

Requirements for the provision of power to gaming equipment

Version 2.6.1

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1 Introduction

This document was formerly known as “Requirements for the Provision of Power to electronic Gaming Machines”.

The intent of this document is to guide the industry in providing safe and reliable gaming equipment installations in QLD machine gaming venues such as Electronic Gaming Machines.

The document is divided into sections. Section 2 is a “general” section that contains requirements that are applicable to all types of gaming equipment. The sections following section 2 specify additional requirements for specific items of gaming equipment.

If it is unclear which requirements apply to which items of gaming equipment, OLGR should be contacted by sending an email to olgrnotify@justice.qld.gov.au.

2 General

- 2.1 The number and location of switched socket outlets (SSOs) required in a gaming venue should be discussed with the venues Licensed Monitoring Operator (LMO) or the LMO’s Service Contractor.
- 2.2 Switched socket outlets (SSOs) are to be positioned as close as practical to the planned location of individual items of gaming equipment, while preventing the general public having easy access to the power switches.
- 2.3 Power to gaming equipment must be in accordance with relevant regulatory electrical standards. Important areas requiring specific attention include:
 - a. SSOs must be readily available and the gaming equipment power lead plug tops must be able to be easily withdrawn.
 - b. Gaming equipment power leads must be visually inspected and verified to be in good condition.
 - c. Gaming equipment power leads are to be installed in such a manner to prevent physical damage.
 - d. SSOs must not be physically damaged, must not have exposed wiring and must be securely fixed in position.
 - e. Gaming equipment power leads must be able to be fully withdrawn from the SSOs and Gaming equipment without impediment.
- 2.4 If an SSO is to be mounted inside an Gaming Machine console (or base), the following requirements apply:

- a. SSOs must not be installed behind the cash box as power cords may be damaged when the cash box is inserted.
 - b. Installed SSOs must be readily available in accordance with the relevant regulatory electrical standards.
- 2.5 The use of double adapters, power boards and expandable modular power systems are not permitted for use with gaming equipment. This is to prevent non-gaming equipment (such as cash registers, cigarette machines, and fridges etc) from being able to affect the integrity of gaming.
- 2.6 Where premises are in the same locality as a wharf crane, factory, brewery or other heavy demand facility, the local electricity authority should be consulted for advice.
- 2.7 Gaming equipment should be on a separate circuit to other non-gaming equipment within the premises.

3 Electronic Gaming Machines (EGMs)

This section details the guidelines for the provision of power to Electronic Gaming Machines. Electronic Gaming Machines (EGMs) operate off 240V, single phase power using standard Australian 3 pin 10A switched socket outlets (SSO).

- 3.1 A minimum of a single SSO is required per EGM. In some cases it may be desirable to have more than one SSO per EGM. For example if the venue has stand-alone jackpot displays or player loyalty systems.
- 3.2 SSOs for EGMs are to be mounted inside gaming machine consoles. For requirements relating to mounting SSOs inside consoles, refer to section 2.4.
- 3.3 EGMs may, in the worst case, use in excess of three (3) Amperes (NB: this figure can vary significantly between brands and models of EGMs). This must be taken into account when loading electrical circuits. For example, no more than 4-5 EGMs should be used on a 15A or 16A circuit, and no more than 6 EGMs should be used on a 20A circuit.
- 3.4 It is acceptable for EGMs to be installed on the same circuits as other gaming equipment, provided that circuit loading capacity is not exceeded.
- 3.5 EGMs should be on a separate circuit to other non-gaming equipment within the premises.
- 3.6 EGMs each have an internal line filter that assists in smoothing out transients. Spikes and over voltages are generally dissipated by other circuitry. In certain circumstances it may be advisable to further protect the EGMs by incorporating a larger filter on the circuit to which the EGMs are connected.

4 Monitoring System Site Controllers

Site Controllers are devices that are an integral part of a Licensed Monitoring Operator's (LMO) monitoring system used to communicate with Electronic Gaming Machines. Site Controllers operate off 240V, single phase power using standard Australian 3 pin 10A switched socket outlets (SSO).

- 4.1 A minimum of a single SSO is required per Site Controller. A minimum of two is recommended due to the amount of ancillary gaming equipment also being utilised.
- 4.2 Site Controllers must be fitted with power line filters and surge protection. (Refer ANSI/IEEE C62.41 or AS/NZS1768-1991 Category A compliance.) Minimum 55KA surge current and 1800 Joules energy absorption for new or upgraded SC installations.
- 4.3 Site Controllers must be operated on a separate circuit with respect to other non-gaming equipment within the premises. (It is acceptable to have more than one Site Controller on a circuit as well as other gaming equipment.)
- 4.4 Site Controllers must be installed such that authorised people have unimpeded access. For example, seal inspections and maintenance.

5 Revision History

Version	Changes	QIR	Who	Release Date	Incept Date
2.0	Initial Release	0	GJ	06-06-2002	
2.3	Added : A minimum of a single GPO per console is required Changed the wording of the 15A circuit requirement, Tidied up referencing to GPOs / Power outlets / outlets. Changed the requirement of mounting GPOs (only if they are semi permanent or permanent) near EGMs to always mounting them inside (due to a determination by the electrical authority that consoles are always semi permanent or permanent.	218	CC	28-04-2004	
2.4	Modified references to GPO to be industry standard SSO. Improved example for requirement 1.	0	MB	19-05-2005	
2.5	Changed scope and document title to apply to all gaming equipment. Changed formatting to now include sections. Added Site Controller requirements. Proposed a level of surge protection on Site Controllers	523	MB / RLL	09-09-2009	
2.6	Updated to new DEEDI report document template		YL	20-8-2010	
2.6.1	Updated to new JAG report document template		JG	3-5-2016	