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Status of Filtered Containment Venting in Republic of Korea

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Ensuring the integrity of containment is very crucial concept of defense in depth for the public and environment. When the containment over-pressurization may occur owing to the large amount of steam and gases during a severe accident, integrity of containment may be threatened like the Fukushima Daiichi accident. Following the Fukushima Daiichi accident, Korean government inspected all operating Nuclear Power Plants (NPPs) in Korea. As a result, they suggested action items as the Fukushima follow-up measures. Installation of filtered vent systems or depressurizing facilities in containment is one of the Fukushima follow-up countermeasures against severe accidents. There are 24 operating reactors (20 PWRs, 4 PHWRs) in Korea. Among them, one PHWR has finished installing FCVS (Filtered Containment Venting System) in 2013. FCVS will be also implemented at three PHWRs in 2015. The remaining 20 PWRs are under review to take action for Fukushima follow-up measure.

Country or International Organization

Republic of Korea

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