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#### CONTENTS OF COOPERATIVE AGREEMENT NRC-05-80-279

- 1. Cover Page
- 2. Contents of Cooperative Agreement Pages
- 3. Special Provisions
  - ARTICLE I DEFINITIONS
  - ARTICLE II SCOPE OF WORK
  - ARTICLE III PERIOD OF PERFORMANCE
  - ARTICLE IV DIVISION OF RESPONSIBILITY
  - ARTICLE V CONSIDERATION AND PAYMENT
  - ARTICLE VI DISPUTES
  - ARTICLE VII AVAILABILITY OF DATA
  - ARTICLE VIII PARTICIPATION OF OTHER GOVERNMENT AGENCIES
  - ARTICLE IX EXAMINATION OF RECORDS
  - ARTICLE X OFFICIALS NOT TO BENEFIT
  - ARTICLE XI COVENANT AGAINST CONTINGENT FEES
  - ARTICLE XII CONVICT LABOR
  - ARTICLE XIII NONDISCRIMINATION
  - ATTACHMENT A STATEMENT OF WORK

#### ARTICLE 1 - DEFINITIONS

A. The term "Commission" means the United States Nuclear Regulatory Commission or any duly authorized representative thereof, including the Contracting Officer, except for the purpose of deciding an appeal under the article entitled "Disputes."

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- B. The term "Contracting Officer" means the person executing this cooperative agreement on behalf of the Government and includes his successors or any duly authorized representative of any such person.
- C. The term "Contractor" means the State entering into this cooperative agreement.

#### ARTICLE II - SCOPE OF WORK

The State and the Commission shall engage in a cooperative agreement for measuring concentrations of radioactivity and radiation levels in the environment of Commission-licensed activities in sites selected by the Commission. The principal objectives of the program are to 1) provide reasonable assurance that environmental measurements made by the licensee under Commission requirements are valid, and 2) to independently monitor direct radiation levels in the environs of nuclear facilities.

The full scope of this cooperative agreement is set forth in Attachment A, STATEMENT OF WORK, which is attached hereto and by this reference made a part hereof.

#### ARTICLE III - PERIOD OF PERFORMANCE

- A. The period of performance hereunder shall commence on January 1, 1980, and shall continue through December 31, 1982, unless sooner terminated or extended, as hereinafter provided.
- B. The State and the Commission, by mutual agreement, may extend the period of performance through the execution of supplemental agreements to this cooperative agreement.
- C. Either party may terminate this cooperative agreement, in whole or in part, upon sixty (60) days written notice to the other party. If this cooperative agreement is so terminated, the Commission shall be liable only for payment in accordance with the consideration and payment provisions of this cooperative agreement for services rendered prior to the effective date of termination.

#### ARTICLE IV - DIVISION OF RESPONSIBILITY

In the performance of work under this cooperative agreement, the division of responsibility shall be as follows:

A. At the request of the Commission, the State will conduct off-site activities which shall consist of collecting environmental media samples, analyzing samples and exchanging dosimeters for measuring radiation levels, as specified in Attachment A.

- B. The Commission will carticipate with the State in developing schedules, sample and data collection procedures, analytical methods and other aspects of the program. The parties may split samples for separate analyses.
- C. The State will prepare and submit to the Commission reports in a format and time sequence as specified in Attachment A.

#### ARTICLE V - CONSIDERATION AND PAYMENT

#### A. Consideration

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 The Commission will provide funds, subject to the availability of appropriation, to the State in the amount of \$ 54,200.00 during the three (3) year period of performance. The rate of payment to the State will be as follows:

CY 1980 - \$7,200.00 per site, per year/environmental media program CY 1980 - \$1,000.00 per site, per year/TLD program CY 1981 - \$7,900.00 per site, per year/environmental media program CY 1981 - \$1,100.00 per site, per year/TLD program CY 1982 - \$8,700.00 per site, per year/environmental media program CY 1982 - \$1,200.00 per site, per year/TLD program

- The State will contribute, as a minimum, an amount or in kind services equal to the Commission's contribution in 1. above.
- The amount presently obligated by the Commission with respect to this cooperative agreement for the CY 1930 effort is \$ 12,890.00.

