

Nuclear News

Index to Volume 49 (2006)

The following listing provides an index to feature stories, authors, special sections, regular columns, and meeting reports published in the 2006 issues of *Nuclear News*.

Feature Index

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- Nuclear News* Index to Volume 48 (2005), p. 12
(A brief index listing of *NN* features, authors, special sections, regular columns, and meeting reports of 2005)
- NRC and Entergy lay the groundwork, by E. Michael Blake, p. 26
(Potential new reactor licensees meet with the regulator to prepare for the construction/operating license application review process)
- Next-generation nuclear energy: The ESBWR, by David Hinds and Chris Maslak, p. 35
(A look at General Electric's ESBWR, which builds on innovations developed for the company's earlier ABWR and SBWR)
- 2005 ANS Winter Meeting: Nuclear technology—A good story untold, by E. Michael Blake, Dick Kovan, and Rick Michal, p. 50
(A report on the 2005 ANS Winter Meeting, in Washington, D.C.)

February

- SPECIAL SECTION: Robotics and Remote Systems, pp. 25–40
- Kwon Kwok: News on robotics, by Rick Michal, p. 26
(Interview with the chair of the American Nuclear Society's Robotics and Remote Systems Division)
- Remote handling in the Spallation Neutron Source target facility, by Mark J. Rennich and Thomas W. Burgess, p. 32
(The Department of Energy offers its latest step in the development of accelerator-based neutron research facilities)
- Robots used to inspect new SGs at ANO-1, p. 38
(A pictorial featuring Entergy's ANO-1, which completed the installation of new steam generators in December 2005)
- Perspective: The origin of the EPA's 10 000-year time frame for the high-level waste repository, by A. Alan Moghissi, p. 41

(The EPA standard for HLW was founded not on best available science, but on "gray" literature and personal opinions)

- ENC 2005: Revitalized meeting reflects new attitude toward nuclear power, by Dick Kovan, p. 56
(A report on the European Nuclear Congress [ENC 2005] held in Versailles, France, in December 2005)

March

- SPECIAL SECTION: 8th Annual Reference Issue, pp. 37–62
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- Statistics, p. 51
(Annual compendium of nuclear power plants under construction, in operation, or retired from service worldwide)
- Focus on fuel, pp. 25–34
- Will higher uranium prices restore domestic U.S. production? by Robert R. Price, p. 25
(After two decades of stagnation and low prices, recent price increases have begun to stimulate investment in uranium exploration and mining)
- Jeff Combs: Comments on the global nuclear fuel market, by Rick Michal, p. 30
(Interview with Jeff Combs, publisher of the newsletter *Ux Weekly*, which tracks the nuclear fuel market)

- Special Report: FY 2007 DOE and NRC budgets, by E. Michael Blake and Rick Michal, p. 64
(Review and analysis of fiscal year 2007 budget requests of the Department of Energy and the Nuclear Regulatory Commission)

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- Dungeness B makes up for lost time, by Dick Kovan, p. 28
(British Energy extends the plant's lifetime by 10 years and commits to a substantial investment in plant improvements)
- Ed Avella: Turkey Point's award-winning vessel head replacement, by Rick Michal, p. 32
(Interview with Ed Avella, director of projects for Florida Power & Light Company)
- Diablo Canyon-2 prepares for its 13th refueling outage, p. 37
(Information about the plant's outage planning for 2006)
- Scenes from a Diablo Canyon outage, p. 38
(Pictorial on outage work at Pacific Gas & Electric Company's two-unit plant in Avila Beach, Calif.)
- Alternative source term amendments: Limited interest, slow adoption, by E. Michael Blake, p. 20
(Only half of the licensed power reactors in the United States have obtained amendments allowing for plant modifications)
- Chernobyl: Transforming an icon, by Dick Kovan, p. 42
(Twenty years after the accident at Chernobyl, stabilizing the shelter over the ruined reactor and protecting human health are top priorities)

