact estimates for the two sites will be provided by NRC by October 31, 1985. BEA staff will be available to discuss the RIMS II output through March 31, 1986.

Task 2: Furnish regional economic data files for approximately 80 nuclear power plant sites

Estimated level of effort: 1.2 professional staff months
Estimated completion date: Data with documentation March 31, 1986

BEA will furnish with appropriate documentation, regional economic data to run the SAB regional economic impact model for approximately 80 nuclear power plant sites. The required data is expected to be essentially the same as provided under Task 1 with possible minor modifications associated with the final specifications of the SAB regional economic impact model.

TECHNICAL DIRECTION AND AUTHORIZED REPRESENTATIVES

The technical representative and project officer for this contract for NRC is Donald Cleary, Site Analysis Branch, (telephone 492-8446). The project officer for BEA is Edward A. Trott, Jr., Regional Economic Analysis Division (telephone 523-0973).

REPORTING REQUIREMENTS

Required reports and completion dates are specified under the subtasks above.

Monthly Business Letter Report

A monthly business letter report will be submitted by the 25th of the month to the NRC Project Manager with copies provided to the Contracting Officer, Director, Division of Engineering, ATTN: Program Assistant, Branch Chief, Site Analysis Branch and M. Kaltman, NRC. These reports will identify the title of the project, the FIN, the Principal Investigator, the period of performance, and the reporting period will contain the sections as follows:

Project Status Section

1. A listing of the efforts completed during the period, milestones reached, or if missed, an explanation provided.
2. Any problems, of delays encountered or anticipated and recommendations for resolution.
3. A summary of progress to date (this may be expressed in terms of percentage completion for the project).
4. Plans for the next reporting period.

1. If the recommended resolution involves a change in work requirements, level of effort (costs), or period of performance a separate letter should be prepared and submitted to the Contracting Office with copies provided to the Director, Division of Engineering, ATTN: Program Assistant, the NRC Project Manager, and M. Kaltman, NRC.

Final Status Section

1. Provide the total direct staff use and the amount of funds expended (costed) during the period and total cumulative year to date in the following categories:

	Current Month	Year to Date
a. <u>Direct Staff Effort</u>		
b. <u>Funds (\$000)</u>		
Direct Salaries		
Materials and Service (excluding ADP)		
ADP Support		
Travel		
Indirect Labor Costs		
Other (Specify)		
		2/
		(%)
	TOTAL	

2. Provide the current fiscal year funding level as reflected in the funds obligated to date and the balance of funding needed to complete the work by fiscal year as follows.

Total Projected Project Cost	Funds Obligated to Date	Balance of Funds by FY FY'85 FY'86
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LEVEL OF EFFORT AND PERIOD OF PERFORMANCE

The level of effort is estimated to be approximately 0.4 staff years for FY 1985 and 0.1 staff years for 1986, for a period of 9 months.

MEETINGS AND TRAVEL

Three one day meetings of two people each to Bethesda, Maryland are included in this budget.

NRC FURNISHED MATERIALS

NRC will present documentation of BEA data required to run the SAB regional economic impact model for two sites by August 1, 1985. BEA will be provided with data describing up to five accident scenarios for each of the two plants by August 15, 1985. Under Task 2, NRC will furnish BEA with documentation specifying data requirements for approximately 80 sites no later than December 31, 1985.

2. Provide percentage against total funds obligated to date.