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#### Effects of Severe Accident Conditions on Integrity of RPV Pedestal of Fukushima Daiichi Nuclear Power Plant

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Received 27 Merch 2022, eccepted 15 June 2022

doi: 10.315 Vjact.20.444

#### Abstract

The Fukushima Daitchi Nuclear Power Plant lost its core cooling function due to the massive tsummi generated by the 2011 off the Pacific coast of Toboku Earthquake, which caused core melafown, assulting in high temperature inside the containment vessel and exposing the RPV pedestal, a reinforced concrete structure, to an unusually high temperature environment. After the earthquake, water was poured into the containment vessel to cool the molten core, and the concrete structure was gradually cooled in the process. Since it will take at least 40 years to remove the fuel from the core, the imagrity of the RPV pedestal is a major concern for the decommissioning of the Fukushima Daitchi Nuclear Power Plant. In order to assess the long-term integrity of the RPV pedestal, a horizontal loading test was conducted using a 1/6 scaled model of the RPV pedestal of Unit 1 considering the effect of the high temperature heating and subsequent wer conditions. And then, the static stress analysis of the RPV pedestal was performed considering the degradation phenomena revealed by the experiments. As a result, it was confirmed that the RPV pedestal of Unit 1 would be structurally and aging was considered.

#### 1. Introduction

The Fukushirm Duticht Nuclear Power Plant (FD-NPP) was hit by a large earthquake ground motion caused by the 2011 off the Pacific coast of Toholca Earthquake. FD-NPP has six power units, and Units 1 through 3 were in normal operation according to TEPCO (2011a). All the control tods of the operated units were auto-

matically inserted following detection of the large seismic ground motion, and the seactor was safely shut down. However, a large turnami generated by the earthquake then hit the plant, causing the loss of power supply and, more importantly, the loss of the core cooling function, leading to core meltdown.

As a result, the inside of the primary containment vessel (PCV) reached high temperature and high pressure, the containment vessel function was impaired, and the pedestal of the reactor pressure vessel (RPV pedestally which is a minforced concrete structure, was exposed to an unusually high temperature environment. As an emergency measure to cool the mobile noose, seawater was initially injected, but this was later switched to freshwater and then to water treated in the stagment water purification system. In these processes, the temperature and the chloride ion concentration were greatly reduced. Since it will take at least 40 years from the time of the earthquake to remove the fuel from the core, however, the effects of high temperature and againg on the integrity of the RPV pedestal are a major concern for the decommissioning of FD-NPP. The RPV, PCV, and the RPV pedestal are illustrated in Fig. 1 according to Thinning et al. (2021).

Currently, it is almost impossible to repair the RPV pedestal because access to the containment vessel is very difficult due to the radiation conditions. It is necessary to evaluate the integrity of the RPV pedestal in its current and long-term states considering the influence of severe accidents, subsequent environmental conditions, and aging, Therefore, the International Research Institute for Nuclear Decommissioning (IRID) has conducted various experimental studies to evaluate

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# Severe Accidents And Other Topics In The Rpv Design Proceedings

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**RPV Integrity and Fracture Mechanics** Dominique Moinereau, 2004 Proceedings of the Topical Meeting on Safety Nuclear Power or a Promise Lost Edward T. Burns, 2020-05-01 This book captures the of Operating Reactors, 1995 status of current electrical energy markets including the principal forces affecting decisions on selecting an energy source It represents a seminal work that lays out the electrical energy decision tree for selecting an energy source in a world that is on the verge of catastrophic global warming because of the choices that have been made in the name of cheap energy The impetus for this book includes the dire need to mitigate continued anthropogenic causes of global warming by turning to carbon free energy sources Nuclear energy represents such a carbon free energy source and could be a partial solution to the existential threat facing future society the threat of a warming planet and its consequential catastrophic effects on future generations The world is at a crossroads in human interaction with their environment The effects of radiation and the relationship of nuclear power to nuclear weapons are both discussed in an understandable and compelling manner Nuclear energy is contrasted with other energy sources including fossil fuels and renewable energy sources regarding the risks and benefits imposed by each Important personalities and world events that shaped nuclear power s development are recounted The historical origins of nuclear power are outlined and the continued impetus to include nuclear power as part of the electric grid energy mix is assessed exposing the obstacles and road blocks to the continued use of nuclear power Specific attention is paid to revealing the causes and lessons learned from the three severe accidents in commercial nuclear plants

