



Ultrasonic Thickness Test

Vessel Lines

Date	7-20-2015				Customer	FMC TECHNOLOGIES			
Unit #	LH-0033				Job #	12937			
Description of Work: UT Line Heater Coils									
	Description	Dia.	Schedule	Nom.	Min.				
P	Straight Joint	3"	XXH	1.000"	.600"	Ref. 1	Ref. 2	Ref. 3	Ref.
						1.036	1.034	1.034	.
P	Elbow	3"	XXH	1.000"	.600"	Ref. 1	Ref. 2	Ref.	Ref.
						2.547	1.954	.	.
P	Elbow	3"	XXH	1.000"	.600"	Ref. 1	Ref. 2	Ref.	Ref.
						1.642	1.638	.	.
P	Straight Joint	3"	XXH	1.000"	.600"	Ref. 1	Ref. 2	Ref.	Ref.
						1.018	1.010	.	.
P	Elbow	3"	XXH	1.000"	.600"	Ref. 1	Ref. 2	Ref.	Ref.
						1.866	2.537	.	.
P	Elbow	3"	XXH	1.000"	.600"	Ref. 1	Ref. 2	Ref.	Ref.
						1.685	2.555	.	.
P	Straight Joint	3"	XXH	1.000"	.600"	Ref. 1	Ref. 2	Ref.	Ref.
						1.003	1.016	.	.
P	Elbow	3"	XXH	1.000"	.600"	Ref. 1	Ref. 2	Ref.	Ref.
						1.653	1.964	.	.
P	Elbow	3"	XXH	1.000"	.600"	Ref. 1	Ref. 2	Ref.	Ref.
						2.518	1.876	.	.
P	Straight Joint	3"	XXH	1.000"	.600"	Ref. 1	Ref. 2	Ref.	Ref.
						1.026	1.026	.	.
P	Elbow	3"	XXH	1.000"	.600"	Ref. 1	Ref. 2	Ref.	Ref.
						2.513	2.528	.	.
P	Elbow	3"	XXH	1.000"	.600"	Ref. 1	Ref. 2	Ref.	Ref.
						1.646	1.836	.	.
P	Straight Joint	3"	XXH	1.000"	.600"	Ref. 1	Ref. 2	Ref.	Ref.
						1.003	1.046	.	.
P	Elbow	3"	XXH	1.000"	.600"	Ref. 1	Ref. 2	Ref.	Ref.
						2.566	1.826	.	.
P	Elbow	3"	XXH	1.000"	.600"	Ref. 1	Ref. 2	Ref.	Ref.
						1.630	2.513	.	.
P	Straight Joint	3"	XXH	1.000"	.600"	Ref. 1	Ref. 2	Ref.	Ref.
						1.003	1.007	.	.
P	Elbow	3"	XXH	1.000"	.600"	Ref. 1	Ref. 2	Ref.	Ref.
						1.788	1.687	.	.
P	Elbow	3"	XXH	1.000"	.600"	Ref. 1	Ref. 2	Ref.	Ref.
						1.809	1.753	.	.
P	Straight Joint	3"	XXH	1.000"	.600"	Ref. 1	Ref. 2	Ref.	Ref.
						1.043	1.034	.	.
P	Elbow	3"	XXH	1.000"	.600"	Ref. 1	Ref. 2	Ref.	Ref.
						2.561	1.876	.	.
P	Elbow	3"	XXH	1.000"	.600"	Ref. 1	Ref. 2	Ref.	Ref.
						1.646	1.832	.	.
P	Straight Joint	3"	XXH	1.000"	.600"	Ref. 1	Ref. 2	Ref. 3	Ref.
						1.008	1.035	1.006	.
P		3"	XXH	1.000"	.600"	Ref.	Ref.	Ref.	Ref.
P		3"	XXH	1.000"	.600"	Ref.	Ref.	Ref.	Ref.
P		3"	XXH	1.000"	.600"	Ref.	Ref.	Ref.	Ref.