#### B. Payment

- The Commission shall render payment to the State in approximately thirty (30) days after submission of proper and correct quarterly vouchers.
- The State should address the original voucher with four copies to:

U. S. Nuclear Regulatory Commission Office of the Controller AITN: Director, Division of Accounting Washington, D.C. 20555

#### ARTICLE VI - DISPUTES

A. Except as otherwise provided in this cooperative agreement, any dispute concerning a question of fact arising under this cooperative agreement which is not disposed of by mutual agreement shall be decided by the Contracting Officer, who shall reduce his decision to writing and mail or otherwise furnish a copy thereof to the State. The decision of the Contracting Officer shall be final and conclusive unless within 30 days from the date of receipt of such copy, the State mails or otherwise furnishes to the Contracting Officer a written appeal addressed to the Commission. The decision of the Commission or its duly authorized representative for the determination of such appeals shall be final and conclusive unless determined by a court of competent jurisdiction to have been fraudulent, or capricious, or arbitrary, or so grossly erroneous as necessarily to imply bad faith, or not supported by substantial evidence. In connection with any appeal proceeding under this clause, the State shall be afforded an opportunity to be heard and to offer evidence in support of its appeal. Fending final decision of a dispute hereunder, the State shall proceed diligently with the performance of the cooperative agreement and in accordance with the Contracting Officer's decision.

B. This "Disputes" clause does not preclude consideration of law questions in connection with decisions provided for in paragraph A. above: Provided That nothing in this cooperative agreement shall be construed as making final the decision of any administrative official, representative, or board on a question of law.

#### ARTICLE VII - AVAILABILITY OF DATA

Any and all data collected, pursuant to this cooperative agreement by either narty alone or jointly, shall be available in full to the other party. All uata collected by the State, pursuant to this cooperative agreement, shall be sent to the NRC Office of Inspection and Enforcement, Region II Office, 101 Marietta Street, Suite 3100, Atlanta, GA 30303, ATTN: Chief, Fuel Facility and Materials Safety Branch.

To assure validity and accuracy of data released for publication, each party shall have thirty (30) days from receipt of data under the program to review such data for the purpose of verification, as appropriate, prior to release to the public, unless otherwise required by law, or both parties agree to release.

#### ARTICLE VIII - PARTICIPATION BY OTHER GOVERNMENT AGENCIES

The Commission shall have the right to request and accept the participation of other Federal Government agencies in the program and to keep other interested Federal agencies fully and currently informed of the activities undertaken under this cooperative agreement.

#### ARTICLE IX - EXAMINATION OF RECORDS

The State agrees that the Commission and the Comptroller General of the United States or any of his duly authorized representatives shall, until the expiration of three (3) years after final payment under this cooperative agreement, have access to and the right to examine any directly pertinent books, documents, papers, and records involving transactions related to this cooperative agreement.

#### ARTICLE X - OFFICIALS NOT TO BENEFIT

No member of or delegate to Congress, or resident commissioner, shall be admitted to any share or part of this cooperative agreement, or to any benefit that may arise therefrom; but this provision shall not be construed to extend to this cooperative agreement if made with a corporation for its general benefit.

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#### ARTICLE XI - COVENANT AGAINST CONTINGENT FEES

The State warrants that no person or selling agency has been employed or retained to solicit or secure this cooperative agreement upon an agreement or understanding for a commission, percentage, brokerage or contingent fee, excepting bona fide employees or bona fide established commercial or selling agencies maintained by the State for the purpose of securing business. For breach or violation of this warranty the Federal Government shall have the right to annul this cooperative agreement without liability or in its discretion to deduct from the cooperative agreement price or consideration, or otherwise recover the full amount of such commission, percentage, brokerage, or contingent fee.

#### ARTICLE XII - CONVICT LABOR

In connection with the performance of work under this cooperative agreement, the State agrees not to employ any person undergoing sentence of imprisonment at hard labor.

#### ARTICLE XIII - NONDISCRIMINATION

The State agrees to comply with the Commission's Regulation (Part 4 of Title 10, Chapter 1, Code of Federal Regulations), as amended, effectuating the provisions of Title VI of the Civil Rights Act of 1964 and Title IV of the Energy Reorganization Act of 1974, as amended.

