PROC. PEG. (41 CPR) 1-16.101	ENDMENT OF SC	DLICITATION/MODIFICA	TION OF CO	NTRACT	AGE OF
MENDMENT MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION / PURCHASE REQUEST		ECT NO. (If applicabl	(e)
ONE (1)	ODE	6. ADMINISTERED BY (1f other than	the second se	CODE	
U.S. NUCLEAR REGULATO	RY COMMISSION				
DIVISION OF CONTRACTS WASHINGTON, D.C. 205					
WASHINGTON, D.C. 200					
CONTRACTOR CODE	FAC	LITY CODE	- MENDMENT OF		
Γ			_ SITATION NO.		
STATE OF NEW MEX ENVIRONMENTAL IM		TON		(See block 9	
mir. state. P.O. BOX 968			CONTRACT/ORDER	NRC-06-8	80-676
SANTA FE, NM 87	503	ľ			
L			DATED APTIL	18, 1980 block 1	1)
THIS BLOCK APPLIES ONLY TO AMENDMENTS O	F SOLICITATIONS				
The above numbered solicitation is amended at	s set forth in block 12. The h				
Offerors must acknowledge receipt of this amendm (a) By signing and returning	an and a sate (b) By acknowledge	no receipt of this conendment on each co	py of the offer submitte	ed; or (c) by separate is	etter or telegram
(a) By ugning and returningcopies of mis which includes a reference to the solicitation and DATE SPECIFIED MAY RESULT IN REJECTION OF	amandment sumbers FAILUR	E OF YOUR ACKNOWLEDGEMENT TO BE	RECEIVED AT THE ISSU	ING OFFICE PRICK IU	THE HOUR TO
or letter, provided such telegram or letter makes r	eference to the solicitation and	this amendment, and is received arior to	the opening hour and d	ate specified.	
B&R FIN AF	PROPRIATION	INCREASE			
	X0200.800	\$91,090.00			
THIS BLOCK APPLIES ONLY TO MODIFICATION	S OF CONTRACTS/ORDERS				
(a) This Change Order is issued oursuant to The Changes set forth in block 12 are mo		mant / conter	•		
(b) The above sumbered contract/order is	notified to reflect the administra		fra anneniation data	a etc.) set forth in block	
		anne changes (such as changes in paying a	inte, appropriation our		1.1.1.1
		P.L. 95-604, Section	207 of Uran	ium Bill	
It modifies the above numbered contract	as set forth in block 12.	P.L. 95-604, Section TAILINGS RADIATION CO	207 of Uran	ium Bill	
It modifies the above numbered contract DESCRIPTION OF AMENDMENT/MODIFICATION	as set forth in block 12.	P.L. 95-604, Section TAILINGS RADIATION CO	207 of Uran INTROL ACT	ium Bill	
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PAGE 2 OF 2 NRC-06-80-676 MODIFICATION NO. 1

3) Add the following Section 21;

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"21. Attached is a copy of Uranium Mill I struments, (TABLE 1). Priority must be given in the expenditure of the Equipment funds to the acquisition of any equipment that is identified therein and not already available."

Table 1

Uranium Mill Instruments

1. Radiation Instruments

1 . . .

- A. A portable, battery-powered high voltage supply with ratemeter and scaler functions is recommended and may be used with G-M, gamma scintillation, or proportional counter probes.
- B. Survey Meter with end-window probe.
- C. Alpha scintillation survey meter.
- D. Radon daughter survey meter.
- E. Additional survey meter as B. above, with NaI crystal for gamma scintillation measurements would be useful. (1*x1*)

2. Air Sampling Equipment

- A. Area Air Samplers High volume air samplers should be provided at strategic locations in the mill whereby any fugitive dust is likely to concentrate.
- B. Personal Air Samplers Portable, lapel type. Worker breathing zone samples to be acquired with an air flow approx. 3-7 LPM.
- C. Radon Air Sampling Equipment

Radon/Radon Daughter Detector to have the following capabilities:

1. Simultaneous sampling and detection of Rn-222 and Radon daughters.

.

- 2. Thoron detection.
- 3. Ability to determine Ra-226 and Rn-222 in water and effluents.
- Sensitivity to 0.01 working levels when used with a ZnS (Ag) scintillator.
- 5. Linear response.
- 6. Portability for field measurements.

Calibration Equipment

- A. Gamma calibrator or irradiator
- B. Alpha calibrator
- C. Air Flow calibrator

If the above are not feasible, evidence that instruments have been calibrated by a recognized facility is acceptable.

VII. INSTRUMENTATION

A. The State, as a minimum, should have available both field and laboratory instrumertation sufficient to ensure the licensee's control of materials and to validate the licensee's measurements.

The minimum field type instrumentation which should be available for such measurements is as shown in Table 1. By referring to specificationssheets on the suggested equipment, one can determine the requirements needed for any other survey equipment which will provide equivalent data and measurements to those listed in Table 1.

Additionally, arrangements should be made for calibrating such equipment. Back-up instrumentation should also be considered so that the necessary equipment is available for emergency situations.

B. Laboratory type instrumentation should be available in a State agency or through a commercial service which has the capability for quantitative and qualitative analysis of radionuciides associated with natural uranium and its decay chain, primarily; U-238, Ra-226, Th-230, Pb-210, Po-210, and Rn-222, in a variety or sample media such as will be encountered from an environmental sampling program. Analysis and data reduction from laboratory analytical facilities should be available to the licensing and inspecting authorities in a timely manner. Normally, the data should be available within 30 days of submittal. State acceptability of QA programs should also be established for the analytical laboratories.

Sec. 1

- C. Arrangements should also be completed so that a large number of samples in a variety of sample media resulting from a major accident can be analyzed in a time frame that will allow timely decisions to be made regarding public health and safety.
- D. Medical consultants recognized for their expertise in emergency medical matters relating to the intake of uranium and its diagnosis thereof associated with a uranium concentrator should be identified and available to the State for advice and direct assistance.