

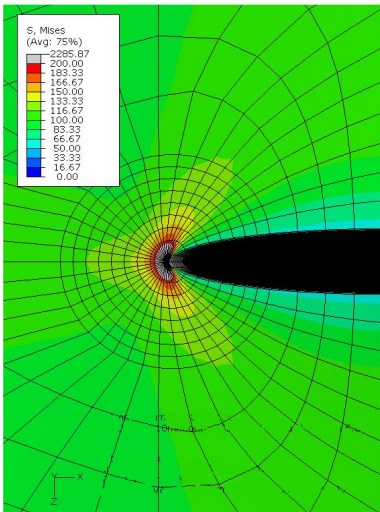
Failure Investigation



Structural Integrity

Occasional failure is a fact of life. What is important is to learn from these failures in order to ensure that they do not reoccur and that steps are put in place to recover from such failures in the most effective way.

Vectra's experienced engineers can help in the process of recovery from an unplanned failure of integrity in a number of ways.



SERVICES AND EXPERTISE

The first stage following any failure is to carry out a detailed and comprehensive forensic investigation in order to identify the root cause of the failure. It is vital to ensure that important evidence of what went wrong is not lost in the immediate aftermath of the incident. We can provide an immediate response investigation team, combining metallurgical, process and engineering assessment capabilities, to coordinate investigation activities and liaise with the HSE and other regulatory bodies, to ensure that the investigation runs smoothly, and comes to appropriate conclusions.

Only once the facts have been established, can recovery and prevention plans can be put in place. Once again, Vectra's multi-disciplinary scientists and engineers are able to provide clients with the necessary assistance to get up and running again as quickly and efficiently as possible.

We operate at all levels in an organisation and across a range of disciplines, such that we can advise both in respect of specific incidents but also on a broader level relating to similar equipment across your business.

We are able to provide the following services:

- Inspection and examination of failed, affected or associated components
- Metallurgical investigation including on-site and laboratory replica and sample examination
- Engineering assessment of operating parameters, design features and condition
- Process review to ascertain how conditions for failure were achieved
- Fitness for Service and Remnant life assessment
- Design of appropriate repair and improvement schemes to prevent future incidents and mitigate consequences
- Specification of appropriate mitigation and improvement measures
- Justification for return to service and liaison with regulatory bodies including HSE and NII
- Inspection planning (using Risk Based and Non-intrusive methodologies as appropriate)

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We are committed to finding quality solutions through a service which has BS EN ISO 9001: 2000 certification.

