

**Attachment - I**

**Table I: Fitness for service calculations performed by Enbridge at NTSB's request using Corrosion, crack and tool tolerance data**

Analysis Year	Run #	Wall thickness (in)	Length CorLAS (in)	Crack Depth (in)	Stress profile	Length for FlawCheck (in)
2005	1	0.252	51.6	0.091	2005 Q4	5.499090834
	2	0.252	51.6	0.111	2005 Q4	5.499090834
	3	0.252	51.6	0.126	2005 Q4	5.499090834
	4	0.252	51.6	0.146	2005 Q4	5.499090834
	5	0.252	51.6	0.123	2005 Q4	5.499090834
	6	0.252	51.6	0.143	2005 Q4	5.499090834
	7	0.252	51.6	0.158	2005 Q4	5.499090834
	8	0.252	51.6	0.178	2005 Q4	5.499090834
2007	7	0.25	51.6	0.083	2005 Q4	5.477225575
	8	0.25	51.6	0.108	2005 Q4	5.477225575
	9	0.25	51.6	0.118	2005 Q4	5.477225575
	10	0.25	51.6	0.143	2005 Q4	5.477225575
	11	0.25	51.6	0.096	2005 Q4	5.477225575
	12	0.25	51.6	0.121	2005 Q4	5.477225575
	12	0.25	51.6	0.131	2005 Q4	5.477225575
	12	0.25	51.6	0.156	2005 Q4	5.477225575

NTSB Run ID and Parameters						Results		
Analysis Year-Run#	Wall Thickness (in)	CorLAS Length (in)	Depth (in)	Pressure at 100% SMYS	Predicted Failure Pressure (psi)	Below 100% SMYS	Below 1.25 MOP (624*1.25 =780psi)	
2005	1	0.252	51.6	0.091	874	649	yes	
2005	2	0.252	51.6	0.111	874	572	yes	
2005	3	0.252	51.6	0.126	874	512	yes	
2005	4	0.252	51.6	0.146	874	424	yes	
2005	5	0.252	51.6	0.123	874	525	yes	
2005	6	0.252	51.6	0.143	874	437	yes	
2005	7	0.252	51.6	0.158	874	372	yes	
2005	8	0.252	51.6	0.178	874	287	yes	
2007	7	0.25	51.6	0.083	867	672	yes	
2007	8	0.25	51.6	0.108	867	575	yes	
2007	9	0.25	51.6	0.118	867	536	yes	
2007	10	0.25	51.6	0.143	867	428	yes	
2007	11	0.25	51.6	0.096	867	622	yes	
2007	12	0.25	51.6	0.121	867	525	yes	
2007	12	0.25	51.6	0.131	867	481	yes	
2007	12	0.25	51.6	0.156	867	372	yes	

Tensile Strength (psi) 66000  
 Flow Stress (psi) 59000  
 Flaw Location External  
 Outside Diameter (in) 30  
 Crack Shape Rectangular  
 Charpy Toughness (ft-lbs) 20