

Reference No: CABF-R-050	Conformity Assessment Bodies Forum PED/SPVD (CABF) CABF
Relation to PED: PED Annex I, No. 2.2.3	CABF Recommendation
Question:	Does the PED have requirements on the content of a FEA/FEM report?
Answer:	No, there are no specific requirements for a FEA/FEM report. Annex I, No. 2.2.3 a) states that there are 3 calculation methods for determining the allowable stresses for the vessel. Annex I, No. 2.2.3 b) requires that appropriate design calculations shall be used. To be able to verify that an item of pressure equipment is capable of withstanding the loads / actions (forces, temperature, time, e.g.) it will be exposed to, the CAB conducting the conformity assessment must receive sufficient information and appropriate calculations to verify the FEA/FEM is performed correctly.
Reason:	EN13445-3 Annexes B (DBA- Direct Route) & C (DBA – Method based on stress categories) have requirements on the calculations to be performed. There are no requirements for the information in the report itself. A typical report must include sufficient information to allow the CAB to verify the FEA/FEM results. The minimum information is likely to include: • Summary of the scope including loads / actions (forces, temperature, time, e.g.) • Software name and version used • Analysis type • Mesh size and refinement • Material properties • Convergence and analysis of the results • Conclusion and comment on output If annex B is used, reference to § B.5 Methodology should be made. If Annex C is used, reference should be made to table C-3 (EN 13445-3).
Original Reference:	TRG 134 Rev 5
Approved by CABF on: 2025-07-01/02	
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