Activity Report for Radiation Protection and Health Physics Services, Week ending 11/05/93.

RADIATION SAFETY PROGRAM

Radworker I and II Training

Challenge exams for DOE Radworker I and II training have been scheduled for 12:30 - 2:30 pm each day from 8-19 November.

Film Badges

RP&HPS received the hard copies and diskettes from Landauer for the third quarter and miscellaneous badges. The data is currently being input onto the dosimetry database.

Radiological Sample Documentation

A computer database is being established as a backup to the radiological sample logbook.

ENVIRONMENTAL REMEDIATION AND WASTE MANAGEMENT

Hazardous Waste Treatment Facility

The waste verification plan for the Hazardous Waste Treatment Facility (B/133) was reviewed and comments transmitted to the author.

T059 Operations

A survey of the RPT bottom showed there was fixed contamination after the initial decon attempt. A test showed that grinding down to shiny metal appears to remove all of this contamination. The RPT metal base plates were size reduced and packaged as radioactive waste. They were much more contaminated than expected (0.8 mR/hr at 1 meter, all from surface contamination). Two boxes of potentially mixed-hazardous, used prefilters were shipped to RMDF for storage.

Correlation of Uranium Activities

A wide range of uranium isotopic composition data was interpreted to provide a basis for identifying uranium contamination from observed activities. This correlation is also needed to specify the isotopic activities in waste. The data were taken from our files on uranium used in fuel fabrication programs and analytical results sent to us from Teledyne Isotopes.
RIHL Waste Characterization

A data-collection spreadsheet was set up for reviewing the isotopic activity of contamination and waste at the RIHL. This data set will be used to provide a basis for specifying waste contents for the upcoming NTS disposal site audit.

RIHL Operations

Health Physics support was provided for the removal of drainlines from the basement ceiling. The debris collected from the removed drainlines was transferred to RMDF for storage. Two ALARA meetings were held in preparation for removal of the drainlines from the basement ceiling.

ENVIRONMENTAL MONITORING

DOE Environmental Audit

Steve Lasselle of DOE audited RP&HPS in the area of radiological environmental monitoring. Notable practices were NESHAPs dose evaluations, development of gamma spec. libraries, sample labeling and chain of custody. One area of concern was that our workplace ALARA program plan should be extended to include environmental ALARA. RP&HPS implements environmental ALARA in many ways including maintaining environmental doses and effluents to be many orders of magnitude below appropriate regulatory limits; the use of land release limits at 1/10th of the basic DOE dose limit; and maintaining groundwater and surface water less than drinking water standards (in almost all cases to be non-detectable for man-made isotopes). These practices will be documented in a revision to our existing ALARA program plan.

AREA IV Radiological Characterization Survey

Work continued on the detailed working procedures, and on the field sample/survey plan for the Area IV radiological characterization survey.

MISCELLANEOUS

Epidemiology Study

A questionnaire on present and past dosimetry practices was completed and transmitted to Hal Morgenstern at UCLA. Conflicts continue between UCLA and the Advisory Committee over the role of UCLA's radiation epidemiology consultants.
Respiratory Protection

The December 1993 Respiratory Protection training schedules were completed and entered into the Training Records computer system. Technical and Skills Development will notify those employees who are scheduled.

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