

Wire Rope Inspection PM Checklist

Actions and activities recommended in this guide should only be attempted by trained and certified personnel. If such personnel are not available, the actions recommended here should not be initiated. Frequencies indicated are based on a comparison of intervals from various industry sources and are

Task ID	Task Name	Task Text	Frequency	Each Shift	Monthly	Annual
WIR-001	Shift Inspection	Inspect wire ropes (including running and standing) for apparent deficiencies. The inspection must include all tasks with frequency "Each Shift". Untwisting (opening) of wire rope or booming down is not required as part of this inspection.	Each Shift	X		
WIR-002	Category I Inspection	Inspect for Category I Deficiencies that include the following: <ul style="list-style-type: none"> Significant distortion of the wire rope structure such as kinking, crushing, unstranding, birdcaging, signs of core failure or steel core protrusion between the outer strands. Significant corrosion. Electric arc damage (from a source other than power lines) or heat damage. Improperly applied end connections. Significantly corroded, cracked, bent, or worn end connections (such as from severe service). 	Each Shift	X		
WIR-003	Category II Inspection	Inspect for Category II Deficiencies that include visibly broken wires as follows: <ul style="list-style-type: none"> In running wire ropes: Six randomly distributed broken wires in one rope lay or three broken wires in one strand in one rope lay, where a rope lay is the length along the rope in which one strand makes a complete revolution around the rope. In rotation resistant ropes: Two randomly distributed broken wires in six rope diameters or four randomly distributed broken wires in 30 rope diameters. In percents or standing wire ropes: More than two broken wires in one rope lay located in rope beyond end connections and/or more than one broken wire in a rope lay located at an end connection. Category II Deficiencies also include a diameter reduction of more than 5% from nominal diameter.	Each Shift	X		
WIR-004			Each Shift	X		

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