



The National Nuclear Registry

The NRRC has successfully developed a national registry for radioactive sources and radiation generators as part of its efforts to advance an interactive electronic system for managing the nation's records within the Kingdom. This National Records System, overseen by the NRRC with the participation of both license applicants and those licensed by the authority. It is designed to consistently log and refresh data pertaining to radioactive sources and to maintain records of professionals involved in radiological and nuclear fields. This system is poised to establish a comprehensive national database, tracking the import and export of radioactive materials, along with a record-keeping system for occupational dosimetry of workers engaged in radiological functions. Additionally, it will streamline regulatory operations and provide essential reports for both facilities and personnel.

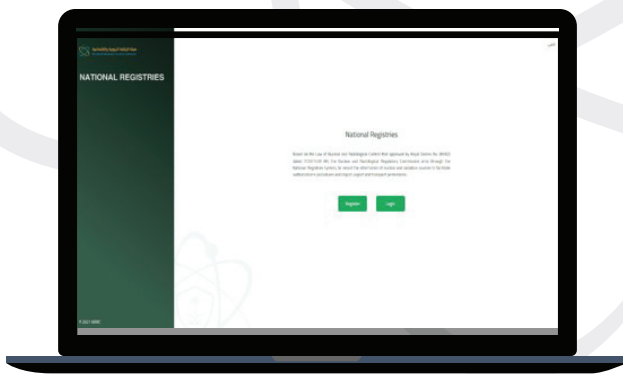
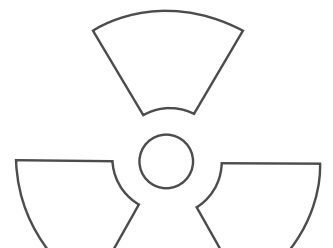


Figure 1:
National Registry
System



The system has the following main features:

- Registration of facilities information from the authority to practice radioactivity.
- Recording the operational accidents that may occur when practicing radioactivity.
- Registering any radioactive source or equipment within any radioactive activity or practice that requires a license issued by the authority and following up and monitoring the status of radioactive sources.
- Recording the data of workers and the accumulated occupational radiation doses for individual workers who perform tasks inside facilities that use radiation.
- Recording the radioactive waste that may be formed when any radioactive activity is carried out.
- Issuing warnings / warnings when receiving and reviewing standard data for violations of the operational limits imposed by the authority for facilities or exceeding the limits of radiation doses for workers and sending alerts to the authority and facilities when there are violations of work rules.
- Flexibility that enables the commission and system users to update information and data continuously and directly, to enter and modify radioactive sources inventory data, and to request the transfer of ownership of any radioactive source or component.
- Presenting reports on the activities and selected practices with its radioactive sources, such as stored and exported sources, radioactive practices and their sources, doses of workers in the selected facilities, etc.
- To achieve the main objective of the initiative, a temporary electronic system for national records has been developed, allowing licensed facilities and facilities to record facilities data as well as radioactive sources data and update them on an ongoing basis. The site was launched on a trial basis on 100 entities licensed by the commission, and nearly 60 data attachments were registered in the national system. Now the temporary system has over 300 entities licensed by the commission.

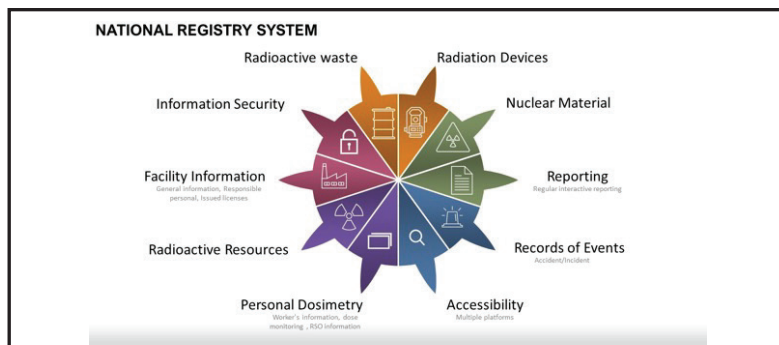


Figure 2:
NATIONAL REGISTRY
SYSTEM INFORMATION

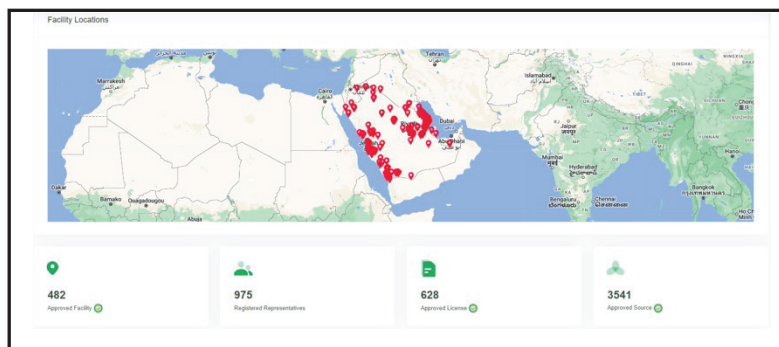


Figure 3:
SYSTEM DASHBOARD