

Delivering Mission Assurance Through Resilient Engineering



Mission assurance and resiliency are the metrics – readiness is the return on investment.

Engineering Resilience for Mission Continuity

As federal priorities evolve, Black & Veatch continues to support our clients by advancing mission assurance through energy security, engineered resiliency planning, infrastructure modernization, and cybersecurity integration. Our approach aligns with Department of Defense frameworks for installation resilience, infrastructure hardening, defense readiness, and energy assurance – ensuring systems are designed for reliability, redundancy, and operational survivability under duress, adverse conditions, and disruption.

We help installations deliver secure, resilient infrastructure that withstands disruption, protects mission-critical systems, and ensures uninterrupted operations. Our disciplined framework – Planning, Validation, Design, and Execution – helps maximize the continuous ability to execute assigned missions through resilient systems and infrastructure.



We Know Federal Mission Assurance and Resiliency

Black & Veatch is a trusted advisor to the Department of Defense — delivering planning, design, construction, and commissioning services across military installations worldwide. Our services span installation resilience assessments, hardened microgrid design, and cybersecurity-integrated control systems. We implement solutions that comply with DoD, UFC standards, and RAES mission assurance criteria, delivering infrastructure that performs when it matters most.

Our team brings deep experience in Installation Development Plans (IDPs), Installation Energy Plans, Installation Water Plans, and Installation Climate Resiliency Plans. We provide DD1391 development and programming support, helping installations align projects with federal readiness, funding, and policy objectives.

With over 200 federal energy projects completed, Black & Veatch supports the full lifecycle — from planning and scoping to execution and commissioning — ensuring resilience is not only planned, but delivered.

Black & Veatch is dedicated to helping clients meet evolving mission requirements:

- Tiered resilience system design for 99.9% – 99.9999% availability targets
- Passive survivability to maintain critical operations without intervention
- Integration of microgrids, DERs, BESS, and hybrid generation for energy security
- Cybersecurity resilience built into SCADA/EMS, compliant with DFARS and RMF
- Development of mission-aligned, validated DD1391s for resilient project funding
- Strengthening and hardening of mission-critical systems and infrastructure
- Infrastructure modernization to increase uptime and ensure code compliance
- Flexible delivery via RAES, ERCIP, MILCON, UESC, and ESPC contracting pathways



Mission Assurance and Resiliency Services

- Mission-Aligned Resiliency Planning and Execution
- Installation Energy, Water and Climate Resiliency Plans
- Installation Development Plans
- DD1391 Development and Planning Validation
- Microgrids with Islanding, Black Start and Tiered Architecture
- Underground Electrical Distribution and Redundancy
- Passive Design and Survivability Engineering
- Cyber-Integrated SCADA/EMS Controls
- DERs, BESS and Fuel Flexibility for Operational Energy Security
- Power Studies, Load Tiering and Resilience Modeling
- Secure, Modernized Systems for Mission Continuity

