



Civil /Structural Engineering Relevant Experience



ENTRUST
SOLUTIONS GROUP

BG&E Environmental Permitting Program

Client: Baltimore Gas & Electric (BG&E)

Located throughout Maryland, the BG&E Environmental Permitting Program focuses on securing necessary permits for a variety of gas and electric infrastructure projects. For over a decade, ENTRUST has partnered with BG&E to provide design and permitting services for projects including new gas alignments, overhead transmission towers, underground electric conduits, erosion repairs, and environmental impact mitigation. The program involves navigating complex regulatory requirements across local, state, and federal levels to ensure compliance and timely project delivery.

ENTRUST provided comprehensive engineering, environmental, and permitting services to successfully meet BG&E's evolving project needs.

Key tasks included:

- Preparing engineered plans, profiles, cross-sections, calculations, and reports to support permitting requirements.
- Securing permits for gas and electric infrastructure projects including utility pole replacements, stream crossings, wetland mitigation, and floodplain impacts.
- Collaborating with BG&E's environmental staff and project managers to address multi-year phasing for gas distribution mains and electric tower replacements.
- Managing permit submissions and securing waivers and approvals from governing agencies.
- Reviewing design prints to assess jurisdictional requirements and tailor designs to meet permitting standards.
- Delivered multi-year phasing solutions for sediment control and grading permits on large-scale gas distribution and electric tower replacement projects.
- Provided expertise in NEPA studies, ecological restoration, and public involvement, ensuring compliance with jurisdictional regulations and ecological preservation.
- Utilized a dedicated multidisciplinary team of land surveyors, wetland scientists, landscape architects, and engineers to provide end-to-end permitting solutions.
- Enabled BG&E to maintain regulatory compliance and deliver projects efficiently, protecting critical infrastructure while minimizing environmental impacts.

Key Achievements

- Secured permits for over 600 individual projects, including utility pole replacements, right-of-way access road culverts, floodplain impacts, stream crossings, wetland impacts, and security fence installations.

ENTRUST enhanced operational efficiency, environmental stewardship, and safety for BG&E's gas and electric networks. By leveraging in-house expertise across civil, environmental, and infrastructure design, ENTRUST delivered cost-effective permitting solutions tailored to the unique complexities of BG&E's projects.

Complex Foundation Design for Liquid Oxygen and Nitrogen Storage Tanks

Client: Vandenberg Air Force Base, California

Located on the coastline of Southern California, the Vandenberg Air Force Base required a specialized foundation design for two 255,000-gallon storage tanks to hold liquid oxygen and liquid nitrogen. ENTRUST partnered with the base to deliver foundation design drawings and calculations, providing critical support for the installation of these large horizontal vessels, each weighing approximately 1,500 tons. In this project, ENTRUST navigated high seismicity and large-scale construction.

ENTRUST leveraged its extensive foundation and seismic design expertise to ensure the project's success under tight deadlines and complex conditions. The team worked with stakeholders and a geotechnical consultant to deliver an efficient solution tailored to the site's unique demands.

Key tasks included:

- Designing foundation plans and calculations for the storage tanks.
- Collaborating with geotechnical consultants to develop a cost-effective deep foundation system.
- Providing construction support and coordinating with the tank vendor and client.
- Addressing seismic and coastal challenges in a tight schedule.

Key Achievements

- Designed and delivered a seismic-resistant

- foundation system, successfully addressing the challenges of high seismicity and coastal conditions.
- Completed construction of the two tank foundations in 2025, meeting the project's strict timeline.
- Demonstrated unmatched responsiveness to client and stakeholder requests throughout the project duration.
- ENTRUST showcased expertise in seismic design, California Building Code compliance, and heavy foundation construction for large-scale infrastructure.
- Delivered high-value project for a non-traditional client.

