



Integrity Operating Windows (IOWs)

Corrosion Prevention Solutions - IOW's

Presented by Ammonite Corrosion Engineering Inc.

Preventing corrosion is vital in every step in the production of Oil & Gas. Corrosion Engineers identify corrosive conditions and set operating limits for monitoring process conditions.

Integrity Operating Windows (IOWs) are incredibly important for a facility; having set limits for equipment operation can prevent excessive equipment degradation and unnecessary failures.

Ammonite Corrosion Engineering provides Facility owners with the information they need to identify what specific equipment/piping might require an IOW and how best to create and implement a proactive corrosion monitoring program.

Corrosion can be a very costly affair. Alberta has some of the largest sour gas reserves in the world. Strict regulations and guidelines have proven effective with Alberta having some of the best proven corrosion monitoring systems in the world. Ammonite has worked with clients in Alberta and around the globe

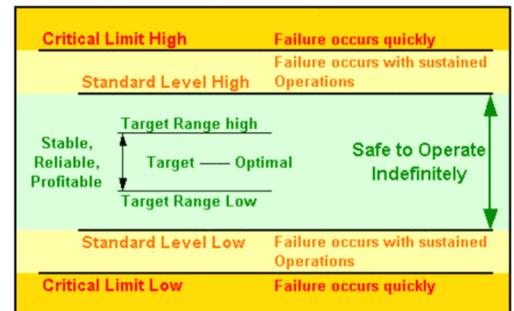
supporting corrosion monitoring programs to suit regulatory guidelines.

Ammonite can remotely access Owner facilities using a Distributed Control System (DCS) to monitor IOW's strategically pinpointed to each point of corrosion/degradation mechanisms within the facility design. We can also monitor these set points in order to further enhance our client's integrity management programs. We work closely with our clients to assess their facilities and create detailed, proactive reporting.

Our reporting is completed monthly and quarterly depending on the Clients needs. Our recommendations will identify appropriate corrosion reducing methods to ensure the longevity and efficiency of each operation.

FAST FACTS

\$41bil estimated annual direct cost of corrosion in Canada



Criticality and Consequence of Integrity Operating Windows by level (Source API RP 584).

TYPES OF IOW'S

Chemical IOW's include water content, pH, acid gas loading, inhibitor concentration, chloride levels and oxygen content.

Physical IOW's include pressure, temperature, corrosion rates, flow rates, dew points and dry points.