1.0 Reference and Address			
Report Number	105627714MIN-003	Original Issued: 8-Apr-2024	Revised: 9-May-2024
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 1	**BayTek Entertainment Inc.**
Address	1077 East Glenbrook Drive Pulaski WI 54162	Address	1077 East Glenbrook Drive Pulaski WI 54162
Country	USA	Country	USA
Contact	Zak Krueger Kong Her	Contact	Zak Krueger Kong Her
Phone	(920)-615-4992 (559)-417-9210	Phone	(920)-615-4992 (559)-417-9210
FAX	NA	FAX	NA
Email	zak.krueger@thevillage.bz kong.her@thevillage.bz	Email	zak.krueger@thevillage.bz kong.her@thevillage.bz

2.0 Product Description	
Product	Tundra Toss - Football Fury and Tundra Toss Quick Fire
Brand name	Bay Tek Entertainment
Description	Tundra Toss - Football Fury and Tundra Toss Quick Fire are full size QB passing football games. Player(s) pass the balls through the 5 targets to accumulate points. Pass the ball through the lighted target for double points. It is an indoor, dry place appliance and cord connected.
Models	AAGM- followed by TT- or TTQF-, followed by XXX.
Model Similarity	The XXX may be blank or any combination of alphanumeric characters. These alphanumeric characters represent non safety related aesthetic changes or input voltages.The models only differ in size of the cabinet. Football Fury is approximately 60inches (152cm) wide, 163inches (414cm) depth, 161inches (409cm) height and Quick Fire is approximately 47inches (119cm) wide, 135inches (343cm) depth, 124.5inches (316cm). The 110V and 220V versions are identical. The game will operate on both input voltages without having to switch voltages on the power supply.
Ratings	AAGM-TT-XXX: 100-240Vac, 50/60Hz, 4.5A/115Vac, 2.25A/230Vac AAGM-TTQF-XXX: 100-240Vac, 50/60Hz, 4.3A/115Vac, 2.15A/230Vac
Other Ratings	N/A

