

PRINCIPAL EQUIPMENT FAILURE MODES & POSSIBLE MAINTENANCE ACTIONS MATRIX

Slide 2: Principal Equipment Failure Modes and Possible Maintenance Actions Matrix Worksheet

MMAPS

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Representative Equipment Selection																													
														"Possible" Maintenance Action Options															
					Condition Monitoring								Preventive Maintenance												Once Only				
Equipment Type	Equipment Failure Group	Potential Group Failure Points / Modes to Consider Generic, some won't apply	Failure Point / Mode Applicability	Visual Insp Assembly Level	Strobe Inspection	Vibration / Acoustic Analysis	Lube Oil Analysis	Coolant Analysis	Performance Analysis	Thermography	Engine Analyser	Ultrasonic Tickness Testing Visual Insp	Assembly Level Visual Inspection	Subassembly level Visual Inspection	with Endoscope Visual Inspection	Component Level Visual Inspection if/	when Item Exposed	Measurements	Calibration	Tuning / Adjustment	Deflections Fastener Tichtness	Checks	Crack Testing Scheduled	Functional Test	Scheduled Clean Scheduled	Calibration Scheduled	Adjustment Scheduled Repair / Denlacement / Outhl	Replacement / Ovrni Repair / Replace / Overhaul	Redesign
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Comperssor - Screw	Casing	Seals and gaskets condition (leakage)																						1 [
Comperssor - Screw		Casing condition (distortion, damage / scoring, corrosion, erosion, pipe strain, foundation soft foot etc.)																						ז נ					
		Slide valve condition (wear, seizure, damage / scoring, corrosion,						_					_							_									
Comperssor - Screw		erosion etc.)																						ם ב					
Comperssor - Screw	Casing	Slide valve actuator condition (wear, seizure, damage etc.)																											
Comperssor - Screw	Casing	Foundation & grout condition (integrity, HD bolting security etc.)] [ן נ			סונ		
Comperssor - Screw	Rotors	Rotor condition (balance, distortion, wear, damage / scoring, corrosion, erosion etc.)												o (- c	- c) (
Comperssor - Screw	Rotors	Thrust bearings (roller) condition ((wear, damage etc.)																						ם נ			ם כ		
Comperssor - Screw	Rotors	Radial bearings (roller) condition ((wear, damage etc.)																						ז נ					
Comperssor - Screw	Rotors	Shaft seal condition (wear, damage, leakage etc.)																						ז כ					
Comperssor - Screw		Coupling / pulley / sprocket condition (looseness, shaft seat damage, wear, other damage etc.)																											
		Depends on configuration	H		- E	H					ö															512			1 T
Comperssor - Screw	- · · ·	Casing condition (mounting, leakage, damage, corrosion etc.)	H			H		_			븝												러는						H
Comperssor - Screw		Element condition (fouling, damage etc.)									븝												러는					_	
Comperssor - Screw		PLC condition, function				님					븝																	_	H
Comperssor - Screw	Controls																						片는	_	_	불분			
Comperssor - Screw	Controls	Instrumentation condition (calibration, mounting, security, damage etc.)																						<u>.</u>					
Comperssor - Screw		Starter condition, function (starting sequence correct)				\exists																							
Comperssor - Screw		Piping and valving condition (mounting, security, vibration, damage etc.)	<u> </u>		<u> </u>		_				무																		<u>-</u>
Comperssor - Screw	General	Surface coating condition (exterior corrosion etc.)				므																							<u> </u>
Comperssor - Screw	General	Vibration during operation			<u> </u>	<u> </u>																							
Comperssor - Screw	General	Gas pulsation during operation																						1 [ם נ		