ENERAL SERVICES ADMINISTRATION AMENDME	INT OF SOLICIT	ATION/MODIFICATIO	N OF CONTRA	ACT 1	2
AMENDMENT/MODIFICATION NO.	S 0 1980 RF	PA NO. OSP-80-311	4. PROJECT NO	(If applicable)	
ISSUED BY CODE	6. ADM	INISTERED BY (If other than block	5)	CODE	
U.S. NUCLE & REGULATORY COM DIVISION G. CONTRACTS WASHINGTON, D.C. 20555	MISSION				
CONTRACTOR CODE	FACILITY CO	0DE 8.	ENDMENT OF		
	. Use 14h	so	LICITATION NO		
(Street. city, Summery, state, Wall of East 11th Avenue Colorado Department of Health Radiation and Hazardous Waste Control 4210 East 11th Avenue		04	DATED (See block 9)		
		N CO	MODIFICATION OF NRC-06-80-311		
ode) Denver, Colorado 8022	U		12000000 17	1090	
L			TED January 17	1 Stellock 11)	
THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATI	ONS				
The above numbered solicitation is amended as set forth in 1 Offerors must acknowledge receipt of this amendment prior to 1	block 12. The hour and do the hour and date specified in	ate specified for receipt of Offers	ne of the following methods	endeu.	
(a) By signing and returning copies of this amendment; (b) By acknowledging receipt	of this amendment on each copy of	the offer submitted; or (c IVED AT THE ISSUING OF) By separate lett FICE PRIOR TO T	er or telegram HE HOUR AND
which includes a servence to the solicitation and amendment DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFE	R. If, by virtue of this ameni be solicitation and this ameni	ndment you desire to change an offer dment, and is received prior to the op	already submitted, such cl pening hour and date spec	hange may be ma ified.	de by telegram
D. ACCOUNTING AND APPROPRIATION DATA (1/ required)		THOREACE			
$B_{R}^{B} = 03$ $B_{1652}^{FIN} = F_{1652}^{F}$	31X0200.800	\$38,975.00			
THIS BLOCK APPLIES ONLY TO HODIFICATIONS OF CONTR	RACTS/ORDERS				
(a) This Change Order is issued pursuant to					
The Changes set forth in block 12 are made to the abo	ove numbered contract/order.				
The Changes set forth in block 12 are made to the above (b). The above numbered contract/order is modified to re-	ave numbered contract/order. effect the administrative chang D 1	es (such as changes in paying office, 95_604 Section 2	appropriation data, etc.) t	et forth in block	12.
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PAGE 2 OF 2 NRC-06-80-311 MODIFICATION NO. 1

3) Add the following Section 21;

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"21. Attched 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 11 Instruments

1. Radiation Instruments

- A. A portable, battery ported high voltage supply with ratemeter and scaler functions is recommended and may be used with 6 M, gamma scintillation, or proportional counter probes.
- B. Survey Meter with end-window probe.
- C. Alpha scintillation surrey 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 radionuclides 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.