

Safety Analysis of Nuclear Power Plant against Tsunamis

Yong-Sik Cho (1), Hye-Rin Cho (2), and So-Beom Jin (3)

(1) Hanyang University, Dept of Civil and Environmental Engineering, Seoul, Korea, Republic of (ysc59@hanyang.ac.kr), (2) Korea Institute of Civil Engineering and Building Technology, Gyeonggi-do 10223, Korea, Republic of (hrcho@kict.re.kr), (3) Korea Institute of Nuclear Safety, Daejeon 34142, Korea, Republic of (jinsb@kins.re.kr)

The East Sea is one of the most vulnerable places to tsunami attacks. A number of tsunamis have been occurred during this century in this region. Tsunamis mostly triggered by undersea earthquakes are probably one of most devastating coastal hazards. Since tsunamis can travel a long distance, they may attack not only neighboring but also distant countries. Several nuclear power plants are under operation and constructing now along the eastern coast of the Korean Peninsula. The eastern coast of Korea is very vulnerable to unexpected tsunami attacks generated near the western coast of Japan. In this study, a safety analysis has been done at Hanul Nuclear Power Plants against historical and virtual tsunamis. The maximum run-up heights are predicted to examine the possibility of inundation, while the minimum run-down heights are also measured to check whether the supply of cooling water is possible. The Hanul site is safe against those historical and virtual tsunamis.

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