3.0 Product Photographs

Photo 1 - Tundra Toss front view

3.0 Product Photographs

Photo 2 - Tundra Toss front access doors

Photo 3 - rear views, right and left sides

3.0 Product Photographs

Photo 4 - Back View

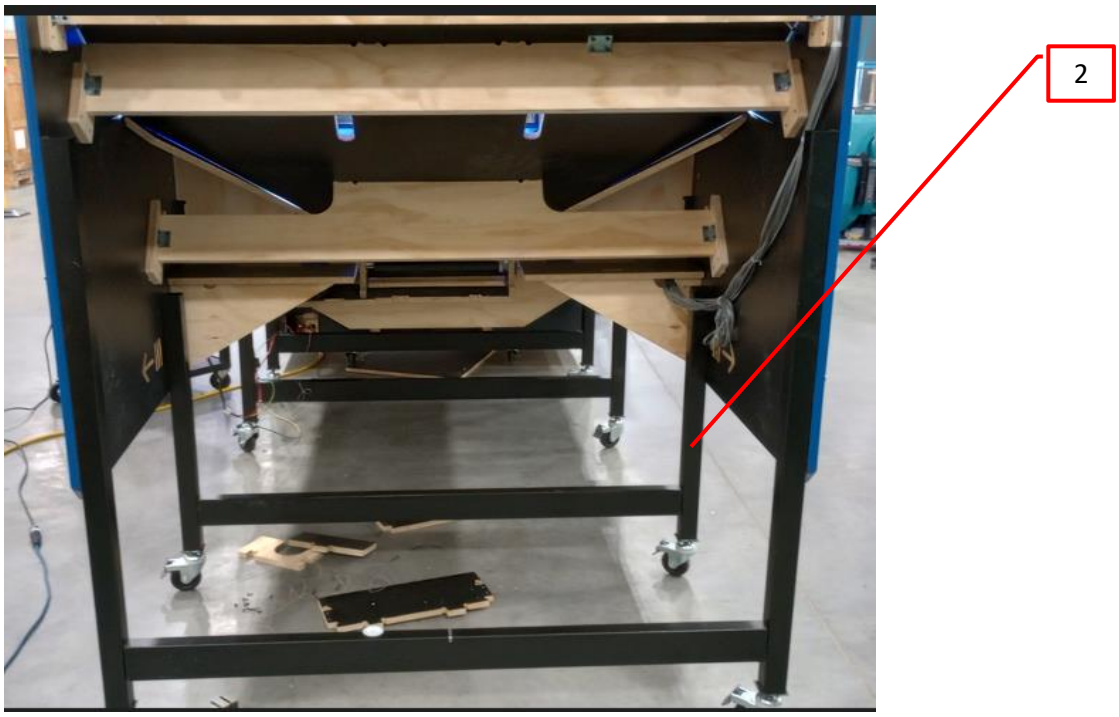
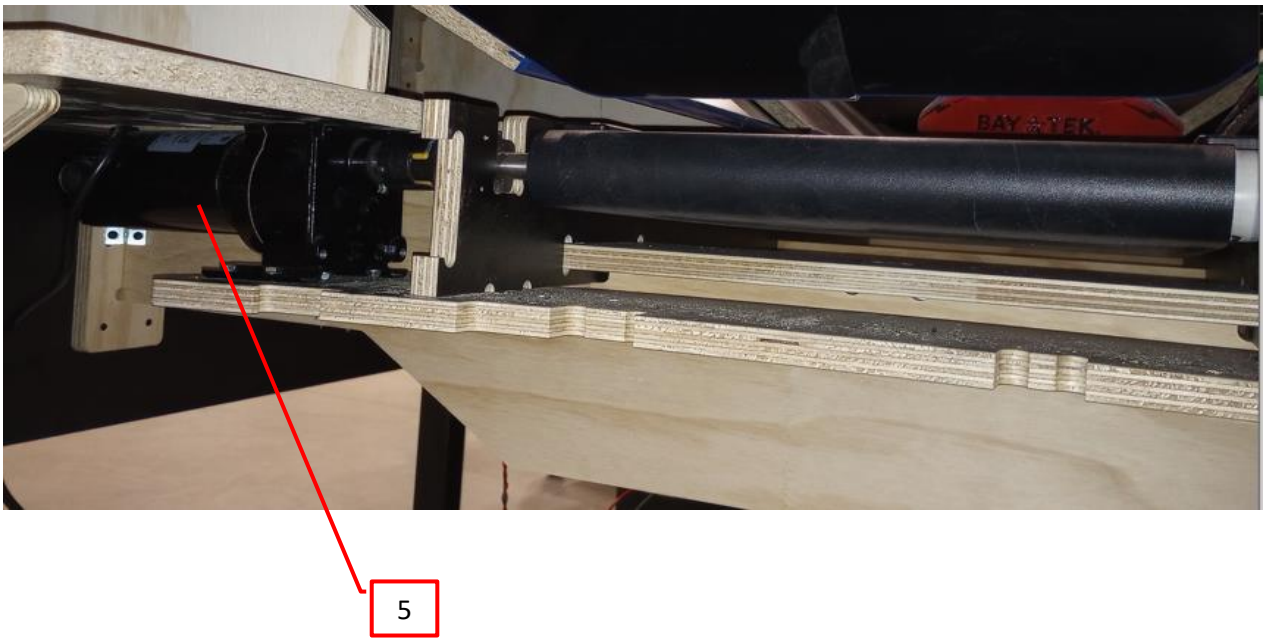


Photo 5 - Conveyor Belt Drive area, belt and motor drive covers removed.



3.0 Product Photographs

Photo 6 - Conveyor Belt Drive area, with protective belt cover in place, motor drive covers removed but visible.

