Listing Constructional Data Report (CDR)

1.0 Reference and Address			
Report Number	103970582MIN-003	Original Issued: 28-Aug-2019	Revised: 13-Oct-2023
Standard(s)	Amusement and Gaming Machines [UL 22:2008 Ed.6+R:06Feb2019] Household and Similar Electrical Appliances - Safety - Part 1: General Requirements [CSA E60335-1/4E:2003 Ed.3] 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 E Glenbrook Dr Pulaski, WI 54162-9765	Address	1077 E Glenbrook Dr Pulaski, WI 54162-9765
Country	USA	Country	USA
Contact	Ryan Kabcinski	Contact	Ryan Kabcinski
Phone	920-822-3951 Ext.1624	Phone	920-822-3951 Ext.1624
FAX	NA	FAX	NA
Email	rkabacinski@baytekent.com	Email	rkabacinski@baytekent.com

2.0 Product Description	
Product	Amusment Machine - Connect 4 Hoops HD
Brand name	Bay Tek Entertainment
Description	Connect 4 Hoops HD is a coin operated/Swipe Card operated game. Where the player inserts the coin needed or swipes their card to start game play. The player then shoots basket balls into one of seven hoops until the player gets 4 baskets in a row. Cord-connected stationary appliance with a detachable supply cord, for indoor use only.
Models	AAGM-Hoops/HD-110V
Model Similarity	NA
Ratings	115Vac, 60Hz, 2.0A
Other Ratings	NA

3.0 Product Photographs

Photo 1 - Front View

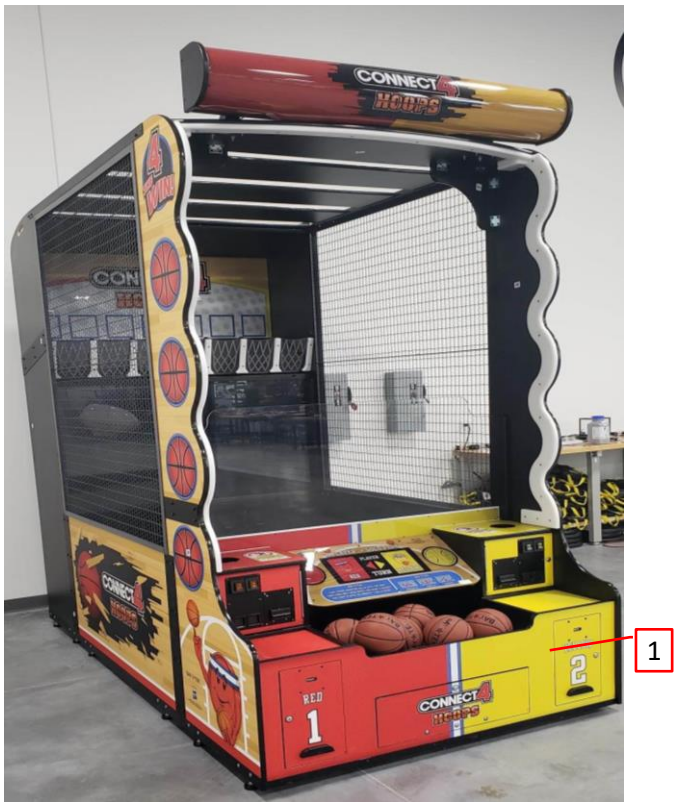
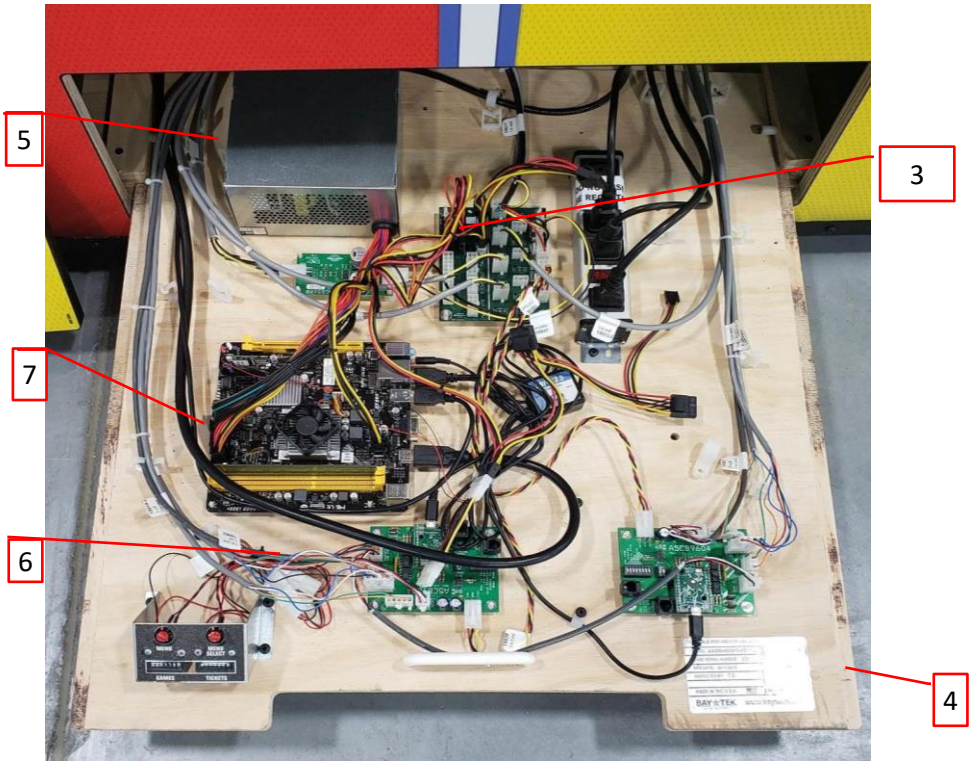


