

울진 3,4 호기 주요 초기사건 보완 연구

A Study of Updating Important Initiating Events Frequencies of UCN 3,4

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요약

울진 3,4 호기의 PSA의 초기사건에 대해 최신의 국내외 원전 자료를 반영하고, 미비한 점을 찾아 개선한 결과 중, 증기발생기 세관 파단 사건, 저압경계부 냉각재 상실, 대형 이차측 파단 사고의 초기사건 빈도 계산 개선 방법을 기술하였다.

A Reliability Study on the AC Power Distribution System of HANARO

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Abstract

Electric power is essential for all industrial plant. All who use electric power desire a perfect frequency, voltage stability, and reliability all the time. But this cannot be realized in practice because of the many causes of a power supply disturbance that are beyond the control of the utility. Since the first criticality of the HANARO research reactor, the major reasons for reactor trips were system malfunctions and inexperienced operators in the initial stage of its operation. As HANARO is stabilizing, the power supply outage becomes the major reason for a reactor trip. This paper describes the status of power supply outages. The Electric power system of HANARO is classified into four groups, Class 4, 3, 2, and 1, according to the safety related extent of the load. This paper deals with the reliability of not only HANARO class 4 power but also Class 3 power.