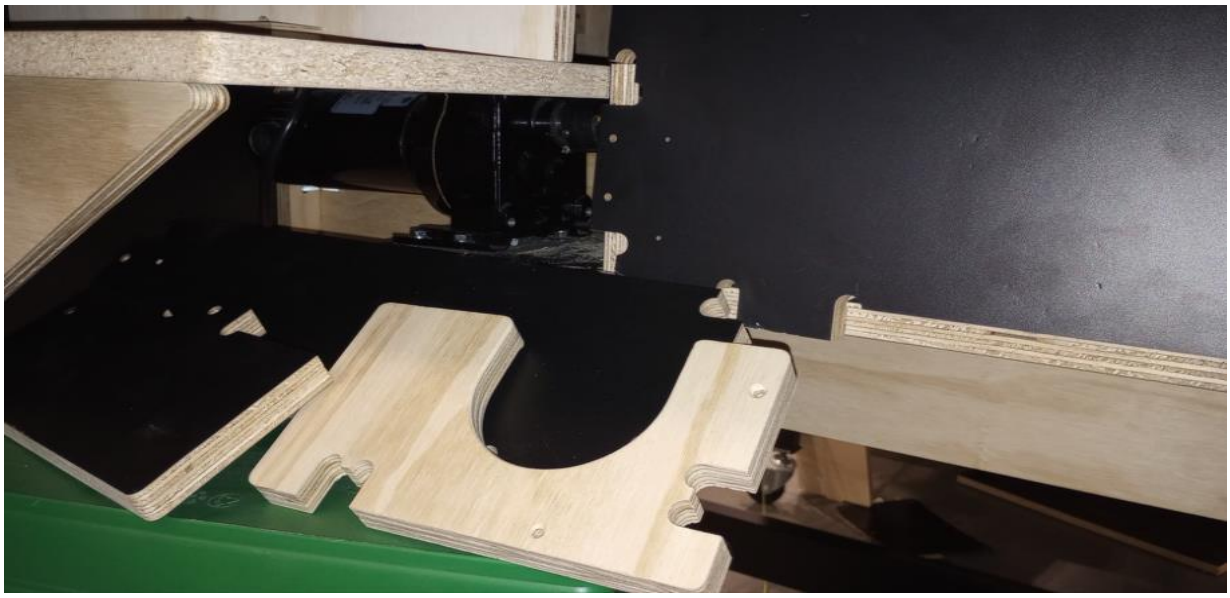
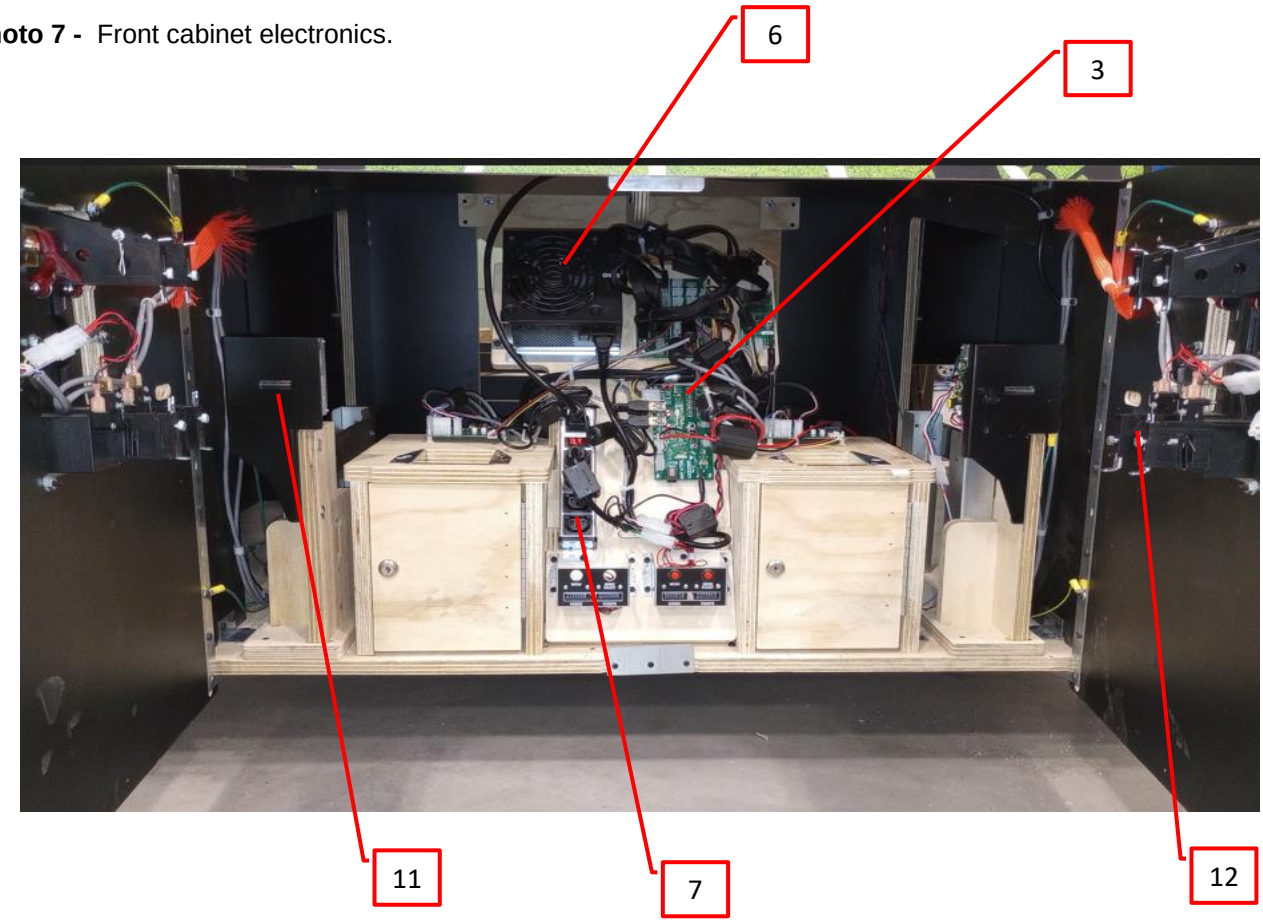


