



U.S. Department of Commerce  
National Technical Information Service

# NTIS Technical Reports Newsletter



## Earth Day

**PB2010109264**  
**Earth Day 2010 Report. Turning Green Jobs to Gold, Safely.**

Department of Labor, Washington, DC.  
2010, 10p

Related Categories/Sub-Categories:

43B (Economic & Community

Development)

70D (Personnel Management, Labor

Relations & Manpower Studies)

91J (Economic Studies)

96 (Business & Economics)

Keywords: Labor force, Job creation, Green jobs.

Keywords: Solid wastes, Waste recycling, Environmental impacts.

**PB2008105341**

**Conserving America's Wetlands 2007: Three Years of Progress Implementing the President's Goal.**

Council on Environmental Quality.

2007, 62p

See also report for 2006, PB2006-111397 and 2005, PB2005-105924.

Related Categories/Sub-Categories:

48B (Natural Resource Management)

Keywords: Wetlands, Resource management, Restoration.

**ADA524207**

**Review of Global Learning & Observations to Benefit the Environment (GLOBE).**

Executive Office of the President,

Washington, DC.

Office of Science and Technology Policy.

2010, 24p

Related Categories/Sub-Categories:

70B (Management Practice)

94K (Laboratory & Test Facility Design & Operation)

Keywords: Students, Scientific research, Interagency coordination.

**PB2006114850**

**Status and Trends of Wetlands in the Conterminous United States 1998 to 2004.**

Fish and Wildlife Service.

2005, 120p

See also rept. for 1986-97, PB2002-103053.

Related Categories/Sub-Categories:

48F (Geology & Geophysics)

57H (Ecology)

98B (Agricultural Economics)

Keywords: Natural resources conservation, Coastal areas, Land uses.

**RSS Feeds are available** in your choice of NTIS Subject Category. For information use the **RSS link on the NTIS Homepage** and look for the Category RSS Feeds button.

## Key to Database Fields Used

The following NTIS database fields are used in this short listing of recently acquired technical reports.

NTIS Order Number  
Title  
Source  
Report Year, Page Count  
Report Number/ISBN13 (if available)  
Related Categories/Sub-categories (where the document is also indexed)  
Keywords

## NTIS Technical Reports Newsletter

**Purpose:** To bring you a sampling of the latest documents added to the NTIS Database and to help you gain a greater understanding of the wealth of scitech information available from the National Technical Information Service.

Director: Bruce Borzino

Associate Director for Product Management &

Acquisition: Don Hagen

Manager, Cataloging/Indexing Division: Sue Feindt

Manager, Product & Program Management: Wayne

Strickland

Contributing Program Manager: Christie Langone

Technical Information Specialist: Anne Harrison

Design Concept: Linda Davis

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**National Technical Information Service**

U.S. Department of Commerce

5301 Shawnee Road

Alexandria, VA 22312

VOLUME 3

NUMBER 10

APRIL 15, 2011

**PB2006101092**

**Quest for Less: Activities and Resources for Teaching K-8. Teacher's Guide to Reducing, Reusing, and Recycling.**

Environmental Protection Agency.

2005, 238p

EPA/530/R-05/005

Related Categories/Sub-Categories:

48B (Natural Resource Management)

68C (Solid Wastes Pollution & Control)

## Nuclear Power Plants: Safety Concerns

DE2010984119

Assessment of Severe Accident Source Terms in Pressurized-Water Reactors with a 40% Mixed-Oxide and 60% Low-Enriched Uranium Core Using MELCOR 1.8.5.

Sandia National Labs., Albuquerque, NM.

Texas A and M Univ., College Station.

2010, 153p

SAND2008-6665

Related Categories/Sub-Categories:

77H (Reactor Engineering & Nuclear Power Plants)

77I (Reactor Fuels & Fuel Processing)

Keywords: Nuclear reactors, Accidents, Containment.

DE2010973483

Severe Accident Approach: Final Report. Evaluation of Design Measures for Severe Accident Prevention and Consequence Mitigation.

Argonne National Lab., IL. Nuclear Engineering

Div. Sandia National Labs., Albuquerque, NM.

Argonne National Lab.,

IL. Idaho National Engineering Lab., Idaho

Falls.

2010, 116p

ANL/GENIV-128

Related Categories/Sub-Categories:

77H (Reactor Engineering & Nuclear Power Plants)

Keywords: Accidents, Nuclear reactors, Liquid metal reactors.

ADA515453

Strategic Forum. Number 253, March 2010.

