

## Determinations made by the commission under section 36 of the Victorian Energy Efficiency Target Regulations (2018)

### Determinations made under Regulation 36(1) for the purposes of regulation 18 – for upgrades under Part 27 (Public lighting upgrade)

Date of determination: 20 December 2018

Clause	Determination
36(1)(a) - Lighting design	<p>The lighting design requirements for a lighting upgrade undertaken under Part 27 of Schedule 2 of the Regulations must ensure that the light output of the upgrade lamp or luminaire is either equivalent or superior to the replaced lamp or luminaire, and demonstrate that it:</p> <ul style="list-style-type: none"> <li>• complies with AS/NZS 1158 for upgrades that meet the requirements of AS/NZS 1158, detailing: <ul style="list-style-type: none"> <li>– the location and specifications of all existing lighting equipment in the area to which the lighting design applies</li> <li>– the location and specification of all lighting equipment to be installed in the area to which the lighting design applies</li> <li>– 3) information demonstrating that all the light technical parameters for the applicable subcategories in the upgrade have been met.</li> </ul> </li> <li>• meets the requirements of the asset owner as agreed and signed off by the energy consumer for upgrades that deviate from the requirements of AS/NZS 1158, detailing: <ul style="list-style-type: none"> <li>– the location and specifications of all existing lighting equipment in the area to which the lighting design applies,</li> <li>– the location and specification of all lighting equipment to be installed in the area to which the lighting design applies,</li> </ul> </li> </ul>

– all other requirements of the asset owner and energy consumer

36(1)(b) - Consumer acceptance of lighting design  
The energy consumer has demonstrated acceptance of that lighting design if the energy consumer signs the appropriate section of the AS/1158 Compliance Declaration Template that supports the VEEC Assignment Form, as enabled in section 16(3) of the Act and required for each installation undertaken as a prescribed activity under that Part

36(1)(c) - Preparation and sign-off of lighting design  
The person developing that lighting design, also referred to as design consultant, is any individual approved by the distribution network service provider, responsible road authority or council to be responsible for preparing and/or signing off on the lighting design and the AS/NZS 1158 compliance declaration, as specified in the [Public Lighting Upgrade Activity Guide](#).

## Determinations made under Regulation 36(1) for the purposes of regulation 21 - for upgrades under Part 35 (Non building based lighting upgrade)

Date of determination: 20 December 2018

Clause	Determination
36(1)(a) - Lighting design	<p>The lighting design for a lighting upgrade undertaken under Part 35 of Schedule 2 of the Regulations must:</p> <ul style="list-style-type: none"><li>• meet the installation and performance requirements of the relevant part of AS 2560; or</li><li>• have a documented and approved justification to deviate from the installation and performance requirements of the relevant part of AS 2560; or</li><li>• meet the minimum illuminance standards determined as part of the process for the upgrade to be exempted from the installation and performance requirements of the relevant part of AS 2560; or</li><li>• ensure the upgrade meets relevant legislation, codes and guidelines relating to power factor and does not have a detrimental impact on the customer's compliance with Section 4.3 of the Electricity Distribution Code; and</li><li>• be able to demonstrate they meet the relevant requirement outlined above.</li></ul>

36(1)(b) - Consumer acceptance of lighting design	The energy consumer has demonstrated acceptance of that lighting design if the energy consumer signs the appropriate section of the AS/NZS 1158 Compliance Declaration Template or AS 2560 Compliance Declaration Template that supports the VEEC Assignment Form, as enabled in section 16(3) of the Act and required for each installation undertaken as a prescribed activity
36(1)(c) - Preparation and sign-off of lighting design	<p>The person that develops that lighting design must have the following experience or qualifications or meet the following requirements:</p> <ul style="list-style-type: none"> <li>• Member of the Illuminating Engineering Society of Australia and New Zealand, or</li> <li>• Fellow of the Illuminating Engineering Society of Australia and New Zealand Limited, or</li> <li>• Registered Lighting Practitioner - Illuminating Engineering Society of Australia and New Zealand.</li> </ul>

