


Technical Documentation / ESRs for CE Marking of Pressure Equipment			
Manufacturer:	A Company Ltd	Technical File No.:	1234/TF/1
Pressure Equipment:	Pressure Vessel	Rev No.:	1
		Job No.:	1234



Design / Operating Conditions			
Pressure:	MAP	25 bar(g)	
Temperature:	MAT	100°C	Min T -10°C

Drawings and Diagrams		
Document No.	Rev No.	Description
1234/A1/1	1	General Arrangement
1234/A1/2	1	Materials List
1234/A1/3	1	Nameplate
1234/A1/4	1	Lifting Lugs

Calculations / Test Results			
Document No.	Rev No.	Method	Description
1234/C/1	1	Finglow Software	Code calculation
1234/C/2	1	Manual	Test pressure
1234/C/3	1	Manual	Lifting Loads

Description for Understanding of Drawings
<i>e.g. Provide any descriptions, explanations necessary to understand the drawings and calculations. This may include justifications for adopting certain principles.</i>

Potential Hazards Due to Pressure	
Potential Loadings:	<i>e.g. Internal pressure, External pressure, Weight of equipment and contents, Superimposed loads, Supports and their attachment, Cyclical and dynamic reactions, Wind or Seismic loads, Impact reactions, Thermal gradients and expansion, etc...</i>
Possible Failure Modes:	<i>e.g. Brittle fracture, Overload, Plastic instability, Hydrogen induced cracking, Fatigue, Corrosion fatigue, Stress Corrosion Cracking, Inter-granular corrosion/Weld decay, Creep, Over heating, Corrosion General/pitting, Erosion, Cavitation, Lamellar tearing, Ageing, etc...</i>

Issuing Authority: Paul Ward	Document ID:
Issue Date: May 2007	Rev: 0
	Document Location:
© 2007 TÜV UK Ltd	Page 1 of 5
	Uncontrolled when printed

Technical Documentation / ESRs for CE Marking of Pressure Equipment			
Manufacturer:	A Company Ltd	Technical File No.:	1234/TF/1
Pressure Equipment:	Pressure Vessel	Rev No.:	1
		Job No.:	1234




Operating Conditions:	<i>e.g. Variability of loadings, Frequency of start up and shut down, Conditions of use, In-service supervision of the equipment, In-service inspection of the equipment, Complexity of the equipment, Envisaged working life of the equipment, Failure of internal components, etc...</i>
Foreseeable Misuse:	<i>e.g. incorrect installation, exceeding maximum operating conditions, etc...</i>
Other Relevant Directives:	<i>e.g. Machinery, EMC, LVD, ATEX, etc</i>

EXAMPLE

Issuing Authority: Paul Ward	Document ID:
Issue Date: May 2007	Rev: 0
© 2007 TÜV UK Ltd	Document Location:
Page 2 of 5	Uncontrolled when printed

Technical Documentation / ESRs for CE Marking of Pressure Equipment			
Manufacturer:	A Company Ltd	Technical File No.:	1234/TF/1
Pressure Equipment:	Pressure Vessel	Rev No.:	1
		Job No.:	1234



Who is The Responsible Person For	
Hazard Analysis:	
Design For Adequate Strength:	
Operational Design:	
Safety Design:	
Material Selection:	
Manufacture & Testing:	
Overall Manufacturer's Responsible Person:	

Identify who (organization) has been responsible for the following activities. In order to sign the Declaration of Conformity, The Responsible Person must have personal knowledge of all these activities or be in possession of certified information from the persons responsible.


Hazard Category	
Nature of Fluid Gas/Liquid:	Gas
If Liquid, is Vessel Fully Flooded at All Times:	NA
Fired/Heated, Steam, S/heated Water>120°C	NA
Fluid Group – Dangerous 1, Others 2:	1
Pressure Bar:	25
Volume/DN:	250
Table No.:	1
Hazard Category:	IV

Conformity Assessment Module				
Category	Conventional Inspection		Quality Assurance	
	Single Prod	Mass Prod	Single Prod	Mass Prod
I	A	A*		
II	A1	A1*	D1 or E1	D1 or E1
III	B1+F	B+C1	B1+D or H*	B+E or H*
IV	G	B+F	H1	B+D
Conformity Assessment Module			G	
Global Conformity of Assembly			Not Applicable	
Application to Notified Body			Submitted 17th March 2006	

