

GE
Oil & Gas
PII Pipeline Solutions

PipeView Integrity Direct Assessment

Software tools to analyze and manage the entire
External Corrosion Direct Assessment process

PII's new PipeView™ Integrity Direct Assessment module gives pipeline operators the ability to perform all of the analyses necessary for effective ECDA. The software's capabilities include tracking individual indirect inspections and direct examinations, as well as loading and alignment of indirect inspection and direct examination data.

Module overview

PVi Direct Assessment contains advanced tools for all four stages of ECDA:

- Identify ECDA regions
- Determine optimal inspection types
- Assess severity of indirect inspection data and resulting direct examination evaluations
- Determine a pipeline's remaining life

Why choose PipeView Integrity DA?

- It is an exceptionally powerful and user-friendly software tool that provides a framework for performing ECDA based on NACE SP0502
- Allows logic to be configured according to operator's situation
- Identifies and manages indirect inspections
- Loads and assesses indirect inspection data to locate indications and prioritize direct examinations
- Loads and analyzes direct examination data to determine remaining life

Direct Assessment is just one component of our PipeView™ Integrity suite of software solutions. A major advantage of the suite is that it enables flexible transfer and analysis of data, drawing on the specialized features of the various component modules, including:

- Data Alignment Manager
- Feature Assessment
- Risk Assessment
- Integrity Planning



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PipeView Integrity DA

Key features

- Connect to enterprise database or directly load available pipeline and environmental data for pre-assessment stage
- Use graphical data editor to modify attribute data
- Determine ECDA regions, indirect inspection types and initial external corrosion rates from available data using configurable logic
- Manage indirect inspections through completion
- Load GPS-surveyed centerline and reconcile existing data to that centerline
- Load and align indirect inspection data using configurable data load templates
- Determine and assess severity from indirect inspections (PCM, CIS, DCVG, ACVG and others) using configurable logic
- Predict where to perform DCVG with CIS and PCM data using configurable logic
- Prioritize indications and assign direct examinations using configurable logic
- Manage direct examinations through completion
- Load direct examination data and perform assessment of measured defects
- Determine corrosion rate by entering directly or by determining half-life or full-life based on the onset of corrosion
- Determine remaining life and reassessment interval using configurable logic
- Use B31.G, modified B31.G and other methods within remaining life calculation
- Use dashboard views to quickly assess status through all four stages of ECDA

Contact

For more information on this product, contact your GE Oil & Gas representative or visit geoilandgas.com/pii

ID	Indication Size	Indication End	Severity	PCM Indication	DCVG Indication	Soil Corrosion	Prioritization	ACVG Indication
21	2242.1836	2229.2884		No Indication		High Corrosion		
23	2784.8637	2447.9989		No Indication		High Corrosion		
24	1476.5202	7437.5422	Severe	No Indication	No Indication	High Corrosion		
25	7427.7642	7653.5242	Severe	No Indication	No Indication	High Corrosion		
27	7254.8242	7659.8242	Severe	No Indication	No Indication	High Corrosion		
28	1025.8442	7417.8442	Severe	No Indication	No Indication	High Corrosion		
29	3817.8642	7433.8642	Severe	No Indication	No Indication	High Corrosion		
30	5237.8842	7433.8842	Severe	No Indication	No Indication	High Corrosion		
31	7423.9042	7429.9042	Severe	No Indication	No Indication	High Corrosion		
32	7424.9242	7431.9242	Severe	No Indication	No Indication	High Corrosion		
33	7424.9442	7431.9442	Severe	No Indication	No Indication	High Corrosion		
34	7424.9642	7431.9642	Severe	No Indication	No Indication	High Corrosion		
35	2248.9842	2725.9842		No Indication		High Corrosion		
36	2726.0042	2724.0042	Severe			High Corrosion		
37	2784.8242	2776.8242	Severe			High Corrosion		
40	4781.3074	4780.3074	Severe			High Corrosion		
40	4780.3074	4780.3074	Severe			High Corrosion		
47	4276.8891	4276.8891	Severe			High Corrosion		
48	4276.8891	4281.8891	Severe			High Corrosion		
48	4281.8891	4249.8891	Severe			High Corrosion		

Indirect Inspection overview

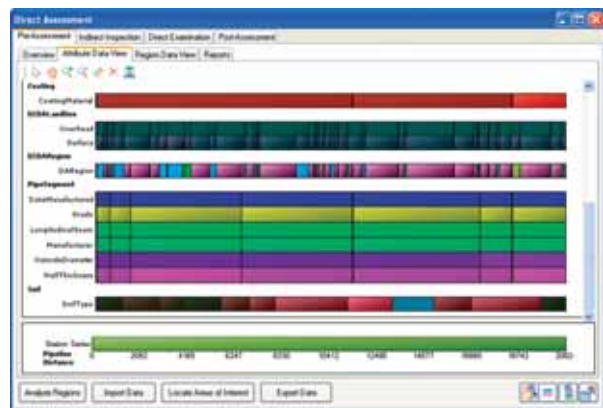
ECDA Region	Total Length
1	1162.0229
2	627.73299999
3	42.8187000000

Location	Soil Class	Soil Priority	PCM	CIS	Other	Initial External Corrosion Rate	Life Expectancy of External Corrosion
17276.1854 - 17276.1854	EL1A						

ECDA Region	Total Length
1	949.2271

Location	Soil Class	Soil Priority	PCM	CIS	Other	Initial External Corrosion Rate	Life Expectancy of External Corrosion
732.7662 - 874	EL1A						
3892.3008 - 3892.3008	EL1A						
3892.3008 - 4281.8891	EL1A						
4281.8891 - 4281.8891	EL1A						
4281.8891 - 4281.8891	EL1A						
11168.5222 - 11168.5222	EL1A						
11828.7427 - 11828.7427	EL1A						
11792.0476 - 11792.0476	EL1A						

Pre-assessment overview



Graphic data editor in pre-assessment