Photo 2 - Front View - Opposite Side

3.0 Product Photographs

Photo 3 - Service Door Open

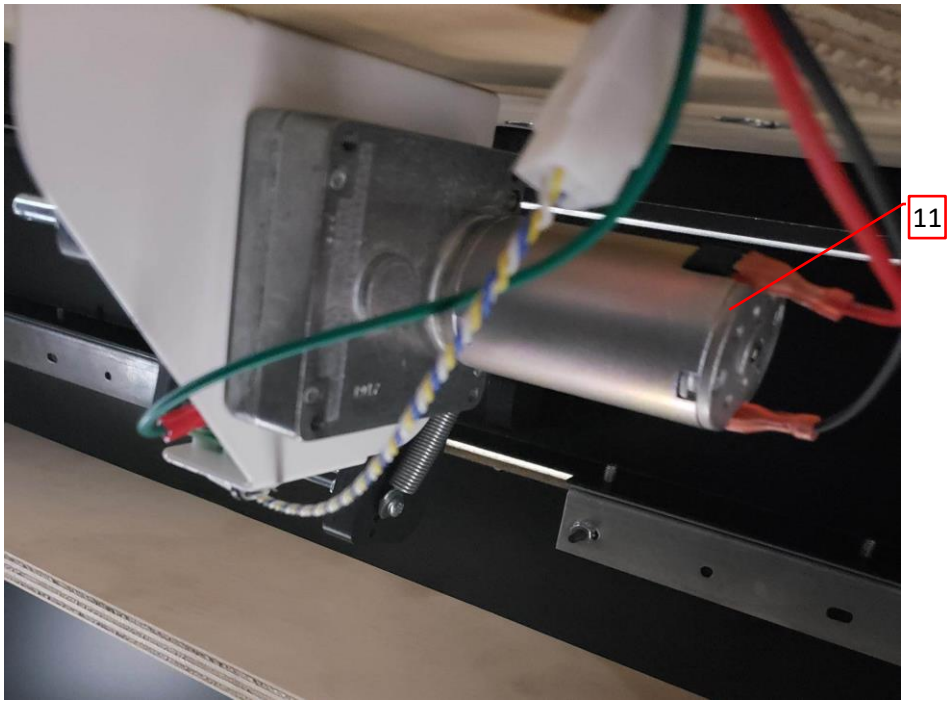
Photo 4 - Internal Parts



3.0 Product Photographs

Photo 5 - Line Filter Enclosure

Photo 6 - Ball Stop Motor



3.0 Product Photographs

Photo 7 - Maintenance door internal

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	1	Enclosure	Various	Various	Made of wood approx. 20mm thick. Overall Dimensions 1080mm by 540mm by 112.5mm. Bottom is open to surface that is below it.	NR
3	2	TV	Shenzen Qiyue Optronics Co	D65RWB624-U55	100-240VAC, 50/60Hz, 185W	UL
			Shenzen Qiyue Optronics Co	D65A214-U-A	100-240VAC, 50/60Hz, 103W	UL
			Various	Various	100-240VAC, 50/60Hz, 185W maximum	UL
4	3	Power Strip	Jiashan Dingsheng	SFC-IEC-423	Rated 250 V, 6 A	cULus
			Various	Various	Rated 250 V, 6 A	cULus
4	4	Nameplate	Zebra	3000T	Suitable for surface to which it is applied. Includes Basic Listee's name, model number, date of manufacturer, and electrical ratings. Date code may be integral to serial #.	cURus
4	5	Power Supply	Rosewill	RV350-2	115/230V, 8A/4A, 60/50Hz	cURus
			EVGA	EVGA500W	100-240VAC, 8/4A, 50-60Hz	cURus
4	6	Printed Circuit Boards	Various	Various	Located within 12VDC or 5VDC circuit, flammability V-1 minimum, minimum flame rating 105°C, 300V	cURus
4	7	Motherboard	Various	Various	Flammability V-1 minimum, 105°C minimum, Employs a 3V CR2032 battery as described in tem 12	cURus
4	8	Battery (Not Shwon)	VIC-DAWN ENTERPRISE CO LTD	CR2032	3Vdc, Max Abnormal Charging Current 10mA. Reverse charging protection provided by resistor YR25 rated 1K Ohm and Diode YQ1. Only employed within the Motherboard	cURus
5	9	Appliance Inlet with EMI Filter	Curtis Industries	F1700CA06	250Vac, 6A	cURus CSA
5	10	Power Cord (Not Shown)	Various	Various	300V, 105°C Minimum, VW-1, Detachable, 7' long, Type SJTOW	UL, cUL
6	11	Ball Stop Motor	Various	Various	Located within a 12Vdc circuit.	NR
7	12	Conduit Sleeving	Various	Various	Plastic employed around the wires on door.	NR
7	13	Wires on door	Various	Various	All wiring is stranded conductors, 20AWG, 80°C minimum, 300V	cURus

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]

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 conductor of the power cord this power cord. Grounding is achieved throughout the the rest of the appliance by a power strip connected to the applianes detachable cord. The power strip has a power cord rated 300V SJT 75°C, 14 AWG Minimum. Connected to the power strip is the power cord for the power supply which grounds the secondary side of the circuits. This cord is rated 300V, VW-1, 105°C. and has a minimum of 18 AWG.
