Listing Constructional Data Report (CDR)

1.0 Reference and Address			
Report Number	103453853MIN-003	Original Issued: 17-Jul-2018	Revised: 11-Oct-2023
Standard(s)	Amusement and Gaming Machines [UL 22:2008 Ed.6+R:06Feb2019] Safety Of Household And Similar Appliances - Part 1: General Requirements [CSA C22.2#60335-1:2016 Ed.2] Household and Similar Electrical Appliances - Safety - Part 2-82: Particular Requirements for Amusement Machines and Personal Service Machines [CSA C22.2#60335-2-82:2020 Ed.4]		

Applicant	Bay Tek Entertainment Inc	Manufacturer	**Bay Tek Entertainment Inc**
Address	1077 East Glenbrook Drive Pulaski, WI 54162	Address	1077 East Glenbrook Drive Pulaski, WI 54162
Country	USA	Country	USA
Contact	Tom Diedrich	Contact	Tom Diedrich
Phone	920-822-3951	Phone	920-822-3951
FAX	NA	FAX	NA
Email	tdiedrich@baytekgames.com	Email	tdiedrich@baytekgames.com

2.0 Product Description	
Product	Amusement Machine - Tower of Tickets, Terror, Trolls
Brand name	Bay Tek Games
Description	A coin/ cash/ or card operated game with the option of a 1-4 player game to be played at a time. The/Each player inserts the credit(s) needed to start game play and hits the pushbutton at anyone of the 4 stations to activate a motorized arm to push a "tower of tickets" onto a tray. The tray detects the value of the "tower of tickets" and awards the winning player tickets. Cord-connected stationary appliance with a detachable supply cord, for indoor use only.
Models	AAGM-; followed by TOTR or TROLL; followed by -110V.
Model Similarity	Models are the same except for graphics. In the "Trolls" variant of the game, the "towers of tickets" are replaced with simpler pucks and there is a different topper for the cabinet.
Ratings	110-120Vac, 50/60Hz, 4.5A
Other Ratings	NA