#### ATTACHMENT A

#### STATEMENT OF WORK

#### RADIATION MONITORING PROGRAM REQUIREMENTS

#### I. PURPOSE

The purpose of this cooperative agreement is to establish a collaborative program between the State of Georgia (hereinafter called the "State") and the Commission to provide independent measurements of radioactivity and radiation levels in the environment around selected Commission licensed activities, and to provide reasonable assurance that a licensee's environmental measurements are valid.

#### II. GENERAL REQUIREMENTS

The Commission and the State will collaborate in implementing and conducting programs at individual sites within the State in accordance with the following general requirements:

- A. The State, within a reasonable time after the effective date of this cooperative agreement, will take action to provide facilities, qualified personnel and/or agencies as may be necessary to accomplish the work described in this cooperative agreement. The State thereafter will maintain for the period of this cooperative agreement, a sufficient level of effort to fulfill the objectives of the cooperative agreement.
- B. Programs will be undertaken at the following sites:

Hatch Nuclear Power Plant Farley Nuclear Power Plant

C. Attachments 1, 2, and 3 show the overall sampling and analyses requirements for facilities. Attachment 2 also gives the minimum detectable capabilities for the samples analyzed. No on-site samples will be collected pursuant to the cooperative agreement unless specifically requested or approved by the Commission.

#### III. PROCEDURES FOR IMPLEMENTING AND CONDUCTING THE PROGRAMS

A. The Commission's Office of Inspection and Enforcement (IE) Technical Representative will provide technical liaison, as necessary, between the State and the liccnsee, in all matters relating to the program conducted pursuant to the cooperative agreement. This liaison may be delegated to the NPC Region II Technical Representative for the particular NRC licensee involved.

The State will make all necessary co Б. collecting samples in the off-site e access to private property, assistan arranging with private firms for ser

The State will make all necessary con C. the licensee to split samples with the samples and obtain licensee's data on

The Commission will assist the State i arranging for laboratory support, as n periodically, assisting State in obtain data, and consulting with the State on

The State will exchange TLDs at station. the Commission and the State on a freque on January 1, 1980. The interval betwee smaller than 80 days nor larger than 100

During an exchange, the State will repla field with annealled TLDs supplied by NRC Intransit control TLD will be placed in 1 State's point of dispatch.

Exposed TLDs will be shipped back to NRC F by conveyance agreed upon by the Commissic

F.

D.

Ε.

The State will notify the NRC Office of In-Region II Office by telephone (404/221-554 confirmation as soon as practicable after i observed unusual condition, level of radiat radioactive material measured in carrying o vidual sites.

G.

The Commission will make the necessary inspe and inquiries to ascertain the status of comwith license provisions, rule;, orders, and Commission and to determine the safety of lic will initiate enforcement or other regulatory Results of such inspections, investigations, in response to such notification shall be pro-

- IV. REPORTING
  - Α.

The State will provide the Commission with an a off-site analyses with comparisons of similar a tive licensee within 120 days after January 1 c report shall follow the format of Attachment 3. some results are not available within the 120-d shall be submitted noting and explaining the rea

results. The missing data shall be submitted as soon as possible in a supplementary report. If samples are not available, data analysis is not expected. However, a brief explanation as to why the sample was not provided is requested. If samples or data are not available because of the reluctance of the licensee to provide them, the NRC IE Regional Technical Representative should be notified as soon as possible. The annual report shall also include a summary of the State's EPA crosscheck program results for the past year.

- B. The Commission will arrange for the timely distribution of the reports within the Commission and to the licensee, and any other Federal, State or local agencies as may be necessary in meeting the intent of the "National Environmental Policy Act of 1969" (Public Law 91-190, 83 Stat. 853, dated January 1, 1970) for keeping affected agencies informed.
- C. The Commission will work with the State in making the program findings publicly available through special bulletins, press releases, and publication in appropriate technical journals or periodicals, or otherwise, to assure prompt and wide distribution of the data at minimum cost.
- D. The State will provide to the Commission on a quarterly basis, a report covering NRC funds expended during the preceding quarter, a total expenditure of funds under this cooperative agreement, and a tabulation of Services Rendered by facility. The format is shown in Attachment 4. This report shall be submitted to the Contracting Officer.

