

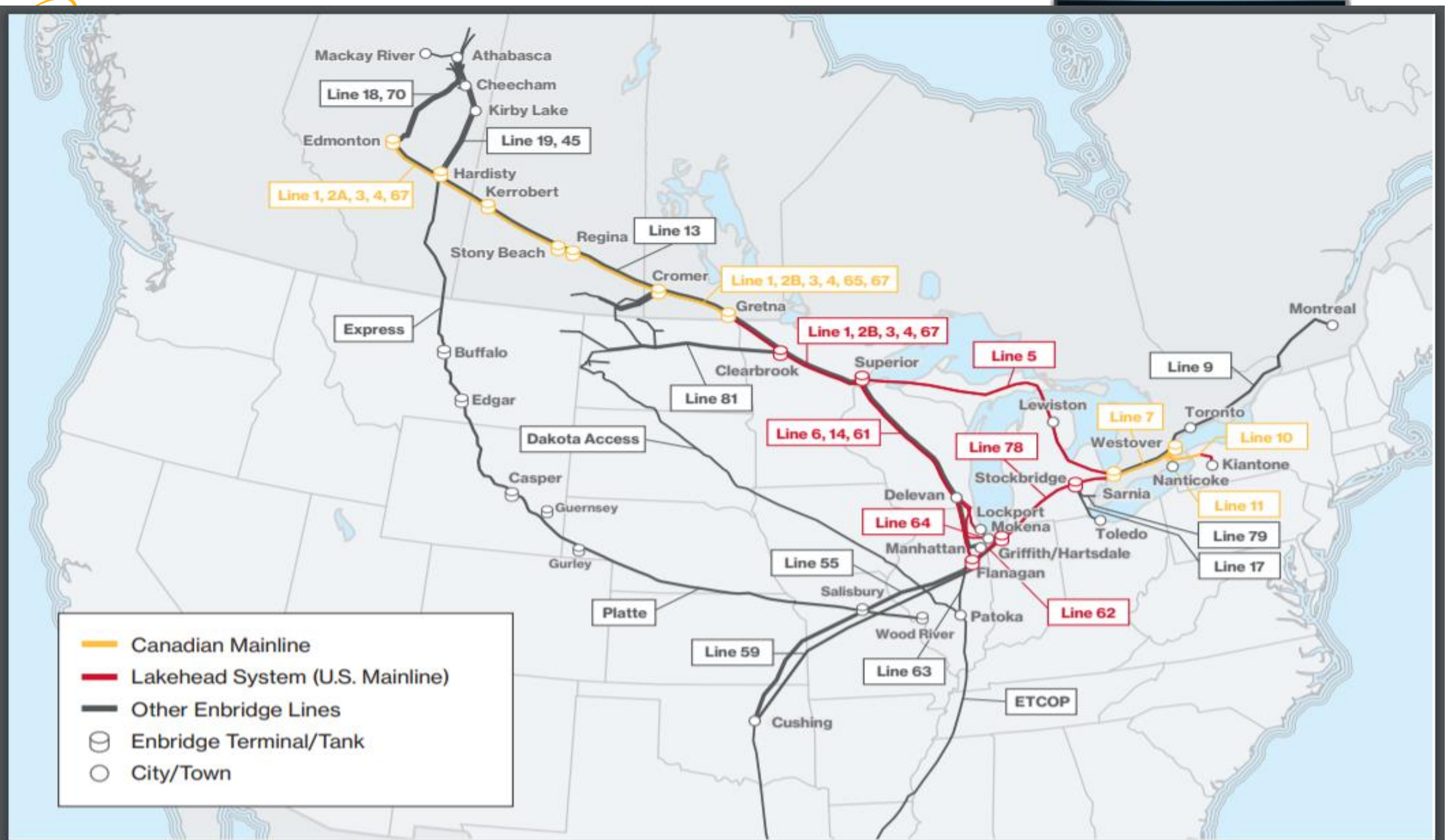
AFGROWING THE PIPELINE INDUSTRY

Lyndon Lamborn, Enbridge Liquids Pipelines

HONORABLE MENTION: James Harter, Lextech, Inc.







