

DEPARTMENTS

EDITORIAL

Backscatter	60
Calendar	6
Calls for Papers	8
Late News	17
Nuclear Notes	4
People	57
Recently Published	10

ADVERTISING

Direct Answer	46
Index to Advertisers	45
Employment Ads Begin	49

Coming up ...

October—Special Section on Nuclear Power Plant Maintenance

December—Special Section on Fuel

Members: View Nuclear News online!

At <www.ans.org>, click on Member Center at the upper right of your screen. Log in with your user name (member ID#) and password (last name, all lowercase, or your selected password). Click on the heading for the current issue of *Nuclear News*.

FEATURE ARTICLE

34

After Fukushima Daiichi: Developments on several fronts

BY DICK KOVAN, E. MICHAEL BLAKE, AND TIM GREGOIRE

POWER

11

Final EPA Clean Power Plan helps, hurts nuclear power. Vogtle-3 CA01 module is placed in containment. Hot functional testing completed for Watts Bar-2. NuScale identifies potential policy issues in NuScale Power Module design certification work. Maximizing the Assets: A status report on license renewal and power uprates. New rule would revise emergency planning zones for small modular reactors, non-LWR designs. Focus on Finance. Seabrook renewal EIS issued, contention settled. St. Lucie-1 upgraded to routine oversight by NRC. Davis-Besse, Diablo Canyon license renewal developments.

SECURITY

24

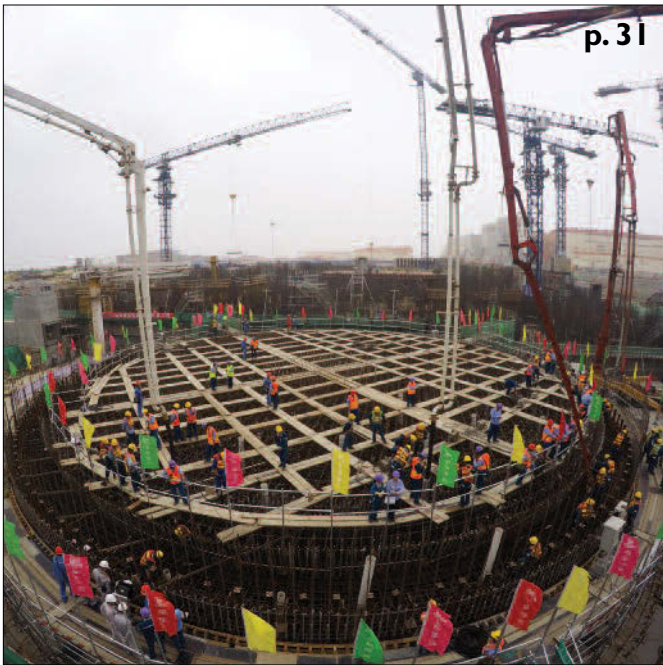
U.S.-China nuclear trade pact passes congressional review. Amendment to the Convention on the Physical Protection of Nuclear Material ratified by United States. Sen. Lindsey Graham threatens to block IAEA funding over Iran deal. Irradiators containing U.S.-origin sources returned from Mexico; other NNSA developments.

INTERNATIONAL

28

EDF to own most of Areva's nuclear power subsidiary as part of strategic partnership pact. Fennovoima settles issue over Hanhikivi-1 ownership. Compensation claims for Olkiluoto-3 are updated. Two halves of Chernobyl New Safe Containment joined. CEO of Brazil's Eletronuclear faces bribery allegations. Construction begun at China's Hongyanhe-6. New preferred subtier bidders for Hinkley Point C chosen. Grants awarded in United Kingdom for accident-tolerant fuel work. Vietnam signs framework agreement with Russia.

On the cover: On February 5, 2015, workers at the damaged Fukushima Daiichi plant began filling the inside of trenches—underground tunnels housing pipes and cables—on the seaside of Units 2 and 3 with a special liquid cement, while removing contaminated water from those trenches. According to Tokyo Electric Power Company, removal of water from the Unit 2 trench was completed on June 30, and from the Unit 3 trench, on July 30. For an update on some of the work being done at the Fukushima plant, post-Fukushima developments elsewhere in Japan, and continuing post-accident issues being addressed in the United States, see the article that begins on page 34.



