

Title: Business Process Analysis of Emergency Plan Using Work System Theory

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Abstract: Efficient and effective energy management is a prominent factor in the new global economy. The implementation of a Nuclear Power Program (NPP) in Malaysia is currently under examination for appraisal. Nonetheless, the safety issue has become pivotal in the light of public concern. This research is a feasibility study on the NPP in order to address the perception of risk issues by investigating highlighted safety issues in sustaining community resilience and confidence. In fact, this study aims to develop initial enhancement of the expected safety recommendations in favor of reducing public safety fears. This study can be validated by using suitable conceptual framework and expertise acceptance in order to sustain the assurance of the system; and verified by evaluating the research simulation system development and analysis in order to comply with the proposed framework. The focus of this paper is to initially validate the framework by examining requirements for Malaysia's radiation and nuclear (RN) contingency plan, such as catering for emergencies, incidents or disasters originating from radiological and nuclear resources. The prospective emergency plan should have requirements determined by Work System Theory (WST) modeling. The research case study has been analyzed according to an explanatory structural analysis depicting a proposed network diagram and work system snapshot. The development of these snapshots can enhance the proposed emergency plan simulation modeling in order to achieve certain preparedness regarding a nuclear safety environment in Malaysia; far better than the use of manuals or conventional table top emergency drills.