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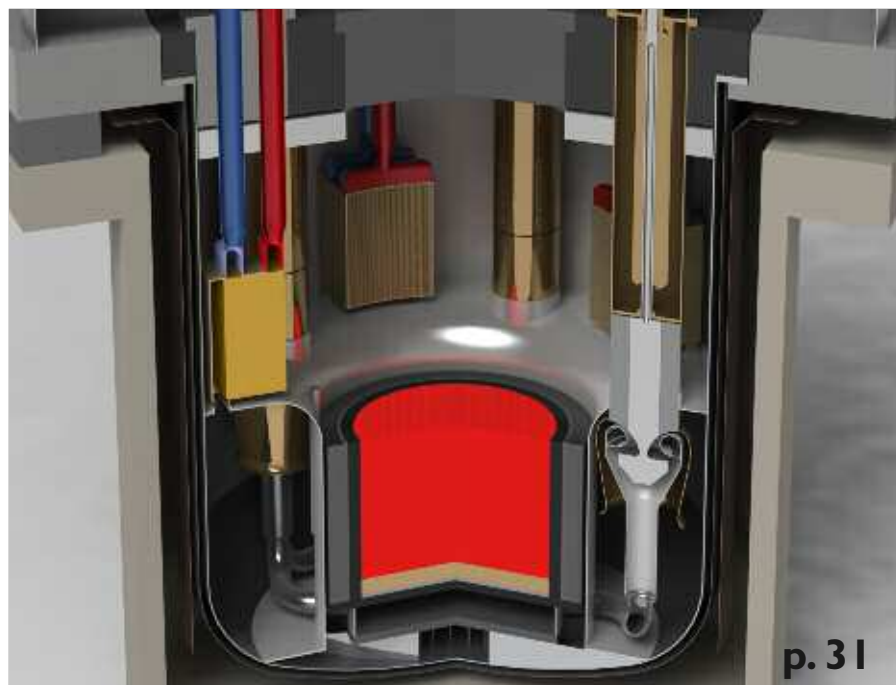
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FEATURE ARTICLE

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John Gilleland: On the traveling-wave reactor

INTERVIEW BY RICK MICHAL AND E. MICHAEL BLAKE

POWER

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TVA scales Bellefonte back to one reactor, at most. Maximizing the Assets: A status report on license renewal and power uprates. Commissioners allow low-level waste disposal issue to stand in Vogtle licensing proceeding. All 104 reactors listed in top two NRC oversight columns. Four contentions admitted on Fermi-3, including LLW storage. Two contentions admitted on Comanche Peak-3 and -4. Risk-informed regulations on loss-of-coolant accidents proposed again. NRC asks for more information on Nine Mile Point-2 uprate request. Calvert Cliffs-3 contention struck down; other licensing developments. Columbia turbine building fire; other operations events. NRC revises generic environmental impact statement for license renewal, proposes matching rule changes. Focus on Finance. Regulatory information summary on dose measurement, three information notices. National Research Council: Nuclear output may double by 2035. EPRI study repeats call for 64 GWe of new nuclear capacity by 2030. (See also Call for Papers, pp. 67–70, for the 2010 ANS Annual Meeting, June 13–17, in San Diego, Calif.)

SECURITY

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Nuclear trafficking bill introduced in Senate, House.

APPLICATIONS

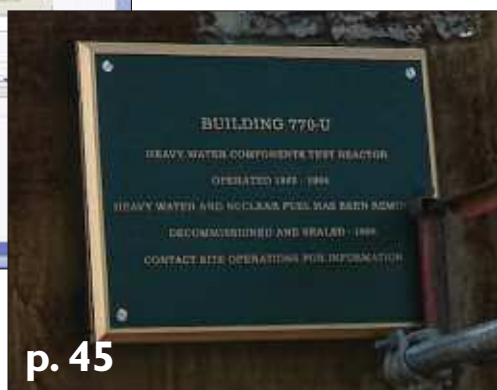
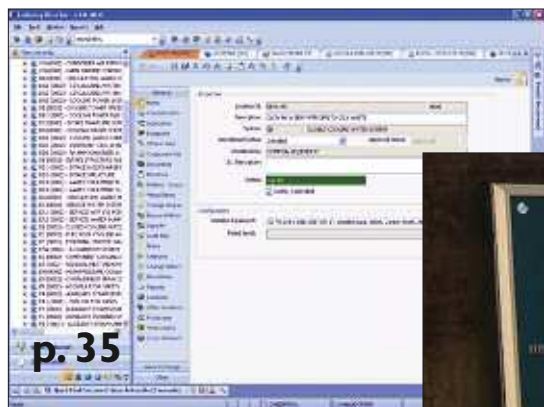
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Callaway engineers customize software for their configuration management needs.

INTERNATIONAL

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U.K. Prime Minister Brown issues blueprint on global nuclear challenges. Nuclear manufacturing research center being developed in Britain. Tender launched for two new power reactors at Temelin in the Czech Republic. Bruce Power halts new reactor plans in Ontario. Enel, EDF launch company to revive nuclear power in Italy. President Medvedev sets priorities for Russia's nuclear future. China to assess use of thorium in CANDU reactors. Japan's nuclear regulator to establish seismic center. IAEA receives reports on safeguards in Iran, Syria. IAEA budget increase approved. IAEA-organized meeting held on mitigation of uranium mining effects.



WASTE MANAGEMENT

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Senator Reid pushes to end Yucca Mountain license review funding. DOE ends investigation of industrial accident at Hanford. Savannah River's Hector reactor being prepared for decontamination, decommissioning. Bill introduced in House of Representatives to fund spent fuel reprocessing.

RESEARCH

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ITER vacuum vessel design retained. Nuclear-related work cited in *R&D* magazine's R&D 100 awards. New DOE stimulus funding announced for national laboratories.

INDUSTRY

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EI, EXCEL Services team up in knowledge management; other business developments. Flowserve, GSE signed for AP1000 work; other contracts.

ISOTOPES & RADIATION

52

NRC exemption would stretch supply of molybdenum-99/technetium-99m. NRC to tighten control of by-product material licensing. Rules on "grandfathered" medical isotope users clarified.

FUEL

59

DOE, USEC agree to delay final review of loan guarantee for American Centrifuge Plant. GLE test loop starts up in Wilmington, N.C. U.S., Russia approve high-enriched uranium conversion amendment. Letter of intent signed for TVA's use of MOX fuel. NRC investigates uncontrolled movement of uranium within B&W Lynchburg facility. Areva agrees to boost security at its Richland, Wash., fuel fabrication plant.

EDUCATION, TRAINING & WORKFORCE

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DOE's Energy Frontier Research Centers to receive \$377 million. NSF invites applications for research fellowships.

STANDARDS

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ANS answers inquiry on ANSI/ANS-6.4-2006.

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