

# Nuclear News

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## Coming up ...

**October**—Special Section on Nuclear Power Plant Maintenance

**December**—Special Section on Advanced Reactors

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## FEATURE ARTICLE

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Post-Fukushima safety enhancements to nuclear power plants

BY JAMES F. GLEASON, JOE HALE, CLAUDE THIBAUT,  
AND EDWARD L. QUINN

## POWER

20

A National Academy of Sciences panel says NRC, industry should go further in response to the Fukushima Daiichi accident. Phase 2 of safety review for the Fermi-3 license application is finished ahead of schedule. Entergy opposes Indian Point summer shutdown proposal. Focus on Finance. ANO moved to column three of NRC's Reactor Oversight Process action matrix. Unanalyzed conditions discovered at River Bend, Diablo Canyon. Tritium, cobalt-60 found in groundwater at Callaway; tritium spill at Dresden poses no hazard. New contention denied in license renewal proceeding for Davis-Besse. Maximizing the Assets: A status report on license renewal and power uprates. One ITAAC closed, one confirmed by NRC for Summer-2. Final environmental impact statement for North Anna-3 license application needs no supplements; other licensing updates. (See also Call for Papers, pp. 61–63, for the 2015 ANS Annual Meeting, June 7–11, in San Antonio, Texas.)

## SECURITY

29

Government Accountability Office finds that NNSA reforms may have increased security risks at some sites; other NNSA news. India's Additional Protocol enters into force.

## INTERNATIONAL

36

Agreement reached to build an AP1000 reactor at Kozloduy nuclear plant site in Bulgaria. Taiwan's Lungmen-1 reactor to be "sealed" pending referendum. Two new CANDU reactors planned for Cernavoda site in Romania. SNC-Lavalin and China National Nuclear Corporation sign MOU on nuclear-related projects. China to take part in Argentina's Atucha-3 PHWR project. Tepco issues update on Fukushima investigation. South Africa's energy minister aims to push nuclear plan forward.

**On the cover:** Units 1 and 2 at the Fukushima Daiichi site in Japan tower above a worker. Post-Fukushima studies have determined that changes to safety standards should be made so that nuclear power plants are better able to withstand severe accidents caused by natural hazards. See "Post-Fukushima safety enhancements to nuclear power plants," which begins on page 32. (Photo: Greg Webb/IAEA/April 17, 2013)



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**WASTE MANAGEMENT 41**

WIPP cited for workplace violations; leak update. Waste processing facility at Savannah River Site to get new ventilation system. NRC's waste management and materials safety offices to merge. NRC to allow decommissioning funds to be used to manage spent fuel at Zion.

**MEETINGS 43**

Topical Meeting: Nuclear Fuels and Structural Materials, June 17-19, 2014, Reno, Nev.

**INDUSTRY 45**

GE Hitachi, Iberdrola to cooperate on advancement of PRISM reactor technology; other business developments. Lloyd's and Lightbridge win UAE contract; other news. Six new 10 CFR Part 21 reports posted, three older ones updated.

**RESEARCH 51**

R&D Magazine's R&D 100 includes four nuclear-related developments.

**FUEL 52**

Kintyre project in Western Australia receives environmental approval. NRC lifts order on seismic upgrades at Honeywell Metropolitan Works; union workers locked out. Prototype SiC fuel assembly cover manufactured.

**ISOTOPES & RADIATION 54**

NRC seeks input on aligning radiation protection regulations with recommendations of the International Commission on Radiological Protection. NRC proposes amendments to address issues in the area of nuclear medicine. NRC reduces fine against Geisser Engineering.

**STANDARDS & DOCUMENTATION 56**

Standards approved, comments requested. NRC issues draft generic letter on natural hazards in fuel cycle facilities, other documents.

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