

증기발생기 전열관과 접촉하고 있는 이물질 평가 프로그램 개발

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A Computer Program for Evaluating the Foreign Materials Contacting SG Tubes

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Abstracts ; It is introduced in this paper to development a computer program for evaluating the integrity of tubes due to foreign materials contacted at the free-span on the secondary side of steam generator. The program is restricted to Westinghouse and Frammatome type steam generators operated in Korea. Nuclear power plants with the steam generators are Kori unit 1, 2, 3, 4, Yonggwang unit 1, 2 and Ulchin unit 1, 2. The program developed to minimize the human error introducing the database prepared in advance. The calculation time using the program would be dramatically reduced compared to the hand calculation. This program could make engineers working in the power plants to conduct evaluating the effects of the foreign materials on the secondary side of steam generator. As a result of the on-site evaluation, the engineer could actively deal with the issues requested by the regulation body, and the planned overhaul of the power plant would be finished on time.

Key Words : secondary side of steam generator(증기발생기 2차측), foreign objects(이물질), tube