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Título/Title

# A330-200 MRTT. ATA 33: Lights System Ground Test Requirements for Civil Configuration

| Palabras clave/Key words | Clasificación acceso<br>Access class |
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**Resumen/Summary**

The object of this Technical Note is to define the requirements for the on ground tests to be performed on the civil Lighting System in the A330 MRTT, in order to check its proper functioning.




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# 1. INTRODUCTION

## 1.1 Scope

The object of this Technical Note is to define the requirements for the on ground tests to be performed on the civil Lighting System in the A330 MRTT, in order to check its proper functioning.

## 1.2 Applicability

This Technical Note is applicable to A330-200 MRTT aircraft for the RAAF in its civil configuration.

## 1.3 Applicable documents and specifications

| Doc Reference | Title |
|---|---|
| NT-FA-SGU-05018 | A330-200 MRTT. ATA 24 Ground Test Requirements |
| NT-FA-SGU-05021 | A330-200 MRTT. ATA 31 MFCD Ground Test Requirements |
| NT-FA-SGU-05022 | A330-200 MRTT. ATA 33 Lights Ground Test Requirements for Military Configuration |
| NT-FA-SGE-05011 | A330-200-MRTT- ECS (ATA21). Ground Test Program Requirements |
| N/A | A330 AMM Royal Australian Air Force |

## 1.4 Abbreviations and definitions

### 1.4.1 Abbreviations

| | |
|---|---|
| A/C | Aircraft |
| AAR | Air Refuelling |
| AMM | Aircraft Maintenance Manual |
| ARO | Air Refuelling Operator |
| BCCS | Boom Computing Control System |
| EEN | Electrical Extension Network |
| FPEEMS | Emergency-Escape Path-Marking System |
| MCO | Mission Coordinator Operator |
| MFCD | Multi-Function Control Display |
| MFD | Multi-Function Display |
| NVIS | Night Vision Imaging System |
| P/B | Push Button |
| SW | Switch |

## 2. AIRCRAFT AND SYSTEM CONFIGURATION

Previously to perform the testing of lights system, it must be checked that the following tests have been performed:

### 2.1 Power supply

Previously to perform any test, it must be checked that continuity tests of power wires which carry the main electrical power from power sources to bus bars, as well as their return power wires, have been made successfully.

The aircraft shall be supplied by external power.

### 2.2 Aircraft environment

The aircraft shall be on ground. All the engines and the APU shall be shut down.

The corresponding system wiring continuity tests shall have been made successfully.

That equipment and components of the corresponding system shall have been properly installed and according to the applicable documentation, and that they are fully operatives.

### 2.3 Systems required to be operational before the test

The equipment of basic aircraft shall be operative before the test

## 3. TEST EQUIPMENT AND REQUIRED INSTRUMENTATION

In order to perform the set of tests described in paragraph 5, an external GPU of 115/200 VAC, 3-phase, 400 Hz test equipment is required.

## 4. PREVIOUS REQUIREMENTS TO TEST

Prior to perform any test, the following requirements must be met:

1. It shall be checked that adequate means to electrical equipment fire extinguishing are present at the aircraft proximity.

2. It shall be checked that the fuel tanks are empty and there is no risk of explosion.

3. It shall be checked that batteries are connected properly, and that have been recharged to their full capacity recently.

4. It shall be checked that all the circuit breakers, control switches and selectors of the electrical installation are in OFF position.

It shall be checked that no other works, which prevent the test right execution, are being performed in the aircraft.

# 5. LIGHTS SYSTEM TEST DESCRIPTION

## 5.1 Previous assumptions

TBD

## 5.2 General cockpit illumination test procedures.

Perform task 33-12-00-710-801 of the Royal Australian air force AMM

## 5.3 Instrument and panel Integral lighting test procedures

Perform task 33-13-00-710-801 of the Royal Australian air force AMM

## 5.4 Annunciator lights functional test procedures

Perform task 33-14-00-710-801 of the Royal Australian air force AMM

## 5.5 Lower deck cargo compartment lighting test procedures.

Perform task 33-34-00-710-801 of the Royal Australian air force AMM

## 5.6 Avionics compartment lighting test procedures.

Perform task 33-35-00-710-801 of the Royal Australian air force AMM

## 5.7 Navigation lights system test procedures

Perform task 33-41-00-710-801 of the Royal Australian air force AMM

## 5.8 Logo lights system test procedures

Perform task 33-47-00-710-801 of the Royal Australian air force AMM

## 5.9 Anticollision/strobe lighting test procedures

Perform task 33-48-00-710-801 of the Royal Australian air force AMM

## 5.10 Wing and engine scan lighting test procedures

Perform task 33-49-00-710-801 of the Royal Australian air force AMM

## 5.11 Cabin emergency lighting test procedures

Perform task 33-51-00-710-801 of the Royal Australian air force AMM