

## References

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## Appendix (A)

 <b>RADIOGRAPHIC INSPECTION REPORT</b>																				
Project: cement micro-cracks					Client: FLUMTEC					Contractor:										
Radiographic Data																				
Radiographic Procedure: SRT				WPS: CP006				Screen Thickness: 0.125				SFD/FFD: 102 mm				Date: 12/06-2014				
Location: Soba lap				Source Type / Strength: 20 Ci				Film Type: AA400				Exposure Time: 2MIN								
Material: concrete / cement class G				Focal spot: N/A				Film Size: 24*10 cm				Film Density: 2-4								
Thickness: 60mm		Pipe Diameter: 4" & 6"		Technique: DWSI				IQI Type: WIRE (10 FEEN)				Sensitivity: 2%				Inspection Code: ASME				
Item No.	Weld Joint Details				Type Of Weld Defects												Result		Remarks	
	Line No.	Joint No.	Concrete	Film Position	P	CP	SI	BT	IP	IF	IC	EU	IU	C	TI	NSD	Acc	Rej		
1	Sample 1	1	Concrete																	
				0 ----24												3				√
2	Sample 2	2	Concrete																	
				0 ----24												5				√
3	Sample 3	3	Concrete																	
				0 ----24												5				√
4	Sample 4	4	Concrete																	
				0 ----24												4				√
5	Sample 5	5	Concrete																	
				0 .....24												3				√
<p>(1) P = Porosity (2) CP = Cluster Porosity (3) BT = Burn Through (4) SI = Slag Inclusion (5) IP = Lack Of Penetration (6) IF = Lack Of Fusion (7) IC = Internal Concavity (8) EU = External Under Cut</p> <p>(9) C = Crack (10) TI = Tungsten Inclusion (11) IU = Internal Under Cut (12) NSD = No Significant Defect (13) Acc = Accept (14) Rej = Reject</p>																				
RADIOGRAPHERS:				INTERPRETED BY:				QA/QC ENGINEER				OWNER REPRESENTATIVE								
SIGNATURE:				SIGNATURE				SIGNATURE:				SIGNATURE:								
NAME: Ahmed Ismail				NAME: Mohamed basher				NAME: Babiker Awad alla Hassan				NAME: sust students								
DATE: 12/6/2014				DATE: 12/6/2014				DATE: 12/6/2014				DATE: 12/6/2014								