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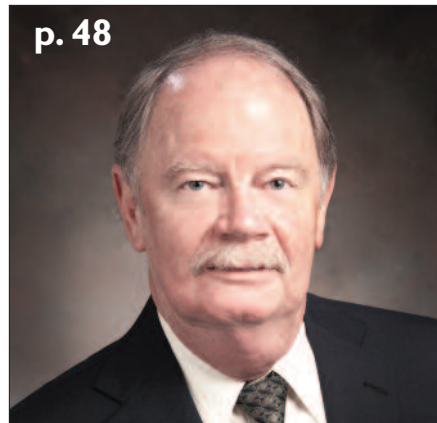
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FEATURE ARTICLES

Tom Sanders: Great expectations for small modular reactors

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Michael Corradini: An educational approach

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POWER

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Pilgrim receives renewed operating license. Macfarlane, Svinicki await Senate confirmation to Nuclear Regulatory Commission. NRC proposes ways for licensees to comply with post-Fukushima Daiichi orders. Focus on Finance. Phase 3 of U.S. EPR design certification review completed; certification targeted for December 2014. Nuclear Energy Institute proposes action plan for PWR sump strainers. Maximizing the Assets: A status report on license renewal and power uprates. NRC to continue current level of regulation for groundwater protection. NRC revises enforcement policy to address construction topics. San Onofre-2 and -3 to stay off line through August. TVA inspector general critical of Bechtel's performance at Watts Bar-2. ASLBs act on contentions in license renewal proceedings for Diablo Canyon, Indian Point. Three scrams each occur at Browns Ferry-3 and River Bend-1. NRC revises schedule for review of Seabrook license renewal application. More NPPA 805 work to be done for ANO-2, Browns Ferry. Target date for final safety evaluation report for Levy-1 and -2 license application pushed back to October; other licensing developments.

OPERATIONS

40

Duke Energy takes NEI's top TIP award for digital upgrades to reactor protection systems at Oconee-1.

SECURITY

42

Demolition in the desert: Razing of nuclear testing tower sets world record. NRC amends regulations on import and export of nuclear materials and equipment. Two illegal export cases result in one arrest, one fine.

INTERNATIONAL

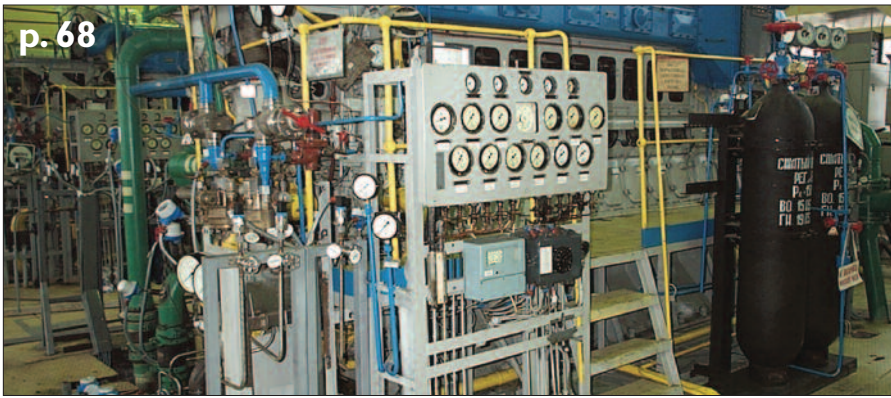
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South Africa, Nigeria sign nuclear pacts with Russia's Rosatom. Japanese Prime Minister Noda pleads for restart of two Ohi reactors. U.K. energy bill offers incentives for investing in low-carbon sources. University of Manchester is signed for academic work on PRISM reactor. Czech Republic utility ČEZ seeks partner for new Temelín units. New environment minister to lead Germany's "energy transformation." Reactor pressure vessel installed at China's first EPR, Taishan-1. Russia to begin membership in the OECD Nuclear Energy Agency in January. Armenia acquires one-tenth stake in the International Uranium Enrichment Center from Rosatom. Indian Prime Minister Singh restates support for nuclear power.

APPLICATIONS

67

Updating plant emergency diesel generators with intelligent digital control systems.



WASTE MANAGEMENT

71

Appeals court vacates NRC's waste confidence rule. Defense Nuclear Facilities Safety Board requests action on hazardous building at Savannah River Site. Waste processor Impact Services closes doors, sells assets. Appeals court sides with utilities in Nuclear Waste Fund lawsuit. NRC issues final safety evaluation report for Isotopes International's proposed depleted uranium deconversion plant. Savannah River Nuclear Solutions personnel transport TRU waste using three different shipping container models.

INDUSTRY

76

NRC receives report of rebar issues at Vogtle-3 and -4. Chatham Steel, Electrical Builders Inc. receive awards for performance. PaR Nuclear, China's Taiyuan Heavy Machinery Group form joint venture; other business developments. Graham Corporation gets \$5 million in orders from China; other contracts.

ISOTOPES & RADIATION

78

Study finds no DNA damage in continuous exposure of mice to radiation hundreds of times greater than background. Trace amounts of radiocesium found in Pacific bluefin tuna. NRC cites two licensees over unpaid annual fees.

FUEL

80

Eurodif enrichment plant closes, makes way for Georges Besse II. NRC authorizes cascade startup at Urenco USA facility, denies Strata appeal of ASLB decision regarding license application. NRC cites two nuclear fuel plants for violations. UF₆ production, conversion plants report events to NRC. Areva, Mitsubishi team up, Cameco acquires Nukem; other business developments.

RESEARCH

90

Sixty-eight early-career researchers to receive DOE funding.

EDUCATION, TRAINING & WORKFORCE

92

Salem Community College's nuclear technology program sees its first female graduates. Aiken Technical College expands nuclear programs.

STANDARDS

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NRC issues regulatory guides, other documentation. Standards approved, published; comments requested. ANS answers inquiry on ANSI/ANS-6.4.3-1991.

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