TANDARD FORM 30, JULY 1960 DENERAL SERVICES ADMINISTRATION	AMENDM	NENT OF SOL	ICITATI	ION/MODIFIC	CATION C	OF CONTR	ACT	1 2
AMENDMENT MODIFICATION NO	2.	EFFECTIVE DATE	3. REQUISIT	No OSP-80	ST NO	A PROJECT NO). (If appli	cable)
UNE (1)	CODE		6. ADMINIST	TERED BY (If other th	an block 3)		CODE	
U.S. KUCLEAR REC DIVISION OF CON WASHINGTON, D.C	GULATORY CON TRACTS . 20555	MMISSION						
CONTRACTOR CODE	E	FACILI	TY CODE		B.	ENT OF		
The AND ADDRESS				-	SOLICITAT	TICN NO		
STATE OF O	REGON				DATED -		(See bloc	4 9)
unry, state. 102 LABOR	AND INDUSTR	Y BUILDING			MODIFICA	TION OF N	PC-06-	80-309
ode) SALEM, ORE	GCN 97310				CONTRAC	TORDER NO.		
L					DATED J	anuary 1,	1980 blax	(k 11)
THIS BLOCK APPLIES ONLY TO AMEN	DMENTS OF SOLICITA	TIONJ			1			
The abave numbered solicitation is	s amended as set forth r	n block 12. The hour	r and date sp	pecified for receipt of Of	fors 🗌 is exten	ded, 🔲 is not e	stended.	
Offerers must acknow edge receipt of	this amendment prior to	o the hour and date sp	ecified in the	solicitation, or as amen	ded, by one of th	e following method	B 2	
(a) By signing and returningCO	pies of this amendment	(b) By acknowledging	receipt of th	us amendment on each	copy of the of	er submitted; or (c) By separa	te letter or talegro
which includes a reference to the soli	icitation and amendmen	nt numbers. FAILURE C	of YOUR AC	KNOWLEDGEMENT TO	an offer alread	y submitted, such a	thange may i	be made by telegr
or letter, provided such telegram or le	itter makes reference to	the solicitation and this	is amendmen	w, and is received prior	to the opening	hour and date spec	cified.	
ACCOUNTING AND APPROPRIATION	N DATA (If required))						
B&R	FIN	APPROPRI	ATION	AMOUNT				
80-19-08-03	B1652	31X0200.	800	\$3,000.00			1.51.51.52	
THIS BLOCK APPLIES ONLY TO MO	DIFICATIONS OF CON	TRACTS/ ORDERS						
(a) This Change Order is issued	d pursuant to							
The Changes set forth in bloc								
	ck 12 are made to the a	bove numbered contract	/order.					
(b) The above numbered control	ck 12 are made to the a set/order is modified to	not the administrative	r/order.	uch as changes in payi	ng office, approp	riation data, etc.)	set forth in t	biock 12.
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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 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 surve, 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 LFM.
- 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. _inear 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. i.

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 encrunt red 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.

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- 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.