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Requirement Management between Regulatory Framework and Dismantling Activities for Decommissioning of a Nuclear Facility

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The decommissioning and environmental remediation (D&ER) projects require stepwise long-term Research and Development (R&D) such as a shutdown, transition, decontamination and decommissioning (D&D) activities, radioactive waste management, and site restoration. During each step of the D&ER projects, a significant amount of information and knowledge such as experimental data, databases, design drawings, technical reports, guidelines, operation manuals, and modeling and simulation reports are produced. Knowledge based on experiences by staff members participating in each step of the D&ER project are also very important. Such knowledge based on experiences may disappear with the retirement of staff members if there are no effective and systematic approaches for its acquisition and storage. Therefore, to perform the D&ER project successfully, it is necessary to preserve written theses and experiences systematically. The integrated knowledge management system (KMS) for the D&ER projects have never been developed. Therefore, the establishment of an integrated KMS is necessary for the effective performance of D&ER projects. This study introduces a decommissioning procedure requirement management system as a part of the KMS related to the D&ER projects.

Country or International Organization

Republic of South KOREA

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