PURPOSE
The purpose of this Advice Notice is to inform Accredited Enterprises and Exporters that the Australian Meat Industry Language and Standards Committee (AMILSC) has confirmed a change to the current lighting technology used for the Chiller Assessment Torch Pack. This change will take effect from 14 June 2019.

BACKGROUND
The AUS-MEAT Language for Trade Description is currently used by all Australian export registered meat processors (as a mandatory requirement for red meat exports). An optional part of the AUS-MEAT Language is the Chiller Assessment Language which may be used by AUS-MEAT Accredited Establishments.

The requirements for the use of the Chiller Assessment Language are currently defined in the AUS-MEAT National Accreditation Standards (NAS).

The Chiller Assessment program was developed to enable Accredited Enterprises to assess, grade or class carcases using a uniform set of standards under controlled conditions. Chiller Assessment provides a means of describing meat characteristics and of classifying product prior to packaging. These characteristics include the colour of meat and fat, the amount of marbling, eye muscle area, the rib fat and the maturity of the carcase.

CHANGES TO LIGHTING TECHNOLOGY
AUS-MEAT has recently been informed that due to the evolution of the lighting industry (and the inherent focus on energy efficiency) the current 12-volt 20-Watt Dichroic lamps are now being phased out by manufacturer’s and replaced with more efficient LED technologies.

Over the past two (2) months AUS-MEAT, in conjunction with EMROTH Technologies as the supplier of the Chiller Assessment Torch Pack, has been looking at suitable replacement bulb options for future use.

After review of the standard requirements for lighting, two (2) replacement bulbs have been identified, as meeting the current requirements as prescribed within the Standards.

The most notable change in the move from the now outdated Dichroic to the new LED technology, is the amount of light output (Lumens). This appears as the major variation between the replacement bulbs (refer Table 1 below).

A noticeable benefit of the LED technology is the increased beam angle. This provides a wider and more even spread of light.
Table 1: Bulb Specification Comparison – Existing and New Approved Bulbs

<table>
<thead>
<tr>
<th>Specification</th>
<th>Super line BAB</th>
<th>OSRAM LED Superstar</th>
<th>Phillips LED Spot</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input voltage (V)</td>
<td>12V</td>
<td>12V</td>
<td>12V</td>
</tr>
<tr>
<td>Wattage (W) efficiency</td>
<td>20W</td>
<td>6.5W</td>
<td>5W</td>
</tr>
<tr>
<td>Lumens (light output)</td>
<td>160lm</td>
<td>520lm</td>
<td>390lm</td>
</tr>
<tr>
<td>Beam angle (degrees) spread of light</td>
<td>36°</td>
<td>60°</td>
<td>60°</td>
</tr>
<tr>
<td>Correlated Colour Temp (CCT) Kelvin</td>
<td>2950K</td>
<td>3000K</td>
<td>3000K</td>
</tr>
</tbody>
</table>

Note:
- **Super line BAB** - Dichroic Glass Faced Low Voltage Tungsten Halogen Lamp - Current lamp used for chiller assessment (**Existing bulb phased out**)
- **OSRAM LED Superstar** – **Approved new option**
- **Phillips LED Spot** – **Approved new back up option**

STANDARDS UPDATE
In line with the approval of the new bulbs, the NAS (**Section 5.15 List of Approved Chiller Assessment Equipment**) will be amended to include the new specifications.

It is anticipated the revised NAS will be released in early 2020.

IMPLEMENTATION
Approval of the new bulbs is effective from 14 June 2019. Replacement bulbs can be obtained from the industry’s preferred supplier as detailed below.

Name: Emroth Technologies Pty Ltd  
Address: P.O. BOX 1530 KENMORE QLD 4069  
Ph: 07 3375 7161  
Email: sales@emroth.com.au

FURTHER INFORMATION
If you have any queries regarding these changes, please contact AUS-MEAT Tel (07) 3361 9200 or Email: ausmeat@ausmeat.com.au

Bruce Gormley  
General Manager – AUS-MEAT & Industry Standards  
AUS-MEAT Limited

*This advice has been prepared in consultation with the AMILSC*
Emroth Technologies Pty Ltd

Chiller Assessment/Grading Battery Powered Torch

The Emroth Technologies Pty Ltd Chiller Assessment/Grading Torch has been developed to meet the harsh working environment of chillers. The use of powder coated aluminum torch body and battery case makes this a strong reliable work unit. The torch is controlled by electronic voltage sensing circuitry that automatically makes the torch flash when the battery starts to get low. The torch was developed with assistance from AUS-MEAT to ensure suitability for Chiller Assessment.