TMI 2 Chernobyl and Fukushima An extensive discussion of nuclear waste disposal is provided as part of the decision tree for energy selection The context for the future of nuclear power as a viable energy source is illuminated by the current battle between economic growth and the harm created by burning fossil fuels. The status of the world's climate and projections for the disruptive effects of global warming on future populations migration economics and world strife are debated against the backdrop of an increasing world population and the drive by developing nations to achieve economic parity with the industrialized nations Within the context of increased world strife the guest by nations to obtain nuclear weapons is also discussed The steps taken by the world to limit nuclear weapons proliferation are examined with emphasis on potential links between nuclear power generation and access to nuclear weapons The final chapter discusses the moral responsibility of current generations with respect to future generations specifically the applicability of intergenerational equity in political and social decision making regarding the actions that add to global warming and those risk averse actions that can be taken to minimize global warming Nuclear Thermal Hydraulic and Two-Phase Flow Jun Wang, Kaiyi Shi, Zhaoming Meng, Shripad T. Revankar, 2018-10-11 Nuclear energy is one of the most important clear energy and contributes more than 10% electric power to human society in the past decades of years The nuclear thermal hydraulic and two phase flow is one of the basic branches of nuclear technology and provides structure design and safety analysis to the nuclear power reactors In the new century the basic theoretical research of thermal hydraulic and two phase flow and innovative design for the next generation nuclear power plants especially for the small modular reactor and molten salt reactor along with other nuclear branches constantly support the development of nuclear technology Proceedings of the International Topical Meeting on Advanced Reactors Safety ,1997 JSME International Journal, 2004 Energy Research Abstracts ,1994 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information Arranged under 39 categories e g Biomedical sciences basic studies Biomedical sciences applied studies Health and safety and Fusion energy Entry gives bibliographical information and abstract Corporate author subject report number indexes Proceedings, 1995 **Proceedings of The 20th Pacific Basin Nuclear Conference** Hong Jiang, 2017-01-10 This is the first in a series of three proceedings of the 20th Pacific Basin Nuclear Conference PBNC This volume covers the topics of Safety and Security Public Acceptance and Nuclear Education as well as Economics and Reducing Cost As one in the most important and influential conference series of nuclear science and technology the 20th PBNC was held in Beijing and the theme of this meeting was Nuclear Powering the Development of the Pacific Basin and the World It brought together outstanding nuclear scientist and technical experts senior industry executives senior government officials and international energy organization leaders from all across the world The book is not only a good summary of the new developments in the field but also a useful guideline for the researchers engineers and graduate students

Proceedings of the Topical Meeting on Advances in Human Factors Research on Man/Computer Interactions, 1990 This meeting was intended as an opportunity to catch a snapshot of the state of research into the problems and questions of human interaction with computers Transactions of the American Nuclear Society American Nuclear Society, 1993 **Proceedings** John R. Coombe,1983 Proceedings of the ... International Conference on Nuclear Engineering ,2006 Proceedings of the ... ASME/[SME Nuclear Engineering Joint Conference, 1993] **Title List of Documents Made Publicly Available** U.S. Nuclear Regulatory Commission, 1990 Safety and Reliability. Theory and Applications Marko Cepin, Radim Bris, 2017-06-14 Safety and Reliability Theory and Applications contains the contributions presented at the 27th European Safety and Reliability Conference ESREL 2017 Portoro Slovenia June 18 22 2017 The book covers a wide range of topics including Accident and Incident modelling Economic Analysis in Risk Management Foundational Issues in Risk Assessment and Management Human Factors and Human Reliability Maintenance Modeling and Applications Mathematical Methods in Reliability and Safety Prognostics and System Health Management Resilience Engineering Risk Assessment Risk Management Simulation for Safety and Reliability Analysis Structural Reliability System Reliability and Uncertainty Analysis Selected special sessions include contributions on the Marie Sk odowska Curie innovative training network in structural safety risk approaches in insurance and fi nance sectors dynamic reliability and probabilistic safety assessment Bayesian and statistical methods reliability data and testing oganizational factors and safety culture software reliability and safety probabilistic methods applied to power systems socio technical economic systems advanced safety assessment methodologies extended Probabilistic Safety Assessment reliability availability maintainability and safety in railways theory big data risk analysis and management and model based reliability and safety engineering Safety and Reliability Theory and Applications will be of interest to professionals and academics working in a wide range of industrial and governmental sectors including Aeronautics and Aerospace Automotive Engineering Civil Engineering Electrical and Electronic Engineering Energy Production and Distribution Environmental Engineering Information Technology and Telecommunications Critical Infrastructures Insurance and Finance Manufacturing Marine Industry Mechanical Engineering Natural Hazards Nuclear Engineering Offshore Oil and Gas Security and Protection Transportation and Policy Making

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