

3447. ALARA PROGRAM IN THE NEW GENERATION OF ADVANCED BWRs

The Tokyo Electric Power Company (TEPCO) began the commercial operation of Kashiwazaki Kariwa Unit No. 6, the world's first Advanced BWR (ABWR), in November 1996. The ABWR represents the new generation of BWRs characterized by enhanced safety and reliability, reduced occupational radiation exposure, reduced radioactive waste, enhanced operability, and improved economy. With long-standing cooperation with other Japanese BWR utilities and manufacturers (General Electric, Toshiba, and Hitachi), TEPCO has taken the initiative in developing the ABWR, which is the product of TEPCO's many years of operational experience with BWRs, combined with the most up-to-date technology.

Since the reduction of the occupational exposure has been one of the most important goals, in addition to the countermeasures already applied, many superior features have been incorporated into the ABWR for this purpose. This paper outlines the general outstanding characteristics of the ABWR, particularly focusing on radiation exposure management for the ABWR.

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