3.0 Product Photographs

Photo 1 - External view

3.0 Product Photographs

Photo 2 - Internal views

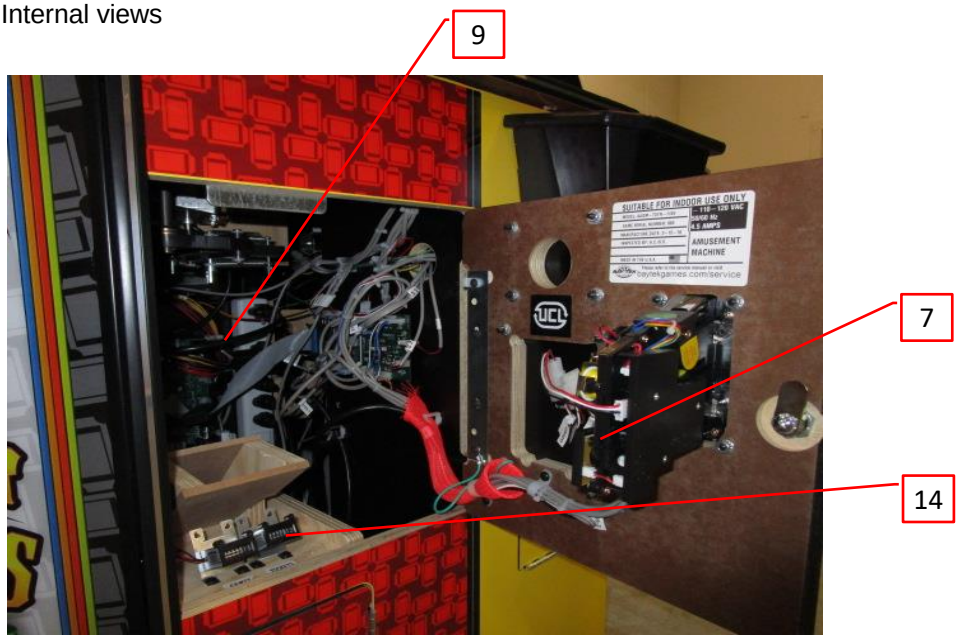
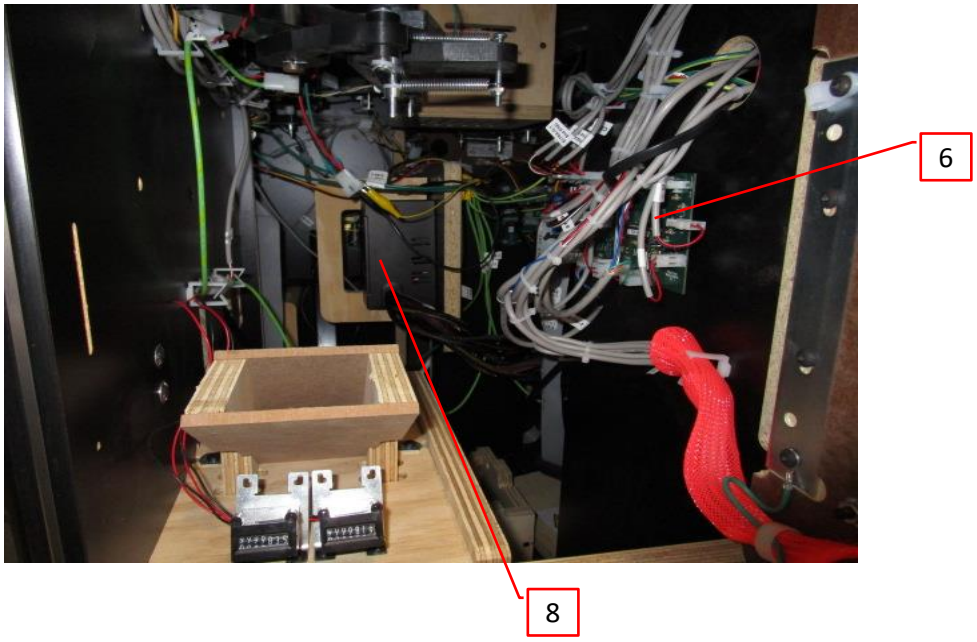


Photo 3 - Internal views



3.0 Product Photographs

Photo 4 - Ticket dispenser

4.0 Critical Components						
Photo #	Item no.[1]	Name	Manufacturer/ trademark[2]	Type / model[2]	Technical data and securement means	Mark(s) of conformity [3]
1	4	Enclosure (Transparent Dome)	Various	Various	Decorative part; 1/4" Acrylic	NR
4	11	Corner Panel	Various	Various	Decorative part;1/8" Polycarbonate	NR
1	12	Button Plates	Various	Various	Decorative part;1/2" HDPE	NR
1	2	Topper Panels/Wrap	Various	Various	Decorative part;1/8" Polycarbonate	NR
2	14	Chassis	Various	Various	¾" thick Plywood	NR
2	7	Coin collector (optional)	Various	Various	12 VDC	NR
1	13	Enclosure	Various	Various	Particle board with melamine resin adhesive and melamine laminate	NR
4	10	Ticket Dispenser	Entropy	TD-963CR	12 VDC	NR
			Daktronics	DL-1275	12 VDC	NR
			Various	Various	12 VDC	NR
3	6	Door Interface PCB	Various	Various	DC SELV only, V-1 minimum, 105°C minimum	UR
3	8	Power supply	EVGA.	EVGA500W	Input:100-240V VAC, 50-60Hz, 8/4A Output:+3.3V/24A, +5V/20A, +12V/40A, -12V/0.3A, +5Vsb/3A Total output: 500W"	cURus
2	9	Power strip	Master Electrican (Ningbo Yaling)	ME901111	Rated 125 V, 15 A	cULus
			Various	Various	Rated 125V minimum, 15 A minimum	cULus
1	1	Beacon Light (Topper Variant)	Fortune Products Inc.	PL-300RJ	Located in a 5VDC circuit	NR
			Various	Various		
4	15	Modular Processor PCB (not shown)	Various	Various	DC SELV only, flammability V-1 minimum, Bay Tek AAMB5150	UR
4	16	Processor I/O PCB (not shown)	Various	Various	V-1 minimum, 105°C minimum	UR
4	17	Small Dome Light PCB (Topper Variant) (not shown)	Various	Various	V-1 minimum, 105°C minimum	UR
4	18	Power Distribution PCB (not shown)	Various	Various	V-1 minimum, 105°C minimum	UR