### ATTACHMENT 1

	ENVIRONMENTAL RADIOLOGICAL VE AROUND NUCLEAR	POWER PLANTS	
Exposure Pathway and/or Sample	Number of Samples S. and Location 9/	3/80 Collection Frequency AFC 6/3	Type of Frequency of Analysis
AIRBORNE: Particulates	One sample from location of high calculated ground level concen- tration and in close proximity of licensee sampler.	MONTHLY Continuous operation of sampler with sample collection as required by dust loading but at least once per 7 days.	Gross beta radioactivity following filter change composite for gamma isotopic analysis quarte.
	One sample from control location.		
Radioiodine	Same as particulates.	One sample per month.	Analyze for I-131
WATERBORNE: Surface	One sample, split with licensee, from immediate area of discharge, (or at nearest downstream drink- ing water supply) and one sample at upstream control location.	Composite sample monthly.	Gamma isotopic analysis monthly a mittum quarter:
INGESTION:	· · ·		
Milk	One sample, split with licensee, at the off-site dairy farm or individual milk animal at the location having highest X/Q.	Monthly.	Gamma isotopic and radioiodine analyses.
Fish or			
Invertebrates	One sample, split with licensee, of a commercially or recreation- ally important species in vicinity of discharge point.	Semiannually or in season.	Gamma isotopic of edible portions.

# ATTACHMENT 1 (Cont'd)

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Exposure Pathway and/or Sample Food Products	Number of Samples and Location Two samples split with licensee, of principal food products grown near point having the highest X/Q or from any area which is irrigated by water in which liquid plant wastes have been discharged or green leafy vegetables at a private garden or farm in the immediate area of the plant.	Sampling and Collection Frequency At time of harvest.	Type of Frequency of Analysis Gamma isotopic on edible portion. Radioiodine analysis on green leafy vegetable.
Sediment from Shoreline TLD-Direct	One sample split with licensee	Annually.	
Radiation	<ul> <li>a. TLD badges in 16 sectors around plant site at two distances from site boundary: <ol> <li>Site boundary out to</li> <li>mile</li> <li>Two (2) to 4 miles from site boundary.</li> </ol> </li> <li>b. Population centers within 10 miles.</li> <li>c. Maximum exposed residences within 3 miles.</li> <li>d. High control</li> </ul>	Quarterly	Gamma isotopic analysis. Analyses to be performed by Commission.

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#### ATTACHMENT 2

	LOWER LIMIT OF DETECTIONA (LLD)								
Analysis	Water (pCi/1)	Airborne Particulate or Gas (pCi/m <sup>3</sup> )	Fish, Meat or Poultry (pC1/kg, wet)	Milk (pCi/l)	Food Products (pci/kg, wet)	Sediment (pCi/kg, dry)			
gross beta	2	0.01							
311	330		•						
54 <sub>Mn</sub>	15		130						
59Fe	30		260						
58,60Co	15		130						
65 <sub>Zn</sub>	30		260						
95Zr-No	10								
131 <sub>I</sub>	0.4	7 x 10-2		1	60				
134Cs, 137Cs	15	1 x 10-2	130	15					
140Ba-La	15		100	15	60	150			

## DETECTION CAPABILITIES FOR ENVIRONMENTAL SAMPLE ANALYSES

a. The nominal LLD is defined in HASL 300 (rev 8/74) pp D-08-01, 02, 03 at the 95% confidence level. The LLD for radionuclides analyzed by gamma spectrometry will vary according to the number of radionuclides encountered in environmental samples. These detection levels should be used as minimum criteria for objectives for instrumentation and analytical procedure selection. The LLD is calculated to the end of the total sampling period.

# ATTACIMENT 3

# Name of Facility

(Location of Facility) (Reporting Period)

Medium or	Split or	Location				
Pathway Sampled	Duplicate Sample	Location Name	Distance & Direction	Date	State Results	Licensee Results

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# Jan. 1, 1980 - Mar. 30, 1980

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### ATTACIMENT 4

## Description of Services Rendered

Facility Location

No. Samples	Sample Type	Analyses Performed					
inter bumprea	Jampre Type	Beta	Gamma	Tritium	1-131	No. Analyses	
18	Air Particulate	18	6 ·			24	
58	Radioiodine		58			58	
18	TLDs					18	
6	Water		6	4		10	
2	Sediment		2			2	
2	Milk		2		2	4	
0	Food Products					0	
2	Fish		2			2	

Man-hours expended:

Field Sampling	hours
Analytical Services	hours
Quality Assurance 46	hours
Administration	hours
753	

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