

Summary of Activities Related to Analysis for Power Reactors

Projects	Summary of Activities
<p>1. Analytical evaluation for confirmation of the safety (Audit analysis etc.)</p>	<p>(1) Audit analysis of earthquake ground motion was conducted for the seismic design of the Shimane nuclear power station unit 3 and its adequacy was confirmed.</p> <p>(2) Audit analysis of design base earthquake force was conducted for the seismic design of the facility concerning the extension of the vitrified waste storage facility in Rokkasho reprocessing plant.</p> <p>(3) Audit analysis was conducted for the shielding design of the facility concerning the extension of the vitrified waste storage facility in Rokkasho reprocessing plant.</p>
<p>2. Analytical evaluation for investigation of causes of accidents and troubles and for planning of safety</p>	<p>(1) Analysis was confirmed for integrity of the installation plan for core shroud support rods of the Fukushima Daini nuclear power station unit 2.</p> <p>(2) A simplified evaluation method etc. for level 2 PSA was improved for confirmation of technical integrity and effectiveness of the accident management of Monju nuclear power plant.</p>
<p>3. Study on nuclear safety regulations taking into considerations of quantitative risk information etc.</p>	<p>(1) Essential components were evaluated in terms of core damage, and the objects and methods of inspection were studied.</p> <p>(2) A framework of guideline was studied for the revision of Examination Guide for Seismic Design. (Reported to the Fundamental WG of the Seismic Guideline Subcommittee under the Atomic Energy Safety Commission)</p> <p>(3) The probabilistic assessment was conducted on the earthquake ground motion due to earthquake, of which the epicenter of a quake was not easily identified. (Reported to the Earthquake and Earthquake Ground Motion WG of the said subcommittee mentioned above)</p>
<p>4. Development and preparation of analytical codes</p>	<p>(1) For the Tsuruga nuclear power station (APWR) unit 3 and unit 4, preliminary audit analyses were conducted, and the applicability of codes etc. was confirmed for the future safety review.</p> <p>(2) Development of the knowledge base for severe accident management of LWR plants.</p>