EGM COMBINATIONS CHECKLIST FOR SOUTH AFRICA

Project code:	Examine	Examiner:		tart date:
Product Name:		Product Version:		
Items used for testing				
Jurisdiction software:				
Emulator Software version:				
Emulation device name:		Emulation device vers	sion:	

Check Jurisdiction's Technical Requirements

All Specifications can be found on Q:\Specs. Tick the System Technical Specifications used:

SANS 1718-1: 2019	Gaming Equipment Part 1: Casino Equipment, Edition 3	
SANS 1718-2: 2016	Limited Payout Gaming Equipment, Edition 4	
OTHER		

Note(s):

- Use the combinations test procedure under Public:\BMM\BMM General PSD Information\Test Procedures\Combinations Test or math department generated checklist.
- Change spreadsheet accordingly to suit the game under test and all its available features.
- For LPM's only SANS 1718-2 requirements apply. All LPM's specific requirements are marked in grey.
- For Casino's only SANS 1718-1 requirements apply.
- a PASS indicates that the test has been successfully performed;
- a FAILURE indicates that the test has been performed but was unsuccessful; a DIRT number and/or an explanation is to be noted beside this
- a N/A indicates that the test is not applicable a reason MUST be included;
- a N/D means the test was not performed a reason as to why MUST be included.
- When mistakes occur in checklists or other technical documents, each mistake shall be crossed out once, corrected illegible, and the correct value entered alongside. All such alterations shall be signed or initialled by the person making the correction.
- All checklists are to be completed in pen or electronically (last page should be signed physically unless using an advanced digital signature). Pencils are not to be used. Tipex are not to be used.
- "BMM Test" in the External Reference column indicates a test developed to accommodate the BMM testing requirements which are not covered by the National Standards and/or relevant appendices.
- In the case of multi-games, all games must be enabled for evaluation. Relevant requirements must be checked for each game.
- Take pictures of the EGM displayed software ID together and the signatures, possible maximum bets and the displayed RTP's.
- All highlighted text in red is amended or updated in the latest standard

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вмм		DESCRIPTION		Pass	FAIL	N/A	NOTES
REF#		DESCRIPTION		Ex	TERNAL R	EF#	140123
1.	COMPLIANCE TE	STING					
1.1	The base gam artwork.	e pays as adver	tised on the				
1.1	arework.				BMM Tes	st	
1.2		es reelstrips, if d , match the par					
1.2	reelstrips (all		Sileets		BMM Tes	st	
1.3	The free game the artwork.	e feature pays a	s advertised on				
1.3	the artwork.				BMM Tes	st	
	All bonuses/features rules and pays have been evaluated: Feature 1:						
1.4							
	Feature 2		BMM Test				
	Feature 3:						
	Does the displayed RTP matches the client calculated RTP listed on the par sheets? Displayed RTP:						
1.5	Variation	Displayed RTP	Result	BMM Test		st	

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вмм	Description	PASS FAIL N/A	Notes
REF#	DESCRIPTION	EXTERNAL REF #	NOTES
1.6	List all possible maximum bet configurations. Ensure that all possible maximum bet configurations can be configured and that they match the manufacturer's documentation. Max Bets		
1.7	Each GD shall have a function or program that displays the current software version(s) installed on the device.	SANS1718-1 – 8.1.1.3 SANS1718-2 – 8.1.1.3	
2.0	Game design requirements	SANS1718-1 – 10.1 SANS1718-2 – 10.1	
2.1	General	SANS1718-1 -10.1.1 SANS1718-2 -10.1.1	
2.1.1	Games that have a component of strategic skill (for example, draw poker and blackjack) shall comply with the following requirements: b) any strategy advice or automatic holds shall be fair and not misleading to the player and shall not represent a poor choice;	SANS1718-1 – 10.1.1A SANS1718-2 – 10.1.1A	
2.1.2	c) the player shall be able to override the automatic hold; and	SANS1718-1 – 10.1.1C SANS1718-2 – 10.1.1C	
2.1.3	The presentation of mapped symbols or artwork shall not alter or be modified during play, except in cases of animation during a play or as a part of the game rules, which shall be clearly described on the artwork, otherwise this constitutes a different game.	SANS1718-1 – 10.1.2 SANS1718-2 – 10.1.2	
2.1.4	A machine shall not have any faults present,		

