Battelle
Pacific Northwest Laboratories

Project Number_____

Internal Distribution

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To PE Bramson

From KR Price

Subject Monthly Report - March 1984

Summary

Results from routine sampling on and off the Hanford Site showed no appreciable changes from previous results. Levels of ^{85}Kr in ambient air remain elevated above background levels due to PUREX operations.

Penetrating dose measurements were normal at all locations except for slight increases at 100 N as previously noted.

Routine Operations

Results for ^{85}Kr in air samples continue to show enhanced levels due to PUREX operations. Concentrations fluctuate depending on PUREX operations but usually are in the range of several hundred pCi/m^3.

The collection of medium volume air samples (2000 to 3000 m^3 per week) in response to PUREX operations was discontinued after approximately two months. Filters will be retained for future analysis if needed. Consideration was given to provide partial funding for operation of the high volume sampler located on the 329 Building. The idea was abandoned due to lack of DOE-RL SQA Division support.

U.S. Testing provided the needed data on the volume of water extracted from silica gel samples. Tritium data for CY 1983 were converted, and the concentration of ^{3}H in atmospheric moisture ranged from less-than-detectable to 1.5 $pCi/m\ell$.

Electrodeposited platinum planchets for the 1983 annual soil samples were completed by U.S. Testing. The first set of 12 planchets was submitted to the mass spectrometer lab for the determination of plutonium isotopes. A work statement was prepared for the mass spec lab, and results for all 39 samples are expected to be available by the end of June.

Program Management

The FY 1985 Work Element Plan was completed on schedule. This year's submission contains a provision for periodic program reviews by outside independent reviewers as specifically requested by DOE-RL.

Dick Jaquish began working with the surface surveillance group on a part-time basis. The plan is for Dick to transfer into the group at the end of the current fiscal year.

KRP:gd