Substation Structural Assessment

Solutions for Your Aging Steel Infrastructure

Substations contain some of the most important, expensive, and difficult-to-replace equipment on the grid. While many substation structures are mounted on concrete foundations, which provide a barrier between the structure and the corrosive influence of soil, corrosion still occurs and can be problematic. Foundations can collect water and debris, creating conditions that promote hidden corrosion activity impacting both steel and concrete. Additionally, substation structures are subject to normal wear and tear and occasional accidental damage which can also cause structural degradation.

Using a proven, systematic capital approach with advanced inspection technologies, Osmose is able to identify steel corrosion, concrete degradation, and damage that might otherwise go unnoticed. Osmose provides turnkey solutions for corrosion mitigation and structure restoration.

Osmose is an active participant in:
NACE, IEEE, NESC, SSPC, ASTM, and ASCE

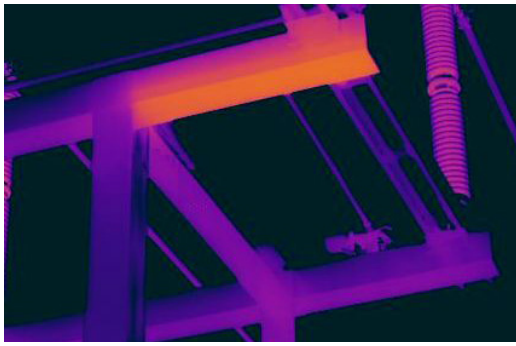
Advanced Assessment Options

Ultrasound Thickness Gauge

An ultrasonic thickness gauge is a nondestructive measurement tool used to accurately evaluate section loss in tubular structures.

Internal Borescope

Internal borescopes are inserted into tubular structures to identify unseen and latent corrosion that may have otherwise been undetected due to a lack of visible exterior corrosion.



Infrared Thermography

Infrared thermography assists in locating water pockets retained internally in structures. Areas retaining water are not only prone to corrosion activity, but when the right conditions exist, they are also vulnerable to freeze-related forces that can deform and even crack steel.

Contact your local Osmose representative or:

CALL 770.631.6995 | **EMAIL** steel@osmose.com