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| | and PAmmil | authorized to sign) | | 27. UNITED STATE | | June of Cor | and officers | <u> </u> |
| Frank | P. Simoneaux, Se ana Dept. of Nat | cretary | 25. DATE SIGNED | 28. NAME OF CO | NTRACTING OFFIC | | or print) | 28. DATE SIGNED |
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NRC-31-82-733 Page 2 of 6

CONTENTS OF COOPERATIVE AGREEMENT NRC-31-82-731

- 1. Cover Page
- 2. Contents of Cooperative Agreement Pages
- 3. Special Provisions

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ARTICLE II - SCOPE OF WORK

ARTICLE III - PERIOD OF PERFORMANCE

ARTICLE IV - DIVISION OF RESPONSIBILITY

ARTICLE V - CONSIDERATION AND PAYMENT

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ARTICLE VII - AVAILABILITY OF DATA

ARTICLE VIII - PARTICIPATION OF OTHER GOVERNMENT AGENCIES

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- ARTICLE XIII NONDISCRIMINATION
- ATTACHMENT A STATEMENT OF WORK

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ARTICLE I - 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."
- 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 representaive of any such person.
- C. The term "Contractor" means the State entering into this cooperative agreement.
- D. The term "Technical Representative" means the person in Office of Inspection and Enforcement (OIE) Headquarters or Region IV who is responsible for the technical aspects of 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 the Commission-licensed activities at 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 around 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 of this cooperative agreement.

ARTICLE III - PERIOD OF PERFORMANCE

- A. The period of performance hereunder shall commence on July 1, 1982, 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 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.

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ARTICLE IV - DIVISION OF RESPONSIBLITY

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

- A. At the request of the Commission, the State will conduct offsite 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 participate 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 MRC Region IV office reports in a format and time sequence as specified in Attachment A.

ARTICLE V - CONSIDERATION AND PAYMENT

A. Consideration

- The Commission will provide funds, subject to the availablility of appropriation, to the State in the amount of \$4,950 during the six month period of performance. The rate of payment to the State will be as follows:
 - CY 1982 8,700 per site, per year/environmental media program CY - 1982 - 1,200 per site, per year/TLD program
- 2. The State will contribute, as a minimum, an amount or in kind services equal to the Commission's contribution in 1. above.
- 3. The amount presently obligated by the Commission with respect to this cooperative agreement for the CY 1982 effort is \$4,950.

B. Payment

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

U. S. NUCLEAR REGULATORY COMMISSION Office of The Controller ATTN: Director, Division of Accounting Washington, D. C. 20555

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ARTICLE VI - DISPUTES

- Except as otherwise provided in this cooperative agreement, any dispute Α. 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. Pending 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: <u>Provided</u>, 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

1.1

Any and all data collected, pursuant to this cooperative agreement by either party alone or jointly, shall be available in full to the other party. All data collected by the State, pursuant to this cooperative agreement, shall be sent to the NRC Region IV Office, 611 Ryan Plaza Drive, Suite 1000, Arlington, Texas, 76011, ATTN: Chief, Technical Programs Branch.

To assure validity and accuracy of data released for publication, each party shall have 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.

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 Louisiana (hereinafter call 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:

Waterford-3 Nuclear Power Station

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 onsite 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 Region IV Office Technical Representative will provide technical liaison, as necessary, between the State and the licensee, in all matters relating to the program conducted pursuant to the cooperative agreement.

- B. The State will make all necessary contacts and arrangements for collecting samples in the offsite environment, e.g., obtaining access to private property, assistance of State or local agencies, arranging with private firms for services, etc.
- C. The State will make all necessary contacts and arrangements with the licensee to split samples with the licensee, obtain duplicate samples and obtain licensee's data on the comparative samples.
- D. The Commission will assist the State in selecting sampling locations, arranging for laboratory support, as necessary, spliting samples periodically, assisting the State in obtaining the licensee's comparative data, and consulting with the State on matters of mutual concern.
- E. The State will exchange TLDs at stations established jointly by the Commission and the State on a frequency of 92 ± 7 days starting on July 1, 1982. The interval between exchanges shall not be smaller than 80 days nor larger than 100 days.

During an exchange, the State will replace TLDs currently in the field with annealled TLDs supplied by NRC Region I office. Intransit control TLDs will be placed in a lead cask on arrival at the State's point of dispatch.

Exposed TLDs will be shipped back to NRC Region I office as soon as possible by conveyance agreed upon by the Commission and State.

- F. The State will notify the NRC Region IV office by telephone (817/465-8100, FTS 728-8100) and written confirmation as soon as practicable after it becomes aware of any observed unusual condition, level of radiation, or concentrations of radioactive material measured in carrying out the programs at individual sites.
- G. The Commission will make the necessary inspections, investigations, and inquiries to ascertain the status of compliance by the licensees with license provisions, rules, orders, and regulations of the Commission and to determine the safety of licensee operations; and will initiate enforcement or other regulatory action as appropriate. Results of such inspections, investigations, or inquiries conducted in response to such notification shall be provided to the State.

