



***Burns and Roe***

People Building Success

Advanced Technology Solutions



## Burns and Roe



Burns and Roe, founded in 1932, provides comprehensive technical services to commercial and government clients. Our experience includes full service consulting, design, engineering, procurement, construction, and operations and maintenance of domestic and international projects. The Advanced Technology Services (ATS) Division delivers technical solutions through consulting, innovation, and engineer-procure-construct (EPC) services.

## Consulting Services

The ATS Division provides a wide range of engineering and project management consulting services. These services include the following:

- Alternative Technology Assessments
- Value Engineering Studies
- Design Reviews
- Project Capital Cost Estimates
- Life Cycle Cost Estimates
- Economic Analysis
- Risk Management and Contingency Analysis
- Systems Engineering
- Project Cost and Schedule Control Systems
- Configuration and Change Management Systems
- Project Management Reviews

## A Legacy of First-of-A-Kind Projects

1969

### Oyster Creek

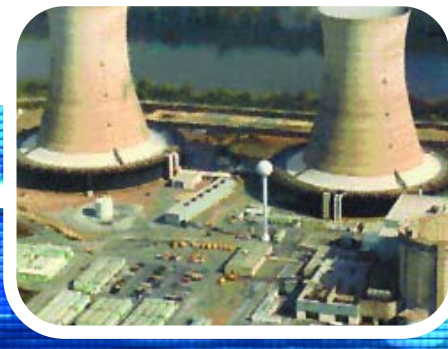
Engineer of Record for the Nation's first commercially owned and operated nuclear power plant



1979

### Three Mile Island

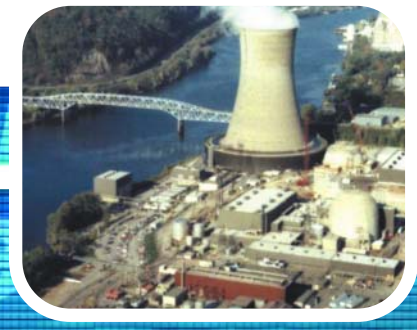
Safely executed recovery services associated with the United State's most significant nuclear incident



1982

### Shippingport

Engineered and planned the first decommissioning of a commercially operated, government owned reactor



LEG

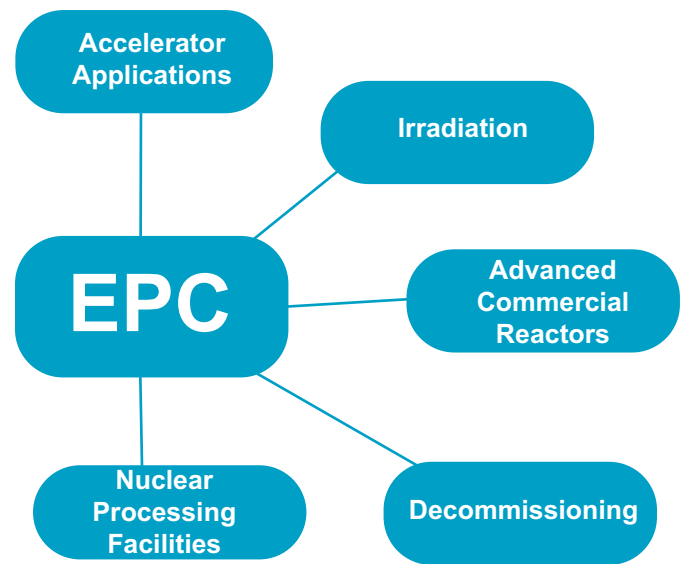
# Technology Solutions

Our understanding of industry challenges allows us to actively seek out new technologies and innovative solutions. Our international experience has exposed us to a wide range of technologies that have not been marketed in the United States. By embracing new technologies, we have become a teaming partner with a number of high technology startup companies striving for better solutions. Recent technology solutions include the following:

- Nuclear Plant Relief Valve Solutions
- Plasmox® Technology for the Destruction of Hazardous Waste
- Advanced Vitrification Systems
- Centrifugal Bioreactor Systems
- Advanced Radioactive Waste Treatment Systems
- Contaminated Stack Segmenting Solutions
- One-piece Reactor Vessel Removal Systems

## EPC Services

Burns and Roe is noted for its premier first-of-a-kind EPC services. This tradition, which dates back to the early days of the nuclear industry, continues today. Our accomplishments include contributions to virtually every milestone event from engineering the first commercial nuclear plant to managing the decontamination and decommissioning of the first large scale commercial nuclear reactor in the United States.



1995

### AP 600

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

1997

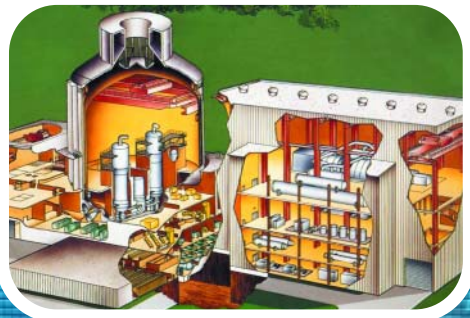
### APT

Selected to manage, engineer and construct this advanced accelerator project

1999

### Trojan

First decommissioning of a large-scale commercial reactor, utilizing a one-piece reactor removal



A

C

Y

## Innovative Responsive Experience

# Recent First-of-A-Kind Award Winning Projects



## International Project of the Year

The Project Management Institute (PMI) named the Trojan Reactor Vessel and Internals Removal (RVAIR) the 2000 PMI International Project of the Year.

## Major Systems Project Award

Burns and Roe was recognized for excellent performance in the project management of the Accelerator Production of Tritium (APT) Program



“ Thank you for your excellent performance in support of the RVAIR project. Burns and Roe was very responsive to our needs in the design and procurement of the required equipment and completed the activities in a very timely and professional manner. The success of this project was a direct result of your efforts.”

Portland General Electric



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