DATABASE SOFTWARE

HIS-20™

Health Physics Information Record Keeping system

HIS-20 is a complete Health Physics Information package that is designed to incorporate the latest requirements as specified by regulating agencies. It is designed to minimize or eliminate the amount of customization necessary to meet site-specific requirements. The database allows the site's HIS-20 manager to choose functional parameters and to set up lookup tables specific to site operations.

FEATURES

- Set the application up to work the way your site operates through setup/lookup tables and site parameters
- User customizable with shortcuts to favorites, dashboards queries and other setup tables
- Robust security implementation
- Tracks individual exposure
- Generates Radiation Work Permits
- Performs Access Control manually or through the Windows Access Control Station software
- Ties Survey to RWPs to calculate intake data
- Flexible interface to external systems (imports demographic data, training data, TLDs or OSLDs, PADS, and more)

DESCRIPTION

HIS-20 is a cost-effective approach to implementing a radiological exposure monitoring and control system. This system eliminates the need and uncertainties of developing an internal software system dependent on a large programming staff. HIS-20 upgrades are provided as part of an extensive ongoing development process. These upgrades are included as part of our comprehensive service program. HIS-20 has the distinct advantage of platform and database independence. It permits the customer to change computers, operating systems, and database software without the need to change the basic radiological exposure monitoring and control system.

The software consists of health physics activities separated into program modules that perform the tasks of data storage, retrieval, reporting as follows:

Personnel, External and Internal Dosimetry, Access Control, Radiation Work Permits (RWP), Survey Data, Inventory Management and Source Control, (and not shown above) Radiological Incident Reporting, Environmental and Effluent monitoring as well as system administration tools.

HEALTH PHYSICS DIVISION | DOSIMETRY

HIS-20 | HEALTH PHYSICS INFORMATION RECORD KEEPING SYSTEM

QUALITY ASSURANCE

- **Follows IEEE 730 guidelines**
- **ISO 9001 compliant**
- **Software documentation includes but is not limited to:**
  - Operators Manual
  - Installation instructions
  - IEEE 730 documentation: Software Requirements Specification (SRS, and Software Design Documentation (SDD)
  - Complete data dictionary describing the structure of the database
  - Software Verification and Validation Plan (SVVP), which describes tests cases for all of the modules in the software
  - Software Verification and Validation Report (SVVR) for the latest software release, which documents the results of the vendor's quality assurance procedures relative to the software
  - System manager and operator training manuals for each person that attends the training course
- **The HIS-20 application is a fully tested and widely used standard product**
- **All Sites utilize the same software, which is then configured to work for that site**
- **Enhancements to the product are voted on and discussed at the annual user**
- **group meeting**

FUNCTIONAL FEATURES

- Maintenance of personnel data for workers who have the potential of occupational radiation exposure
- Maintenance of training and qualification records for workers
- Assignment and management of external dosimetry devices
- Management of internal exposure data
- Creation and management of Radiation Work Permits
- Control of access to Radiation Controlled Areas
- Management of data related to radiation surveys
- Management of data associated with sealed sources, including issuance records
- Management of data regarding radiological incident reports
- Management of data associated with instruments and respirators, including issuance and maintenance records
- Over 300 reports delivered; each with separate selection and sort criteria to filter data in a variety of ways

CHARACTERISTICS

- **Environment**
  - Traditional Client-Server
  - File Server
  - Web Browser interface available
  - Oracle 12c
  - Microsoft SQL Server 2014 (2016)
  - Windows 10, Windows 2012 R2 (Windows 7 / Windows 2008 R2)
  - 32 or 64 bit support

MIRION TECHNOLOGIES