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

Company name	
Procedure Qualification Record number	Date
TEPS no	
Expanding process(es)	Driver types
Expanded tube length	Tube pitch
Joints (HH-7)	

Sketch of Test Array					
Tubesheet Material(s)					
Material spec	Type or grade				
Diameter and thickness of test specimen	Hole 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 ¹ / ₂ in. (13 mm) per minute]					
Tube Material(s)					
Material spec	Type or grade				
Diameter and thickness (min./avg.)					
Yield stress (from mill test report)					
Other					

FORM QEXP-2 (Back)

				ee Appendix A	, i ig. A-3/		
Tube No.	Position in Array	Diameter	Thickness	Cross-Sectional Area	Test Temp.	L ₁ (test)	Manner o Failure
	Position in			Cross-Sectional	Ambient		Manner d
Tube No.	Array	Diameter	Thickness	Area	Temp.	L ₂ (test)	Failure
Mean valu	e of L_1 (test) _		Mean va	lue of L ₂ (test)			
Standard c	leviation		Standard dev	iation	Satisfact	ory	
						pendix A, A-5)	
f_r (test) (se	e Appendix A,	A-4)			_		
Operator's	name				Clock no		
			Manufactur	er			
Date			- 1	Ву			

Shear Load Test (See Appendix A, Fig. A-3)