4.0 Critical Components

Photo #	Item no.[1]	Name	Manufacturer/ trademark[2]	Type / model[2]	Technical data and securement means	Mark(s) of conformity [3]
4	19	Motor (not shown)	Multi Products	A5MO5151	Rated 120V, 60Hz, 0.4A 6.8RPM Impedance Protected Output Watts: 1.3	cURus
4	20	Arm Motor (not shown)	Multi Products	MOD-4068	Located in a 12VDC circuit	NR
4	21	Bill Acceptor (optional) (not shown)	Pyramid Technologies Inc.	APEX-5X0X-XXX-XXX	Rated input voltage: 12 VDC, or 24 VAC / 60 Hz, depending on model Rated input current: 500 mA for all models	URus
			Various	Various		UR
4	22	Card Reader (optional) (not shown)	USA Technologies	Eport G9	Located in a 12 Vdc circuit	NR
4	23	Card Swiper and PCB (optional card read system) (not shown)	Various	Various	Located in 10.5V, 500mA, Class 2 circuit	NR
4	24	Speaker (not shown)	Various	Various	12 VDC, 15 W	NR
4	25	LED Strips (not shown)	Various	Various	Located in a 12VDC circuit	NR
4	26	Addressable LED Strips (not shown)	Various	Various	Located in a 5VDC circuit	NR
4	27	AC-AC Power Adaptor (optional) (not shown)	Various	Various	10.5 500mA, Class 2 output	UL,CSA
4	28	Appliance inlet with EMI filter (not shown)	Curtis Industries	F1700CA06	Rated 250 V, 6 A	cURus, CSA
4	29	RFID Antenna PCB (not shown)	Various	Various	DC SELV only, flammability V-1 minimum, Bay Tek A5CB5157	UR
4	30	Arm Position and RFID Tray IR Sensor PCB (not shown)	Various	Various	DC SELV only, flammability V-1 minimum, Bay Tek A5CB5190A	UR
3	31	Power Cord (Not Shown)	Various	Various	300V, 105°C Minimum, VW-1, Detachable, 7' long, Type SJTOW	UL, cUL

NOTES:

1) Not all item numbers are indicated (called out) in the photos, as their location is obvious.

2) “Various“ means any type, from any manufacturer that complies with the "Technical data and securement means" and meets the "Mark(s) of conformity" can be used.

3) Indicates specific marks to be verified, which assures the agreed level of surveillance for the component. "NR" - indicates Unlisted and only visual examination is necessary. "See 5.0" indicates Unlisted components or assemblies to be evaluated periodically refer to section 5.0 for details.

5.0 Critical Unlisted CEC Components

No Unlisted CEC components are used in this report.

6.0 Critical Features

Recognized Component - A component part, which has been previously evaluated by an accredited certification body with restrictions and must be evaluated as part of the basic product considering the restrictions as specified by the Conditions of Acceptability.

Listed Component - A component part, which has been previously Listed or Certified by an accredited Certification Organization with no restrictions and is used in the intended application within its ratings.

Unlisted Component - A part that has not been previously evaluated to the appropriate designated component standard. It may also be a Listed or Recognized component that is being used outside of its evaluated Listing or component recognition.

