VF NUCLEAR

SEOD-MP

ELECTRONIC PERSONAL DOSIMETRY SYSTEM

MAIN ADVANTAGES

- The system does not depend on the model or manufacturer of the electronic personal dosimeter used
- Automatic accumulation of received E, Hp (10), Hp (0.07) and Hp (10) neutron doses at different time intervals: day, month, year, and 5 years
- Registration and record-keeping of drawing of personal benefits in accordance with the limits specified by the legislation
- If the limits are exceeded, the system will automatically deny the worker access to the controlled area
- Possibility of replacing the doses determined by electronic dosimeters by doses from the legal (integral) dosimetry service for the selected time period
- It contains basic printing forms for the export and printing of ordinary analyses for controlling doses received by the workers during their stay in the controlled area
- Export data to files of different data types
- Connection with other information systems via SQL and TCP / IP
- Identification of the worker using an assigned dosimeter or personal identification system (eg chips, magnetic cards, etc.)

PURPOSE

The SEOD-MP system is designed for the everyday operative assessment of drawing personal doses of workers in controlled areas (CA) of smaller workplaces with ionizing radiation sources, such as research facilities or hospitals. For the operative monitoring of workers' doses, SEOD-MP uses directly readable electronic personal dosimeters. In the case the given workplace also uses integral personal dosimeters (e.g., OSL, TLD), SEOD-MP allows the archiving and assessment of the workers' doses measured by means of both types of dosimeters in accordance with the valid legislation.

Workers' doses assessment is carried out in accordance with basic limits at intervals of one and five years, if needed with additional limits and intervals day and month, in order to prevent limit excessed.

The system consists of four basic parts:

- Electronic personal dosimeters
- TED-MP terminals
- A server with a central ORACLE database
- Administrator PCs with SEOD-MP SW

SEOD-MP can communicate with various types of dosimeters from different manufacturers. However, it operates only one type of electronic dosimeter at one workplace.

Terminals, server and administrator stations are interconnected via a standard Ethernet LAN type.

Several terminals can be installed within one workplace to cover all inputs and outputs from the CP, as well as several administration stations.

The software consists of three main modules:

- The Administration
- The Register
- The Visits and Doses

The Administration module serves for administration of the SEOD MP system, especially the TED-MP electronic personal dosimetry terminals.

The Register module is used to keep records of employees in KP (validity of entries into KP, validity of medical examinations), electronic personal dosimeters (including validity of calibration), alarms of electronic dosimeters, limits of personal doses, etc.

The Visits and Doses module is designed to record all completed stays in a controlled area and current status of workers' individual doses, etc.

Only authorized users can access the application to prevent tampering with the stored data.

TED-MP

SPECIFICATION

Number of electronic dosimeters	max. 999
Number of terminals	max. 99
Number of system workstations	1
Number of persons entering the CA/day	unlimited
Database records:	
• Number of persons	max. 10^7
• Number of various departments	max. 10^6

OPTIONAL ACCESSORIES

DKG-21M	ECOTEST personal electronic dosimeter
DMC 2000	MIRION personal electronic dosimeter
DMC 3000	MIRION personal electronic dosimeter
RAD 60	RADOS personal electronic dosimeter
EPD MK2	THERMO personal electronic dosimeter
TED-MP	Electronic Dosimetry Terminal

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