	Canadian Mainline
	Lakehead System (U.S. Mainline)
	Other Enbridge Lines
	Enbridge Terminal/Tank
	City/Town

Mackay River Athabasca

Cheecham

Kirby Lake

Edmonton

Line 1, 2A, 3, 4, 67

Hardisty

Kerrobert

Stony Beach

Regina

Line 13

Cromer

Line 1, 2B, 3, 4, 65, 67

Gretna

Line 1, 2B, 3, 4, 67

Express

Buffalo

Edgar

Line 81

Clearbrook

Superior

Line 5

Montreal

Line 9

Dakota Access

Casper

Guernsey

Gurley

Line 55

Manhattan

Line 64

Delevan

Line 78

Stockbridge

Lewiston

Line 7

Westover

Toronto

Line 10

Nanticoke

Line 11

Line 79

Line 17

Lockport

Mokena

Griffith/Hartsdale

Flanagan

Line 62

Patoka

Salisbury

Line 63

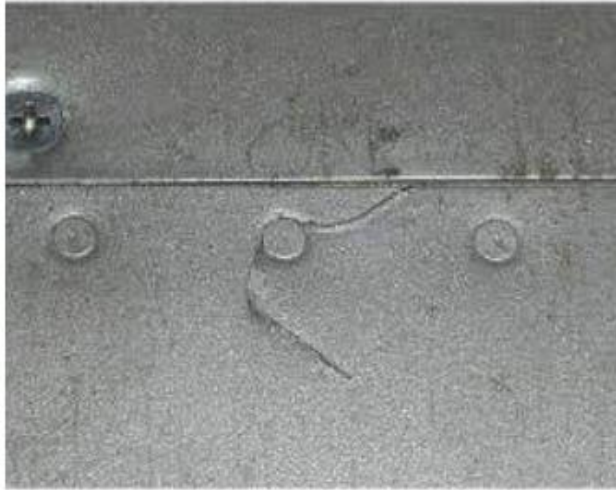
Wood River

Platte

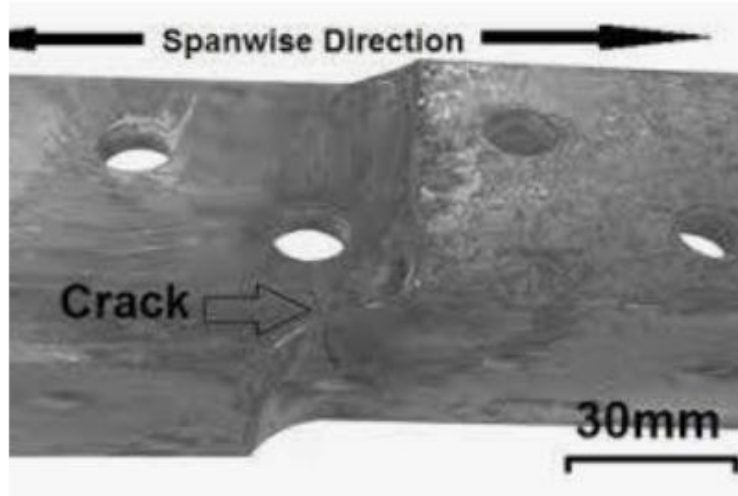
Line 59

Cushing

ETCOP



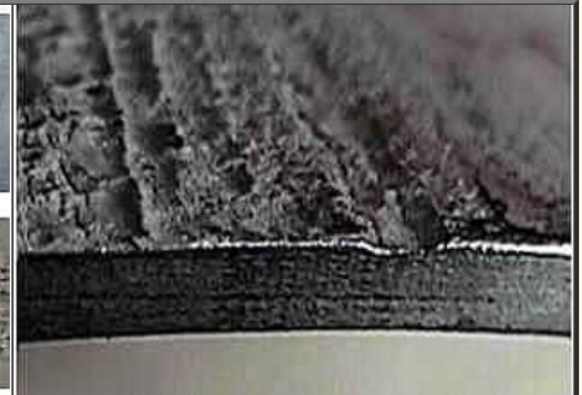
How to fix wing skin crack? - VAF For...

