

**Enclosure 1 – Non-Proprietary Presentation “Blue Energy NRC Public Meeting
Submittal Milestones and CPA Part 1 Discussion”**



Blue Energy NRC Public Meeting Submittal Milestones and CPA Part 1 Discussion

August 18, 2026

Agenda

Discussion Topic	Presenter	Time
Blue Energy Introduction	Antonios Zoulis	1:00pm – 1:10pm
Construction Permit Application Part 1 Submittal Milestones	Antonios Zoulis	1:10pm – 1:30pm
Open Discussion	NRC / Blue Energy	1:30pm – 1:40pm
Closed Session		
CPA Part 1 Discussion	Alex Chereskin Walter Williams David Gennardo	2:00pm – 3:00pm
Topical Review of CPA Part 1	Antonios Zoulis Alex Chereskin Walter Williams David Gennardo	3:00pm – 4:00 pm
Path Forward and Next Steps	All	4:00pm – 4:30pm



Blue Energy Introduction



VICE PRESIDENT, REGULATORY AFFAIRS

CJ Fong

- 20 years at NRC
- Chief of Staff to former NRC Chairman David A. Wright
- 3 years OECD Nuclear Energy Agency in Paris



DIRECTOR OF LICENSING

Antonios Zoulis

- Over 30 years commercial and regulatory nuclear leadership experience
- Responded to Fukushima Daiichi Accident in US and Japan
- Detailed to the DHS Weapons of Mass Destruction Directorate



DIRECTOR OF ENVIRONMENTAL AND PERMITTING

Ed Miller

- Over 30 years experience in environmental management
- Managed environmental approval of Calvert Cliffs Nuclear Power Plant Unit 3 and Annova LNG
- Served as Head of Environmental Management for the Barakah Nuclear Power Plant Project



SENIOR LICENSING ENGINEER

Walter Williams

- Advanced reactor technical reviewer at NRC
- 10 years at Idaho National Laboratory on nuclear fuel and material research
- Championed Metal Fuel Qualification by trialing NUREG-2246
- DOE-NEUP Innovator of the Year for PhD work on nuclear fuels



SENIOR LICENSING ENGINEER

Alex Chereskin

- Over 10 years at the NRC
- Several technical reviewer roles
- Approximately 4 year with PPL on new nuclear project



SENIOR LICENSING ENGINEER

David Gennardo

- 10 years experience at Sargent & Lundy as licensing specialist and SME for post-fire safe shutdown analysis and PRA
- Over 5 years experience at the NRC for risk-informed licensing and as a technical reviewer



SENIOR ENVIRONMENTAL LICENSING ENGINEER

Brandon Rapp

- 16+ years of environmental engineering and regulatory leadership across complex energy and industrial projects
- SME in multimedia environmental permitting, compliance and regulatory strategy at the federal, state, and local levels



LICENSING ENGINEER

Lydia Scarberry

- Trained as reactor operator at the UMD TRIIGA reactor
- Several years nuclear physics research at the Large Hadron Collider at CERN



