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 Patricia A. Matas 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 708/579-8240 Facsimile 708/352-6464 e-mail <nucnews@ans.org>

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

Nuclear News

January 2004

Volume 47, Number 1



SPECIAL SECTION: TRAINING Moving training toward performance improvement

BY PHILIP N. MCCULLOUGH 22

College credit for NANT-accredited programs coming full circle

BY RICHARD P. COE 27

INDEX TO 2003 NUCLEAR NEWS CONTENTS 17

SPECIAL REPORT: 2003 ANS/ENS INTERNATIONAL WINTER MEETING 38

ANS/ENS International Meeting: Commemorating-and advancing-	
the philosophy of Atoms for Peace	38
Topical Meeting: Atoms for Peace—Updating the vision	55

POWER

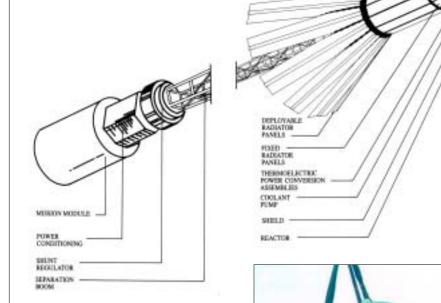
DOE seeks partners for "one-step licensing" for new plants. Constellation to acquire RG&E's Ginna plant. Duke plants OK'd for 20 more years of life with license renewal. NRC, FENOC meet to discuss restart of Davis-Besse plant. Status of license renewal applications in the United States.

INTERNATIONAL

30

12

IAEA board won't refer Iran to UN Security Council. Indian government takes next step for fast breeders. China's Ling Ao units complete first operating cycles. Germany's Schröder offers Hanau MOX plant to China. IAEA report: Spent fuel, radwaste convention "worked well." IAEA report on Russian weapon test sites to be online.



p. 48



WASTE MANAGEMENT

36

GAO report: To ensure decommissioning funds, better analysis needed. Yucca Mountain contractor choice challenge remanded to District Court.

36

INDUSTRY

Strategic alliances formed to enhance companies' performance. Framatome ANP, others signed for work at utilities. Entergy, Leonard receive Global Energy Awards.

FUEL

62

67

58

Cogema requests OK for demonstration MOX fuel assembly production. Westinghouse will expand BWR fuel fabrication facility. Areva buys in to Urenco's centrifuge enrichment technology work.

STANDARDS

Clarification: ANS receives inquiry on ANSI/ANS-3.11–2000. New standard now available for purchase.

DEPARTMENTS

ANS Membership Application	59	71	Literature from Suppliers
Backscatter	72	68	People
Calendar	6	8	Proceedings Available
Calls for Papers	7	8	Recently Published
Equipment & Services	70	4	Setpoint
Index to Advertisers	65	-	1
Late News in Brief	У	/	Short Courses and Seminars



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

Cover: Jim Palumbo, in full protective gear, works on the flow loop of the Perry training simulator, while lead electrical instructor Mark Monk observes. An article on moving nuclear power plant training toward performance improvement is one of two in a special section on Training, beginning on page 21. (Photo: Tommy Thompson)

Coming up ...

March—Sixth Annual Nuclear News Reference Issue



Nuclear News (ISSN: 0029-5574), Volume 47, Number 1. 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.

January 2004