

## Evaluation of IAEA INPRO Methodology for Proliferation Resistance Assessment of DUPIC Fuel Cycle

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### Abstract

The IAEA initiated the International Project on Innovative Nuclear Reactors and Fuel Cycles (INPRO) in 2000 for fulfilling the energy needs in the 21<sup>st</sup> century along with economics, sustainability and environment, safety of nuclear installations, waste management, and proliferation resistance. With respect of proliferation resistance, the INPRO suggested the five Basic Principles, five User Requirements and their indicators and each User Requirement is composed of several levels of indicators and acceptance criteria. The present study mainly aims to evaluate the INPRO Methodology for the proliferation resistance which is suggested by IAEA and to propose the further development of INPRO methodology on the proliferation resistance view points. Also, Basic Principles and User Requirements were not only reviewed but also found their relationship. And, the scales of acceptance criteria for the indicators of User Requirements are recommended and five-point qualitative scales such as unacceptable (U), weak (W), moderate (M), strong (S) and very strong (V) are proposed.

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### 원자력 안전성 향상을 위한 역할극의 도입 -원자력 관련 갈등 구조 이해 및 해결의 심리학적 접근- Sociodrama Approach for Enhancing Nuclear Safety

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### 요약

중래의 원자력관련 문제해결을 위한 과학기술적, 교육 및 홍보 접근방법과는 다른 사회심리학적 방법론의 일환으로 2004년 12월 4개 원전지역주민들과 KINS 직원들의 참여하에 실험적으로 개최한 원자력안전성 향상을 위한 역할극(Role Playing) 혹은 사회극(Sociodrama)의 결과를 분석 평가하고 그 결과를 제시하였으며 향후 과제 및 추진방향을 도출하였다. 이 사회극 방법론은 원전지역에서 지역주민과 원전사업자의 상호이해증진을 위한 새로운 커뮤니케이션 방안으로 그리고 기타 원자력 분야의 복잡한 갈등해소를 위한 방안으로 사용될 수 있다.