Action Plan - PM Optimization Checklist

✓	Failure Mode-Based
☐	1. Tasks address inherent design deficiencies or known failure modes
☐	2. Records confirm that tasks successfully address deficiencies or failure modes
☐	3. Data indicates other deficiencies and/or failure modes are present, but not addressed in the PM task list
If available, perform the following to support your analysis:	
☐	4. Analyze failure codes to determine operating issues vs. equipment failure
☐	5. Are the PM activities grouped by a single failure code or multiple failure codes? a. Impacts task frequency and how you address detectability and criticality
☐	6. Analyze downtime data to review failure modes, loss allocation of changes, etc.

✓	Value-Added
☐	1. Does the task address a safety, environmental, or regulatory requirement?
☐	2. Does performance data or equipment history verify the benefits of the task (e.g., uptime, quality rate, production rate)?
☐	3. Is the task written to reduce the risk of a functional failure from occurring or the likelihood of it occurring?
☐	4. Are adequate levels of corrective maintenance generated from the task?

✓	Comprehensive
☐	1. Tasks include all components that could lead to the failure of the maintainable system/asset
☐	2. Tasks include component servicing and adjustment, inspection, and repair
☐	3. Activities include all information necessary (acceptable ranges, clearances, gaps, etc.) to make the inspection, initiate corrective repair and track data for the P-F curve a. Check with equipment SMEs for input.

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✓	Organized
☐	1. Tasks are organized into a logical sequence that facilitates efficient execution
☐	2. Supporting data is organized to match the tasks, e.g., task lists, drawings, specification sheets, etc.

✓	Repeatable
☐	1. Task written so all qualified maintenance technicians will perform the task consistently? a. Drawings, pictures and other details used?
☐	2. Task complete and detailed enough to ensure effective performance of the task?
☐	3. Task specifies the operating condition of the machine?

✓	Frequency
☐	1. Is there one corrective work order generated for every five PM/PdM inspections?
☐	2. Does the current frequency prevent unplanned failures?
☐	3. **On condition** frequencies are based on historical data used to create accurate P-F curves a. Calculate inspection time intervals based on criticality and detectability
☐	4. **Hard time** frequencies are based on OEM recommendations or historical data used to create accurate failure rate curves
☐	5. **Failure finding** frequencies are based on historical data used to determine mean time to failure (MTTF)
☐	6. **Service** activities have been considered as needed
☐	7. PM to corrective ratios correlate to the asset detectability and criticality rating
☐	8. Breakdown and trouble-call histories confirm the PM tasks are effective

✓	Duration
☐	1. Task durations determined and verified by direct observation?
☐	2. Task durations routinely audited or tracked to detect deviations?
☐	3. Task durations allow for combining tasks intelligently?