FORM QEXP-2 SUGGESTED FORMAT FOR TUBE-TO-TUBESHEET EXPANDING PROCEDURE QUALIFICATION RECORD FOR TEST QUALIFICATION (TEPQR)

Company name	
Procedure Qualification Record no.	Date
TEPS no.	
Expanding process(es) (Rolling, hydroexpanding, explosive expanding, hybrid expanding)	Driver types (Electric, air-driven, hydraulic, other)
Expanded tube length (If there is a gap in the expanded zone, record the total expanded length)	Tube pitch
Joints (HH-7)	
Sketch of Te	st Array
Tubesheet Material(s) Material spec.	ype or grade
	ole diameter and pitch arrangement
No. and location of joints to be tested	
No. and description of annular grooves	
Hole surface finish	
Yield stress (from mill test report)	
Other	
Testing Apparatus (Manufacturer, type, calibration date)	
Rate of loading to avoid impact [Maximum '12 in, (13 mm) per minute]	
Tube Material(s) Material spec.	ype or grade
Hole surface finish	
Yield stress (from mill test report)	
Other	

FORM QEXP-2 (Back) Shear Load Test (See Appendix A, Fig. A-3)

Position in Array	Diameter	Thickness	Cross-Sectional Area	Test Temp.	L, (test)	Manner of Failure
Position in Array	Diameter	Thickness	Cross-Sectional Area	Ambient Temp.	L2 (test)	Manner of Failure,
	Array Position in	Array Diameter Position in Diameter	Position in Diameter Thickness	Position in Diameter Thickness Area Position in Diameter Thickness Cross-Sectional	Position in Diameter Thickness Area Test Temp.	Array Diameter Thickness Area Test Temp. 2, (test) Position in Diameter Thickness Cross-Sectional Ambient (2)(test)

Mean value of <i>L,</i> (test).	Mean value of L2 (test)		
Standard deviation.	Standard deviation	Satisfactory (see Appendix A, A-5)	
f, (test) (see Appendix A, A-4		_	
Operator's name		Clock no	
f, (test) (see Appendix A, A-4		_	
	Manufacturer		
Date	Ву		
Remarks:			