LICENSING ENGINEER

Jake Mitstifer

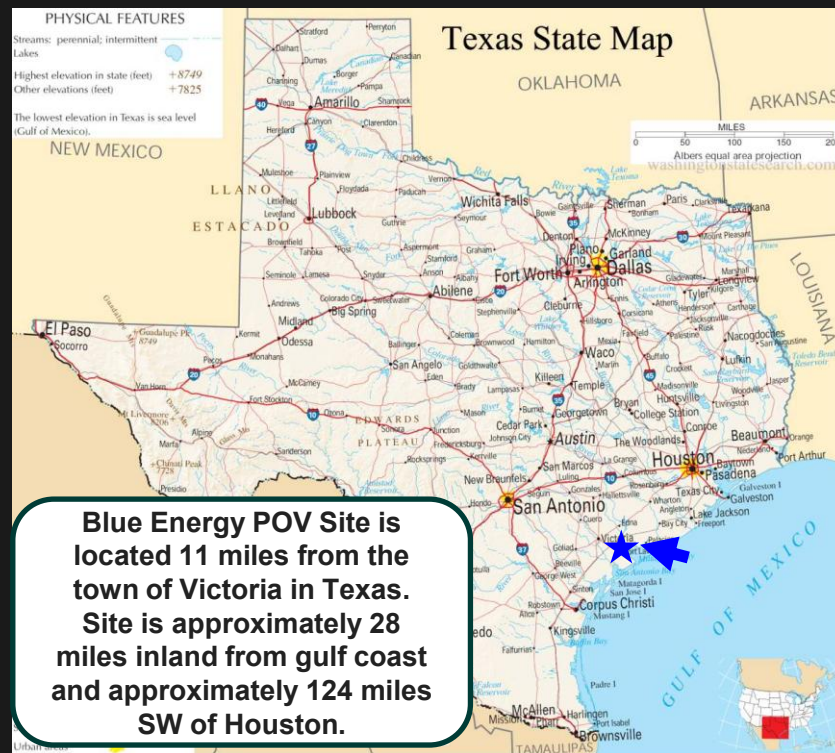
- Nuclear Engineering Undergraduate and Master's degree at University of Illinois Urbana Champaign, investigating public perception of nuclear energy and used fuel
- Interned at the NRC under the Division of Risk Assessment

Blue Energy Center - Port of Victoria Nuclear Unit 1

Goal: to build the first project-financed advanced nuclear power plant at the Port of Victoria site in Victoria County, Texas using a gas-to-nuclear (G2N) deployment

- G2N deployment pairs the BWRX-300 with proven balance-of-plant (BOP) to limit technological, financial, execution, and licensing risk while establishing a repeatable pathway for future projects
- **Phase 1:** construct and operate the combined-cycle gas turbine (CCGT) facility and the BOP
- **Phase 2:** BOP will transition to nuclear service following installation of the first BWRX-300 and a second steam turbine generator will be installed for the CCGT facility

The campus will scale to 1.2 to 1.5 GW of SMR capacity plus up to 1.1 GW of gas capacity, with a replicable framework for additional sites thereafter.



Project Location



BLUE ENERGY Site Layout





Gas-to-Nuclear (G2N) Strategy

- **Goal: demonstrate BOP maintains adequate functionality to support nuclear operations**
- Blue Energy is evaluating potential impacts of the G2N strategy
- Blue Energy will demonstrate to the NRC the nuclear plant can operate safely after transition from gas to nuclear operations
- Our planned submittals of a Limited Work Authorization (LWA), excavation supports exemption, BOP resequencing exemption and fire protection exemption serve to support this strategy



Construction Permit Application Part 1

Submittal Milestones



Regulatory Strategy and Submittals

- Two-part construction permit application (CPA) under 10 CFR 2.101(a)(9) like the precedent of Holtec Pioneer Units 1 & 2
 - **Plan to submit CPA Part 1 by September 15th, 2026**
 - Required to submit CPA Part 2 within 18 months of Part 1 (expected Q4 2027)
- CPA Part 1 will contain:
 - **General and Financial Information** – as required by § 50.33(a) through (f)
 - **Financial Qualifications Exemption** – alternative qualifications necessary to support CPA issuance
 - **Limited Work Authorization** – to authorize the installation of piles for building adjacent to the reactor shaft, including the control building, radwaste building, service building and installation of the crane pad
 - **BOP Resequencing Exemption** – to allow for early construction and operation of BOP SSCs
 - **Excavation Supports Exemption** – to allow installation of permanent diaphragm walls required for safe deep shaft excavation
 - **Fire Protection (FP) Exemption** – to allow construction of all fire protection and detection systems needed to support operation of the BOP
 - **Limited scope Environmental Report (ER) and majority of non-site specific portions of the preliminary safety analysis report (PSAR)** – which will cover, at minimum, the safety basis for aforementioned items
- Revision 3 of the Quality Assurance Topical Report will be submitted in Q4 of 2026



Requested Review Timeline

- Request CPA Part 1 be accepted and docketed by **November 30, 2026**
- Request excavation support exemption be approved by May 1, 2027
- Request BOP resequencing, FP, and financial qualification exemptions be approved by October 1, 2027
- Request LWA be approved by December 1, 2027
- Plan to request review of CPA Part 2 to be performed within one year of its acceptance