Pipebridges are an integral and important part of any chemical plant. Their structural safety is key to the containment of chemicals. Poor maintenance or uncontrolled addition of services, leading to overloading, can result in the pipebridge collapsing. Failures may be small or large, but all may be; highly dangerous, disruptive of operations and expensive to repair. By implementing structural management programme pipebridge failures can be avoided.

What we offer
ABB Consulting provide inspection and maintenance services to ensure pipebridges are safe and fit for purpose.

The ABB approach includes:

- Visual structural assessment of pipebridge condition to determine the initial strength. This can be extended to cover detailed member inspections with corrosion measurements, combined with stress calculations to determine structural fitness for purpose.
- Expertise in selecting the most suitable and efficient ways of providing corrosion protection of pipebridges, properly matched to the required asset life.
- A pipebridge management control system which relates variables controlling the safe operation of the pipebridge, including:
  - Structural strength
  - Inspected condition
  - Load and position of live services
  - Self weight
  From this, the strength of the pipebridge and any additional capacity, can be assessed.
- Defining the strengthening and repairs required which are frequently to be undertaken with the pipebridge in operation. This may be achieved by building a new pipebridge around the old. This involves re-supporting all the existing services on the new pipebridge and then removing the old corroded pipebridge.

Benefits
- Safe, reliable pipebridge structures with confidence for plant operation
- The safe containment of hazardous chemicals within the site or pipebridge system
- Pipebridges with a known load bearing capacity
- Knowledge of the available capacity for extra pipes and services

Why ABB?
Our team of experienced specialists with operational heritage will use their experience to make pragmatic technical judgements and offer solutions that are cost effective.
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ABB Consulting provides technical and engineering services to improve performance in the areas of compliance, operations and engineering to customers in the chemical, petrochemical, oil & gas, power, pharmaceuticals, metals and consumer industries worldwide.