Predator* Resistance Corrosion Monitor (RCM)

Detection Technology Developed for the Refining Environment

Background

No single product can provide all the detection required to safely process opportunity feedstocks. So, NDT experts throughout GE went to work to complete the required suite of products necessary for true feedstock flexibility without increased risk. The result of that effort is the patented Resistance Corrosion Monitor (RCM), shown in Figure 1.

GE has a long history of Non Destructive Testing. However, to provide accurate results in a refining environment required unique properties. The testing device had to respond accurately and quickly in conditions that were:

- Hot – up to 1000ºF (538ºC)
- Corrosive
- Limited Access
- Saturated with Electronic Noise

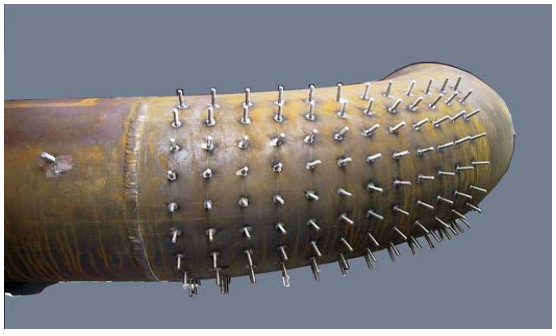

Figure 1: Resistance Corrosion Monitor

RCM Benefits

- Easily monitor critical, hot (950°F, 510°C), hard-to-reach pipe for corrosion.
- Directly measure change in wall thickness. Figure 2 shows a sample RCM report of wall thickness.
- Obtain corrosion data several times a week.
- Get localized corrosion (pitting) data at numerous points (135) in 15 min.
- Detect wall thickness changes as small as 2%.
- Detect internal corrosion without breaching pipe integrity.

The patented data collection method produces a reliable signal with 6-Sigma stability over the long term.

RCM signal processing significantly reduces the likelihood of missed corrosion and false positives.

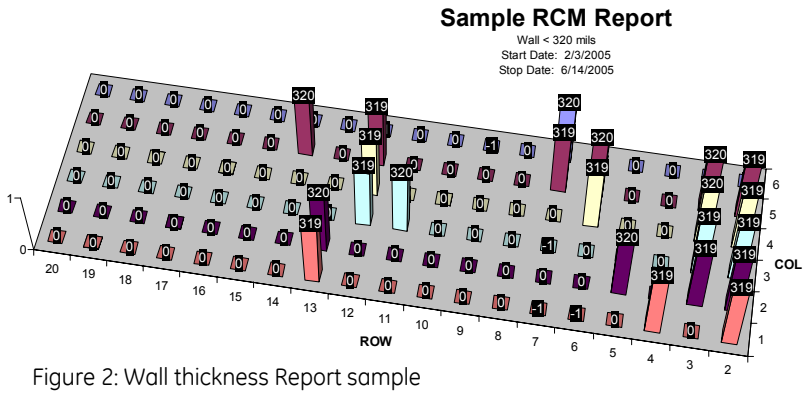

Figure 2: Wall thickness Report sample

Visit us online at www.gewater.com

Global Headquarters
Trevose, PA
+1-215-355-3300

Americas
Watertown, MA
+1-617-926-2500

Europe/Middle East/Africa
Heverlee, Belgium
+32-16-40-20-00

Asia/Pacific
Shanghai, China
+86-21-5298-4573