

Auto Generation of Condition Monitoring Work Orders

Overview

Maximo 5.2 lacks the ability to auto-generate work orders for Condition Monitoring measurements that are above or below the Measure Point Action Limit. This utility fulfills this missing feature.

Automating WO Generation

The extra field MeasurePoint.MP1 has been modified to a YORN field and displayed on the Condition Monitoring screen. Check the field if the point should be checked for automatic generation of work orders.

Figure 1: Generate WO on Action Limits checkbox

The screenshot shows the 'Condition Monitoring' screen in Maximo. At the top, there are tabs for 'Search', 'Condition Monitoring', and 'Attached Documents'. Below the tabs, there are three rows of input fields: 'Point: * 9901' with a dropdown menu showing 'GENERATOR VIBRATION ANALYSIS', 'Equipment: * 11230' with a dropdown menu showing 'Emergency Generator', and 'Location: BR230' with a dropdown menu showing 'Boiler Room Emergency Generator'. Below these fields is a 'Details' section with two columns: 'Warning' and 'Action'. The 'Warning' column has 'Upper Limits: * 8,500.000' and 'Lower Limits: * 5,500.000'. The 'Action' column has 'Upper Limits: * 9,000.000' and 'Lower Limits: * 5,000.000'. To the right of these fields are 'PM: PM-GEN' and 'WO Priority: * 2'. At the bottom of the form, there is a checkbox labeled 'Generate WO on Action Limits?' which is checked.

Nightly, a java procedure external to Maximo selects all Condition Monitoring Points that have the "Generate WO on Action Limits" flag checked. For each Point found, the most recent measurement for the point is then checked for a measurement value above or below the action limits. If the value is out of range then a work order is generated.

Note: Only one work order is generated per measurement. While there is an active work order (not cancelled, closed, or completed) any new measurements outside the action limits will not generate a new work order. Once the active work order is cancelled, closed, or completed, new measurements outside the action limits will generate a new work order.

Note: Each night, only the latest measurement is checked. If there are multiple measurements during the day, the routine can be slightly modified to check each measurement that occurred in the last 24 hours.

Note: The external Java routine that checks measurements and generates work orders uses Maximo MBO's to check existing data and create required work orders. The routine can be scheduled and ran via the Microsoft Task Scheduler.