

#### RANDOMNESS EVALUATION REPORT

FOR

NG ENTERTAINMENT LTD

FIREBALL INFERNO

HTML5-DESKTOP

1.0

**CONFIDENTIAL** CERTIFICATE NUMBER: e2313863NTGMLTM



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#### SECTION 1. GENERAL INFORMATION

License Holder:	NG Entertainment Ltd 30/1 Kenilworth Court Sir Augustus Bartolo Street TA' Xbiex XBX 1093 Malta
Game Name:	Fireball Inferno
Game Type:	Casino Slot
Platform Type:	HTML5-Desktop
Game Version:	1.0
Applicable Technical Standards:	Licensing requirements of the Malta Gaming Authority ('MGA') Subsidiary Legislation 438.04 Remote Gaming Regulations Third Schedule, Regulation 25
Testing Laboratory:	eCOGRA Limited, trading as 'eCOGRA' 2/F Berkeley Square House Berkeley Square London W1J 6 BD United Kingdom
Test Engineers:	Kabelo Williams; Tshavhungwa Mukhanu; Ridhwaan Shariff
Supervisor:	Thabang Maganedisa
Request for Report:	26 September 2023
Report Date:	16 October 2023
Certificate Number:	e2313863NTGMLTM



In our opinion the game listed as tested in this report complies with the relevant sections of the licensing requirements of the Malta Gaming Authority ('MGA').

The test results obtained for NG Entertainment Ltd's Fireball Inferno HTML5-Desktop 1.0 game produced statistically acceptable random numbers that were free of any significant statistical bias or predictability.

Pierre Jordaan, Compliance Director



## SECTION 2. INTRODUCTION

eCOGRA has been appointed by NG Entertainment Ltd to evaluate and certify the following Slot game for compliance with the relevant licensing requirements Subsidiary Legislation 438.04 Remote Gaming Regulations, Third Schedule, Regulation 25 of the Malta Gaming Authority ('MGA').

Fireball Inferno (1.0) - NG Entertainment Ltd

This certification report highlights our key findings as a result of the evaluation conducted on HTML5-Desktop, 1.0, which is the pre-production environment which is essentially the same as the live environment. The testing was conducted on the aforementioned platform established at NG Entertainment Ltd during the period 26 September 2023 to 16 October 2023.

Please note that this is an initial certification conducted over Fireball Inferno, HTML5-Desktop, 1.0 and therefore this game certificate does not supersede any previous certifications.



#### SECTION 3. RNG COMPONENTS

The Random Number Generator (RNG) as detailed in Section 2 and used by NG Entertainment Ltd in their Fireball Inferno (1.0) product was previously certified by Gaming Laboratories international (Refer to RNG report: 413/19/001/UK/RTS/02). The scope of eCOGRA's randomness testing was limited to testing the randomness of the game output of the Fireball Inferno (1.0) game.

Software Provider:	
Software Provider Address:	
Product Name:	
Product Description:	
Jurisdiction:	
Jurisdiction address:	Refer to GLI RNG report: 413/19/001/UK/RTS/02
Test entity:	
Test entity address:	
Date:	
Approval:	



#### SECTION 4. TEST RESULTS

Numerous recognised statistical and mathematical tests were performed on a 1,000,000 rows of sample data, provided by NG Entertainment Ltd, of the game output to verify the RNG operates in a random and fair manner. This included tests for probability (to ensure the expected number of occurrences), randomness (so that the following occurrence cannot be predicted with any degree of certainty) and uniformity (to determine that each possible outcome is equally likely over the long-term). The acceptance criteria for the statistical tests is a pass at a 95% confidence level.



#### SECTION 5. GAME DESCRIPTION

Fireball Inferno (1.0)

#### Game Description:

Fireball Inferno is played with 20 fixed paylines and each game costs a minimum of 20 fixed coins.

Further details regarding the betting characteristics, features and detailed game rules can be found in the game instructions which can be provided upon request.

## SECTION 6. PERCENTAGE RETURN TO PLAYER ('RTP')

Game Name	Theoretical RTP %	eCOGRA RTP % Recalculation
Fireball Inferno	94.28%	94.26%
	Buy Bonus Game: 94.43%	Buy Bonus Game: 93.28%

The Theoretical RTP percentage indicated in the table above is extracted from the game documentation as provided by NG Entertainment Ltd eCOGRA recalculated the RTP percentage by performing additional independent mathematical calculations on the output of simulation game data.

#### SECTION 7. GAME SOFTWARE DETAILS

The scope of the game evaluation and certification applies solely to the critical game files, game versions and associated hashes provided in the tables below:

# Game Files

File Name / Identifier	Version	Version	SHA-1 Hash Sum
	Date	Number	
ConfigurationFB.txt	26/09/2023	1.0	0FC12E3DD6F4CF0AC0673A252026BF65E50D73E2
line_wins_handler.inc.php	24/07/2023	1.0	4265BFE2ACF6549D2A8C2708DDCCC26E6657D396