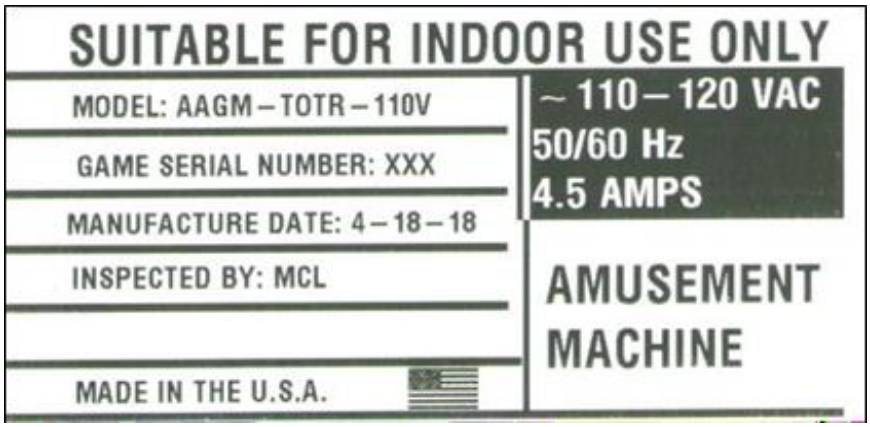
Critical Features/Components - An essential part, material, subassembly, system, software, or accessory of a product that has a direct bearing on the product's conformance to applicable requirements of the product standard.

Construction Details - For specific construction details, reference should be made to the photographs and descriptions. All dimensions are approximate unless specified as exact or within a tolerance. In addition to the specific construction details described in this Report, the following general requirements also apply.

1. Spacing - In primary circuits, 2.4 mm minimum spacing are maintained through air and over surfaces of insulating material between current-carrying parts of opposite polarity and 2.4 mm minimum between such current-carrying parts and dead-metal parts or low voltage isolated circuits.
2. Mechanical Assembly - Components such as switches, fuseholders, connectors, wiring terminals and display lamps are mounted and prevented from shifting or rotating by the use of lockwashers, starwashers, or other mounting format that prevents turning of the component.
3. Corrosion Protection - All ferrous metal parts are protected against corrosion by painting, plating or the equivalent.
4. Accessibility of Live Parts - All uninsulated live parts in primary circuitry are housed within a non-metallic enclosure constructed with no openings other than those specifically described in Sections 4 and 5.
5. Grounding - All exposed dead-metal parts and all dead-metal parts within the enclosure that are exposed are connected to the grounding lead of the power supply cord through the appliance inlet.
6. Polarized Connection - This product is provided with a polarized power supply connection. All single pole switches and fuses are connected only to the ungrounded supply circuit conductor.
7. Internal Wiring - Internal wiring is routed away from sharp or moving parts. Internal wiring leads terminating in soldered connections are made mechanically secure prior to soldering. Recognized Component separable (quick disconnect) connectors of the positive detent type, closed loop connectors, or other types specifically described in the text of this report are also acceptable as internal wiring terminals. At points where internal wiring passes through metal walls or partitions, the wiring insulation is protected against abrasion or damage by plastic bushings or grommets. All primary wiring is minimum 18 AWG, with a minimum rating of 300 V, 60 °C.
8. Markings - The product is marked on a UL 969 labeling system as follows: Listeee's name, model number, serial number or date of manufacture, and electrical ratings. See Illustration 1 in section 7.0.
   The unused receptacles on the internal power strip are covered with a marking that states "Do Not Use These Receptacles".
9. Cautionary Markings - None
10. Installation, Operating and Safety Instructions - Instructions for installation and use of this product are provided by the manufacturer.

7.0 Illustrations

Illustration 1 - Name Plate (model "AAGM-TOTR-110V" as shown)



8.0 Test Summary					
Evaluation Period	April 9, 2018 - July 12, 2018			Project No.	G103453853
Sample Rec. Date	4/2/2018, 6/21/2018	Condition	Production	Sample ID.	MIN1804021140-002, MIN1806211436-001
Test Location	7250 Hudson Blvd. #100 Oakdale MN 55128 USA				
Test Procedure	Testing Lab				

Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria.

