

# Third International Conference on Nuclear Knowledge Management - Challenges and Approaches



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## Design Knowledge Management across Nuclear Facility Life-cycle

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Design knowledge (DK) of any nuclear technology system starts to develop as soon as a design organization and/or research organizations begin the conceptual design of a new plant, and continues throughout the design process. From the very beginning of the project life cycle, it is essential to highlight the importance of various stakeholder organizations (probably these need to be listed) and their different perspectives, needs and involvement in managing design knowledge. It is also important to recognize their respective roles and responsibilities in the various and necessary processes of design knowledge generation, capture, transfer, retention, and utilization. During the phases of design, licensing, manufacturing, construction, commissioning and throughout operations, refurbishment and decommissioning, design knowledge must be maintained and managed such that it is accessible and available and can be utilized to support organizational needs as and when required.. Design knowledge encompasses a wide scope and a tremendous amount of detail. It is multi-disciplinary, complex, and highly inter-dependent. It includes knowledge of the original design assumptions, constraints, rationale, and requirements

### Country or International Organization

IAEA

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