* One off production of vessels and equipment in Category III, referred to in Article 3 § 1.2 (fired or otherwise heated pressure equipment) manufactured under Module H, the Notified Body performs the final assessment. (Ref. Article 10 § 1.6)

Issuing Authority: Paul Ward	Document ID:
Issue Date: May 2007	Rev: 0
Document Location:	
© 2007 TÜV UK Ltd	Page 3 of 5
Uncontrolled when printed	

Technical Documentation / ESRs for CE Marking of Pressure Equipment			
Manufacturer:	A Company Ltd	Technical File No.:	1234/TF/1
Pressure Equipment:	Pressure Vessel	Rev No.:	1
		Job No.:	1234



Harmonized Standards Used in Full or Part		
Standard No.	Issue	Applicable to
<i>List all harmonized PRODUCT standards used for the design, manufacture and test of pressure equipment</i>		

Design (Solutions Adopted)			
Essential Safety Requirement			Applicability/Solutions
Scantling Design	2.2	Design For Adequate Strength	Use calculation procedure from ASME VIII Div 1
	2.6	Corrosion & Chemical Attack	1mm corrosion allowance
	2.7	Wear	NA
	7.1	Within Max Membrane Stress	Yes, see calculations
	7.2	Joint Efficiencies	85% used
	7.4	Hydro-Test Pressure	35.75 barg (as PED)
	7.5	Material Characteristics	As per ASME VIII Div 1 (See PMA's)
Operational Design	2.3	Safe Handling & Operation	Suitable equipment fitted (See Drg 1234/A1/4)
	2.4	Means of Examination	Head hole fitted (See Drg 1234/A1/1)
	2.5	Draining & Venting	Drain and vent points fitted (See Drg 1234/A1/1)
	2.9	Filling & Discharge	Stable and with suitable accessories
	3.4	Operating Instruction	Attached
Safety Design	2.10	Protection Against Exceeding Allowable Limits	Suitable protection devices must be selected and installed by the End User and subject to Global Conformity Assessment
	2.11 / 7.5	Pressure Not Exceeds 1.1 PS	As 2.10 above
	2.12	External Fire	Not identified as a hazard
Manufacturing	3.1	Manufacturing Procedures	Quality System approved to ISO 9001
	3.1.1 / 2	In-Process Inspections	As Quality Plan 1234/QP/1
	3.1.4	Heat Treatment	Not required
	3.1.5	Material Traceability	Quality Procedure QA/M/1
	3.2.1	Internal / External Examinations	Quality Procedure QA/E/1
	3.2.2	Proof Test	Quality Procedure QA/PT/1
	3.3	Marking & Labelling	Drg 1234/A1/3

Issuing Authority: Paul Ward	Document ID:
Issue Date: May 2007	Rev: 0
© 2007 TÜV UK Ltd	Document Location:
Page 4 of 5	Uncontrolled when printed

Technical Documentation / ESRs for CE Marking of Pressure Equipment			
Manufacturer:	A Company Ltd	Technical File No.:	1234/TF/1
Pressure Equipment:	Pressure Vessel	Rev No.:	1
		Job No.:	1234



Fired Equipment	5	Specific Requirements For Fired Equipment	NA
Piping	6	Specific Requirements For Piping	All attached piping to be designed such that imposed loadings do not exceed the limits set in calculations (1234/C/1)
Approval by Notified Body			

Joining Approvals		
Procedures:	Tested to EN 288	<i>List of Weld Procedures used....</i>
Personnel:	Tested to EN 287	<i>List of Welder ID's....</i>
Properties of Base Materials:	Impacts?	Exempt per UCS 66 (See PMA's)
PQR & WPS Approved by NoBo (Cats II, III & IV)		Notified Body No.

NDE			
Personnel NDE Approvals for (Cats III & IV)	RT	RTPO Approved	<i>Names of Personnel</i>
	UT		NA (if not used)
	MT		<i>Names of Personnel</i>
	PT		NA (if not used)

Comments
<p><i>Page: 5</i> <i>Provide details of any sub-contracting to be carried out and details of (CE marking) pressure equipment to be purchased from others and incorporated into the assembly</i></p>

Signed:		Date:	
Position:			

Issuing Authority: Paul Ward	Document ID:
Issue Date: May 2007	Rev: 0
Document Location:	
© 2007 TÜV UK Ltd	Page 5 of 5
Uncontrolled when printed	