

Corrosion Monitoring Long-Term Monitor



KEY BENEFITS

- In-depth analysis of the turbine operating environment enables informed decision making on turbine protection.
- Recommendations are issued based on site classification and corrosion mitigation measures.
- Robust construction enables monitoring in the harshest environments.
- The CLARCOR Industrial Air Long-Term Monitor is compliant with ISO 9223–9226 standards.

Understanding Complex Environments

Gas turbines operate in some of the world's harshest environments, where airborne contaminants and corrosive particulates can challenge turbine performance. Understanding the environmental corrosivity of the air entering the turbine can be key to diagnosing turbine issues and validating that the appropriate inlet filtration system is in place. The CLARCOR Industrial Air Long-Term Monitor provides a classification or site rating of the gas turbine operating environment.

Decoding Environmental and Atmospheric Corrosivity

The Corrosion Monitoring System is a self-contained monitoring unit typically placed near the filtration system and the installed metal coupons are exposed to the elements and air entering the turbine. Once installed, this standalone system is normally left in place for one year.

An analysis of the collected coupons provides detailed data on the effects the environment has. All ambient environments are divided into six different categories of corrosion from C1 to C5m, and a site rating is assigned based on the amount of mass or thickness loss (i.e., corrosion that has taken place with reference to ISO 9223 – 9226 standards).

Ease of Use

The Long-Term Monitor is robust and self-contained, requiring no power source. The corrosion stand can be easily installed and at the end of the monitoring period the coupons are removed for return to CLARCOR Industrial Air for analysis.

Comprehensive Service

The Long-Term Monitor is supplied on an annual basis. The corrosion stand, along with the corrosion coupons, are supplied to the site and installed by experienced field engineers to deliver enhanced optimal performance and can be installed without the necessity of a plant outage. The stand is positioned outside the gas turbine and at the end of the monitoring period, the coupons are easily removed and returned to CLARCOR Industrial Air for analysis—upon which a report is generated and forwarded to our customer. The site is classified as previously referenced from C1 to C5m and specific recommendations are provided pertaining to the inlet filtration system.

Rating	Description	Typical Example
C1	Very Low	–
C2	Low	Low level pollution, mostly rural
C3	Medium	Urban, industrial, moderate SO ₂
C4	High	Industrial, coastal, moderate salinity
C5i	Very High (Industrial)	Industrial, high humidity, aggressive atmosphere
C5m	Very High (Marine)	Coastal, offshore, high salinity

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