



Dynamic Preventive Maintenance improves the maintenance efficiency and makes it more systematic. It includes refining the right equipment hierarchy in plant's maintenance system and making maintenance programs that are based on equipment criticalities. It results in improved equipment reliability, work resource allocation and spare parts management, and well-informed, proactive/topical investment decisions.

DPM IMPROVES AVAILABILITY AND SAFETY BY IMPLEMENTING CORRECTLY MEASURED PREVENTIVE ACTIONS.

DPM is a unique way to combine the maintenance system data with process experts' quiet information. It helps us to identify the most critical equipment in the production process and the right proactive measures.

Using a simulation application that is a result of our own development work, we modify the equipment hierarchy and do the criticality classification. We model the plant and simulate its operations in the application. The results are presented in an easily accessible visual format.

MANY OPTIMIZING POSSIBILITIES

With a **redefined, well-built equipment hierarchy** you can control daily maintenance operations efficiently. You get reliable information on the effectiveness of maintenance activities and can identify the development needs.

A failure mode and effect analysis (FMEA) is made to simulate plant's operations. It processes possible failure modes and their effects. As a result comes the **criticality classification of the equipment**. At the same time, we identify the **risk objects**. Criticality analysis enables choosing correct preventive actions and targeting the maintenance resources efficiently.

The results will be shifted to daily maintenance by **adjusting the preventive maintenance programs** based on criticality classification. We will also build missing maintenance programs. This all lets you optimize maintenance targets, measures and service intervals.

It would be best to also start a continuous improvement process for the updated asset hierarchy and maintenance program. This ensures that the preventive maintenance is **continuously developed** to respond to the changing needs of the equipment.

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After our DPM project, the amount of breakdown maintenance works has decreased.

