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RELIABILITY CENTERED MAINTENANCE ASSESSMENT

Effective management and control of Reliability Centered Maintenance is a set of agreed upon goals and objectives that are based on an informed judgement of the present condition and carried out through an integrated plan of action.

The Reliability Centered Maintenance Assessment has been divided into eight discrete sections. The following paragraphs define the scope of information gathered in each category.

The Assessment questions are based on 25 years of hands on experience in Maintenance Management. Since there is a different number of questions per category and the rated values given to each question, a weighing effect indicates the relative importance of each category to the success of a Reliability Centered Maintenance Program.

The Assessment is designed to serve several purposes beyond rating the performance achieved against “Best of Class” organizations. It organizes the information gathering process, and creates a checklist of elements vital to a successful Reliability Centered Maintenance Program. The Assessment will help develop a gap analysis and associated task lists and time lines.

The Assessment provides a basis for establishing the priorities for a continuous improvement plan. It functions as an effective communication device between organizations and between various levels of management. It helps to establish partnership roles for the over-all improvement in equipment operations, reliability, and availability. A description for each of the categories follows:

Management Support and Plant Culture

Includes an assessment of the atmosphere and culture and environment in which the Maintenance Programs must operate. Determines the level of partnership between Maintenance and its customers. Indicates if the mechanism is in place to effectively request and execute work found by the Computerized Maintenance Management System (CMMS).

Performance Measurements

Indicates the presence or absence of suitable performance measurement and controls. Seeks knowledge into the use of “Best Practice” benchmark trends for identifying improvement opportunities and the realization of World-Class status.

Preventive Based Maintenance

Indicates how effectively preventive maintenance practices are being applied. An assessment is made into the integration of the Preventive Maintenance Program into the Planning and Scheduling System, and the extent of partnership with Production Planning.

Proactive Technology

Assesses the degree to which Reliability Centered Maintenance concepts are in place or are being implemented. Focuses on Root Cause Failure Analysis. Determines the level to which Predictive Maintenance techniques are being used in Reliability Centered Maintenance. Looks at the relationship between Design Engineering, Maintenance, and Production around the PDM Program.

Training. Development. Certification

Determines the level of training and development received by the people in the Predictive Maintenance Program. Access the level and/or need for technical certification. Also looks at the training development requirements of the Maintenance Technicians in relationship to a World Class environment. This category also measures the Maintenance Department's ability to communicate clearly with its customers and plant management on performance indicators. Includes those measurements relative to how well the plant measures the productivity improvements and communicates results.

Program Organization and Communication

Identifies the degree to which human resources requirements have been identified, roles and responsibilities clarified, and the reporting relationships described. It also accesses the extent to which the Maintenance Vision has been implemented and it includes the interface with Production.

Vibration Analysis Program

Assesses the extent to which the Vibration Analysis Program has been implemented, and the diagnostic skills of the Vibration Analyst. The section determines the level of sophistication used in the vibration analysis process. Indicates the adequacy of the vibration database, and the techniques used to take efficient and effective vibration readings.

Other Predictive Technology

Determines the level of sophistication and use of Infrared Thermography, lube oil analysis, ultrasonics, and other Predictive Maintenance techniques including process parameters.

Founded in 1901, Day & Zimmermann is a family-owned company with a workforce of 46,000 specializing in construction & engineering, operations & maintenance, staffing, security and defense solutions for leading corporations and governments around the world. Operating from more than 150 worldwide locations with 2.8 Billion USD in revenue, Day & Zimmermann is currently ranked as one of the largest private companies in the U.S. by *Forbes*. Headquartered in Philadelphia, PA, our first work was to develop "Betterment Reports" that helped modernize American factories. Today, we are still in the business of betterment—maintaining the nation's power infrastructure, protecting American freedoms and accelerating innovation around the world.

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