The following tests were performed:

Test Description	UL 22 Clause	CSA C22.2#60335-1 Clause	
Accessibility to Live Parts	-	8.1	
Test probe B of IEC 61032 test against live parts	-	8.1.1	
Starting Current Test	33	-	
Leakage Current Test	34	13.2	
Input Test	35	10.2	
Temperature Test	36	11.8	
Dielectric Voltage-Withstand Test	37	13.3	
Spill Test	38	15.2	
Physical Stability Test	39	20	
800N Downward Force Test	39.5	-	
250N Tipping Test	39.7	-	
Abnormal Operation	41	19	
Grounding Impedance Test	44	27.5	
Impact test for nonmetallic enclosures and guards	-	21.1	
Impact test for nonmetallic enclosures and guards	45.2	-	
Mechanical strength tests for metal enclosures and	45.3	-	
Mechanical strength test for enclosures, guards, and maintenance area barriers	45.4	-	
Secondary Circuit Motor Test	46	19.7	
Moisture Resistance	-	15	
Leakage Current After Humidity Test	-	16.2	
Electric Strength After Humidity Test	-	16.3	
Discharge of Capacitors Test		22.5	
Wire Insulation Test	-	25.5	

8.0 Test Summary					
Evaluation Period	11/13/2018			Project No.	G103425053
Sample Rec. Date	22-Oct-2018	Condition	Production	Sample ID.	MIN1810221219-001 MIN1810221219-002
Test Location	7250 Hudson Blvd. Suite 100, Oakdale, MN 55128 USA				
Test Procedure	Testing Lab				

Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria.

The following tests were performed:

Test Description	UL 22 Clause	CSA C22.2#60335-1 Clause	
Impact test for nonmetallic enclosures and guards	42	21.1	
Internal Wiring Flexing Test	45.2	23.3	

Evaluation Period	10/11/2023	Project No.	G105605184

Due to the previous testing performed and reported above no additional testing was necessary for Amusement and Gaming Machines [UL 22:2008 Ed.6+R:06Feb2019]; Safety Of Household And Similar Appliances - Part 1: General Requirements [CSA C22.2#60335-1:2016 Ed.2]; Household and Similar Electrical Appliances - Safety - Part 2-82: Particular Requirements for Amusement Machines and Personal Service Machines [CSA C22.2#60335-2-82:2020 Ed.4].

8.1 Signatures			
A representative sample of the product covered by this report has been evaluated and found to comply with the applicable requirements of the standards indicated in Section 1.0.			
Completed by:	Jorge Blancas	Reviewed by:	Brian Siuta
Title:	Engineer	Title:	Reviewer
Signature:		Signature:	

9.0 Correlation Page For Multiple Listings	
The following products, which are identical to those identified in this report except for model number and Listee name, are authorized to bear the ETL label under provisions of the Intertek Multiple Listing Program.	
BASIC LISTEE	Bay Tek Entertainment Inc
Address	1077 East Glenbrook Drive Pulaski, WI 54162
Country	USA
Product	Amusement Machine - Tower of Tickets, Terror, Trolls

MULTIPLE LISTEE 1	None
Address	
Country	
Brand Name	
ASSOCIATED MANUFACTURER	
Address	
Country	

MULTIPLE LISTEE 1 MODELS	BASIC LISTEE MODELS

MULTIPLE LISTEE 2	None
Address	
Country	
Brand Name	
ASSOCIATED MANUFACTURER	
Address	
Country	

MULTIPLE LISTEE 2 MODELS	BASIC LISTEE MODELS

MULTIPLE LISTEE 3	None
Address	
Country	
Brand Name	
ASSOCIATED MANUFACTURER	
Address	
Country	

MULTIPLE LISTEE 3 MODELS	BASIC LISTEE MODELS

10.0 General Information

The Applicant and Manufacturer have agreed to produce, test and label ETL Listed products in accordance with the requirements of this Report. The Manufacturer has also agreed to notify Intertek and to request authorization prior to using alternate parts, components or materials.

