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Subsets of	AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	DATE 3. REQUISITION / PURCHASE REQUEST NO. 4. PROJECT NO. (If applicable) RFPA NO. OSP-80-306	
Division of contracts WASHINGTON, D.C. 20555  COUNTROL OF CONTRACTS WASHINGTON, D.C. 20555  STATE OF WASHINGTON STATE OF WASHINGTON STATE OF WASHINGTON MAIL STOP LD11 OLYMPIA, WASHINGTON 98504 DATE D2/28/79	ISSUED BY CO		6. ADMINISTERED BY (If other	than block 5) CODE
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3. 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 available."

## Table 1

### Uranium Mill Instruments

## 1. Radiation Instruments

- A. A portable, battery-powered high voltage supply with ratemeter and scaler functions is recommender and may be used with G-M, gamma scintillation, or proportional counter probes.
- B. Survey Meter with end-window probe.
- C. Aipha 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 dir 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.

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- 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 endipment, 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.