

Leading the Next Generation of Nuclear Energy



 **Burns and Roe**
People Building Success



Leading the Next Generation



The world demands clean, dependable and efficient energy. Nuclear power is answering this call. Burns and Roe has the people, resources and know-how to bring the next generation of nuclear energy on line. Burns and Roe's expertise is based on a tradition of excellence that goes back to the early days of the nuclear industry and continues to this day. Our accomplishments include contributions to virtually every milestone event, from engineering the first commercial nuclear plant, to performing the engineering necessary to license the new generation of nuclear power plants proposed in the United States.

Bringing Strong Nuclear Resources

Burns and Roe has provided engineering, procurement and construction services for over 122 nuclear generating units world wide with a total generating capacity greater than 25,000 MW. Our experience includes new-build nuclear generating stations, research reactor facilities, radiation laboratories, reactor and primary heat dissipation systems, reactor fuel processing, reactor test activities, nuclear waste handling systems, retrofit programs for operating plants, and decommissioning and dismantling of facilities. Since the very beginning of the commercial nuclear power industry, Burns and Roe has been involved in the development of nuclear power generating technologies such as pressurized water, boiling water and liquid metal designs. Our staff includes hundreds of engineers and designers ready to meet the challenges of the next generation of nuclear energy.

Built on a Legacy of Nuclear Power

1969

Oyster Creek

Engineer of Record for the Nation's first commercially owned and operated nuclear power plant.



1979

Three Mile Island

Safely executed recovery services associated with the United State's most significant nuclear incident.



1992

Tennessee Valley Authority

Designed state-of-the-art radwaste volume reduction and storage facilities.



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Capabilities in Selected Technical Areas

Burns and Roe has always been committed to nuclear energy. We have established organizational resources to meet a rising need for experienced engineering/design services and operations support for today's generation of nuclear plants. Today's market offers a new challenge - identify the risk associated with bringing the first U.S. plants on line in nearly three decades. We offer our clients responsive capabilities in a wide range of technical areas.

- Combined Construction and Operating License (COL) Application Preparation
- Configuration Management
- Decommissioning and Dismantling Services
- Design Reviews
- Early Site Plan Development
- Electrical Systems Analysis
- EPC Services
- Equipment Qualification
- Fire Protection
- Fuel Cycle Evaluations
- Hydraulic Systems Analysis
- Instrumentation and Controls
- NQA-1 Procurement
- Nuclear Mechanical Engineering
- Nuclear Regulatory Compliance and Licensing Support Services
- Piping and Pipe Support Analysis/Stress Analysis
- Owner's Engineering Services
- Process Computers (Hardware and Software)
- Project Control and Planning
- Radiation Protection
- Radioactive Waste Management
- Project Management
- Risk Management and Contingency Analysis
- Safety and Hazards Analysis
- Security Systems Design and Implementation
- System Interaction
- Technology Selection
- Technical Evaluations
- Utility Requirements Document
- Vertical Reviews



1995

AP 600 - Advanced Reactor

Engineered this next generation nuclear power plant with advanced waste management systems.



2000

Indian Point, Unit 2

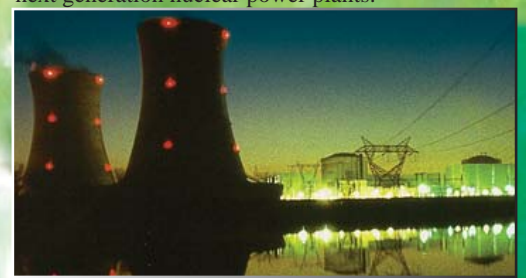
Record setting replacement of the feedwater heater tube bundles and gland steam condenser, accomplished within a 36-day outage.



2006

The Next Generation

Preparing combined construction and operating license applications, reviewing utility requirements documents and providing owner's engineering for the next generation nuclear power plants.



A C Y



Achievements in engineering and construction since 1932.

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