Features:
- 12 volt 6 Watt Low Voltage LED Lamp
- 60º Beam. Luminous Intensity – 520lm
- Light temperature - 3000k.
- Powder Coated White Aluminum Lamp Body with Glanded Power Lead to Battery Pack Plug.
- Powder Coated White Aluminum Battery Pack (120mm L x 150mm H x 34mm W) with S/S Belt Clip. Battery Pack contains the Fuse, Torch/Charger Plug.
- Power Monitor, monitors the voltage level, while in use, and turns the unit off once the battery gets below 10.5 volts. When the “ON” button is pressed when the battery is below the required voltage level, the lamp will flash and turn off.
- 12 Volt SLA GelCell 2.3AHrs
- Recharger 12 Volt SLA Plug Pack that plugs into the Battery Pack

Options:
The torch comes with either a straight or right angles lead exit at the back of the torch.

Prices: (All Prices are Plus GST)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>01-E710A2</td>
<td>Chiller Grading Torch Kit Standard (Right Angle Lead Exit) Includes Battery Pack and Charger</td>
<td>$480.00</td>
</tr>
<tr>
<td>01-E710A1</td>
<td>Chiller Grading Torch Kit Alternative (Straight Lead Exit), Includes Battery Pack and Charger</td>
<td>$480.00</td>
</tr>
<tr>
<td>52-E710A1</td>
<td>Spare Charger for Chiller Grading Torch</td>
<td>$72.00</td>
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<tr>
<td>52-E710A2</td>
<td>Spare Battery Pack for Chiller Grading Torch</td>
<td>$175.00</td>
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<tr>
<td>52-E710A4</td>
<td>Spare Chiller Grading Torch Standard (Right Angle)</td>
<td>$260.00</td>
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<tr>
<td>52-E710A3</td>
<td>Spare Chiller Grading Torch Custom (Straight)</td>
<td>$260.00</td>
</tr>
<tr>
<td>HG-0001</td>
<td>Red Butchers Belt to suit battery pack (Not part of Torch Kit)</td>
<td>$45.60</td>
</tr>
<tr>
<td>LD-0002</td>
<td>Spare Lamps</td>
<td>$18.75</td>
</tr>
</tbody>
</table>
Emroth Technologies Pty Ltd
Long Life Chiller Assessment/ Grading Battery Powered Torch

The new long life NiMH Emroth Technologies Pty Ltd Chiller Assessment / Grading Torch has been developed to meet the harsh working environment of chillers. The use of powder coated aluminum torch body and ABS battery case makes this a strong reliable work unit. The torch is controlled by electronic voltage sensing circuitry that automatically makes the torch flash when the battery starts to get low. The torch was developed with assistance from AUS-MEAT to ensure suitability for Chiller Assessment.

Features:
- 12 volt 6 Watt Low Voltage LED Lamp
- 60° Beam. Luminous Intensity – 520lm
- Light temperature - 3000k.
- Powder Coated White Aluminum Lamp Body with Glanded Power Lead to Battery Pack Plug.
- Grey ABS Battery Pack (165mm L x 55mm H x 85mm W) with S/S Belt Clip. Battery Pack contains the self resetting fuse, Charging circuitry with status LED and Torch/ Charger Plug. Overload protected.
- Power Monitor, monitors the voltage level, while in use, and turns the unit off once the battery gets below 10.5 volts. When the “ON” button is pressed when the battery is below the required voltage level, the lamp will flash and turn off.
- 12 Volt NiMH Battery
- Recharger 12 Volt NiMH Plug Pack that plugs into the Battery Pack.

Options:
The torch comes with either a straight or right angles lead exit at the back of the torch.

Prices: (All Prices are Plus GST)

01-E411A2     $615.00
Chiller Grading Torch Kit Standard (Right Angle Lead Exit)
Includes NiMH Battery Pack and Charger

01-E411A1    $615.00
Chiller Grading Torch Kit Alternative (Straight Lead Exit), Includes NiMH Battery Pack and Charger

52-E411A1     $80.00
Spare NiMH Charger for Chiller Grading Torch

52-E411A2    $295.00
Spare NiMH Battery Pack for Chiller Grading Torch

52-E411A4    $286.00
Spare Chiller Grading Torch Standard (Right Angle)

52-E411A3    $286.00
Spare Chiller Grading Torch Custom (Straight)

HG-0001     $45.60
Red Butchers Belt to suit battery pack (Not part of Torch Kit)

LD-0002 Spare Lamps $18.75