

SAFE SYSTEMS OF WORK



Customer / Client

Ministry of Defence (MoD)
and Defence Infrastructure
Organisation (DIO)

Project

To review the Planned Preventative Maintenance System and make it more Site Specific, introducing cost savings without compromising Safety or Operational effectiveness.

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Challenge

Planned Preventative Maintenance (PPM) operating on the UK Ministry of Defence site was based on a "one solution fits all". We were challenged with looking at Reliability Centred Maintenance (RCM) and Condition Based Maintenance (CBM) to focus maintenance on mission critical facilities.

Solution

The existing MoD/DIO contracts operate PPM on a "cyclic maintenance" regime based on a Defence Estates generic schedule. In 2005/2006 a trial was carried out at Kentigern House in Glasgow which clearly showed that the level of equipment on the MoD estate did not lend itself to Reliability Centred Maintenance in its pure form.

A Risk Based Programme of Inspections and tests Systems was introduced which asked the basic question "Why carry out planned inspections on this system?" It appeared wasteful to automatically visit sites to view equipment which may predominantly be printed circuit boards. Where there was alternative means to observe systems eg. customers' usage, security guard observation and competent persons, it was decided that for some tasks there was no advantage in carrying out a Planned Maintenance Task Inspection.

During the review the question "Why maintain this equipment at all?" was considered. Sites were asked to justify their current Planned Maintenance requirements and where necessary new Planned Maintenance tasks were raised allowing the frequency of existing inspections and tests to be altered. At all times the Site teams were to consider Health & Safety and Operational Requirements on their sites ie. What would be the operational impact of an item of equipment failing?

The review was very successful and the system was implemented.

Three sites were selected in April 2006 to be reviewed with the aim of rolling out conclusions to the remaining sites in Regional Prime Contract Scotland.

The effectiveness of the Risk Based system was “monitored” for effectiveness of the decision made to determine if there was any substantial increase in Reactive Maintenance ordered by the MoD.

The Risk Based system is continually under review with the MoD and has proved to be flexible and able to meet changing customer needs and developing technology.

The Risk based system is now in its 14th iteration, with the MoD being an eager active participant in the review of the Planned Preventative Maintenance system.

Client Benefit

The Risk based Planned Preventative Maintenance system now known as Maintenance, Inspection Test Schedule (MITS) has saved the MoD maintenance funding without operational effectiveness or Health & Safety being compromised.

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