Special Section:

Outage Management and Plant Maintenance 35
A unique approach to long-term reactor internals management
by Chaz McFeaters and Rob DeNight 36

Perry’s 29-day refueling outage is shortest in its operating history

Executing the Darlington refurbishment project—Year 1
by Dick Kovan 50

Utility Working Conference: A closer look at Efficiency Bulletins 56

Power

Turkey Point and St. Lucie plants prepared for Hurricane Irma landfall. Bechtel audit identified issues a year before Summer project cancellation. Renaissance Watch: An update on developments that may lead to new power reactors. Part owner Oglethorpe Power recommends completing Vogtle-3 and -4. Exelon to invest $20 million in Quad Cities construction projects. NRC shifts Perry, Hope Creek in ROP action matrix. (See also Call for Papers, pp. 103–106, for the 2018 ANS Annual Meeting, June 17–21, Philadelphia, Pa.)

Security

Engineer sentenced for selling nuclear secrets. DOE announces funding for grid resilience and security. HEU from Ghana’s GHARR-1 research reactor returned to China. IAEA assessment finds China’s nuclear security to be strong.

International

Final major components installed at United Arab Emirates’ Barakah plant. Brazil and China sign MOU on completing Angra-3. IAEA team reviews seismic safety at South Korea’s Wolsong and Shin-Wolsong nuclear plants. Pre-restart inspection applications submitted for Japan’s Genkai-3 and Ohi-3 and -4. Final freezing of “ice-wall” at Fukushima Daiichi approved. Pakistan’s new prime minister inaugurates Chashma-4. Nuclear to remain key part of Ukraine’s energy mix. NuScale Power launches SMR action plan for Britain.
Waste Management

Fuel
Lightbridge/Areva and X-energy/Centrus form partnerships for the development and manufacture of advanced nuclear fuel. IAEA fuel bank storage facility completed in Kazakhstan. Oman to fully fund Spain’s Salamanca uranium mine; other business developments.

Isotopes & Radiation
Cassini-Huygens spacecraft completes mission after two decades in space. Lawsuit against owners of NUMEC fuel plant dismissed.

Education, Training & Workforce
ORISE releases results of 2016 survey on nuclear engineering degrees. IAEA course improves regulation drafting skills.

Industry
GE Hitachi and ACR Nuclear advance SMR collaboration; other business developments. OneAIM wins Sellafield contract; other pacts. Various relay issues, software errors discovered; other 10 CFR Part 21 reports.

Standards & Documentation
Standards approved and initiated, comments requested. NRC draft regulatory guide issued for comment; NUREGs issued.