WASTE MANAGEMENT 38

DOE delays WIPP reopening date. Savannah River Remediation employees prepare Vault 4 disposal unit for coating application. Ohio approves DOE plan to demolish Portsmouth Gaseous Diffusion Plant buildings. Spain's regulator finds interim high-level waste storage site suitable. TRU waste said to be stored safely at Oak Ridge.

EDUCATION, TRAINING & WORKFORCE 41

ORISE report finds that nuclear engineering degree recipient numbers are leveling off.

RESEARCH 47

DOE opens funding opportunity for advanced reactor concept development.

INDUSTRY 48

Export-Import Bank's future uncertain as Congress entered August recess. Mitsubishi to assist Holtec on SMR systems; other business developments. Holtec chosen to provide dry casks; other contracts. Two Part 21 reports each on, or by, four companies.

ISOTOPES & RADIATION 52

NRC denies petition to expand availability of tritium markers. NRC settles prolonged dispute with radiographer. NRC fines Michigan-based medical licensee.

FUEL 54

Alert declared at Metropolis Works for UF₆ leak in Feed Materials Building. Uranium mining bans challenged in Virginia and Québec. Hearing begun on Crow Butte contentions; other licensing news. Denison sells off Mongolian interests; other business developments.

STANDARDS & DOCUMENTATION 56

One standard approved, one new standard initiated. Three regulatory guides revised; other documents.

Editorial Staff

EDITOR & PUBLISHER

Betsy Tompkins

INTERNATIONAL EDITOR

Dick Kovan

SENIOR EDITOR

E. Michael Blake

SENIOR ASSOCIATE EDITOR

Phyllis Ruzicka

ASSOCIATE EDITORS

Michael McQueen

Tim Gregoire

PRODUCTION EDITOR

Patricia A. Matas

DESKTOP EDITOR

Chris Salvato

EDITORIAL ASSISTANT

Susan Gallier

CONTRIBUTING COLUMNISTS

Linda C. Byus

Bill Minkler

Advertising & Circulation Staff

SALES MANAGER

Jeff Mosses

ADVERTISING/PRODUCTION ASSISTANT MANAGER

Erica McGowan

ADVERTISING SALES ASSISTANT

Jessica Vazquez

Editorial Advisory Committee

Jess C. Gehin, John C. Gilligan,
and Kevan D. Weaver

ANS Officers

PRESIDENT

Eugene S. Grecheck

VICE PRESIDENT/ PRESIDENT-ELECT

Andrew C. Klein

TREASURER

Steven A. Arndt

CHAIRMAN, ANS PUBLICATIONS STEERING COMMITTEE

Martin L. Grossbeck

Administrative

EXECUTIVE DIRECTOR

Robert C. Fine

ANS Headquarters

GENERAL NUMBER

708/352-6611

Fax 708/352-0499

www.ans.org

NUCLEAR NEWS EDITORIAL

708/579-8245

Fax 708/579-8204

nucnews@ans.org

NUCLEAR NEWS ADVERTISING

708/579-8226

800/NUC-NEWS

Fax 708/352-6464

www.ans.org/advertising

advertising@ans.org

INTERNATIONAL EDITOR (DICK KOVAN)

902/455-3575

dkovan@ans.org

Nuclear News (ISSN: 0029-5574), Volume 58, Number 10. 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 for 2015 is \$580, which includes complimentary electronic access, 2008 to current issue; for subscriptions outside North America, add \$70 for shipping and handling. Alternatively, subscription rate is \$510 for Electronic Access Only, 2008 to current issue. Single copy price (regular monthly issues) is \$45; add \$12 for postage and handling if being shipped to address outside North America. Single copy price for annual mid-April Buyers Guide is \$110; add \$15 for postage and handling if being shipped to address outside North America. Individual ANS members receive *Nuclear News* 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. POSTMASTER: 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 © 2015 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 LexisNexis database, from Mead Data Corporation.

