

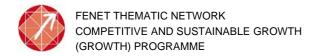
Industry Sector	RTD Thematic Area	Date	Deliverable Nr
Power & Pressure		13-Nov-01	

FENET 1st Annual Workshop

12-13 November 2001 Weisbaden, Germany

Power & Pressure Systems
Summary Report by the Coordinators

Nawal Prinja, NNC Limited lain Davidson, DTLR







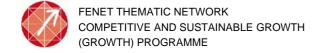
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Power & Pressure Systems

- High integrity pressure vessels and containments for nuclear power sector
- Industrial pressure vessels
- Piping systems (HP and LP)
- Steel, reinforced concrete and composites (GFRP)

FEA routinely used and fully integrated in the development process

Technology Readiness Level 8 or 9 in most of the areas



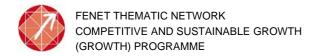




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Technical Issues

- How to satisfy the regulatory bodies
- Modelling issues
 - Bolts, seals, connections
- Validation & verification
- Promote and improve the Design by Analysis manual
- Use of probabilistic methods
- Life extension- Fracture mechanics







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Proposed Workshop Topics

- 1. Regulators view on the use of FEA
- 2. Benchmarks for validation & verification
- 3. Design by Analysis





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Technology Matrix

Design-by-Analysis Education &

Dissemination

Sensitivity Studies Product & System

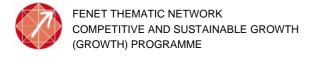
Optimisation

Life Extension Durability & Life

Extension

Multi-Physics

Fluid/structure interaction







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End

