FORM UEB-1 SPECIFICATION SHEET FOR ASME SECTION VIII, DIVISION 1 PART UEB BELLOWS EXPANSION JOINTS

Date _____ / _____ / _____ Applicable ASME Code Edition _____

1. Item Number _____ Vessel Manufacturer _____
2. Drawing/Tag/Serial/Job Number _____ Vessel Owner _____
3. Quantity _____ Installation Location _____
4. Size _____ O.D. _____ I.D. in. Expansion Joint Overall Length _____ in.

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5. Internal Pressure: Design _____ psig
6. External Pressure: Design _____ psig
7. Vessel Manufacturer Hydrotest Pressure: Internal _____ psig External _____ psig

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8. Temperature: Design _____ °F Operating _____ °F Upset _____ °F
9. Vessel Rating: MAWP _____ psig MDMT _____ °F Installed Position: Horiz. ☐ Vert. ☐

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10. Design Movements [Note (1)]:
    Axial Compression (–)_____in. Axial Extension (+) _____in. Lateral _____in. Angular_____deg
11. Specified Number of Cycles _____
12. Design Torsion: Moment _____ in.-lb or Twist Angle _____ deg

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13. Shell Material _____ Bellows Material_____
14. Shell Thickness _____ in. Shell Corrosion Allowance: Internal_____ in. External_____ in.
15. Shell Radiography: ☐ None ☐ 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.

(07/25)

FORM UEB-1 SPECIFICATION SHEET FOR ASME SECTION VIII, DIVISION 1 PART UEB BELLOWS EXPANSION JOINTS (Cont'd)

18. Maximum Bellows Spring Rate: ☐ N ☐ Y - _____ lb/in.
19. Internal Liner: ☐ N ☐ Y - Material _____
20. Drain Holes in Liner: ☐ N ☐ Y - Quantity/Size _____
21. Liner Flush With Shell I.D.: ☐ N ☐ Y - Telescoping Liners? N ☐ Y ☐
22. External Cover: ☐ N ☐ Y - Material _____
23. Preproduction Approvals Required: ☐ N ☐ Y - Drawings / Bellows Calculations / Weld Procedures

24. Additional Requirements (e.g., bellows preset, ultrasonic inspection):

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.