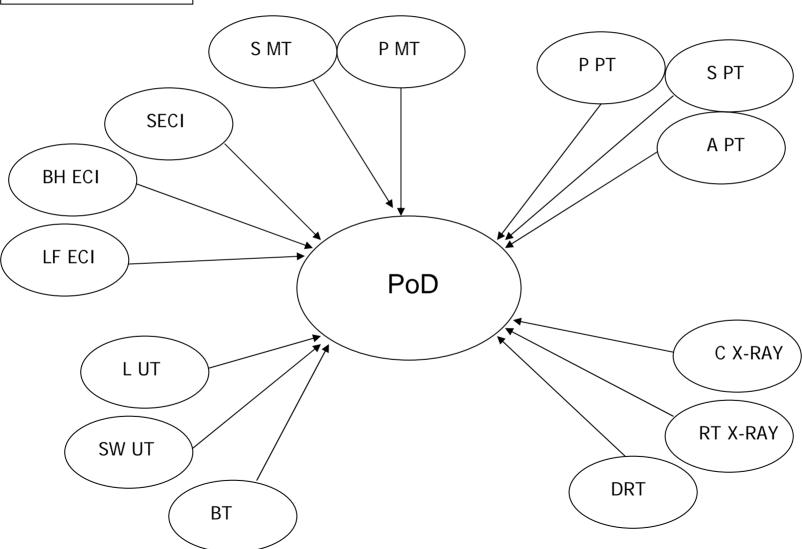
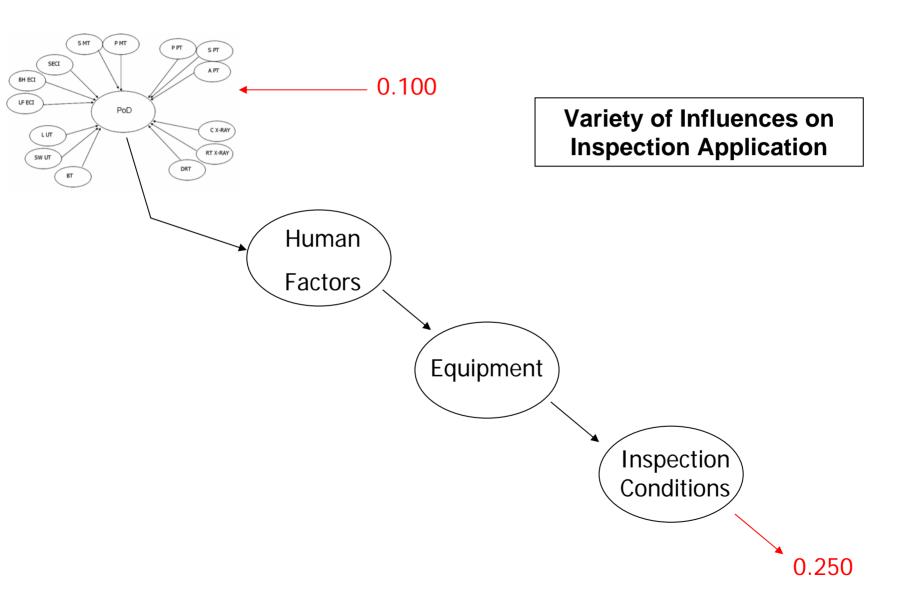
Probability of Detection (PoD)

Variety of NDI Methodologies



Probability of Detection (PoD) for NDI



Probability of Detection (PoD) for NDI

Example: Inspection Baseline

Assumptions

2												
3		IATP	Detail		1980	1996				Inspection	Inspection	Inspection
4	-36	Code	Number	Detail Description	DADTA	DADTA	Added	IATP	Acrit	Interval	Type/Length	Hours
5												
6												
7			WING LO	WER								
8												
9	7-2-1	4	WL-8-1	FS Lwr Flange Fwd Skin Attach at WS 1036.5				X	0.74	11500 hrs	SEC 0.10"	2.9
10	7-2-7	38	WL-9	S-2 Runout at WS 1111.5		Х		X	1.32	1420 hrs	SEC 0.10"	12.6
11	7-2-13	39	WL-10-3	Lwr Rear Spar Chord Web Attach, WS 1050		Х		Х	0.74	3500 hrs	SEC 0.15"	12.6
12	7-2-19	41	WL-11-3-1	IRS Web to Lwr Chord Attach, WS 1055-1085		Х		Х	0.26	600 hrs	SEC 0.10"	21.4
13		2	WM-12	Wing Rear Spar Terminal Ftg				Х	1.74	2450 hrs	SEC 0.25"	11.8
14	7-2-5		WL-14-3-1	Lwr Chord, Spar Web at Ext Tank Attach		Х		Х	0.14	1850 hrs	BHEC 0.05"	22
15	7-2-31	42	WL-20-2	S-3 Skin Attach, WS 1029		Х		Х	0.33	300 hrs	SEC 0.10"	22
16	7-2-37	43	WL-28-3	RS Lwr Chord to Web Attach, WS 1070-1080		Х		Х	0.69	3200 hrs	SEC 0.10"	13.6
17	7-2-43	5	WL-29-1	WS 1072 Skin @ Sftn S-2				Х	4.00	S/A WL-29-2	SEC 0.25"	97
18	7-2-49	44	WL-29-2	S-2 Skin Attach, WS 1072		Х		Х	0.58	3000 hrs	SEC 0.10"	13.6
19	7-2-55	45	WL-33-2	S-7 Skin Attach, WS 1072		Х		Х	0.71	2750 hrs	SEC 0.10"	13.6
20	7-2-61	6	WL-45-1	RS Lwr Chord at WS 665				Х	0.90	12750 hrs	SEC 0.25"	39
21	7-2-67	1	WL-47-2	S-4 at WS 222				Х	0.82	10,000 hrs	SEC 0.25"	13.8

	R	S	Τ	U	٧	W	Χ	Υ	Ζ	AA	Αl
		1 Easiest and Most Frequent - 5 Most Difficult and Least Freque									ent
D.	Comments			D	L	-	L	-		Openhinad Fatimete	
DI	Comments			Degree	H	Frequency	H	Frequency	Н	Combined Estimate	
				Difficulty (1-5)	H	of Inspection		of Technique	Н	Degree of Difficulty	
				(1-5)	H		H		Н		
				1	Г	1		1		1	
				3		2		1			
	Smaller Detectable Possible?			2	Г			1			
				3				1			
	Smaller Detectable Possible?							1			
	Post CX Analysis, CCL = 0.23", T=2	2400) ł		L			1			
				3			L	1			
				2	L		L	1			
				3	_			1			
				3				1			
	Constitut Data stable Baseible?			3 3	L		L	1	H		
	Smaller Detectable Possible? Smaller Detectable Possible?			3	H			1	Н		
	Smaller Detectable Possible?			3				1	П		
	Smaller Detectable Possible?			,				1	-		-
	Smaller Detectable Possible?			3				1	Н		
	Smaller Detectable Possible?			3	Н			1	П		
				3				1			
	Smaller Detectable Possible?			3	Г			1			
				1				3			