Strengthening the IAEA: How the Nuclear Watchdog Can Regain Its Bark.

National Defense Univ., Washington, DC.

Institute for

National Strategic Studies.

2010, 7p

Related Categories/Sub-Categories:

74H (Nuclear Warfare)

Keywords: Nuclear proliferation, Terrorism, International Atomic Energy Agency (IAEA).

ADA529713

Nuclear Energy Policy.

Congressional Research Service.

2010, 36p

CRS-RL33658

Related Categories/Sub-Categories:

77H (Reactor Engineering & Nuclear Power Plants)

92 (Behavior & Society)

96 (Business & Economics)

97Q (Selected Studies in Nuclear Technology)

Keywords: Nuclear power plants, Federal budgets, Nuclear Energy.

DE2010989890

NGNP Engineering Status.

Idaho National Laboratory, Idaho Falls, ID.

2010, 27p

INL/EXT-10-19261

Related Categories/Sub-Categories:

77H (Reactor Engineering & Nuclear Power Plants)

77I (Reactor Fuels & Fuel Processing)

Keywords: Reactor engineering, Licensing, Nuclear power plants.

### Major Subject Categories

Category Codes*/Title	New for March Quantity**
41 Manufacturing Technology.....	55
43 Problem Solving Information for State & Local Governments.....	261
44 Health Care.....	207
45 Communication.....	61
46 Physics.....	276
47 Ocean Sciences & Technology.....	227
48 Natural Resources & Earth Sciences.....	347
49 Electrotechnology.....	62
50 Civil Engineering.....	148
51 Aeronautics & Aerodynamics.....	115
54 Astronomy & Astrophysics.....	48
55 Atmospheric Sciences.....	77
57 Medicine & Biology.....	508
62 Computers, Control & Information Theory.....	167
63 Detection & Countermeasures.....	72
68 Environmental Pollution & Control.....	301
70 Administration & Management.....	487
71 Materials Sciences.....	115
72 Mathematical Sciences.....	72
74 Military Sciences.....	517
75 Missile Technology.....	7
76 Navigation, Guidance, & Control.....	19
77 Nuclear Science & Technology.....	104
79 Ordnance.....	50
81 Combustion, Engines, & Propellants.....	48
82 Photography & Recording Devices.....	11
84 Space Technology.....	148
85 Transportation.....	194
88 Library & Information Sciences.....	117
89 Building Industry Technology.....	29
90 Government Inventions for Licensing.....	0
91 Urban & Regional Technology & Development.....	275
92 Behavior & Society.....	534
94 Industrial & Mechanical Engineering.....	91
95 Biomedical Technology & Human Factors.....	46
96 Business & Economics.....	385
97 Energy.....	197
98 Agriculture & Food.....	167
99 Chemistry.....	139

\* For a listing of Scope Notes that defines the specific topical content for each category, go to <http://www.ntis.gov/assets/pdf/scopenotes.pdf>

\*\* Quantities represent each new report assigned on average to 3-5 categories.

## Nuclear Power Plants: Safety Concerns

DE2010991911

Next Generation Nuclear Plant Structures, Systems, and Components Safety Classification White Paper.

Idaho National Laboratory, Idaho Falls, ID. 2010, 36p

INL/EXT-10-19509

Related Categories/Sub-Categories:

77H (Reactor Engineering & Nuclear Power Plants)

Keywords: Nuclear power plants, Reactor safety, Next Generation Nuclear Plant (NGNP).

NUREG0090V32

Report to Congress on Abnormal Occurrences - Fiscal Year 2009, Volume 32.

Nuclear Regulatory Commission, Washington, DC.

Office of Nuclear Regulatory Research.

2010, 40p

Related Categories/Sub-Categories:

68F (Radiation Pollution & Control)

68G (Environmental Health & Safety)

57U (Public Health & Industrial Medicine)

57V (Radiobiology)

77 (Nuclear Science & Technology)

Keywords: Nuclear facilities, Radiation pollution, Occupational safety.

NUREG0713V30

Occupational Radiation Exposure at Commercial Nuclear Power Reactors and Other Facilities 2008: Forty-First Annual Report.

Nuclear Regulatory Commission. Office of Nuclear Regulatory Research. Oak Ridge National Lab., TN.

2010, 176p

Related Categories/Sub-Categories:

44G (Environmental & Occupational Factors)

57U (Public Health & Industrial Medicine)

57V (Radiobiology)

68G (Environmental Health & Safety)

77H (Reactor Engineering & Nuclear Power Plants)

Keywords: Occupational exposure, Radiation doses, Nuclear power plants.