6. 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 300V, 105°C. All Secondary wiring is a minimum of 20 AWG, with a minimum rating of 300V, 80°C.
7. Markings - The product is marked on a labeling system as described in item no. 4 of Section 4.0 as follows: Applicant's name, model number, date of manufacturer, and electrical ratings
8. Cautionary Markings - None
9. Installation, Operating and Safety Instructions - Instructions for installation and use of this product are provided by the manufacturer.

7.0 Illustrations

No Illustrations are used in this report.

8.0 Test Summary					
Evaluation Period	07/29/2019-08/12/2019			Project No.	G103970582
Sample Rec. Date	24-Jul-2019	Condition	Production	Sample ID.	MIN1907171608-001
Test Location	Intertek Testing Services N.A., Inc. 40 51st Way NE, Suite 100 Fridley, MN 55421				
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:

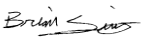
Test Description	UL 22 Clause	CSA E60335-2-68 Clause	
Accessibility to Live Parts	10	8.1	
Test probe B of IEC 61032 test against live parts	-	8.1.1	
Starting Current Test	33	-	
Leakage Current Test	34	13.2	
Input Test	35	10.2	
Temperature Test	36	11.8	
Dielectric Voltage-Withstand Test	37	13.3	
Spill Test	38	15.2	
Physical Stability Test	39	20	
800N Downward Force Test	39.5	-	
250N Tipping Test	39.7	-	
Abnormal Operation	41	19	
Internal Wire Flexing Test	42	23.3	
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 test for enclosures, guards, and maintenance area barriers	45.4	-	
Moisture Resistance	47.1	15	
Leakage Current After Humidity Test	-	16.2	
Electric Strength After Humidity Test	-	16.3	
Wire Insulation Test	-	25.5	

Evaluation Period	10/13/2023	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]; Household and Similar Electrical Appliances - Safety - Part 1: General Requirements [CSA E60335-1/4E:2003 Ed.3]; 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 E Glenbrook Dr Pulaski, WI 54162-9765
Country	USA
Product	Amusment Machine - Connect 4 Hoops HD

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	60 s
	or	
	1200V	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-Oct-2023	J. Blancas	1	--	**Updated** Standard: **From:** "Amusement And Gaming Machines [UL 22:2008 Ed.6 +R:29Oct2014] 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] Household and Similar Electrical Appliances - Safety - Part 1: General Requirements [CSA E60335-1/4E:2003 Ed.3] 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	8	--	Updated test summary for project G105605184.