IV. REPORTING

- Α. The State will provide the NRC Region IV office with an annual report of all offsite analyses with comparisons of similar analyses by the respective licensee within 120 days after January 1, 1983. The report shall follow the format of Attachment 3. In the event that some results are not available within the 120-day period, the report shall be submitted noting and explaining the reasons for the missing 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 Region IV 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 as appropriate 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.

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ATTACHMENT 1

| Exposure Pathway and/or Sample | Number of Samples and Location | Sampling and Collection Frequency | Type of Frequency and Analysis |
|-----------------------------------|---|---|---|
| AIRBORNE: Particulates | One sample, from a location of high calculated ground level concentra- tion and in close proximity to licensee's sampler. | Continuous operation of sampler with sample collection as required by dist loading but at least once per 7 days. | Gross beta and gamma isotopic radioactivity analyses following each filter change. |
| | One sample from a control location in close proximity to licensee's sampler. | Continuous operation of sampler with sample collection as required by dust loading but at least once per 7 days. | Gross beta and gamma isotopic radioactivity analyses following each filter change. |
| Radioiodine | Same as particulates. | Same as particulates. | 131 I isotopic analysis following each cartridge change. |
| WATERBORNE: | 2.2.5 | | |
| Surface | One sample, split with licensee, from immediate area of discharge, or at nearest downstream drinking water supply. | Monthly sample which has been composited from a weekly collection. | Gamma isotopic analysis monthly. |
| | and and a supply. | Quarterly sample which has been composited from a monthly collection. | Tritium analysis quarterly. |
| | | | |

ENVIRONMENTAL RADIOLOGICAL VERIFICATION MONITORING PROGRAM AROUND NUCLEAR POWER PLANTS

One sample, spit with licensee, from an upstream control Same as above. location.

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3

Same as above.

31-06-120

ATTACHMENT 1 (con't)

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| Exposure Pathway and/or Sample | Number of Samples and Location | Sampling and Collection Frequency | Type of Frequency and Analysis |
|-----------------------------------|---|--------------------------------------|--|
| INGESTION: Milk | One sample, split with licensee, at an offsite dairy farm or individual milk animal at the location having the highest X/Q. | Monthly. | Gamma isotopic and radioiodine analyses monthly. |
| Fish or Invertebrates | One sample, split with licensee, of a commercially or recreationally important species in the vicinity of the plant discharge point. | Semiannually or in season. | Gamma isotopic analysis of edible portions. |
| Food Products | Two samples, split with licensee, of principal food pro- ducts grown near point having the highest X/Q or from any area where liquid plant wastes have been discharged or green leafy vegetables at a privat garden or farm in the immediate area of the plant. | | Gamma isotopic analyses including radioicdine of edible portion. |
| Sediment from Shoreline | One sample, split with licensee, of shoreline sediment downstream from the plant. | Annually. | Gamma isotopic analysis. |

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ATTACHMENT 1 (con't)

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| Exposure Pathway and/or Sample | Number of Samples and Location | Sampling and Collection Frequency | Type of Frequency and Analysis |
|-----------------------------------|---|--------------------------------------|---|
| TLD-Direct Radiation | a. TLD badges in sectors aroun the plant sit two distances the site boun | d e at from | Analyses to be performed by the Commission. |
| | (1) Site boun out to 1 (2) From 2 to miles fro boundary. | mile. 4 m site | |
| | b. Population ce within 10 mil | | |
| | the plant. c. Maximum expos residences wi 3 miles of th plant. | ed thin | |
| | d. High public i sites within | 5 miles | |
| | of the plant. e. Three backgro control sites than 15 miles the plant. | und greater | |
| | | | |
| | | | |
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ATTACHMENT 2

