Editorial Staff

editor & publisher Betsy Tompkins

INTERNATIONAL EDITOR Dick Kovan

> senior editor Rick Michal

senior associate editor E. Michael Blake

> associate editor Phyllis Ruzicka

PRODUCTION EDITOR Patricia A. Matas

> DESKTOP EDITOR Chris Salvato

EDITORIAL ASSISTANTS Andrea Bianchi Susan Gallier Contributing columnist

Bill Minkler

Advertising & Circulation Staff

SALES MANAGER Jeff Mosses

advertising/production assistant manager Erica McGowan

CIRCULATION ASSISTANT Bess Weglarz

Editorial Advisory Committee

Ramon Ashley, Sam K. Bhattacharyya, Roger S. Reynolds, Roger W. Tilbrook, and Paul Turinsky

ANS Headquarters

general number 708/352-6611 Fax 708/352-0499 Web site <www.ans.org>

NUCLEAR NEWS ADVERTISING 708/579-8226, 800/NUC-NEWS Fax 708/352-6464 Web site <www.ans.org/advertising> e-mail <advertising@ans.org>

> NUCLEAR NEWS EDITORIAL 708/579-8245 Fax 708/352-6464 e-mail <nucnews@ans.org>

INTERNATIONAL EDITOR (DICK KOVAN) +44 1737 842687 e-mail <dkovan@compuserve.com>

Nuclear News

April 2009

Volume 52, Number 4



SPECIAL SECTION: OUTAGE MANAGEMENT 33

A four-steam-generator outage at Diablo Canyon-2

BY RICK MICHAL 35

Cooper develops outage newsletter to reach out to temporary workers

BY GLENN TROESTER 42

Olkiluoto gets a new outage building

BY DICK KOVAN 47

PHOTO FEATURE

Celebration marks opening of renovated historical exhibit at Argonne National Laboratory

WASTE MANAGEMENT

Funding for Yucca Mountain repository slashed as new administration looks to a different direction. Another former DOE official voices support for Yucca Mountain repository. IEEE-USA policy statement includes spent fuel recommendation. European Commission's SAPIERR Project leads to regional repository initiative.

POWER

22

56

State legislatures revive nuclear debate. NRC finds four violations of QA requirements at South Texas-3 and -4. Review schedule set, licensing board named for Levy-1 and -2 COL application. Renaissance Watch: An update on developments that may lead to new power reactor orders and construction. Progress made on alternative source term requests for McGuire, Point Beach. ASLB admits one contention in COL proceeding for Vogtle-3 and -4. Exelon's stock-swap offer sways more than half of NRG shares. NRC endorses Nuclear Energy Institute position statement on output limits for power reactors. FY 2010 federal budget "blueprint" curbs Yucca Mountain Project. Safety reviews for North Anna-3 and Calvert Cliffs-3 COL applications prolonged. NRC asks for early notice of FY 2011 submissions. (Also see Call for Papers, pp. 75–78, for the 2009 ANS Winter Meeting, November 15–19, in Washington, D.C.)

FUEL

51

52

Uranium fuel plants lead the way in NRC fee increases for FY 2009. Nuclear Threat Initiative's proposed international fuel bank hits \$150-million milestone.

RESEARCH

FermiLab particle collisions produce unpaired top quarks.



EDUCATION, TRAINING & WORKFORCE

FY 2009 omnibus appropriations bill creates university nuclear program.

INTERNATIONAL

Russia's Rosatom and Germany's Siemens to form nuclear alliance. Three bids submitted for nuclear project in Ontario, Canada. Italy and France sign nuclear cooperation agreement. Pre-commissioning testing launched at Iran's Bushehr plant. Uranium mining, floating nuclear plants coming to Russia's Yakutia region. International Energy Agency urges Dutch government to make decision on nuclear power. U.K.'s RWE npower options land for reactor projects. U.K.'s NDA marks milestone in nuclear cleanup program. Iran and Syria hinder IAEA's safeguards verification efforts.

INDUSTRY

73

55

61

Areva buys 30 percent stake in MHI's fuel business; other business developments. Invensys gets controls contract for two Chinese reactor sites; other contracts.

STANDARDS

ANS answers inquiries on two standards. Standards approved, comments requested.

DEPARTMENTS

EDITORIAL		Recently Published	12
Backscatter	80	Short Courses & Seminars	10
Calendar	6		
Calls for Papers	10	ADVERTISING	
Late News	17	Direct Answer	66
Nuclear Notes	4	Index to Advertisers	65
People	79	Employment Ads Begin	71

ANS Officers

PRESIDENT William E. Burchill VICE PRESIDENT/PRESIDENT-ELECT Thomas L. Sanders TREASURER Eric P. Loewen

CHAIRMAN, ANS PUBLICATIONS STEERING COMMITTEE Roger W. Tilbrook

Administrative

EXECUTIVE DIRECTOR John M. Tuohy, Jr.

Coming up ...

- Mid-April—40th Anniversary 2009 Nuclear News Buyers Guide
- May-Special Feature: U.S. Nuclear Power Plant Capacity Factors
- July—Nuclear News 50th Anniversary Issue; Profile of incoming ANS President Thomas L. Sanders





Audit Bureau of Circulations

Nuclear News (ISSN: 0029-5574), Volume 52, Number 4, Published monthly (except during the month of April when issued twice monthly) by the American Nuclear Society, Incorporated, with business, executive, and editorial offices at 555 N. Kensington Ave., La Grange Park, Illinois 60526; telephone 708/352-6611. Subscription rate is \$400 for 2009; overseas subscribers add \$65 per year for postage and handling. Single copy price is \$40; \$12 additional for overseas postage and handling (except for the Buyers Guide issue, which is \$110; \$15 additional for overseas postage and handling). Individual ANS members receive *NN* as part of membership. Replacement copies may be obtained at the single copy price, as long as copies are available. Inquiries about the distribution and delivery of Nuclear News and requests for changes of address should be directed to the American Nuclear Society. Allow six weeks for a change to become effective. POSTMAS-TER: Send change of address orders to *Nuclear News*, American Nuclear Society, 555 N. Kensington Ave., La Grange Park, Illinois 60526, or <nucnews@ans.org>

Nuclear News is printed in New Richmond, Wis. 54017, by St. Croix Press, Inc. Nonprofit periodicals postage paid at La Grange, Illinois, and at additional mailing offices. Copyright © 2009 by the American Nuclear Society, Inc. Trademark registered in USA and Canada.

Opinions expressed in this publication by the authors are their own and do not necessarily reflect the opinions of the editors, the American Nuclear Society, or the organizations with which the authors are affiliated, nor should publication of author viewpoints or identification of materials or products be construed as endorsement by this publication or by the Society.

Texts of most Nuclear News articles are available on the NEXIS database, from Mead Data Corporation.

April 2009