

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE

PAGE OF PAGES

1 1 3

2. AMENDMENT/MODIFICATION NO.

Nine (9)

3. EFFECTIVE DATE

1/1/89

4. REQUISITION/PURCHASE REQ. NO.

RG5-83-685 dtd 12/27/88

5. PROJECT NO. (If applicable)

6. ISSUED BY

CODE

7. ADMINISTERED BY (If other than Item 6)

CODE

U.S. Nuclear Regulatory Commission
Division of Contracts & Property Management
Washington, DC 20555

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)

Oregon State Health Division
1400 S.W. 5th Avenue
Portland, Oregon 97201

9A. AMENDMENT OF SOLICITATION NO.

9B. DATED (SEE ITEM 11)

10A. MODIFICATION OF CONTRACT/ORDER NO.

X NRC-32-83-685

10B. DATED (SEE ITEM 13)

1/01/83

CODE

FACILITY CODE

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

APPN No.: 31X0200.209 B&R No.: 920-19-04-02-0 FIN No.: B8554 OBLIGATE: \$14,000.00

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

W/ A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.

B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(d).

C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:

X Mutual agreement of the parties

D. (If B, specify type of modification and authority)

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PDR CONTR
NRC-32-83-685 PNU

E. IMPORTANT: Contractor ☐ is not, ☒ is required to sign this document and return 2 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

The purpose of this modification is to 1) extend the period of performance, 2) provide CY 1989 funds and revise Article V, 3) incorporate Attachment A - Revised Statement of Work, and 4) change the accounting and appropriation data. Accordingly, the following changes are hereby made:

1. ARTICLE III - PERIOD OF PERFORMANCE, paragraph A. is revised to read as follows:

"A. The period of performance hereunder shall commence on January 1, 1983 and shall continue through December 31, 1991, unless sooner terminated or extended, as herein provided."

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)

16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)

15B. CONTRACTOR/OFFEROR

15C. DATE SIGNED

16B. UNITED STATES OF AMERICA

16C. DATE SIGNED

(Signature of person authorized to sign)

2/17/89

BY Paul J. Edgeworth
(Signature of Contracting Officer)

1/9/89

2. ARTICLE V - CONSIDERATION AND PAYMENT, paragraph A., Consideration, and paragraph B., Payment, are revised as follows:

A. Consideration

- "1. The Commission will provide funds, subject to the availability of appropriation, to the State in the amount of \$114,500.00 during the nine (9) year period of performance. The rate of payment to the State will be as follows:

CY-1983 - \$ 9,600.00 per site, per year/EM program
CY-1984 - \$ 10,600.00 per site, per year/EM program
CY-1985 - \$ 11,700.00 per site, per year/EM program
CY-1986 - \$ 12,000.00 per site, per year/EM program
CY-1987 - \$ 12,600.00 per site, per year/EM program
CY-1988 - \$ 13,000.00 per site, per year/EM program
CY-1989 - \$ 14,000.00 per site, per year/EM program
CY-1990 - \$ 15,000.00 per site, per year/EM program
CY-1991 - \$ 16,000.00 per site, per year/EM 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 CY-1989 effort is \$14,000.00. The total amount obligated since inception of this agreement is increased by \$14,000.00, from \$ 69,500.00 to \$83,500.00."

- B. Payment, under item no. 2, add the following sentence:

"In addition to providing copies of vouchers to the above address, the State should also provide one (1) copy of each voucher to the designated NRC Regional Project Officer to help ensure timely payment."

3. ARTICLE II - SCOPE OF WORK, second paragraph is revised as follows:

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

4. The accounting and appropriation data cited in Block No. 12 of SF-30 is revised as follows:

APPN No.: "31X0200.209"

B&R No.: "920-19-04-02-0"

FIN No.: "B8554"

All other terms and conditions of this cooperative agreement remain unchanged.

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 Oregon (hereinafter called the "State") and the Commission to provide independent measurements of radioactivity 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:
 - Trojan 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 onsite samples will be collected pursuant to the cooperative agreement unless specifically requested or approved by the Commission.
- D. The State will prepare and conduct a quality assurance program including participation in the Environmental Protection Agency's (EPA's) Environmental Radioactivity Laboratory intercomparison studies (crosscheck) program or equivalent program. The results of analysis of these crosscheck samples shall be included in the annual report.

