

# Mechanical Damage Characterization - Existing Technology

		<b>Coating</b> holidays, disbondment	<b>Confidence Level</b>	<b>Denting</b> smooth dents, sharp dents, rerounding, top side-bottom side	<b>Confidence Level</b>	<b>Metal Loss</b> associated corrosion, removed metal	<b>Confidence Level</b>	<b>Metal Deformation</b> smeared metal, scrapes, pipewall creasing	<b>Confidence Level</b>	<b>Cracking</b> shear cracks, ductile tearing, fatigue cracks, SCC	<b>Confidence Level</b>
<b>Liquid</b>	1	DCVG/ACVG	M	1 ILI Hi-Res Geometry tool	M	1 RSTRENG	H	1 Direct visual examination	H	1 CorLAS	M
	2	AC current attenuation survey	M	2 Direct visual examination	H	2 DNV RP F101	H	2 API RP 579	M	2 API RP 579	M
	3			3 API RP 579	M	3 CorLAS	M	3		3 NG-18 In-secant Formula	M
	4			4 Visual w/Finite Element Analysis	M/H	4 API RP 579	M	4		4 PAFFC Pipe Axial Flaw Failure Criterion	M
	5			5		5		5		5 Level 2 Strip Yield Model	M
	6			6		6		6		6	
<b>Gas Transmission</b>	1	DCVG/ACVG	M	1 ILI Hi-Res Geometry tool	M	1 RSTRENG	H	1 Direct visual examination	H	1 CorLAS	M
	2	AC current attenuation survey	M	2 Direct visual examination	H	2 DNV RP F101	H	2 API RP 579	M	2 API RP 579	M
	3			3 API RP 579	M	3 API RP 579		3		3 NG-18 In-secant Formula	M
	4			4		4		4		4 PAFFC Pipe Axial Flaw	M
	5			5		5		5		5 Level 2 Strip Yield Model	M
	6			6		6		6		6	
<b>Gas Distribution (Steel)</b>	1	DCVG/ACVG	M	1 ILI Hi-Res Geometry tool	M	1 RSTRENG	H	1 Direct visual examination	H	1 CorLAS	M
	2	AC current attenuation survey	M	2 Direct visual examination	H	2 DNV RP F101	H	2 API RP 579	M	2 API RP 579	M
	3			3 API RP 579	M	3 API RP 579		3		3 NG-18 In-secant Formula	M
	4			4		4		4		4 PAFFC Pipe Axial Flaw	M
	5			5		5		5		5 Level 2 Strip Yield Model	M
	6			6		6		6		6	