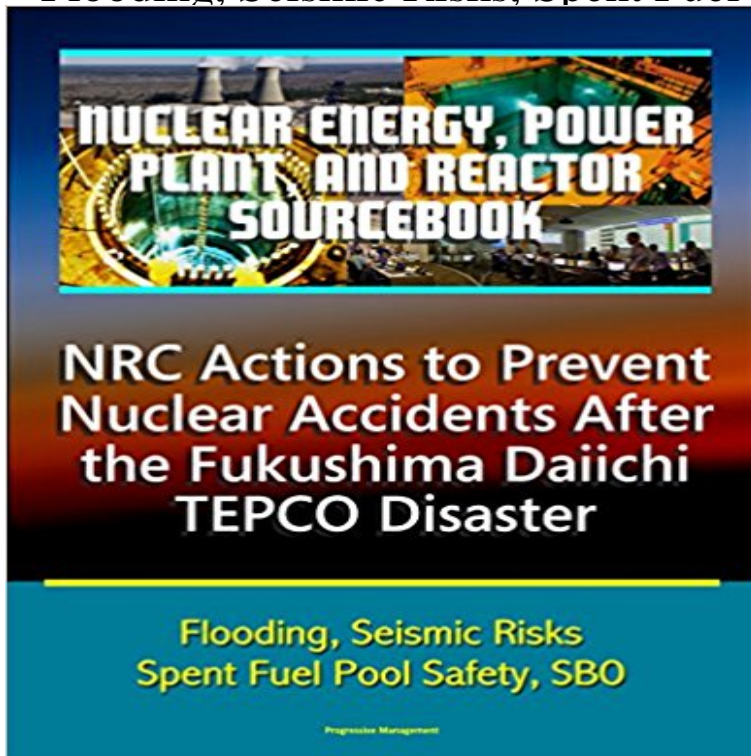


Nuclear Energy, Power Plant, and Reactor Sourcebook: NRC Actions to Prevent Nuclear Accidents After the Fukushima Daiichi TEPCO Disaster - Flooding, Seismic Risks, Spent Fuel Pool Safety, SBO



This is a print replica reproduction of hundreds of NRC documents and presentations providing a complete review of measures to prevent nuclear power plant accidents in the wake of the 2011 Fukushima Daiichi TEPCO disaster, with over 3200 pages of material through early 2015. It addresses all of the issues facing the commercial reactor industry: earthquake and seismic dangers, flooding, station blackout (SBO) with loss of AC and DC power, backup and emergency cooling systems, meltdowns, hydrogen explosions, radiation releases, filtered vents, and spent fuel safety. On March 11, 2011, a 9.0-magnitude earthquake struck Japan and was followed by a 45-foot tsunami, resulting in extensive damage to the nuclear power reactors at the Fukushima Dai-ichi facility. The NRC has taken significant action to enhance the safety of reactors in the United States based on the lessons learned from this accident. At Fukushima, flooding from the tsunami disabled internal electrical power systems after the earthquake had cut off external power sources, leaving the plants with only a few hours worth of battery power. Nuclear power plants need electrical power 24 hours per day, even when the nuclear reactors are shut down, to run equipment that cools the reactor core and spent nuclear fuel. The NRC issued a Mitigation Strategies Order on March 12, 2012, requiring all U.S. nuclear power plants to implement strategies that will allow them to cope without their permanent electrical power sources for an indefinite amount of time. These strategies must keep the reactor core and spent fuel cool, as well as protect the thick concrete containment buildings that surround each reactor. The mitigation strategies are expected to use a combination of currently installed equipment (e.g., steam-powered pumps), additional portable equipment that is stored on-site, and equipment that can be flown in

or trucked in from support centers.
Contents include: Report: Comparison of U.S. and Japanese Regulations in Effect at Time of Fukushima Accident (11/13) * The Near-Term Task Force Review of Insights from the Fukushima Dai-Ichi Accident * Testimony about Nuclear Safety and the Future of the Commercial Reactor Industry before House and Senate Committees * Actions in Response to the Japan Nuclear Accident, Briefings and Material * Status Report on U.S. Nuclear Energy Program 2014 * 2016 Congressional Budget Justification * Citizens Guide to the Nuclear Regulatory Commission

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