Ultrasonic Thickness Test

Vessel Lines

Date	7-20-2015					Customer	FMC TECHNOLOGIES			
Unit #	LH-0033					Job #	12937			
Description of Work: UT Line Heater Coils										
	Description	Dia.	Schedule	Nom.	Min.					
P	Straight Joint	3"	XXH	1.000"	.600"	Ref. 1 1.027	Ref. 2 1.072	Ref. 3 1.007	Ref. .	
P	Elbow	3"	XXH	1.000"	.600"	Ref. 1 1.658	Ref. 2 2.571	Ref. .	Ref. .	
P	Elbow	3"	XXH	1.000"	.600"	Ref. 1 1.655	Ref. 2 1.815	Ref. .	Ref. .	
P	Straight Joint	3"	XXH	1.000"	.600"	Ref. 1 1.048	Ref. 2 1.078	Ref. .	Ref. .	
P	Elbow	3"	XXH	1.000"	.600"	Ref. 1 2.553	Ref. 2 1.662	Ref. .	Ref. .	
P	Elbow	3"	XXH	1.000"	.600"	Ref. 1 2.565	Ref. 2 1.791	Ref. .	Ref. .	
P	Straight Joint	3"	XXH	1.000"	.600"	Ref. 1 1.019	Ref. 2 1.062	Ref. .	Ref. .	
P	Elbow	3"	XXH	1.000"	.600"	Ref. 1 2.559	Ref. 2 1.891	Ref. .	Ref. .	
P	Elbow	3"	XXH	1.000"	.600"	Ref. 1 1.072	Ref. 2 1.879	Ref. .	Ref. .	
P	Straight Joint	3"	XXH	1.000"	.600"	Ref. 1 1.035	Ref. 2 1.047	Ref. .	Ref. .	
P	Elbow	3"	XXH	1.000"	.600"	Ref. 1 1.689	Ref. 2 1.896	Ref. .	Ref. .	
P	Elbow	3"	XXH	1.000"	.600"	Ref. 1 2.554	Ref. 2 1.646	Ref. .	Ref. .	
P	Straight Joint	3"	XXH	1.000"	.600"	Ref. 1 1.010	Ref. 2 1.026	Ref. .	Ref. .	
P	Elbow	3"	XXH	1.000"	.600"	Ref. 1 2.578	Ref. 2 1.653	Ref. .	Ref. .	
P	Elbow	3"	XXH	1.000"	.600"	Ref. 1 2.538	Ref. 2 1.756	Ref. .	Ref. .	
P	Straight Joint	3"	XXH	1.000"	.600"	Ref. 1 1.026	Ref. 2 1.024	Ref. .	Ref. .	
P	Elbow	3"	XXH	1.000"	.600"	Ref. 1 2.566	Ref. 2 1.619	Ref. .	Ref. .	
P	Elbow	3"	XXH	1.000"	.600"	Ref. 1 2.542	Ref. 2 1.676	Ref. .	Ref. .	
P	Straight Joint	3"	XXH	1.000"	.600"	Ref. 1 1.008	Ref. 2 1.062	Ref. .	Ref. .	
P	Elbow	3"	XXH	1.000"	.600"	Ref. 1 2.547	Ref. 2 1.656	Ref. .	Ref. .	
P	Elbow	3"	XXH	1.000"	.600"	Ref. 1 2.554	Ref. 2 1.785	Ref. .	Ref. .	
P	Straight Joint	3"	XXH	1.000"	.600"	Ref. 1 1.045	Ref. 2 1.087	Ref. 3 1.046	Ref. .	
P		3"	XXH	1.000"	.600"	Ref. .	Ref. .	Ref. .	Ref. .	
P		3"	XXH	1.000"	.600"	Ref. .	Ref. .	Ref. .	Ref. .	
P		3"	XXH	1.000"	.600"	Ref. .	Ref. .	Ref. .	Ref. .	