The condition of equipment is vital to safety and production. Machinery, furnaces or vessels in a deteriorating state are unpredictable, potentially loss-making and simply dangerous. A proactive, cost-effective approach to deterioration management should be a built-in feature of any integrity management strategy. It will get optimum life from equipment, avoid unforeseen failures or breakdowns and will ensure that the following requirements are satisfied: COMAH, IPPC and PUWER.

**What we offer**

ABB gives the peace of mind that known issues of deterioration have been addressed in a planned, cost-effective manner. Our approach is pragmatic and is based on extensive, first-hand knowledge and experience of many years working with key manufacturers in the chemical, petrochemical, and oil & gas industries.

Although industry generally accepts that deterioration is inevitable, we believe that deterioration mechanisms such as corrosion can be anticipated, arrested or prevented. With our approach, deterioration can be anticipated and appropriate action can be taken.

We understand deterioration mechanisms and processes across many industries. Because of this, we can help evaluate the risks and recognise where deterioration can occur: whether at the design, construction, commissioning, operation, maintenance or shutdown stages.

We can help achieve the optimum choice of materials selection and inspection technology. We bring a structured approach to deterioration management based on a combination of experience, IT support and our asset assessment methodology.

Our approach fully considers the reliability of equipment, repair time, spares lead time and the costs of outages.

The deterioration management service follows ABB’s pRIME philosophy. pRIME (process Reliability and Integrity Management Excellence) is about the asset and integrity management improvement journey; its recognising the symptoms, diagnosing the issues, and implementing improvement / treatment.

The pRIME approach is a consultancy programme supported by tried, tested, consistent and coherent methodologies and capability.
Many manufacturers drive their assets over and above the design envelope. Changes in operation, although incremental, can make a significant, cumulative difference. Our experience and operational history enables us to recognise such circumstances.

**Benefits**
- Minimised deterioration rates
- Confidence in equipment condition
- Regulatory compliance under control
- Manufacturers can operate existing equipment to achieve original design life expectancy and/or any desired asset life extension requirements
- Cost of managing deterioration optimised

**Why ABB?**
- We cover all the necessary technical areas associated with deterioration and materials
- Following pRIME means a beneficial, cost effective sustainable solution. All processes are risk based, ensuring that effort is concentrated on areas that will give the highest return. This approach is supported by a coherent set of IT tools (pRIME Toolkit), providing a consistent and efficient approach
- Our functional specialist engineers have a broad and detailed knowledge of equipment, legislation and design standards
- Specialist expertise like ABB’s is hard to find. We make it cost-effective for you to access it
- Our pragmatic approach is based on our operational heritage
- We provide pragmatic solutions, designed to work and be cost-effective in a production environment