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Development of a Human Reliability Program for a Low Power Research Reactor Facility as Measure to Mitigate Against Insider Threat

Human reliability from security point of view is challenging because internal and external influences can negatively impact the reliability and trustworthiness of employees in an organization. As a result, employees with access, knowledge and authority who develop malevolent intent against a facility pose a serious risk. Although, the Nigeria Research Reactor-1 facility is a low power research reactor, like any other nuclear facility is not immune from such threats. Only recently, Nigeria has witnessed a wave of security threats coupled with the desire by terrorist to acquire nuclear and radioactive material, the reactor facility, needs personnel who can be trusted with this critical technology, hazardous nuclear and radioactive materials. While robust physical measures have been put in place at the reactor facility to mitigate external threats, internal threats are difficult to mitigate because of the difficulty in identification and detection of perpetrators. Therefore, it is critical that security programs such as the Human reliability program are developed for personnel who work in positions of trust. Human reliability Program is a security and safety program designed to ensure that individuals who occupy positions with access to certain nuclear material, facilities and programs meet the highest standard of reliability, trustworthiness, and physical and as well as mental suitability. In this paper, we describe the development of Human Reliability Program for a low power research reactor facility in Nigeria to mitigate against insider threat.

Keywords: Security, Safety, Insider, Threat, Reliability, Trustworthiness.

State

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Gender

Male

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