MALMS™ Engineer Inspection & Maintenance Test System

Advantages

MALMS™ Engineer has been developed following a number of incidents where airfield ground lighting (AGL) has suffered mechanical or electrical failures that have not been adequately identified or rectified.

MALMS™ Engineer incorporates a work scheduling and reporting tool that may be operated independently or integrated with an airports asset management system.

MALMS™ Engineer may be used on its own or integrated with the MALMS™ range of photometric test products and MALMS™ Cleaner to deliver the MALMS™ Differential Maintenance Strategy.

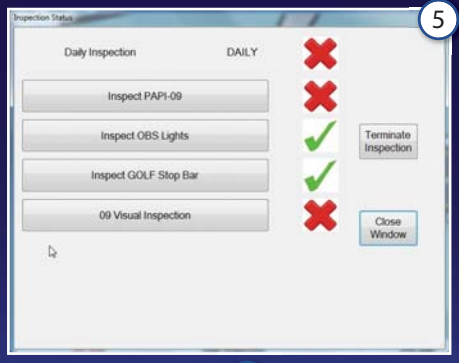
Adopting MALMS™ Engineer will provide airports with the assurance that all their light fittings are being inspected and maintained in compliance with ICAO annex 14, FAA AC 150/5340-26B, CAP 168 and others:

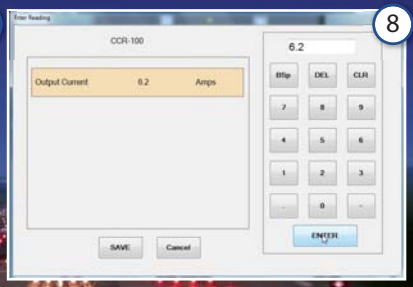
1. Supports the provision of airfield lighting inspection and maintenance services in accordance with best practices leading to better standards of runway maintenance.
2. Moving map supports rapid airfield navigation and location / recording of faults. GPS and RFID capability allow maintenance technicians to rapidly identify, locate and repair or replace faulty assets saving time on the airfield.
3. MALMS™ Engineer allows the recording of airfield light torque settings thus reduces the risk of lights becoming loose on the airfield.
4. MALMS™ Engineer provides a maintenance audit trail to evidence what work was done, who did it and what was the result.
5. RFID tagging of airfield lights enables easy Identification of airfield assets and removes the need to paint ID's on the tarmac.
6. RFID tagging of fittings ensures only serviceable lights are installed and the right model of the light goes in the right location.
7. MALMS™ Engineer facilitates airfield lighting asset management and supports many of the recommendations set down in international standards.
8. MALMS™ Engineer provides the means to demonstrate that an airport is operating safely.
9. Replaces paper recording methods with an accurate electronic solution.
10. Extensive reporting to alert management with information concerning asset performance, list of work undertaken as well as outstanding or overdue maintenance work.

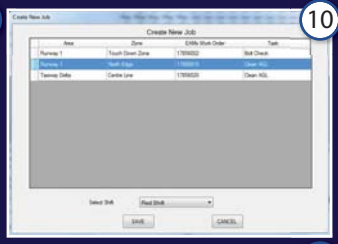
How:

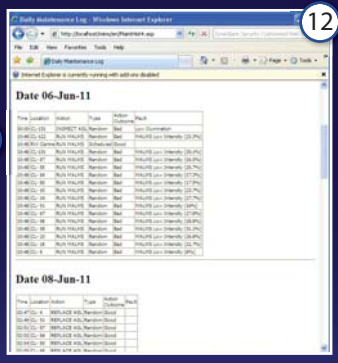
MALMS™ Engineer uses a portable Windows based PC tablet with integrated GPS [1]. The navigator function allows the current location to be displayed on a moving map based on the aerodrome chart for each airport. All lights are shown on the same map [2]. Lights for maintenance work can be located using a compass feature. Airfield locations can either be identified by GPS location or can be identified by reading a RFID tag inserted in the runway [3] with a stick reader [4].

MALMS™ Engineer Inspector allows airfield inspections to be created with faults to be recorded from either a scheduled airfield inspection [5] from a pull down menu or from a MALMS™ photometric test [6] Lights will be identified either by GPS or from RFID tag located in the pavement next to the light fitting [7]. Other AGL assets such as Constant Current regulators can be included for the recording of inspection data [8].









MALMS™ Engineer Supervisor allows the maintenance supervisor to review the history of each light for which a fault has been reported before scheduling a remedial action [9].

MALMS™ Engineer Scheduler allows regular maintenance actions to be scheduled [10].

MALMS™ Engineer Recorder allows all results of maintenance and inspection actions on the runway to be recorded [11].

MALMS™ Engineer Reporter provides an intranet or cloud web based reporting system allowing a full maintenance audit trail to be viewed of individual assets or complete AGL services [12].

MALMS™ Engineer Tagger – an optional item that allows all light fittings to be tagged to ensure that they are installed in the correct position on the airfield with information of which fitting has been installed and where. This also allows the usage history of all fittings to be recorded allowing lights to be circulated through the high usage zones [13].

MALMS™ Workshop Engineer enhances the existing workshop tester system to utilise RFID tagging of fittings to automatically select the required test and record test results [14].

MALMS™ M-Torque is an electronic torque wrench that allows the correct torque setting to each fastener to be undertaken. The measurement for each fastener is recorded and transferred to the MALMS™ Engineer database by Bluetooth [15].

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