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вмм	DESCRIPTION	Pass	FAIL	N/A	Notes			
Ref#	DESCRIPTION	Ex	TERNAL RI	EF#	NOTES			
	or be in any test, metering, door open or lockup mode, etc., for a game to begin.		718-1 – 1 718-2 – 1					
245	Gamble features that place an amount won							
2.1.5	by the player at risk (for example, double- up) are not permitted.	SANS17	718-2 – 1	.0.1.5				
	Credits bet may come from the credits that							
2.1.6	the player has available to bet or from the number of coins inserted.		718-1 – 1 718-2 – 1					
	The game may not be considered to be							
2.1.7	completed until all the appropriate meters for the game have been updated. It is permissible to update the credit meter before the completion of play provided that critical memory is updated when the credit meter is updated.		SANS1718-1 – 10.1.6 SANS1718-2 – 10.1.7					
	If multigames are implemented, there shall be a method available so that it is possible							
to disable and enable individual games of multigame GMs. If it is not possible to enable and disable an individual game, the entire machine shall be capable of being enabled or disabled.			718-1 – 1 718-2 – 1					
3.0	Rules		718-1 – 1 718-2 – 1					
3.1	A game shall follow a constant set of rules and shall at no time deviate from those rules. A rule change constitutes a different game, although variations to the maximum number of credits bet per game or lines per game (or both) are permitted. This requirement does not preclude implementations of games with multiple parts or features provided that the rules are clear to the player.		718-1 – 1 718-2 – 1					
4.0	Game fairness objectives		718-1 – 1 718-2 – 1					
	Each time a game element (base, primary,							
4.1	feature, bonus or free) is played, there shall be a chance of obtaining any of the results displayed on the appropriate paytable of that game.		718-1 – 1 718-2 – 1					
	Events of chance within the games shall be independent of (i.e. not correlated with)							
4.2	any other events within the game or any other events within previous games, except as provided by the rules of the game (for example, for metamorphic games).		718-1 – 1 718-2 – 1					

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вмм	DESCRIPTION	Pass	FAIL	N/A	Notes
REF#	DESCRIPTION		TERNAL R	EF#	NOTES
	All games shall not cheat the player or be designed to give the player a false expectation of better odds by falsely representing any occurrence or event. NOTE Virtual reels are acceptable.				
4.3			718-1 – 1 718-1 – 1		
	The intent of the objectives is to ensure				
4.4	that, where applicable, the probability distribution of each event within a game is as it	SANS17	718-2 – 1	.0.3.3A	
	a) appears to the player,				
4.5	b) is represented to the player, and				
		SANS17	718-2 – 1	.0.3.3B	
	c) could reasonably be inferred by the player.				
4.6	NOTE This requirement does not prohibit the use of virtual reels.	SANS17	718-2 – 1	.0.3.3C	
	The player shall be advised as to the frequency of the shuffling of cards (for example, by wording in the artwork or on the display screen).				
4.7			718-1 – 1 718-2 – 1		
4.8	Game fairness objectives for games such as				
	horse, car or animal racing, golf or football and virtual reality games shall be assessed on a case-by-case basis applying the general game fairness objectives.		718-1 – 1 718-1 – 1		
	Capping of awards shall not be permitted.				
4.9		SANS17	718-1 – 1	.0.3.6	
		SANS17	718-1 – 1	.0.3.7	
5.	Result-determination methodologies		718-1 – 1 718-2 – 1		
	In the case of any GD, result determination for each individual play within a game shall				
5.1	a) be for all attainable combinations of the mapped symbol set (except for random awards),		718-1 – 1 718-2 – 1	-	
	b) be clearly specified on the exterior of the				
5.2	gaming equipment (or in a way readily available to the player and clearly apparent),		718-1 – 1 718-2 – 1	-	
	c) be a consequence of one of the result				
5.3	determination methodologies described in this clause and approved by the PLA,		718-1 – 1 718-2 – 1		
5.4	e) ensure that the maximum prize is not				