NUREG1650REV3

United States of America Fifth National Report for the Convention on Nuclear Safety.

Nuclear Regulatory Commission.

2010, 256p

See also NUREG-1650-REV-2.

Related Categories/Sub-Categories:

77H (Reactor Engineering & Nuclear Power Plants)

97Q (Selected Studies In Nuclear Technology)

Keywords: Reactor safety, Nuclear power plants, Institute of Nuclear Power Operations (INPO).

NUREG1924

Electric Raceway Fire Barrier Systems in U.S. Nuclear Power Plants. Final Report.

Office of Nuclear Regulatory Research.

2010, 355p

Related Categories/Sub-Categories:

49F (Power & Signal Transmission Devices)

77H (Reactor Engineering & Nuclear Power Plants)

Keywords: Electric cables, Fire protection, Fire barrier systems.

NUREGCR7006

Review Guidelines for Field-Programmable Gate Arrays in Nuclear Power Plant Safety Systems.

Nuclear Regulatory Commission, Washington, DC.

Office of Nuclear Regulatory Research. Oak Ridge National Lab., TN.

2010, 96p

ORNL/TM-2009/20

Related Categories/Sub-Categories:

77H (Reactor Engineering & Nuclear Power Plants)

97Q (Selected Studies in Nuclear Technology)

Keywords: Safety analysis, Reactor licensing, Digital systems.

NUREGCR7015

Analysis of JNES Seismic Tests on Degraded Piping.

Engineering Mechanics Corp. of Columbus, OH. Brookhaven National Lab., Upton, NY.

2010, 96p

BNL-NUREG-91346-2010

Related Categories/Sub-Categories:

77H (Reactor Engineering & Nuclear Power

Plants)

89D (Structural Analyses)

Keywords: Piping systems, Seismic design, Japan Nuclear Energy Safety (JNES).

NUREGCR7007

Diversity Strategies for Nuclear Power Plant Instrumentation and Control Systems.

Nuclear Regulatory Commission, Washington, DC.

Office of Nuclear Regulatory Research. Oak Ridge National Lab., TN.

2010, 251p

ORNL/TM-2009/302

Related Categories/Sub-Categories:

77F (Radiation Shielding, Protection, & Safety)

77H (Reactor Engineering & Nuclear Power Plants)

97Q (Selected Studies In Nuclear Technology)

Keywords: Safety system, Diversity strategies, Common-cause failures.

NUREGIA0222

Analysis of RELAP5/MOD3.3 Prediction of 2-Inch Loss-of-Coolant Accident at Krsko Nuclear Power Plant.

Nuclear Regulatory Commission, Washington, DC. Office of Nuclear Regulatory Research.

Institute Jozef Stefan, Ljubljana

(Slovenia).

2010, 51p

Related Categories/Sub-Categories:

46B (Fluid Mechanics)

77F (Radiation Shielding, Protection, & Safety)

77K (Reactor Physics)

Keywords: Fluid flow, Loss of coolant, Transients.

### The Nation's Source for Scientific Information

The National Technical Information Service (NTIS), is the nation's largest and most comprehensive source of government-funded scientific, technical, engineering and business-related information.

For more than 60 years, we have served as an innovative resource to Federal agencies, businesses and universities looking for high-caliber information. Our mission is straight-forward: to support the nation's economic growth by providing access to information that stimulates innovation and discovery.

While you can find information on virtually any subject on the web, there's no guarantee that the information is accurate — or that it has been published by a legitimate source. NTIS undergoes a rigorous process to ensure that all the information we offer is authentic and credible. This integrity, along with the breadth and depth of our collection, is why NTIS is regarded as the nation's preeminent source of government information.

## Nuclear Power Plants: Safety Concerns

PB2011105094

International Atomic Energy Agency Annual Report, 2009.

International Atomic Energy Agency, Vienna (Austria).

2010, 132p

IAEA-GC-54-4

See also PB2011-105092, report for 2008.

Related Categories/Sub-Categories:

77 (Nuclear Science & Technology)

92 (Behavior & Society)

97Q (Selected Studies In Nuclear Technology)

Keywords: International cooperation, Nuclear power, Radiation safety.

PB2010109409

Nuclear Safety: Convention on Nuclear Safety Is Viewed by Most Member Countries as Strengthening Safety Worldwide.

Government Accountability Office.

2010, 51p

GAO-10-489

Related Categories/Sub-Categories:

68F (Radiation Pollution & Control)

77F (Radiation Shielding, Protection, & Safety)

77I (Reactor Fuels & Fuel Processing)

Keywords: Nuclear power reactors, Nuclear facilities,

Safety engineering.