DETECTION CAPABILITIES FOR ENVIRONMENTAL SAMPLE ANALYSES

| LOWER LIMIT OF DETECTION (LLD) ^{a,g} | | | | | | |
|---|--|--|--|-----------------|--------------------------------|--------------------------|
| Analysis | Water (pCi/l) | Airborne Particulate ₃ or Gas (pCi/m [°]) | Fish, Meat or Poultry (pCi/kg,wet) | Milk (pCi/1) | Food Products (pCi/kg, wet) | Sediment (pCi/kg, dry |
| gross beta | 4 ^b | 1.0E-02 | | | | |
| З _Н | 2000 _b 1000 ^b | | | | | |
| 54 _{Mn} | 15 | 1.0E-02 ^d | 130 | | 6 ^e | 10 ^f |
| ⁵⁹ Fe | 30 | 2.0E-02 ^d | 260 | | 8 ^e | 20 ^f |
| ⁵⁸ Co | 15 | 1.0E-02 ^d | 130 | | 5 ^e | 10 ^f |
| ⁶⁰ Co | 15 | 1.0E-02 ^d | 130 | | 5 ^e | 10 ^f |
| ⁶⁵ Zn | 30 | 2.0E-02 ^d | 260 | | 6 ^e . | 20 ^f |
| 95 _{Zr-} 95 _{Nb} | 15 ^C | 2.0E-02 ^d | | | 8 ^e | 20 ^f |
| ¹³¹ I | 1 | 7.0E-02 | 1.19 | 1 | 60 | 20 ^f |
| ¹³⁴ Cs | 15 | 1.0E-02 | 130 | 15 | 60 | 150 |
| ¹³⁷ Cs | 15 | 1.0E-02 | 130 | 15 0 | 60:5 | 150 |
| 140 _{Ba} -140 _{La} | 15 ^c | 2.0E-02 ^d | | 15 ^C | 6 ^e | 20 ^f |

a. The nominal LLD is the smallest concentration of radioactive material in a sample that will be detected at the 95% confidence level. This table reflects the values given in the NRC Draft Radiological Effluent Technical Specifications, NUREG-0472, Revision 3, March 1979. The LLD for radionuclides analyzed by gamma spectrometry will vary according to the number of radionuclides encountered in the 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.

b. LLD for drinking water.

c. Total for parent and daughter.

ATTACHMENT 2 (con't)

- d. Detection limit based on a 300 m³ sample counted for a minimum of 1000 minutes using a Ge(Li) detector.
- e. Detection limit based on a 1000 gram sample counted for a minimum of 1000 minutes using Ge(Li) detector.
- f. Detection limit based on a 1 kilogram sample counted for a minimum of 1000 minutes using a Ge(Li) detector.
- g. This does not mean that only the radionuclides listed in Attachment 2 are to be detected and reported. Other peaks which are measurable and identifiable, together with the above listed radionuclides, shall be identified and reported.

| 1. 1 | | | ' | WRC-31- | 82-733 | |
|------------------------------|------------------------------|------------------|-------------------------|---------|------------------|---------------------|
| | : | ATTACHMEN | Т 3 | | ; | |
| | | NAME OF | ILITY | | | |
| | (Location of | Facility) | (Reporting P | eriod) | | |
| Medium or Pathway Sampled | Split or Duplicate Sample | Location Name | Distance & Direction | Date | State Results | Licensee Results |
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|-------------|--------------------------------|--|--------------|
| | • • | ATTACHMENT 4 | |
| | De | cription of Services Rendered | |
| | Facility | Location | |
| No. Samples | Sample Type | Analyses Performed Gross Gamma Tritium 1-131 Beta Isotopic | No. Analyses |
| | Air Particulate Radioiodine | | |
| | TLDs | | |
| | Water | | |
| | Sediment Sed | ent | |
| | Miłk | | |
| | Food Products | | |
| | Fish | | |

Man-hours expended:

| Field Sampling | hours |
|---------------------|-------|
| Analytical Services | hours |
| Quality Assurance | hours |
| Administration | hours |

NRC-31-82-733

ATTACHMENT 4

Description of Services Rendered

Facility

1

Location ____

| No. Samples | Sample Type | Gross Beta | nalyses Performed Gamma Tritium Isotopic | 1-131 | No. | Analyses | |
|-------------|-----------------|---------------|--|-------|-----|----------|--|
| | Air Particulate | | | | | | |
| | Radioiodine | | | | | | |
| | TLDs | | | | | | |
| | Water | | | | | | |
| | Sediment | | | | | | |
| | Milk | | | | | | |
| | Food Products | | | • | | | |
| | Fish | | | | | | |

Man-hours expended:

| Field Sampling | hours |
|---------------------|-------|
| Analytical Services | hours |
| Quality Assurance | hours |
| Administration | hours |

SUMMARY OF STAFF TIME REQUIRED IN ACTIVITIES CONNECTED WITH NRC CONTRACT DURING CALENDER YEAR 1982

39

100

SAMPLING

ANALYSES

9

à.

225 Hours 93 Hours 75 Hours

DATA MANAGEMENT, QA & REPORTS

ADMINISTRATION

25 Hours

TOTAL

418 Hours

SUMMARY OF EXPENSES REQUIRED IN ACTIVITIES CONNECTED WITH NRC CONTRACT DURING CALENDER YEAR 1982

| LAB SUPPLIES | \$1500.00/6 months |
|-------------------|--------------------|
| AUTOHOTIVE | \$ 618.00/6 months |
| TRAVEL EXPENSES , | \$ 150.00/6 months |
| STAFF SALARIES | \$7675.00/6 Lonths |

TOTAL

\$9943.00/6 months