## Determinations made under Regulation 36(2) for the purposes of regulation 17(2) - Decommissioning declarations

Date of determination: 20 December 2018

Clause	Determination
36(2) – Requirements for decommissioning declarations	<ul style="list-style-type: none"> <li>• The decommissioning declaration made by the person who proposes to create certificates under regulation 17(1) of the Regulations must be done at the time prior to creating certificates in the VEU registry portal by ticking the box that includes the declaration; and</li> <li>• The decommissioning declaration made by the energy consumer in respect of whom the prescribed activity is undertaken under regulation 17(1) of the Regulations must be done by signing the consumer details and declaration section in the VEEC Assignment Form as enabled in section 16(3) of the Act and required for each installation undertaken as a prescribed activity</li> </ul>

## Determinations made under Regulation 36(3) for the purposes of regulation 17(3) – Class of waste disposal facility of a type of lighting equipment

Date of determination: 20 December 2018

**Determination:** The types of lighting equipment decommissioned as a result of a prescribed activity referred to in Schedule 2 of the Regulations and specified in column one must be disposed of in the class of waste disposal facility that is specified in column two prior to the creation of certificates.

Type of decommissioned lighting equipment	Class of waste disposal facility
Mercury-containing equipment: lamps which uses mercury for their operation and any other lighting equipment potentially contaminated with mercury as a result of in-house recycling or disassembling attempts	A licensed recycling facility: A facility licensed by the EPA to accept D121 waste for the purpose of recycling at that facility (has a license for treatment code R4) or a facility licensed to recycle mercury containing wastes by the relevant environmental protection regulator in other jurisdictions.

## Determinations made under Regulation 36(4) for the purposes of regulation 20 - for upgrades under Part 34 (Building based lighting upgrade)

Date of determination: 20 December 2018

Clause	Determination
36(4) – Manner and form of applications	<p>An application to the ESC under regulation 20(1) of the Regulations for a lighting upgrade made under Part 34 of Schedule 2 of the Regulations must be made in writing by submitting via <a href="mailto:veu@esc.vic.gov.au">veu@esc.vic.gov.au</a> prior to the commencement of the upgrade. The application must be prepared by a qualified lighting designer as determined by us and must:</p> <ul style="list-style-type: none"> <li>specify why it is unreasonable to expect the lighting upgrade to achieve the minimum illuminance or recommended level of maintained illuminance specified in the relevant part of AS/NZS 1680</li> <li>propose an alternative standard applicable to the upgrade and provide a rationale for why it is applicable to the given purpose/task relating to the lighting upgrade</li> </ul>

- provide evidence that the proposed standard is equivalent to the intent of the principal standard (being AS/NZS 1680) and appropriate for the installation environment
- provide details of the minimum or maintained illuminance (lux) levels that apply to each area of the lighting upgrade
- provide additional requirements relevant to the lighting upgrade (e.g. light level depreciation, glare, uniformity of illuminance, recommended maintenance regime, where relevant)

## Determinations made under Regulation 36(4) for the purpose of regulation 22 - for upgrades under Part 35 (Non building based lighting upgrade)

Date of determination: 20 December 2018

Clause	Determination
36(4) – Manner and form of applications	<p>An application to the ESC under regulation 22(1) of the Regulations for a lighting upgrade made under Part 35 of Schedule 2 of the Regulations must be made in writing via <a href="mailto:yeu@esc.vic.gov.au">yeu@esc.vic.gov.au</a> prior to the commencement of the upgrade. The application must be prepared by a qualified lighting designer as determined by us and must:</p> <ul style="list-style-type: none"> <li>• specify why the lighting upgrade is not of a kind for which AS/NZS 1158 or AS 2560 is designed propose an alternative standard applicable to the upgrade and provide a rationale why it is applicable to the upgrade</li> <li>• provide evidence that the proposed standard is equivalent to the intent of the AS/NZS 1158 or AS 2560 standard and appropriate for the installation environment (where relevant)</li> <li>• provide details of the illuminance (lux) levels for each area of the lighting upgrade</li> <li>• provide additional requirements relevant to the lighting upgrade (e.g. light level depreciation, glare, uniformity of illuminance, recommended maintenance regime, where relevant).</li> </ul>