COMPONENTS

Components used shall be those itemized in this Intertek report covering the product, including any amendments and/or revisions.

LISTING MARK

The ETL Listing mark applied to the products shall either be separable in form, such as labels purchased from Intertek, or on a product nameplate or other media only as specifically authorized by Intertek. Use of the mark is subject to the control of Intertek.

The mark must include the following four items:

1) applicable country identifiers "US" and/or "C" or "US", "C" and "EU"
2) the word "Listed" or "Classified" or "Recognized Component" (whichever is appropriate)
3) a control number issued by Intertek
4) a product descriptor that identifies the standards used for certification. Example:

For US standards, the words, “Conforms to” shall appear with the standard number along with the word, “Standard” or “Std.” Example: “Conforms to ANSI/UL Std. XX.”

For Canadian standards, the words “Certified to CAN/CSA Standard CXX No. XX.” shall be used, or abbreviated, “Cert. to CAN/CSA Std. CXX No. XX.”

Can be used together when both standards are used.

If all standards on the ATM have the same standard title, the shared title or its abbreviation may be used in place of the examples above. Example: "Medical Electrical Equipment" or "MEE"; "Information Technology Equipment" or "ITE"; "Audio/Video Information And Communication Technology Equipment" or "A/V ICTE".

Note: A facsimile must be submitted to Intertek, Attn: Follow-up Services for approval prior to use. The facsimile need not have a control number. A control number will be issued **after signed Certification Agreements** have been received by the Follow-up Services office, approval of the facsimile of your proposed Listing Mark, satisfactory completion of the Listing Report, and scheduling of a factory assessment in your facility.

MANUFACTURING AND PRODUCTION TESTS

Manufacturing and Production Tests shall be performed as required in this Report.

FOLLOW-UP SERVICE

Periodic unannounced audits of the manufacturing facility (and any locations authorized to apply the mark) shall be scheduled by Intertek. An audit report shall be issued after each visit. Special attention will be given to the following:

1. Conformance of the manufactured product to the descriptions in this Report.
2. Conformance of the use of the ETL mark with the requirements of this Report and the Certification Agreement.
3. Manufacturing changes.
4. Performance of specified Manufacturing and Production Tests.

In the event that the Intertek representative identifies non-conformance(s) to any provision of this Report, the Applicant shall take one or more of the following actions:

1. Correct the non-conformance.
2. Remove the ETL Mark from non-conforming product.
3. Contact the issuing product safety evaluation center for instructions.

10.1 Evaluation of Unlisted Components

Because Unlisted Components are uncontrolled, and they do not fall under a third party follow up program, Intertek may require these components to be tested and/or evaluated at least once annually, more often for certain components, as part of the independent certification process. The Unlisted Components in Section 5.0 require testing and/or evaluation as indicated.

The Applicant will be notified, in writing, via the applicable contact methods, as defined in Section 1.0, when these components must be selected and sent to Component Evaluation Center (CEC) for re-evaluation.

Due to particular testing requirements, some components may be requested to be shipped to specific labs. Thus, specific shipment destination(s) for each sample will be provided in the written notification.

Managing CEC Location:
Intertek Testing Services NA Inc.
ETL Component Evaluation Center
1717 Arlingate Ln.
Columbus, Ohio 43228 USA
Attn: CEC Safety
Sample Disposition: Due to the destructive nature of the testing, all samples will be discarded at the conclusion of testing unless, the manufacturer specifically requests the return of the samples. The request for return must accompany the initial component shipment.

11.0 Manufacturing and Production Tests

The manufacturer agrees to conduct the following Manufacturing and Production Tests as specified:

Required Tests

Dielectric Voltage Withstand Test , Grounding Continuity Test

11.1 Dielectric Voltage Withstand Test

Method

One hundred percent of production of the products covered by this Report shall be subjected to a routine production line dielectric withstand test.

