4.19.2 U.S. Customary Form Specification Sheet For ASME Section VIII, Division 2 Bellows Expansion Joints, U.S. Customary Units						
Date:/_	Applicable ASME Code Edition:					
		Vessel Class	:			
1. Item Number:	Vessel Manufacturer:					
2. Drawing/Tag/Serial/Job	Vessel Owner:					
3. Quantity:		Installation Location:				
4. Size:OD	Expansion Joint Overall Length:			in.		
5. Internal Pressure: Design psig						
6. External Pressure: Design psig						
7. Vessel Manufacturer Hydrotest Pressure		Internal	psig	External	psig	
8. Temperature	Design °F	Operating	°F	Upset °	F	
9. Vessel Rating	MAWP psig	MDMT	°F	Installed Position:	Horz. Vert.	
10. Design Movements [Note (1)]: Axial Compression: (-) in. Axial Extension: (+) in. Lateral: in. Angular: deg 11. Specified Number of Cycles:						
12. Design Torsion: Momer	or	Twist	Angle:	deg		
13. Shell Material: Bellows Material:						
14. Shell Thickness: in. Shell Corrosion Allowance: Internal: in. External: in.						
15. Shell Radiography: Spot Full						
16. End Preparation: Square Cut Outside Bevel Inside Bevel Double Bevel (Describe in Line 24 if special)						
17. Heat Exchanger Tube Length Between Inner Tubesheet Faces: in.						
18. Maximum Bellows Spr	No Yes –	lo Yes –Ib/in.				
19. Internal Liner:	No Yes –	No Yes – Material				
20. Drain Holes in Liner:	No Yes –	lo Yes – Quantity/Size:				
21. Liner Flush with Shell ID:		No Yes –	No Yes – Telescoping Liners? No Yes			
22. External Cover:		No Yes –	No Yes – Material:			
23. Pre-Production Approv	No Yes –	Yes – Drawings/Bellows Calculations/Weld Procedures				
24. Additional Requirement	ts (i.e., bellows pre-set, ultrasor	nic examination, etc.	.):			

NOTE:

(1) For multiple movements, design movements (line 10) can be replaced by operating movements, which should then be described under "Additional Requirements" (line 24). For each one of them, axial compression or axial extension, lateral deflection and angular rotation at each extremity of cycle, together with the specified number of cycles, should be indicated. When known, the order of occurrence of the movements should also be indicated.