

Risk cutting by TPM

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Abstract:Chronic and sporadic defects - accidents and breakdowns - of machines are being triggered by technical or human faults. In the general practice the individual making the fault considered responsible. But the most system defect are provoked by false or missing management decisions.

Total Productive Maintenance (TPM) is a maintenance program which involves a newly defined concept for maintaining plants and equipment. TPM is a team approach to maintenance that engages the workforce and management. The goal of the TPM program is to markedly increase production while, at the same time, increasing employee morale and job satisfaction. The basic principle closely resembles the Total Quality Management (TQM) method.

The objective of TPM is to increase profitability and cut risks of the operation, based on the principles of preventative, efficient, and economical maintenance. Reliability is a basic element of maintenance theory. In dealing with operational reliability risk analysis is always present, so TPM – like former methods – can efficiently decrease risks. TPM focuses on the manufacturing life cycle and eliminates defects from the process. Total Productive Maintenance addresses unsafe conditions and behaviors in advance through organization, discipline, and standardization.

Keywords:TPM, risk, maintenance, defects, machine faults