

Nuclear News

July 2003

Volume 46, Number 8

Editorial Staff

EDITOR & PUBLISHER
Gregg M. Taylor

MANAGING EDITOR
Elizabeth S. Tompkins

INTERNATIONAL EDITOR
Dick Kovan

SENIOR ASSOCIATE EDITOR
Richard A. Michal

ASSOCIATE EDITOR
Patrick Sinco

PRODUCTION EDITOR
& ASSISTANT EDITOR
Deborah S. Nall

DESKTOP EDITOR
Chris Salvato

EDITORIAL ASSISTANT
Nancy Slove

CONTRIBUTING COLUMNIST
Bill Minkler

Advertising Staff

SALES MANAGER
Jeffery R. Mosses

ADVERTISING/PRODUCTION ASSISTANT
Patricia Fairchild

CIRCULATION ASSISTANT
Bess Weglarz

Editorial Advisory Committee

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

ANS Headquarters

GENERAL NUMBER
708/352-6611
Facsimile 708/352-0499
Web site <www.ans.org>

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

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

INTERNATIONAL EDITOR
(DICK KOVAN)
011-44-1737-842687
e-mail <dkovan@compuserve.com>



SPECIAL SECTION: HEALTH PHYSICS

39

Disabling the terror of radiological dispersal

BY MARK M. HART 40

The effective use of tungsten as a shielding material in nuclear applications

BY KENNETH OHR, ROBERT THOMPSON, JR., AND DON BARKER 45

Flora and fauna to get ICRP's human touch

BY DICK KOVAN 49

Amy Orders: Initiatives in radiation safety training
at North Carolina State University

INTERVIEW BY RICK MICHAL 52

FEATURE ARTICLES

Foulke: Capping a career profile

BY PATRICK SINCO 33

POWER

18

TIP Awards: TVA earns industry's "Best of Best" honor. NEI annual conference: Industry leader predicts bright nuclear future. Outage data: Plant refueling durations show decrease in 2002. Peach Bottom's operating licenses renewed for additional 20 years. NRC approves power uprate for Indian Point-2, Pilgrim. Donald C. Cook Unit 1 back in service; Unit 2 vessel head repaired. "Nuclear: The Clean Air Energy" ad campaign goes public. African-American group recognizes nuclear contributions at environmental conference. Emergency planning: Set of methods devised to evaluate disaster drills. Status of license renewal applications in the United States. Unionized workers at Oyster Creek go on strike, stage a walkout. House subcommittee head blasts NRC safety decisions on Davis-Besse.

OPERATIONS

29

Performance indicators show that nuclear power industry keeps on improving.

SECURITY

31

Radiation sources: DOE, GAO disagree about sealed-source recovery.

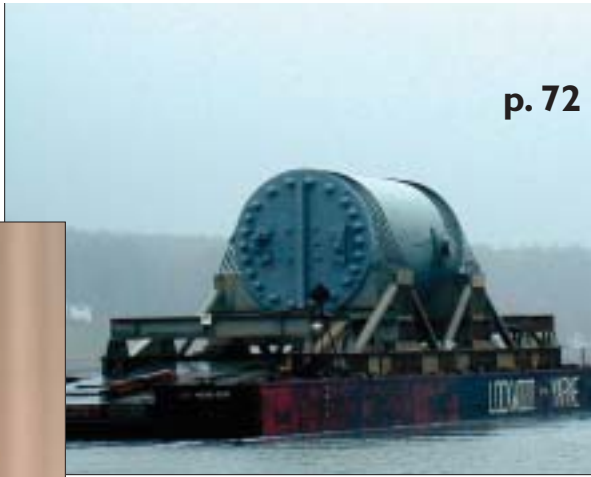
INTERNATIONAL

55

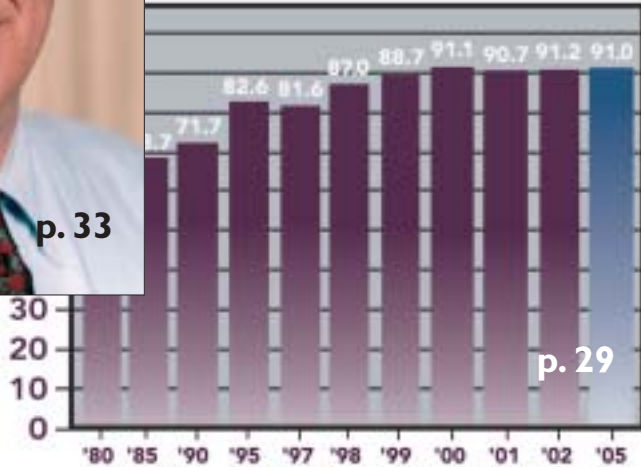
European Union report reveals grim energy picture in 2030. Kyoto environmental targets said to be at risk. Qinshan-5, in China, goes critical ahead of schedule. South Africa's Eskom ready to build PBMR demonstration unit. IAEA group: Monju restart called vital for fast reactor research. IAEA releases 2002 nuclear power statistics. P&T waste management report being finalized by IAEA. U.K. experts say greater clarity needed in nuclear regulation. U.K. regulator closes out Sellafield safety plan. Medical research finds no Gulf War syndrome.



p. 33



p. 72



p. 29

MEETINGS

62

Irradiated food, good; foodborne pathogens, bad.

WASTE MANAGEMENT

72

Licensing: NRC says Utah facility could withstand an earthquake. Cogema signed for Yucca Mountain; NNC acquires Monsarco. Site selected for low-level waste repository in Australia.

INDUSTRY

74

Acquisitions, expansion, partnerships, other business developments. Framatome, Westinghouse, others get contracts.

ISOTOPES & RADIATION

76

Diagnostics: Electron beam CT helps with risk assessment. New means for tumor death identified.

RESEARCH

78

GAO report: DOE could save up to \$41 million with external regulation. Heated plutonium "like popcorn in a microwave."

DEPARTMENTS

Backscatter	84	80	People
Calendar	6	14	Quoting at Random
Equipment & Services	81	11	Recently Published
Index to Advertisers	65	12	Retrospective
Late News in Brief	21	4	Setpoint
Letters	16	11	Short Courses and Seminars
Literature from Suppliers	83	82	Software/Databases Available

ANS Officers

PRESIDENT

Larry R. Foulke

VICE PRESIDENT/PRESIDENT-ELECT

James Tulenko

TREASURER

William Naughton

CHAIRMAN, ANS PUBLICATIONS

STEERING COMMITTEE

Steven A. Arndt

Administrative

EXECUTIVE DIRECTOR

Harry Bradley

Coming up ...

August—Ninth Annual Vendor/
Contractor Profile Issue



Nuclear News (ISSN: 0029-5574), Volume 46, Number 8. 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 \$325 for 2003; overseas subscribers add \$53 per year for postage and handling, ABC applied for. Single copy price is \$27; \$10 additional for overseas postage and handling (except for the Buyers Guide issue, which is \$100; \$10 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. 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 © 2003 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.