PB2009108802

Service Life Management System of Concrete Structures in Nuclear Power Plants.

Valtion Teknillinen Tutkimuskeskus, Espoo (Finland).

2009, 82p

VTT-PUB-648

ISBN-978-951-38-70-32-4

Related Categories/Sub-Categories:

77H (Reactor Engineering & Nuclear Power Plants)

97I (Electric Power Production)

97Q (Selected Studies in Nuclear Technology)

Keywords: Inspection systems, Nuclear safety, Service life.

DE91005427

Design and Evaluation Guidelines for Department of Energy Facilities Subjected to Natural Phenomena Hazards.

Lawrence Livermore National Lab., CA.

1990, 152p

UCRL-15910

Related Categories/Sub-Categories:

89D (Structural Analyses)

Keywords: Earthquakes, Nuclear facilities, Federal buildings.

PB2009113924

Short History of Fire Safety Research Sponsored by the U.S. Nuclear Regulatory Commission, 1975-2008.

Nuclear Regulatory Commission, Washington, DC.

Office of Nuclear Regulatory Research. Sandia National Labs., Albuquerque, NM.

2009, 48p

NUREG/BR-0364

Related Categories/Sub-Categories:

77H (Reactor Engineering & Nuclear Power Plants)

91C (Fire Services, Law Enforcement, & Criminal Justice)

97Q (Selected Studies in Nuclear Technology)

Keywords: Nuclear power plants, Fire safety, Fire Protection Research Program (FPRP).



The National Technical Reports Library (NTRL) enhances accessibility to the NTIS technical reports collection. It provides access to:

- Bibliographic records of more than 2,000,000 technical reports
- Downloadable full text of 600,000 of these reports in PDF format

Subscription rates are based on institutional FTE levels.

The NTRL operates on a system interface that allows users to do queries on the large NTIS bibliographic database. The intent is to broadly expand and improve access to over 2.5 million bibliographic records (pre-1960 to present) and 500k full-text documents in PDF Format that are directly linked to that bibliographic database.

**For more information, go to <http://www.ntis.gov/products/ntrl.aspx>.**

DE95004837

Understanding Earthquake Design Criteria used in Japan.

Brookhaven National Lab., Upton, NY.

1994, 13p

BNL-NUREG-61147

CONF-941227-4

Related Categories/Sub-Categories:

48F (Geology & Geophysics)

68F (Radiation Pollution & Control)

77H (Reactor Engineering & Nuclear Power Plants)

89D (Structural Analyses)

Keywords: Earthquakes, Safety standards, Pollution abatement.

NUREGCR6966

Tsunami Hazard Assessment at Nuclear Power Plant Sites in the United States of America.

Pacific Northwest National Lab., Richland, WA.

2009, 117p

PNNL-17397

Related Categories/Sub-Categories:

47E (Marine Geophysics & Geology)

48F (Geology & Geophysics)

77 (Nuclear Science & Technology)

97Q (Selected Studies in Nuclear Technology)

Keywords: Tsunamis, Earthquakes, Hazard assessments.

### Subject Category Codes/Classification

NTIS classifies citations into 39 subject categories. Each of these subject categories is divided into subcategories. This method provides sorting categories for both hard and soft sciences. All subject categories consist of three character codes: two numerics and one alpha character. The numeric codes represent entire categories, the alpha codes are used to designate subcategories within these broad categories. The number of NTIS subcategories posted to an information product average from one to five, although there are some reports with more.



## Nuclear Power Plants: Safety Concerns

PB2009114134

SAFIR2010. The Finnish Research Programme on Nuclear Power Plant Safety 2007-2010. Interim Report.

Valtion Teknillinen Tutkimuskeskus, Espoo (Finland).

2009, 540p

VTT-RN-2466

ISBN-978-951-38-7622-3

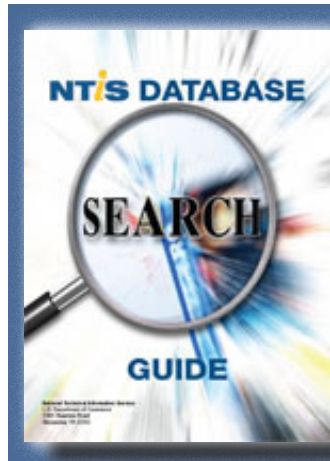
ISBN-978-951-38-7267-0

Related Categories/Sub-Categories:

77H (Reactor Engineering & Nuclear Power Plants)

97Q (Selected Studies In Nuclear Technology)

Keywords: Nuclear safety, Finland, Reactor components.



