

Project Title: Non-Invasive Corrosion Sensor

NSWC Crane: Corrosion, sensor, heat measurement, inspection, monitoring,

NSWC Crane has developed and patented a non-invasive corrosion sensor that reliably and accurately measures heat produced during the corrosion process. This sensor detects thermal output of active corrosion and differentiates it from surrounding environmental conditions. An array of corrosion sensors would be placed during fabrication/installation in inaccessible areas of high corrosion impact as determined by prior finite element analysis. Data, in the form of current output, is collected and monitored for changing trends. Costly and time consuming invasive inspections can be scheduled based upon data collected instead of arbitrary schedules. NSWC Crane is seeking CRADA partner or licensee to adapt this technology for use in storage tanks, bridges, pipelines, and/or other infrastructure requiring corrosion inspection and monitoring.

