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Coming up . . .

May—Special Feature: U.S. Nuclear Power Plant Capacity Factors

June—Special Section on Instrumentation and Controls

July—Profile of incoming ANS President Robert N. Coward

On the cover: Unit 3 of the Barakah nuclear power plant is about 68 percent complete, with the reactor containment building liner dome installed and the pouring of concrete ongoing. International Editor Dick Kovan provides background and an update on progress at the United Arab Emirates' first nuclear power plant project in this issue's Special Section on Construction and Supply Chain, which begins on page 25. (Photo: Arun Girija/Emirates Nuclear Energy Corporation)

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Special Section: Construction and Supply Chain 25

Work at UAE's Barakah progressing on schedule

BY DICK KOVAN

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Building a better supply chain

INTERVIEW BY MICHAEL MCQUEEN

30

Hinkley Point C: Preparations end, full construction begins

BY DICK KOVAN

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Power 12

NRC approves sale of FitzPatrick from Entergy to Exelon. Duke Energy's nuclear fleet achieves record 2016 performance. PG&E revises Diablo Canyon closure proposal. NRC issues 2016 reactor performance assessments. Renaissance Watch: An update on developments that may lead to new power reactors. Entergy cited for emergency diesel generator maintenance lapse at Arkansas Nuclear One. Two shutdowns caused by leaks; other events. (See also Call for Papers, pp. 71–74, for the 2017 ANS Winter Meeting, October 29–November 2, Washington, D.C.)

Security 20

Government Accountability Office calls for security enhancements for transport of radiological materials. NNSA conducts nuclear forensics workshop in Argentina; other NNSA news. The 50th anniversary of Treaty of Tlatelolco commemorated in Mexico City. NRC's Office of the Inspector General calls for improvements in oversight of source material exports and security at decommissioning reactors.

Policy & Legislation 23

Bipartisan legislation in House and Senate proposes changes to NRC's fee recovery and licensing structures. Senate confirms Rick Perry as secretary of energy.



International 42

Unit 1 at Russia's Novovoronezh II is world's first Gen III+ reactor to go commercial. European Commission approves Hungarian government investment in Paks II. IAEA reviews long-term safety at Belgium's Doel-1 and -2. United Kingdom's national nuclear archive opens to the public. CGN subsidiary enters nuclear technology applications market in China. Global Nuclear Fuel-Japan's fuel fabrication plant passes safety exam.

Waste Management 46

Demolition work progresses at Hanford Site's Plutonium Finishing Plant. B-Cell mock-up to help in soil remediation at Hanford. Transuranic waste retrieval project completed at Idaho Site. Radioactive sludge removed from Sellafield storage pond. NRC releases revised report on decommissioning disposal costs. Grout research aimed at preventing waste seepage.

Fuel 50

Operating license issued for Reno Creek *in situ* recovery project. GoviEx Uranium acquires Zambian properties; other mining developments. U.S. uranium production 13 percent lower in 2016 than in 2015.

Research 53

NASA rover technology to map radioactive sites. DOE's Advanced Research Projects Agency-Energy draws \$1.8 billion in private sector funding for energy innovation.

Education, Training & Workforce 55

First-of-its-kind program awards certificate to first graduate at University of Nevada at Reno. IAEA assesses radiation protection training in United Arab Emirates.

Industry 57

Exelon joins with Horizon Nuclear Power on Wylfa Newydd project; other business developments. Bruce Power awards contracts; other pacts. Corrosion traced to polishing chemicals; other 10 CFR Part 21 reports.

Standards & Documentation 66

Standard approved, comments requested. Two regulatory guides issued by NRC, four available for comment.

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