## Determinations made under Regulation 36(4) for the purposes of regulation 32 - Application to the ESC to list a product on the ESC register

Date of determination: 20 December 2018

Clause	Determination
36(4) – Manner and form of applications	<p>An application to the ESC under regulation 32(2)(a) of the Regulations to list a product on ESC register must be made:</p> <ul style="list-style-type: none"><li>• by a VEET account holder using the electronic form designated by the commission on the VEET website</li><li>• in accordance with any product application guidelines issued by the commission</li><li>• via the online product approval function designated by the commission on the VEET website, together with any additional information and documentation indicated on the electronic form or in any product application guidelines issued by the commission</li><li>• provide further information in relation to the application as required by the commission.</li></ul>

## Determinations made under Regulation 36(6) - for upgrades under Part 21 (Incandescent lighting), Part 27 (Public lighting upgrade), Part 30 (In-home display unit), Part 34 (Building based lighting upgrade), and Part 35 – (Non building based lighting upgrade)

Date of determination: 20 December 2018

**Determination:** Light sources must meet the performance requirements specified in column one, and have been tested in accordance with the approved laboratory tests specified in column two to meet the suitability criteria for that product to replace a decommissioned product, as specified in column three, when installed as a prescribed activity referred to in Part 21, 27, 30, 34 and 35 of Schedule 2 of the Regulations as specified in column four.

Performance requirement	Approved laboratory tests	Suitability criteria	Relevant part in Schedule 2
80% of the luminous intensity measures values (candelas) shall vary by no more than 35% from the average of all measured values in the 0° to 130° zones	Test report using IES LM-79-08	Omni-directionality and uniform light distribution	21A
All measured values (candelas) in the 0° to 130° zones shall vary by no more than 60% from the average of all measured values in that zone	Test report using IES LM-79-08	Omni-directionality and uniform light distribution	21A
No less than 5% of total flux (zonal lumens) shall be emitted in the 130° to 180° zone	Test report using IES LM-79-08	Omni-directionality and uniform light distribution	21A

**Determinations made under Regulation 36(5)(a) – Lamp circuit power (LCP) for a light source to be decommissioned or replaced under Part 27 (Public lighting upgrade), Part 34 (Building based lighting upgrade), or Part 35 (Non building based lighting upgrade)**

Date of determination	Lamp brand (type)	Lamp model	LCP
06/07/18	Cleanwatt (induction)	BN-WJD 200W	200W
06/07/18	Cleanwatt (induction)	BN-WJD 150W	150W
17/07/18	Green Tomorrow (induction)	GTGC01F-W200	200W
20/07/18	BemiLighting (induction)	GDD207-WJ200C	200W
23/07/18	Eye Lighting (self-ballast mercury)	SBML 500W	500W
25/07/18	Phillips (self-ballast mercury)	ML 500W	500W
31/07/18	Eye Lighting	500W SB E37	500W
16/08/18	ESP	LED HB200	200W
29/08/18	Bemi Lighting (induction)	GDD226-WJ200/T	200W
29/08/18	Luvia Lighting Concepts (induction)	GDD226-WJ200/T	200W
30/08/18	Eye Lighting (self-ballast mercury)	500W SB/R57	500W
17/09/18	Eye Lighting	MF1000LE/BUH	1000W
20/09/18	Induction Lighting Australia	GK0304-200W (ILA-GK0304)	200W
26/09/18	Eye Lighting (self-ballast mercury)	EYE SBML 500W	500W
27/09/18	YML Induction lamp	YML-GC01F - W200	200W
12/10/18	Kosnic LED Tube	KTC20T8-W65	26W
08/05/19	EYE Lighting	SBML 500W	500W
06/08/19	Bright Light Systems	BLP1100	540W