

FEATURED PROJECT



EMP READINESS

ASSESSMENTS:

- Types of EMP events and their potential impact on infrastructure
- Current critical infrastructure hardiness
- Critical Load Prioritization
- Disaster recovery plans and procedures
- Specification of EMP hardened infrastructure systems and hardware

RPS

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EMP Risk Assessment

CHALLENGE

A local utility had a large number of substation control house upgrades to complete over the coming years. Upon learning of the potential electromagnetic pulse (EMP) legislation, The **National Defense Authorization Act (NDAA)**, that could change the requirements for substation control houses, the utility initiated a readiness assessment to incorporate some pre-emptive measures into protecting their upcoming control houses from an EMP event.

The legislation requires all critical infrastructure participants to protect their assets from an EMP event. An EMP, also sometimes called a transient electromagnetic disturbance, is a short burst of electromagnetic energy, posing a potential threat to the Power Grid. Weapons have been developed to create the damaging effects of a high-energy EMP.

As a result of this legislation, utilities will need to protect their critical assets in order to continue operations in the event of an EMP event.

SOLUTION

The utility turned to RPS to assist in the evaluation and readiness of their critical transmission infrastructure. RPS has assembled a team of highly experienced EMP resources to help their clients understand and respond to these new demands, specify equipment on current projects that will comply with current military EMP standards and to assist in developing disaster recovery plans and procedures.

RPS provided a hardiness assessment to review their current readiness footprint. RPS was able to provide multiple engineering and equipment specifications enhancement recommendations for existing substations and control stations across the region. They also assisted in the creation of a disaster recovery plan, to comply with EMP standards. These key elements helped them comply with the new rules enacted by the NDAA and meet the national requirements to provide a more reliable supply of power in case of an EMP event.

About Us

Relay & Power Systems (RPS) is a full-service engineering and registered ISO manufacturing resource, serving industrial, commercial and utility clients who produce, deliver and consume low, medium and high voltage electrical power throughout the United States.

Relay & Power Systems, formerly **Relay Associates Inc.**, is a wholly-owned subsidiary of Rumsey Electric. Since its founding in 1895, Rumsey Electric has been a leading provider of products and services to users and consumers of power in the North Eastern United States.

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