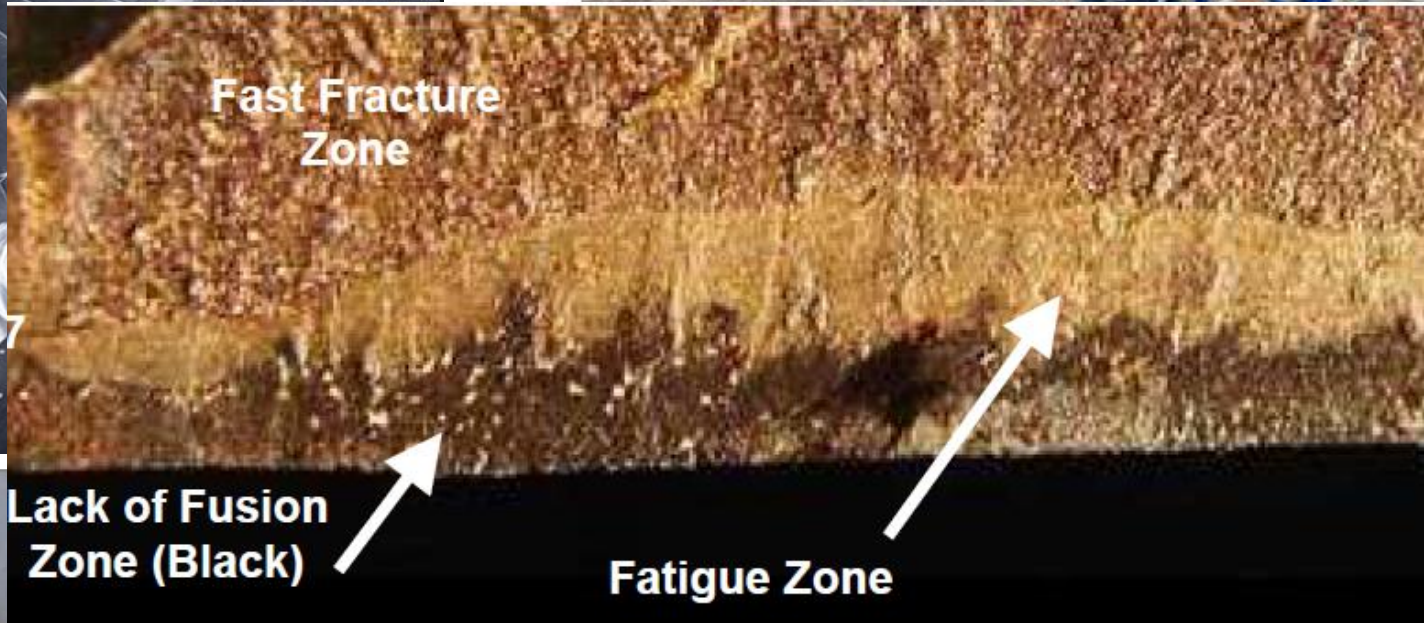


aluminum 7075 wing internal angle ...

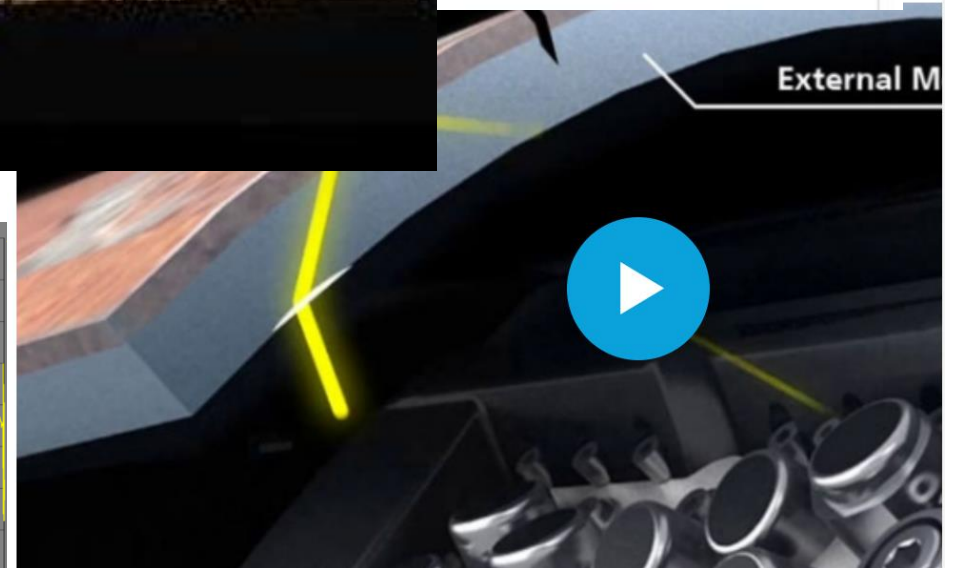
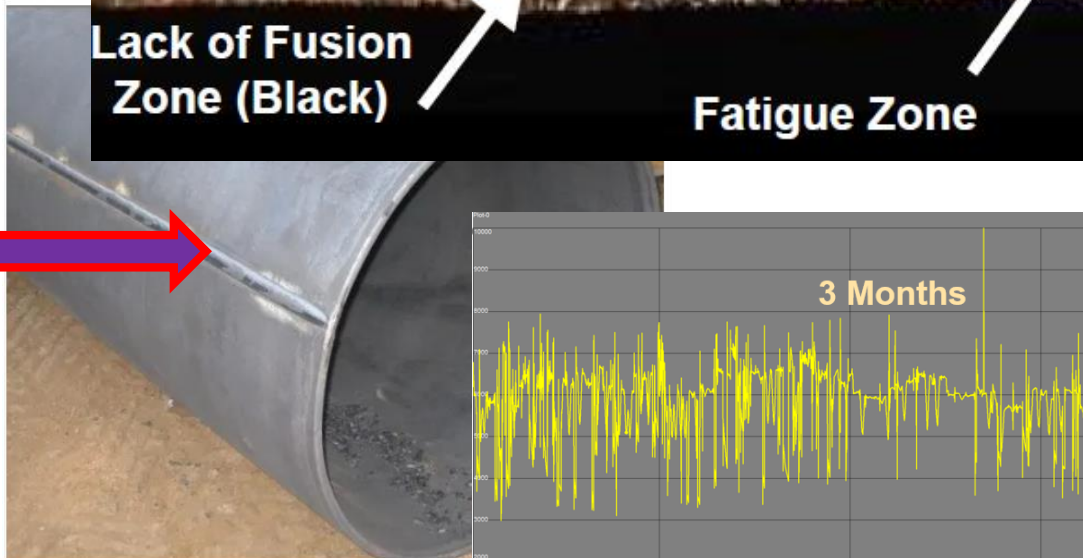


