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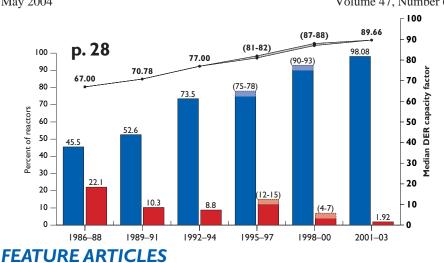
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# **Nuclear New** May 2004 Volume 47, Number 6



U.S. capacity factors: Still on the rise

BY E. MICHAEL BLAKE 25

From science to technology, excerpt from Creating the New World: Stories & Images from the Dawn of the Atomic Age

BY TED ROCKWELL 30

by Masayuki Yajima

# PERSPECTIVE

Liberalization of Japan's electric power industry and nuclear power development

#### POWER

Two groups formed to apply for power reactor licenses under the DOE's Nuclear Power 2010 program. Report: Reactors blameless in August 2003 blackout. NRC: PWRs should deal with sump debris issue. Status of license renewal applications in the United States. Revamped energy bill stalled in Congress. Omaha Public Power District commits to buy new steam generators for Fort Calhoun. State asks NRC to review Vermont Yankee uprate "independently." NRC managers reassigned in 10 key positions. DOE Under Secretary Card, ES&H chief Cook resign.

# SECURITY

NRC meeting reviews plant security, preparedness. Equipment standards: DHS sets measures for radiation detectors.

## WASTE MANAGEMENT

INEEL works on spent fuel package prototype for Yucca Mountain repository. DOE, EPA, Idaho agree to INEEL cleanup plan. With lawsuit in court, NRC approves ISFSI at Diablo Canyon. NRC establishes new High-Level Waste division. DOE asks for EPA site recertification for WIPP; other news. DOE certifies BNFL's Advanced Mixed Waste Treatment Project in Idaho. Los Alamos National Laboratory receives \$43 million for accelerated cleanup program. Contract awarded to Krog for Savannah River Site storage building.

## INTERNATIONAL

Canadian panel favors nuclear in short and long terms. Operating licenses renewed for Bruce A and B stations. NUMEX Trophy goes to Leibstadt, in Switzerland. UKAEA decommissioning work to be accelerated. Sodium coolant destruction begins at Dounreay, in United Kingdom. Research reactor fuel production ends at Dounreay. UNSCEAR: New program to consolidate Chernobyl numbers. Russia's Minatom loses ministerial status, is now federal agency. New Chernobyl "shelter" contract out for tender. European Commission approves loan for Cernavoda-2. New plant to process Kazakhstan's BN-350 liquid-metal coolant. China's Qinshan-3 goes online, generates power. Guangdong accelerates 6000-MWe project. IAEA: INSAG reformed into global safety mentor. Safety documents finalized on tradable materials.

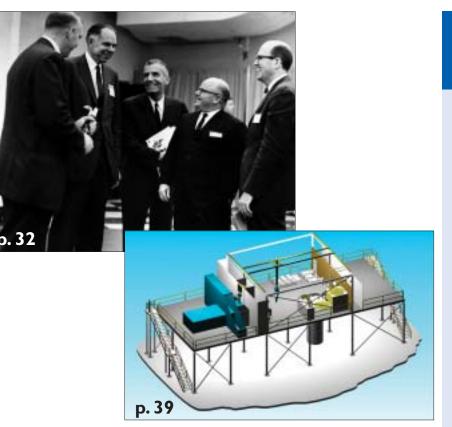
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#### INDUSTRY

Bartlett Nuclear gets new investors; other business developments. Larsen & Toubro gets Prototype Fast Breeder Reactor work in India: other pacts.

### APPLICATIONS

A "wheel" good grinding tool at Palo Verde.

#### SPACE APPLICATIONS

Naval Reactors Program partners with NASA. Satellite reactor coolant adds to space junk hazard.

#### RESEARCH

ITER: Work still needed on magnet development.

### **ISOTOPES & RADIATION**

Oncology: Radiotherapy seen to combat prostate cancer relapse. Alaska agency fined over stored-gauge exposures. (See also Call for Papers, p. 67, for the Monte Carlo 2005 Topical Meeting, to be held April 17-21, 2005, in Chattanooga, Tenn.)

#### **FUEL**

At public hearing, New Mexico residents show support for LES facility. USEC, union shake hands on six-year contract. NRC gives okay to Honeywell's first stage of UF<sub>6</sub> plant restart. Uranium production: Cameco taps into Kazakhstan mine.

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#### Coming up ...





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