





**Date; 10-3-2016**

**Device; Miami – notts uk – year of manufacture 2009.**

**Scope of report; Annual inspection.**

**Defects found / Reported; extensive corrosion to safety critical components – over head safety restraints.**

- 1) As part of the annual inspection, surface corrosion was noted at the hinge / tube connection point of the overhead restraint bars, the device has 16x single overhead units, the outer polyurethane (padding) covering was removed from 2x safety bars as a percentage strip down, the results can be seen from the 2x attached pictures, there is no documented history of this level of stripdown being carried out on this device- as such we shall assume this is a progressive corrosion over the life of the device – the padding once removed was found to have degraded and as such water and moisture was trapped – sponge like against the steel work.
- 2) The remaining units were stripped down and 14 out of 16 were found to be in varying stages of extreme corrosion.
- 3) The manufacture has supplied 16x new units of which the steel work is galvanised.
- 4) Contact with the manufacturer of the polyurethane covering has confirmed the moulding is weather proof until the outer membrane / finishing is damaged or broken, the other point of entry for water is the sealing between the tube and top of the covering.

**Document control;**

<b>Prepared;</b>	<b>P.Geary – MI Mech/Elec- ONC.</b>
<b>Checked;</b>	<b>S Webster – B Eng (Hons).</b>
<b>Issued / revision;</b>	<b>4857-9 – rev 1. 4857-9- report of urgent defect.</b>