The test shall be conducted on products, which are fully assembled. Prior to applying the test potential, all switches, contactors, relays, etc., should be closed so that all primary circuits are energized by the test potential. If all primary circuits cannot be tested at one time, then separate applications of the test potential shall be made.

The test voltage specified below shall be applied between primary circuits and accessible dead-metal parts. The test voltage may be gradually increased to the specified value but must be maintained at the specified value for one second or one minute as required.

Test Equipment

The test equipment shall incorporate a transformer with an essentially sinusoidal output, a means to indicate the applied test potential, and an audible and/or visual indicator of dielectric breakdown.
The test equipment shall incorporate a voltmeter in the output circuit to indicate directly the applied test potential if the rated output of the test equipment is less than 500VA.
If the rated output of the test equipment is 500VA or more, the applied test potential may be indicated by either:
1 - a voltmeter in the primary circuit;
2 - a selector switch marked to indicate the test potential; or
3 - a marking in a readily visible location to indicate the test potential for test equipment having a single test potential output.
In cases 2 and 3, the test equipment shall include a lamp or other visual means to indicate that the test potential is present at the test equipment output. All test equipment shall be maintained in current calibration.

Products Requiring Dielectric Voltage Withstand Test:

Product	Test Voltage	Test Time
All products covered by this Report.	1000V or 1200V	60 s 1 s

11.2 Grounding Continuity Test

Method

Each product listed below shall be subjected to a test to determine that there is continuity between accessible dead-metal parts of the product and the grounding pin or blade of the attachment plug.

If all accessible dead metal is connected, only a single test need be performed. A visual or audible device (ohmmeter, buzzer, etc.) may be used to indicate grounding continuity.

Products Requiring Grounding Continuity Test:

All products covered by this Report.

12.0 Revision Summary				
The following changes are in compliance with the declaration of Section 8.1:				
Date/ Proj # Site ID	Project Handler/ Reviewer	Section	Item	Description of Change
13-Nov-2018	M. Owl	8	-	Added Test block
G103425053MIN	J. Kleinke			
25-Feb-2019	J. Williams	1	--	Changed applicant and manufacturer 1 from "Bay Tek Games, Inc." to "Bay Tek Entertainment Inc"
G103846227CHI	H. Lozano			
30-Sep-2020	A. Bandekar	1	-	Removed **Manufacturer 2** "MCL Industries, Inc. 660 Corporate Way Pulaski, WI 54162 USA Paul Simons 920-822-6261 920-822-4200 psimons@mcl.bz"
G104464708COL	K. Gopalakrishnan			
18-Aug-2021	T. Leonard	1	-	Administrative Change. Added Manufacturer 2 MCL Industries, Inc.
G104733778MIN	B. Smith			
29-Sep-2022	R. Libersky	1	--	Removed Manufacturer 2
G10520254MIN	E. Wang	1	--	Changed "Manufacturer 1" to "Manufacturer"
11-Oct-2023	J. Blancas	1	--	**Updated** Standard: **From**: "Amusement And Gaming Machines [UL 22:2008 Ed.6 +R:29Oct2014] Safety Of Household And Similar Appliances - Part 1: General Requirements [CSA C22.2#60335-1:2016 Ed.2] Household And Similar Electrical Appliances – Safety – Part 2-82: Particular Requirements For Amusement Machines And Personal Service Machines [CSA E60335-2-82:2013 Ed.3] " **To**: "Amusement and Gaming Machines [UL 22:2008 Ed.6+R:06Feb2019] Safety Of Household And Similar Appliances - Part 1: General Requirements [CSA C22.2#60335-1:2016 Ed.2] Household and Similar Electrical Appliances - Safety - Part 2-82: Particular Requirements for Amusement Machines and Personal Service Machines [CSA C22.2#60335-2-82:2020 Ed.4]"
G105605184CHI	B. Siuta	4	31	**Added** component 31: "Power Cord (Not Shown), Varioous, Various, 300V, 105°C Minimum, VW-1, Detachable, 7' long, Type SJTOW, UL, cUL"
		8	--	Updated test summary for project G105605184.