### Just Revised – the NTIS Database Search Guide

Gain an in-depth understanding of the NTIS database structure with this new guide:

- Comprehensive list of NTIS Categories
- Helpful information and search hints
- Reference Guide to online commercial services and the NTRL
- Great Reference Manual & Teaching Tool

Free Download: <http://www.ntis.gov/Ugyfgy/pdf/dbguid.pdf>

PB2011105092

International Atomic Energy Agency Annual Report, 2008.

International Atomic Energy Agency, Vienna (Austria).

2009, 132p

IAEA-GC-53-7

See also PB2011-105091, report for 2007.

Related Categories/Sub-Categories:

77 (Nuclear Science & Technology)

92 (Behavior & Society)

97Q (Selected Studies in Nuclear Technology)

Keywords: International cooperation, Nuclear power, Radiation safety.

Any of the technical reports listed in this newsletter can be ordered directly from the National Technical Information Service, simply click on the title to go to the product detail page on **NTIS.GOV**.

If your organization is a subscriber to the National Technical Reports Library, most of the reports listed can be downloaded free there. For information on how to subscribe to NTRL, go to <http://www.ntis.gov/assets/products/ntrl.aspx>.

## Title Index – For NTRL Users

The following is a list of the titles included in this month's issue, without links to the NTIS Website.

The list is in alphabetical order by title.

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NUREGIA0222	77	Analysis of RELAP5/MOD3.3 Prediction of 2-Inch Loss-of-Coolant Accident at Krsko Nuclear Power Plant.
DE2010984119	77	Assessment of Severe Accident Source Terms in Pressurized-Water Reactors with a 40% Mixed-Oxide and 60% Low-Enriched Uranium Core Using MELCOR 1.8.5.
PB2008105341	48	Conserving America's Wetlands 2007: Three Years of Progress Implementing the President's Goal.
DE91005427	89	Design and Evaluation Guidelines for Department of Energy Facilities Subjected to Natural Phenomena Hazards.
NUREGCR7007	77	Diversity Strategies for Nuclear Power Plant Instrumentation and Control Systems.
PB2010109264	91	Earth Day 2010 Report. Turning Green Jobs to Gold, Safely.
NUREG1924	49	Electric Raceway Fire Barrier Systems in U.S. Nuclear Power Plants. Final Report.
PB2011105092	97	International Atomic Energy Agency Annual Report, 2008.
PB2011105094	97	International Atomic Energy Agency Annual Report, 2009.

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DE2010989890	77	NGNP Engineering Status.
ADA529713	77	Nuclear Energy Policy.
PB2010109409	68	Nuclear Safety: Convention on Nuclear Safety Is Viewed by Most Member Countries as Strengthening Safety Worldwide.
NUREG0713V30	68	Occupational Radiation Exposure at Commercial Nuclear Power Reactors and Other Facilities 2008: Forty-First Annual Report.
PB2006101092	48	Quest for Less: Activities and Resources for Teaching K-8. A Teacher's Guide to Reducing, Reusing, and Recycling.
NUREG0090V32	68	Report to Congress on Abnormal Occurrences – Fiscal Year 2009, Volume 32.
NUREGCR7006	77	Review Guidelines for Field-Programmable Gate Arrays in Nuclear Power Plant Safety Systems.
ADA524207	48	Review of Global Learning & Observations to Benefit the Environment (GLOBE).
PB2009114134	77	SAFIR2010. The Finnish Research Programme on Nuclear Power Plant Safety 2007-2010. Interim Report.
PB2009108802	77	Service Life Management System of Concrete Structures in Nuclear Power Plants.
DE2010973483	77	Severe Accident Approach: Final Report. Evaluation of Design Measures for Severe Accident Prevention and Consequence Mitigation.
PB2009113924	91	Short History of Fire Safety Research Sponsored by the U.S. Nuclear Regulatory Commission, 1975-2008.
PB2006114850	57	Status and Trends of Wetlands in the Conterminous United States 1998 to 2004.
ADA515453	74	Strategic Forum. Number 253, March 2010. Strengthening the IAEA: How the Nuclear Watchdog Can Regain Its Bark.
NUREGCR6966	47	Tsunami Hazard Assessment at Nuclear Power Plant Sites in the United States of America.
DE95004837	89	Understanding Earthquake Design Criteria used in Japan.
NUREG1650REV3	68	United States of America Fifth National Report for the Convention on Nuclear Safety.