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вмм	DESCRIPTION	Pass	FAIL	N/A	Notes
REF#	DESCRIPTION	Ехті	ERNAL RE	F#	NOTES
	greater than that specified in legislation	SANS171	_	-	
		SANS171	18-2 – 1	0.4.1E	
		SANS171			
		SANS171	18-2 – 1	0.4.3	
	The result in game play can be determined in the following ways:				
5.5	a) pure chance;	SANS171			
	(a) part of the	SANS171	18-2 – 1	0.4.4A	
	b) pure chance plus skill where the skill				
5.6	element is supported by hold and selection strategies; and	SANS171	18-1 – 1	0.4. <mark>5</mark> B	
		SANS171	18-2 – 1	0.4.4B	
	c) pure chance plus skill where the skill				
5.7	element involves eye and hand coordination.	SANS171	18-1 – 1	0.4. <mark>5</mark> C	
	Coordination.	SANS171	18-2 – 1	0.4.4C	
	The GD shall not have any means of				
	manipulation that can affect the				
5.8	probabilities of random event outcomes during game play.	SANS171			
		SANS171	18-2 – 1	0.4.5	
	Events of chance within games shall not be				
	influenced, affected, controlled or				
5.9	determined by anything other than (in conjunction with the prevailing payout				
3.5	table) numerical values obtained in an	SANS1718-1 – 10.4.7 SANS1718-2 – 10.4.6			
	approved way from the certified RNG.	JAN3171	10-2 – 1	0.4.0	
	If a minimum jackpot base is required to achieve the minimum RTP, as specified by	1	<u> </u>		
	the PLA, then the minimum value of the				
5.10	jackpot base must be recorded	SANS171	18-1 – 1	0.4.4A	
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				
	a) on the test report for the GD to be certified by the CA, and				
	33.5, 33.5, 33.5				
5.11					
5.11	b) in the documentation /manuals required in part 1 clause 4.1.	SANS171	18-1 – 1	0.4.4B	
	in part I clause 4.1.				
6.0	Game features	SANS1718-1 - 10.5			
		SANS17	18-2 – 1	.0.5	
6.1	If a feature activity is provided in which the				

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вмм	DESCRIPTION	Pass	FAIL	N/A	Notes
REF#	223411111011	Ext	TERNAL RI	EF#	110125
	player has to wager credits, the player shall be given a choice whether to enter the feature activity or not. A player who elects not to enter the feature activity shall be positioned at the beginning of the primary game.		/18-1 – 1 /18-2 – 1		
6.2	A game may offer random awards, provided that the award value complies with that specified by legislation (see foreword).				
6.3	Initial entry to a feature activity shall be conditional upon an immediately preceding occurrence of a winning event in the primary game.				
7.	Metamorphic features	-	'18-1– 1 '18-2– 1		
7.1	Where allowed by the PLA, features that are not completely independent of play history (i.e. that are metamorphic) shall a) display clearly to the player which game rules apply to the current game state,		/18-1 – 1 /18-2 – 1		
7.2	b) display to the player sufficient information to indicate the current status towards the triggering of the next metamorphosis of the game (for example, if the game collects tokens towards a feature, the number of tokens missing or the total number required to trigger the metamorphosis shall be indicated along with the number of tokens collected at that point),		 18-1 – 1 18-2 – 1		
7.3	d) not be misleading. If a game's metamorphosis is triggered after accruing a certain number of tokens or combination of tokens of different kinds, the probability of obtaining such tokens shall not deteriorate as the game progresses (for example for identical tokens the last few tokens needed shall not be more difficult to obtain than the previous tokens of that kind).	SANS1718-1 – 10.6.1D SANS1718-2 – 10.6.1D			
7.4	Any accumulated metamorphic game tokens shall not be lost during a full reconfiguration if the game that includes the tokens is still available after the full reconfiguration.		/18-1 – 1 /18-2 – 1		
7.5	The maximum stake wagered, and prize				

