



## **Case History**

### **AIMS (Asset Integrity Management Services)**

### **ExxonMobil Sable**

#### **The Challenge**

EM&I was awarded a contract to manage Asset Integrity at ExxonMobil Canada's Sable Offshore Natural Gas Project, which included 7 offshore fixed leg platforms, a subsea pipeline, an onshore gas processing plant, and a buried pipeline.

The Asset Register for the Sable project held more than 5,000 piping components, two pipelines, and more than 300 pressure vessels including vessels, tanks, exchangers, hot oil heaters, and air coolers.

The ongoing integrity of the assets was extensive Corrosion Under Insulation (CUI) of piping and vessels in the harsh North Atlantic offshore environment.

#### **The Solution**

The EM&I Integrity team worked diligently to understand the client's assets, their internal corporate integrity programs, and the role of the Regulators. The team managed AIMS through several proactive and critical steps designed to address both the data management and site work components of the program.

These steps included:

- Implementation of a new inspection database to understand integrity status.
- Inputted all historical data into the new inspection database.
- Aligned the new inspection database with the existing SAP maintenance database.
- Assigned Integrity Engineers to manage and be responsible for specific items in the Asset Register.
- Conducted Risk Based Assessments (RBA's) and achieved Regulatory acceptance.
- Assessed inspection requirements.
- Developed and mobilized a multi-skilled inspection team to carry out site inspections, which reduced site downtime to <2%.
- Pioneered and implemented Real Time Radiography and Digital Radiography as inspection methods to control CUI problems, carried out on the ground and at height using industrial rope access techniques compliant with IRATA Guidelines.
- Implemented a Corrosion Monitoring and Sampling Program for unpiggable pipelines.
- Built an integrity team to manage the assets.



#### **The Outcome**

EM&I's management of the AIMS program enabled the client to continue production at their assets, safely and efficiently, for a further 11 years. At that time, decline in production due to depleted reservoirs lead to a natural conclusion of the project and ultimately full decommissioning. EM&I further provided the client with decommissioning support to ensure that the natural environments were safely returned to pre-project condition.

The acquired skill sets remain within EM&I, ready to be rolled out for other clients and global projects.