May

- U.S. capacity factors: Leveled off at last, by E. Michael Blake, p. 26
(Three-year capacity factors for the U.S. industry were about the same in the 2000–2002 and 2003–2004 time periods)
- Corradini: On the Center for Advanced Nuclear Fuel Cycles, by Rick Michal, p. 49
(Interview with Michael Corradini, CANF codirector and a professor of engineering physics at the University of Wisconsin)

June

- SPECIAL SECTION: Health Physics, pp. 25–43
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(Interview with Paul DeLuca, vice dean of the University of Wisconsin's School of Medicine and Public Health)

Source term removal results at V. C. Summer, by John Hunsicker, p. 30

(Chemistry control and outage time reduction have led to significant decreases in personal dose during recent refuelings)

Stakeholders and radiological protection: Lessons from Chernobyl, by Dick Kovan, p. 38

(Long-term response to the 1986 accident showed the need to involve affected populations in decisions for rehabilitation)

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Beaver Valley—Better than schedule and budget: Unit 1's steam generator and vessel head replacement, p. 24

(Pictorial on FirstEnergy Operating Company's refueling and modifications outage in early 2006 at Beaver Valley-1)

Harold McFarlane: Nuclear renaissance man, by Rick Michal, p. 40

(A profile of the American Nuclear Society's new president)

Trojan cooling tower demolished, p. 50

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Safe disposal on a global basis, by Rick Michal, p. 52

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Perspective: The nuclear renaissance: Facing the challenges, maintaining safety, by William Cavanaugh III, p. 10

(Consideration of the challenges that lie along the way to a renaissance may temper the industry's current optimism)

How sand and science can solve a ubiquitous international security threat, by John R. Cochran and Laura L. Price, p. 32

(Intermediate-depth disposal of sealed radioactive sources offers the same degree of security as deep-geologic disposal)

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Resources for nuclear and radiation disaster response, by Mark L. Maiello and K. L. "Ken" Groves, p. 29

(A review of the government and military assets available to respond to a nuclear or radiological disaster)

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NUMEX 2006: Maintenance relies on innovation and teamwork, by Dick Kovan, p. 35
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Meeting defueling targets at Bradwell, by Dick Kovan, p. 36

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Getting to those hard-to-see places at Beznau, by Dick Kovan, p. 40

(Switzerland's Beznau plant uses an assortment of inspection devices to monitor its reactor vessels)

Implementation of a new planning process at Ringhals, by Dick Kovan, p. 42

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Ensuring long service life of the RCPs at Dukovany, by Dick Kovan, p. 44

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PLM and steam generator replacement at SONGS, by Steve Stephens, p. 47

(Simulating complex nuclear plant projects in virtual 3-D reduces uncertainty and cost)

Perspective: Turnover notes (Advice for new engineers), by James B. McInvale, p. 11

(A seasoned engineer offers advice to new engineers on how to navigate the challenges of the workplace)

Utility Working Conference: The challenge of sustaining excellence, by E. Michael Blake, p. 65

(The nuclear power industry needs to maintain the high level of performance that reactors have achieved in recent years)

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Where new reactors can (and can't) be built, by E. Michael Blake, p. 23

(A survey of state laws that could block siting and influence where new nuclear power plants could be built)

Big Rock Point: From groundbreaking to greenfield, by Betsy Tompkins, p. 36

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Challenges for instrumentation, controls, and human-machine interface technologies, by David E. Holcomb and Richard T. Wood, p. 31

(An I&C technology road map is expected to guide the nuclear industry's transition from analog to digital at nuclear plants)

Wes Hines: On-line monitoring at nuclear power plants, by Rick Michal, p. 38

(Interview with a researcher who is investigating on-line calibration monitoring as a new technique that can help identify plant sensors in need of maintenance)

Dukovany's I&C refurbishment: Raising the level of safety, by Dick Kovan, p. 42

(Maintainability issues prompted the Czech plant to convert to a digital I&C system)

Perspective: The U.S.–India Civil Nuclear Cooperation Initiative, by Piyush Sabharwall and Jason Hollern, p. 10

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