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вмм	Description	Pass	FAIL	N/A	Notes
REF#	DESCRIPTION	Ex	TERNAL RI	EF#	NOTES
	paid out by the game over the cycle of both the metamorphic and non-metamorphic parts of the game shall not exceed that specified in legislation (see foreword).		718-1 – 1 718-2 – 1		
7.6	If a metamorphic feature game requires extra credits to be wagered and the game accumulates all winnings (from the trigger and the feature) to a player win display (rather than directly to the player's credit display), the game shall a) provide a means where winnings on the player win display can be bet (by means of the credit display) to allow for instances where the player has an insufficient credit balance to complete the feature, and		718-1 – 1 718-2 – 1		
7.7	b) transfer all credits on the player win display to the player credit display upon completion of the feature.		718-1 – 1 718-2 – 1		
8.	Card games		718-1 – 1 718-2 – 1		
8.1	The consequences for games that depict cards being drawn from a pack are the following: a) at the start of each game/hand, cards shall be drawn fairly from a randomly shuffled pack that consists of the full set of cards applicable to the game depicted;		718-1 – 1 718-2 – 1		
8.2	b) once removed from the pack, cards shall not be returned to the pack except as provided by the rules of the game depicted;		718-1 – 1 718-2 – 1		
8.3	c) the pack shall not be reshuffled except as provided by the rules of the game depicted;		718-1 – 1 718-2 – 1		
8.4	d) as cards are removed from the pack they shall be immediately used as directed by the rules of the game (i.e. they shall not be discarded owing to adaptive behaviour by the GD); and		718-1 – 1 718-2 – 1		
8.5	e) it is permitted to reshuffle the remainder of the deck between draws during a single game.		718-1 – 1 718-2 – 1		
9	Ball-drawing games		718-1 – 1 718-2 – 1		
9.1	The consequences for games that depict				

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вмм	DESCRIPTION	Pass	FAIL	N/A	Notes
REF#	DESCRIPTION	Ex	TERNAL RI	F#	NOTES
	balls being drawn from a barrel (for example, bingo) are as follows: a) at the start of each game, only balls applicable to the game shall be depicted;		718-1 – 1 718-2 – 1		
9.2	b) once removed from the barrel, balls shall not be returned to the barrel except as provided by the rules of the game depicted;		/18-1 – 1 /18-2 – 1		
9.3	c) the barrel shall not be remixed except as provided by the rules of the game depicted; and		/18-1 – 1 /18-2 – 1		
9.4	d) as balls are drawn from the barrel, they shall be immediately used as directed by the rules of the game (i.e. they shall not be discarded owing to adaptive behaviour by the GD).		718-1 – 1 718-2 – 1		
10	Roulette wheel, spinning reels, dice rolling, coin tossing games		718-1 – 1 718-2 – 1		
	In the case of games that depict or involve either a) the spinning of reels (such as slot				
10.1	machines or poker machines), b) the spinning of wheels (such as roulette), c) the rolling of dice, d) the tossing of coins, or e) other similar depictions, The requirements in 10.9.2 and 10.9.5 shall apply		718-1 – 1 718-2 – 1		
10.2	if virtual reels that map to physical reels are used, each of the reel stops of the virtual reel strip shall have the same probability of occurring (i.e. if the virtual reel consists of n positions, the probability of occurrence of each position shall be 1 or n). Symbols of the virtual reel shall appear to the player in the same arrangement as the corresponding symbols of the physical reel would (i.e. it shall not be possible to determine by observing the symbols displayed on the machine that the virtual reels are used instead of physical reels). This observation extends to all symbols visible to the player. Accordingly, mapped symbols shall have identical sequences of preceding and following symbols (if these symbols are visible to the player) on both the physical and virtual reel strip;		/18-1 – 1 /18-2 – 1		

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Signature:

Completion Date:

вмм	DESCRIPTION	Pass	FAIL	N/A	Notes	
REF#	DESCRIPTION		TERNAL RE	F#	INOTES	
	The behaviour of each reel, wheel, die or coin etc., shall be independent of (i.e. uncorrelated with) all other reels, wheels, dice or coins etc.;					
10.3			718-1 – 1 718-2 – 1			
	The behaviour of each reel, wheel, die or coin etc., shall be independent of (i.e.					
10.4	uncorrelated with) its previous behaviour;		718-1 – 1 718-2 – 1			
	for each wheel, die or coin, etc. depicted, the probability of any one face appearing					
10.5	shall be as for the actual physical device (for example, 1/20 for a 20 wheel; 1 /6 for a sixfaced die; and ½ for a coin).		718-1 – 1 718-2 – 1			
PASS		FAIL				
Please tick one of the above to indicate if this checklist has been successfully completed or not. If FAIL is ticked, please list the DIRT number and/or issues, below.						
Commen	ts:					

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