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Table 1

Examples of Information Potentially Useful for Dose Reconstruction

NIOSH considers the following types of information as potentially useful in conducting dose reconstructions. The necessity and availability of this information is expected to vary substantially.

Worker monitoring data

(1) external dosimetry data, including external dosimeter readings (film badge, TLD, neutron dosimeters)

(2) pocket ionization chamber data.

Internal dosimetry data

- (1) urinalysis results
- (2) fecal sample results
- (3) In Vivo measurement results
- (4) incident investigation reports
- (5) breath radon and/or thoron results
- (6) nasal smear results
- (7) external contamination measurements

Monitoring program data

(1) analytical methods used for bioassay analyses

- (2) performance characteristics of dosimeters for different radiation types
- (3) historical detection limits for bioassay samples and dosimeter badges
- (4) bioassay sample and dosimeter collection/exchange frequencies

(5) documentation of record keeping practices used to censor data and/or administratively assigned dose

Workplace monitoring data

- (1) surface contamination surveys
- (2) general area air sampling results
- (3) breathing zone air sampling results
- (4) radon and/or thoron monitoring results
- (5) area radiation survey measurements (beta, gamma and neutron)
- (6) fixed location dosimeter results (beta, gamma and neutron)

Table 1 (continued)

Workplace characterization data

(1) Information on the external exposure environment, including: radiation type (gamma, x-ray, neutron, beta, other charged particle); radiation energy spectrum; uniformity of exposure (whole body vs partial body exposure); irradiation geometry; and work-required medical screening x rays.

Information characterizing internal exposure

- (1) radionuclide(s) and associated chemical forms
- (2) results of particle size distribution studies
- (3) respiratory protection practices

Process descriptions for each work location

- (1) general description of the process
- (2) characterization of the source term (i.e., the radionuclide and its quantity)
- (3) extent of encapsulation
- (4) methods of containment
- (5) other information to assess potential for airborne dispersion