aluminum 7075 wing intern...

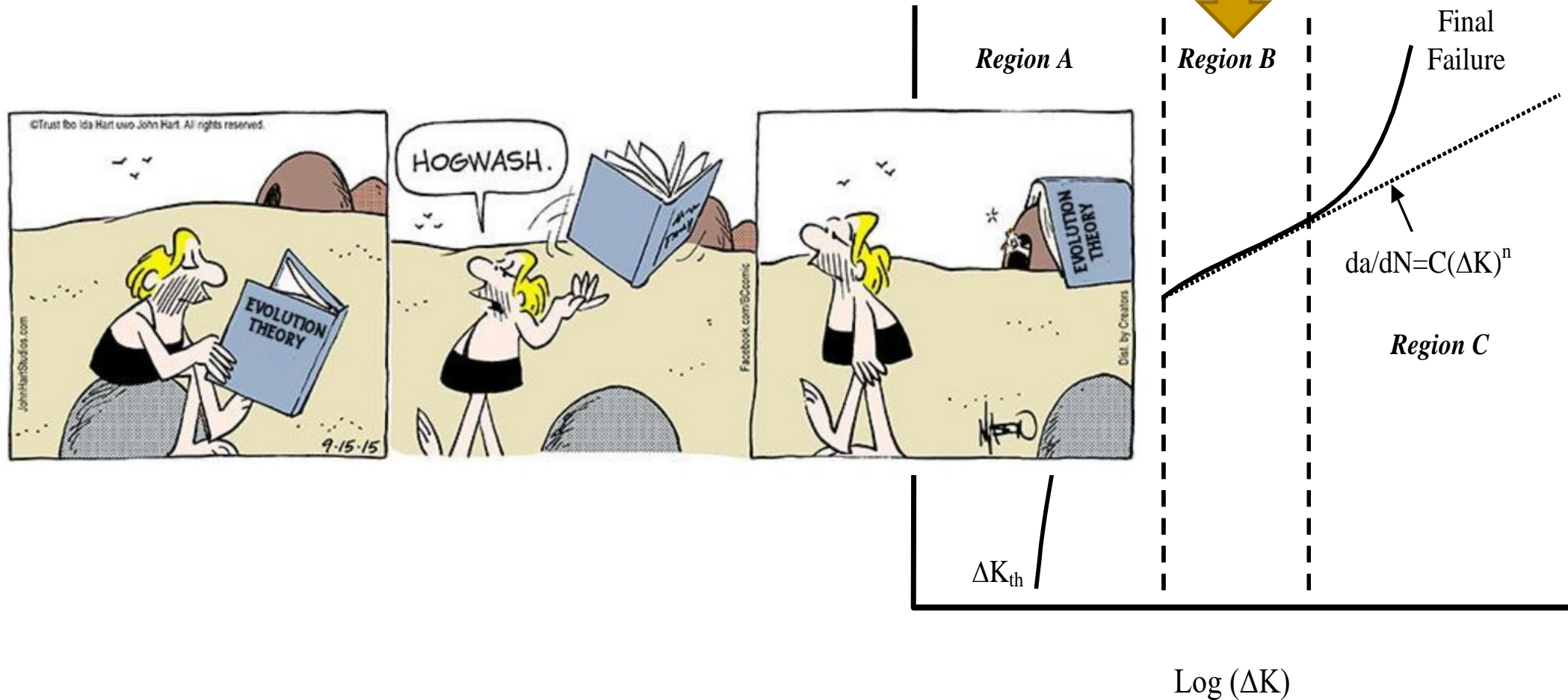




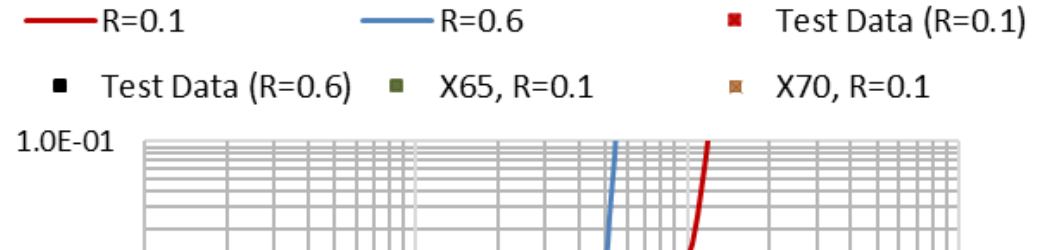
**SEAM
WELD**



Why Only Region B?



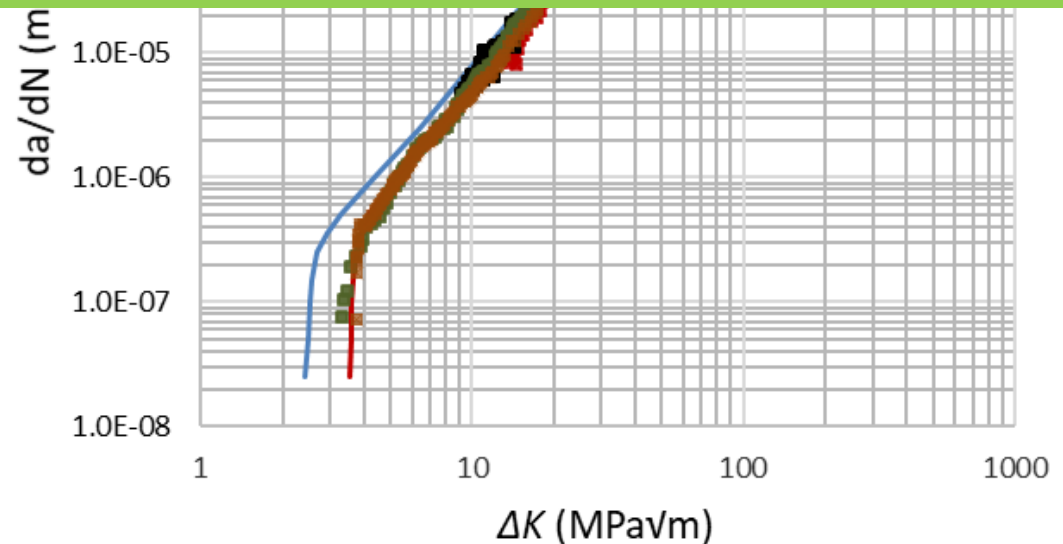
X60-X70 Base Metal



ONE DOWN, 3 TO GO!

Missing: X60-70 In Weld, Grade B-X52 Base Metal, Grade B-X52 In Weld

- AFMAT Entry
- Landmark Event
- AFGROW ready



Current Uses

- Flaw Stability
- Leak/Rupture
- Future State Studies



The Future

- Root Cause Analysis
- ‘Level 2’ Remaining Life
- Mainline & Facilities

Thanks! Questions?

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