III. PROCEDURES FOR IMPLEMENTING AND CONDUCTING THE PROGRAMS

- A. The Commission's Region V 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. The State will collect samples independent of the licensee's samples.
- D. The Commission will assist the State in selecting sampling locations, arranging for laboratory support, as necessary, splitting 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 notify the NRC Region V office by telephone (415/943-3700, FTS 463-3700) 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.
- F. 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

- A. The State will provide the Commission with an annual report of all offsite analyses with comparisons of similar analyses by the respective licensee within 120 days after January 1 of each year. 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 Regional Office 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, a summary of sampling and analytical procedures, and the lower limits of detection followed in the analyses.
- 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 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.

ATTACHMENT 1

ENVIRONMENTAL RADIOLOGICAL VERIFICATION MONITORING PROGRAM AROUND NUCLEAR POWER PLANTS^a

<u>Exposure Pathway and/or Sample</u>	<u>Number of Samples and Location</u>	<u>Sampling and Collection Frequency</u>	<u>Type of Frequency and Analysis</u>
AIRBORNE:			
Particulates	One sample from location of high calculated ground level concentration and in close proximity of licensee's sampler. One sample from control location.	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, and composite for gamma isotopic analysis quarterly.
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 drinking water supply) and one sample at upstream control location.	Composite sample monthly.	Gamma isotopic analysis monthly and tritium quarterly.
INGESTION:			
Milk	One sample, split with licensee, at the offsite dairy farm or individual milk animal at the location having highest X/Q.	Monthly.	Gamma isotopic and radioiodine analyses.

- a. Some sample media and frequencies may have to be altered to accommodate the NRC licensee's specific environmental monitoring program. Any such changes should be coordinated with and approved by the Region V Technical Representative.

<u>Exposure Pathway and/or Sample</u>	<u>Number of Samples and Location</u>	<u>Sampling and Collection Frequency</u>	<u>Type of Frequency and Analysis</u>
Fish or Inverte- brates	One sample, split with licensee, of a commercially or recreationally important species in vicinity of discharge point.	Semiannually or in season.	Gamma isotopic of edible portions.
Food Products	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.	At time of harvest.	Gamma isotopic on edible portion. Radioiodine analysis on green leafy vegetable.
Sediment from Shoreline	One sample split with licensee.	Annually.	Gamma isotopic analysis.

ATTACHMENT 2

DETECTION CAPABILITIES FOR ENVIRONMENTAL SAMPLE ANALYSES

LOWER LIMIT OF DETECTION (LLD)^{a,b}

Analysis	Water (pCi/l)	Airborne Particulate or Gas (pCi/m ³)	Fish, Meat or Poultry (pCi/kg, wet)	Milk (pCi/l)	Food Products (pCi/kg, wet)	Sediment (pCi/kg, dry)
gross beta	2	0.01				
³ H	330					
⁵⁴ Mn	15		130			
⁵⁹ Fe	30		260			
^{58,60} Co	15		130			
⁶⁵ Zn	30		260			
⁹⁵ Zr-Nb	10					
¹³¹ I	0.4	7x10 ⁻²		1	60	
¹³⁴ Cs, ¹³⁷ Cs	15	1x10 ⁻²	130	15	60	150
¹⁴⁰ Ba-La	15			15		

- a. The LLD is defined, for purposes of these specifications, as the smallest concentration of radioactive material in a sample that will yield a net count (above system background) that will be detected with 95% probability with only 5% probability of falsely concluding that a blank observation represents a "real" signal. It should be recognized that the LLD is defined as an a priori (before the fact) limit representing the capability of a measurement system and not as an a posteriori (after the fact) limit for a particular measurement. Analyses should be performed in such a manner that the stated LLDs will be achieved under routine conditions.
- b. 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, should be identified and reported.

ATTACHMENT 3

NAME OF FACILITY

(Location of Facility)

(Reporting Period)

Medium or Pathway Sampled	Split or Duplicate Sample	Location Name	Distance & Direction	Date	State Results	Licensee Results
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ATTACHMENT 4

Description of Services Rendered

Facility _____ Location _____

No. Samples	Sample Type	Analyses Performed			No. Analyses
		Gross	Gamma	Tritium I-131	

Air Particulate

Radioiodine

TLDs

Water

Sediment

Milk

Food Products

Fish

Man-hours expended:

Field Sampling	hours
Analytical Services	hours
Quality Assurance	hours
Administration	hours