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Nuclear Crisis 2011: The Major Accident at the Fukushima Nuclear Power Plant - Reactor Training Manual, Complete Chronicle of Events and Radiation Releases from the TEPCO Japanese Power Station

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This combination ebook provides comprehensive coverage of the crisis at the Fukushima Daiichi Nuclear Power Station along with our reproduction of the BWR nuclear power plant reactor training manual from the Nuclear Regulatory Commission with comprehensive technical data on reactor systems, components, and operations. Eleven chapters and over 1,200 pages cover every aspect of the accident from the moment it began on March 11, 2011 following the Great East Japan Earthquake.

Reactor Manual: Learn the full details of the nuclear power reactor design at the heart of the Fukushima disaster with this training manual. Every important safety system which has played a key role in the crisis is discussed in detail, including the reactor core, containment, emergency core cooling, and others. Procedures and contingencies, such as the loss of coolant accident (LOCA) suffered at Fukushima, are also detailed. This General Electric reactor design is found in a number of American commercial nuclear facilities, including: Browns Ferry (Alabama), Brunswick (North Carolina), Cooper (Nebraska), Duane Arnold (Iowa), Fermi 2 (Michigan), Fitzpatrick (NY), Hatch (Georgia), Hope Creek (NJ), Peach Bottom (Pennsylvania), Vermont Yankee (Vermont). Contents include: Plant Layout, Reactor Physics, Thermal Limits, Chemistry, Probabilistic Risk Assessment, Reactor Vessel Systems, Fuel and Controls Rods System, Control Rod, Recirculation, Main Steam, Condensate, Reactor Core Isolation, Process Instrumentation, Primary Containment, Secondary Containment, Neutron Monitoring, Display, Reactivity Control, Rod Worth Minimizer, Radioactive Waste Processing, Electrical, Emergency Core Cooling, Water and Air, Reactor Operations, and more.

Fukushima Accident: This thorough compilation of official information and documents includes material from International Atomic Energy Agency (IAEA), the Nuclear Regulatory Commission (NRC), U.S. government agencies, and official sources in Japan - providing an authoritative running narrative of the event as it happened hour by hour, plus important and little-known background data. TEPCO's latest roadmap for achieving a cool shutdown of the damaged reactors and dealing with the accident is covered. Expert testimony before the U.S. Senate and material from the NRC discusses the safety of U.S. nuclear facilities in light of the Fukushima accident; there is extensive discussion of the earthquake risk at California power plants, emergency planning for loss of coolant accidents, and preparations for public health impacts. Information from the EPA and FDA deals with the effects of radiation from Fukushima on the environment and food supply of the United States. A unique chapter provides the running account of TEPCO's problems and radiation leaks from the Kashiwazaki-Kariwa Nuclear Power Station in Niigata Prefecture following a strong earthquake in 2007.

Contents: Chapter 1: Roadmap towards Restoration from the Accident at Fukushima Daiichi Nuclear Power Station; Chapter 2: International Atomic Energy Agency (IAEA) Statements on the Fukushima Nuclear Accident Through mid-April; Chapter 3: Japan Government Statements and Notices About the Fukushima

Nuclear Crisis - including News Briefings by Nuclear and Industrial Safety Agency (NISA), Chief Cabinet Secretary Edano, and Prime Minister Kan; Chapter 4: CRS Report for Congress - Fukushima Nuclear Crisis; Chapter 5: Nuclear Regulatory Commission Material; Chapter 6: American Government Agencies; Chapter 7: Energy Department Material; Chapter 8: Testimony before the U.S. Senate; Chapter 9: Tokyo Electric Power Company (TEPCO) Press Releases Regarding the Kashiwazaki-Kariwa Nuclear Power Station after the Niigata-Chuetsu-Oki Earthquake (2007 Incident and Response).

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