ANDARD FORM 30, JULY 1966 NERAL SERVICES ADMINISTRATION AN D. PROC. REG. (41 CFR) 1-16.101	AENDMENT OF SC	DLICITATION	MODIFICATION		ACT	1
ONE (1)	2. EFFECTIVE DATE	3. REQUISITION / P	OSP-80-307	4. PROJECT NO). (If applied	able)
	ODE	6. ADMINISTERED	SY (If other than block 5)	,	CODE	
U.S. NUCLEAR REGULATORY DIVISION OF CONTRACTS WASHINGTON, D.C. 20555						
CONTRACTOR CODE	FACI	LITY CODE	8	IDMENT OF		
_		-		TATION NO.		
STATE OF TEXAS RADIATION CONTR	OL BRANCH		DATE	0	(See block	9)
TEXAS DEPARTMEN	and the second se		- MOOT	FICATION OF	NRC-06-	80-307
d ZIP 1100 W. 49th ST			LX CONT	RACT/ORDER NO _	11110-00-	00-00/
AUSTIN, TX 787	00	1	DATE	February 6	· 1.98R.	11)
THIS BLOCK APPLIES ONLY TO AMENDMENTS O	SE SOLICITATIONS					
The above numbered solicitation is amended a		our and date specified	tor receipt of Offers is a	stended, is not e	stended.	
ACCOUNTING AND APPROPRIATION DATA (1 B&R NO. 80-19-08-03 B16	IN APPROP	RIATION	INCREASE \$36,334.00			
THIS BLOCK APPLIES ONLY TO MODIFICATION	IS OF CONTRACTS/ ORDERS					
 (a) This Change Order is issued pursuant to The Changes set forth in block 12 are m (b) The above numbered contract/order is (c) This Supplemental Agreement is entered It modifies the above numbered contract 	ade to the above numbered contro modified to reflect the administra d into pursuant to authority of	nive changes (such as P.L. 95-60	4. Section 207 ADIATION CONTR	of URANIUM		ock 12.
The Changes set forth in block 12 are m (b) The above numbered contract/order is (c) This Supplemental Agreement is entered It modifies the above numbered contract DESCRIPTION OF AMENDMENT/MODIFICATION The purpose of this mod 11/8/81 and increase th \$80,000.00. 1. Under Sec	ode to the above numbered contra modified to reflect the administra d into pursuant to authority of _ as set forth in block 12. d ification is to	P.L. 95-60 TAILINGS R extend the 6,334.00 f	4. Section 207 ADIATION CONTRO period of per rom \$43,666.00	of URANIUM DL ACT formance fr to a new t	om 12/3	31/80 to
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4. Add the following Section 21;

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"21. Attached is a copy of Uranium Mill Instruments, (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

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- 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.

3. 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 instrumentation 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 radionuclide. 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 of 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.

- 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.