

1. Record Nr.	UNINA990001832460403321
Autore	Dehnhardt, Friedrich
Titolo	Catalogus plantarum Horti Camaldulensis / [Fridericus Dehnhardt]
Pubbl/distr/stampa	[Napoli, : s.n., 1829]
Descrizione fisica	28, 10 p. ; 4°
Disciplina	581
Locazione	FAGBC DBV
Collocazione	60 094.3 B 11/11 H V 10 (4)
Lingua di pubblicazione	Latino
Formato	Materiale a stampa
Livello bibliografico	Monografia
2. Record Nr.	UNINA9910828903503321
Titolo	The 2011 Fukushima nuclear power plant accident : how and why it happened / / Yotaro Hatamura [and three others] ; translated by Kenji Iino
Pubbl/distr/stampa	Cambridge, England : , : Elsevier : , : Woodhead Publishing, , 2015 ©2015
ISBN	0-08-100132-0 0-08-100118-5
Edizione	[First edition.]
Descrizione fisica	1 online resource (220 p.)
Collana	Woodhead Publishing Series in Energy ; ; Number 73
Disciplina	363.17990952117
Soggetti	Fukushima Nuclear Disaster, Japan, 2011 Tohoku Earthquake and Tsunami, Japan, 2011 Nuclear accidents - Environmental aspects
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.

Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	<p>Front Cover; The 2011 Fukushima Nuclear Power Plant Accident: How and Why it Happened; Copyright; Contents; List of authors; Woodhead Publishing Series in Energy; Introduction; Chapter 1: The Fukushima-1 nuclear power plant accident; 1.1. Introduction; 1.2. Energy production in Japan; 1.2.1. The energy situation in Japan; 1.2.2. The Fukushima-1 accident: an unprecedented nuclear power accident; 1.3. The Fukushima-1 nuclear power plant; 1.3.1. TEPCO and nuclear power generation; 1.3.2. Overview of Fukushima-1 nuclear reactors; 1.3.3. Operation of the NPP; 1.3.4. Emergency operations</p> <p>1.4. The Tohoku Area Pacific Offshore Earthquake and tsunami1.4.1. The Tohoku Area Pacific Earthquake; 1.4.2. The Tohoku Area tsunami; 1.4.3. Status of the nuclear reactors before the earthquake; 1.4.4. Seismic movement at Fukushima-1 NPP; 1.4.5. The tsunami at Fukushima-1 NPP; 1.5. Nuclear power safety and disaster prevention systems in Japan; 1.5.1. Nuclear safety laws and regulations; 1.5.2. Administration of nuclear safety; 1.5.3. Organizations in charge of nuclear safety and regulation; 1.5.4. Overview of the legal system for nuclear disaster management</p> <p>1.5.5. Structure of the Nuclear Emergency Preparedness Act1.5.6. Nuclear Emergency Preparedness Act guidelines on emergency measures; 1.6. Conclusions; References; Chapter 2: The Fukushima nuclear power plant accident: the main sequence of events; 2.1. Introduction; 2.2. Outline of primary facilities at the Fukushima plant; 2.2.1. Reactor building facilities and components; Drywell (D/W); Suppression chamber (S/C); Safety relief valve (SRV); Vent valve; Diesel-driven fire pump (D/DFP); 2.2.2. Electrical power facilities; Metal-clad (M/C) switch gear; Power center (P/C); Direct current (D/C)</p> <p>2.2.3. Cooling systemsCore cooling systems during normal operation; Core cooling systems during normal shutdown (including after emergency shutdown [SCRAM]); Emergency cooling systems; Isolation condenser (IC); Reactor core isolation cooling system (RCIC); High-pressure coolant injection system (HPCI); Fire protection; 2.3. The sequence of events from earthquake and tsunami to station blackout (SBO); 2.3.1. Events immediately after the earthquake; March 11, 2011, about 14:46: magnitude 6-strong earthquake hits; March 11, about 14:50: Unit 2 RCIC started manually</p> <p>March 11, 2011, 14:52: Unit 1 IC started automaticallyMarch 11, 15:05: Unit 3 RCIC started manually; March 11, about 15:27: first tsunami wave; March 11, about 15:35: second tsunami wave; March 11, about 15:39: Unit 2 RCIC started manually just before the tsunami damage; March 11, 15:37-42: loss of all AC power; 2.3.2. Loss of electrical power; 2.4. Possible damage caused by the earthquake; 2.4.1. Primary facilities in the reactor building; 2.4.2. Other facilities; 2.5. The condition of Unit 1 after SBO; 2.5.1. March 11, up to 23:50 when abnormal CV pressure was recognized</p> <p>March 11, about 15:37: IC isolation valves closed with fail-safe function</p>
Sommario/riassunto	<p>In March 2011 the Fukushima nuclear power plant (NPP) in Japan was hit by an earthquake and subsequent tsunami which resulted in the release of significant amounts of radioactive material. The incident led to the suspension of nuclear programmes by a number of countries. This book provides a definitive account of the accident. Outlines the main sequence of events of the 2011 Fukushima nuclear power plant accident, considers the responses of central and local government, and evaluates the response of the plant owner TEPCO.Describes and assesses the effectiveness of the evacuation process and s</p>