## SECTION 8. REVIEW FINDINGS

Rei	note Gaming Regulations	Rating	Comments
Thi	rd Schedule - Regulation 25 - Technical requirem	ent for gaming syste	m
1.	The gaming system must:		
	<ul> <li>a. faithfully follow the game rules published by the operator; and</li> </ul>	Compliant	
	<ul> <li>provide over time no more than the expected house advantage to the operator.</li> </ul>	Not applicable	Not applicable to this game type.
2.	Both the gaming and financial transactions must be congruent and secure.	Not applicable	The certification testing included in this report is limited to relevant game requirements that can be assessed at game supplier level. The certification testing excludes the assessment of compliance against any requirements where the game functionality or information is not directly managed by the game supplier.
3.	The gaming system must satisfy the following cr	iteria for randomness	s, following Schneier:
	<ul> <li>a. the data must be randomly generated, passing appropriate statistical tests of randomness;</li> </ul>	Compliant	Refer to RNG certificate: 413/19/001/UK/RTS/02
	<ul> <li>b. the data must be unpredictable, i.e. it must be computationally infeasible to predict what the next number will be, given complete knowledge of the algorithm or hardware generating the sequence, and all previously generated numbers;</li> </ul>	Compliant	Refer to RNG certificate: 413/19/001/UK/RTS/02
	<ul> <li>c. the series cannot be reliably reproduced, i.e. if the sequence generator is activated again with the same input (as exactly as is reasonably possible) it will produce two completely unrelated random sequences.</li> </ul>	Compliant	Refer to RNG certificate: 413/19/001/UK/RTS/02
4.	The outcome of any game event, and the return to the player, must be independent of the CPU, memory, disk or other components used in the playing device used by the player.	Compliant	Refer to RNG certificate: 413/19/001/UK/RTS/02
5.	The game or any game event outcome must not be affected by the effective bandwidth, link utilisation, bit error rate or other characteristic of the communication channel between the	Compliant	



Remot	te Gaming Regulations	Rating	Comments
Third S	Schedule - Regulation 25 - Technical requirem	ent for gaming syste	m
-	aming system and the playing device used by		
	e player. ne gaming system must be able to display for ea	ach game the followi	ng information on the current page or on
	page directly accessible from the current page		ing information on the current page of on
۵ I	a. the name of the game;	Compliant	
	b. restrictions on play;	Compliant	
	c. instructions on how to play, including	Compliant	
	a pay-table for all prizes and special features;	compliant	
	d. the player's current account balance;	Compliant	
	e. unit and total bets permitted;	Compliant	
	f. the rules of the game.	Compliant	
sy tra Pr	I financial reports produced by the gaming rstem must be congruent with gaming ansaction reports and conversely: rovided that all such reports shall be readily and freely available to the Authority.	Not applicable	The certification testing included in this report is limited to relevant game requirements that can be assessed at game supplier level. The certification testing excludes the assessment of compliance against any requirements where the game functionality or information is not directly managed by the game supplier.
8. Th	ne gaming system must: a. be capable of producing monthly auditable and aggregate financial statements of gaming transactions, and	Not applicable	The certification testing included in this report is limited to relevant game requirements that can be assessed at game supplier level. The certification testing excludes the assessment of compliance against any requirements where the game functionality or information is not directly managed by the game supplier.
	b. calculate accurately all taxation and other monies due to the Authority.	Not applicable	The certification testing included in this report is limited to relevant game requirements that can be assessed at game supplier level. The certification testing excludes the assessment of compliance against any requirements where the game functionality or information is not directly managed by the game supplier.
9. Th	ne gaming system must maintain information a	bout all games playe	
	a. the identity of the player;	Not applicable	The certification testing included in this report is limited to relevant game requirements that can be assessed at



Remote Gai	ming Regulations	Rating	Comments
Third Sched	lule - Regulation 25 - Technical requirem	ent for gaming syste	em
			game supplier level. The certification testing excludes the assessment of compliance against any requirements where the game functionality or information is not directly managed by the game supplier.
b.	the time the game began as recorded on the game's server;	Compliant	The recording of the results within the gambling system are not managed by the supplier.
C.	the balance on the player's account at the start of the game;	Compliant	
d.	the stakes placed in the game (time stamped by the games server);	Compliant	The recording of the results within the gambling system are not managed by the supplier.
e.	the game status (in progress, complete, etc.);	Not applicable	The certification testing included in this report is limited to relevant game requirements that can be assessed at game supplier level. The certification testing excludes the assessment of compliance against any requirements where the game functionality or information is not directly managed by the game supplier.
f.	the result of the game (time stamped by the games server);	Compliant	The recording of the results within the gambling system and account functionality are not managed by the supplier.
g.	the time the game ended as recorded by the games server;	Not applicable	The certification testing included in this report is limited to relevant game requirements that can be assessed at game supplier level. The certification testing excludes the assessment of compliance against any requirements where the game functionality or information is not directly managed by the game supplier.
h.	the amount won or lost by the player; and	Compliant	The recording of the results within the gambling system and account functionality are not managed by the supplier.
i.	the balance on the player's account at the end of the game.	Not applicable	The certification testing included in this report is limited to relevant game requirements that can be assessed at



Remote Gaming Regulations	Rating	Comments
Third Schedule - Regulation 25 - Technical requirem	ent for gaming syste	m
		game supplier level. The certification testing excludes the assessment of compliance against any requirements where the game functionality or information is not directly managed by the game supplier.
10. The gaming system must maintain information a	_	
a. large wins;	Not applicable	The certification testing included in this report is limited to relevant game requirements that can be assessed at game supplier level. The certification testing excludes the assessment of compliance against any requirements where the game functionality or information is not directly managed by the game supplier.
<ul> <li>b. transfers of funds in excess of such amount as the Authority may from time to time direct by notice in writing to the operator;</li> </ul>	Not applicable	The certification testing included in this report is limited to relevant game requirements that can be assessed at game supplier level. The certification testing excludes the assessment of compliance against any requirements where the game functionality or information is not directly managed by the game supplier.
c. changes made by the operator to game parameters.	Not applicable	The certification testing included in this report is limited to relevant game requirements that can be assessed at game supplier level. The certification testing excludes the assessment of compliance against any requirements where the game functionality or information is not directly managed by the game supplier.
11. Any variations to any of the requirements specified in this Schedule shall be submitted to the Authority for its approval by notice in writing.	Not applicable	No variations identified for the product under certification.