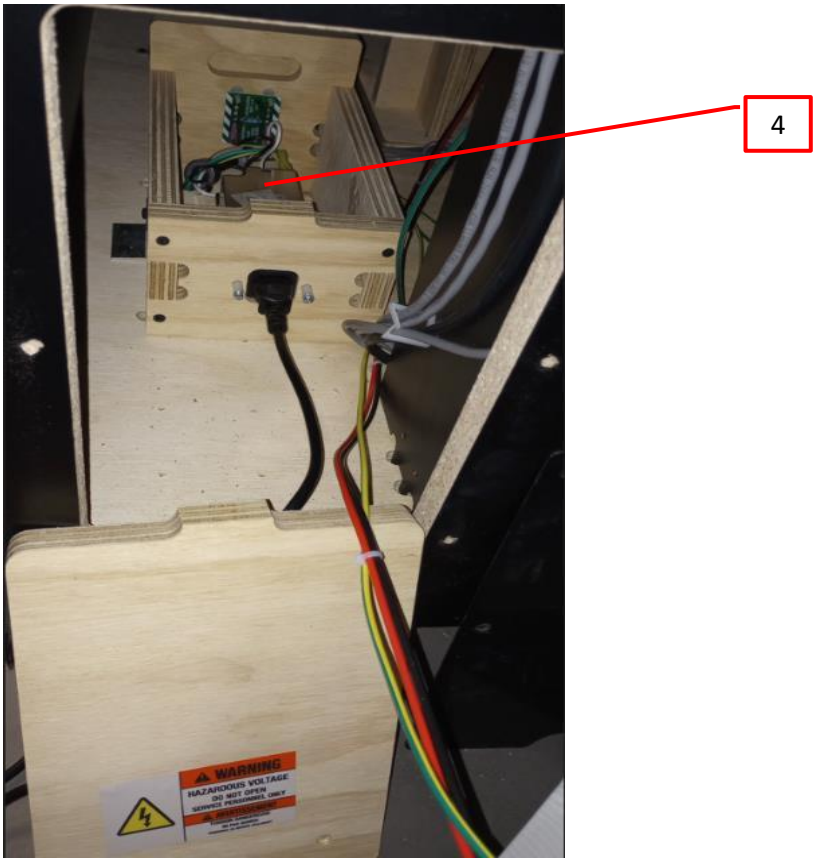
Photo 7 - Front cabinet electronics.



3.0 Product Photographs

Photo 8 - Front cabinet, rear access ports

Photo 9 - Power inlet access



3.0 Product Photographs

Photo 10 - Tundra Toss - Quick Fire Front View

3.0 Product Photographs

Photo 11 - Tundra Toss - Quick Fire Rear View

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	Bay Tek	W5PL3402	3/4" black laminate plywood	NR
			Various	Various		
4	2	Frame	Bay Tek	A5ME22008	Painted steel	NR
			Various	Various		
7	3	Raw material for PCBs	Chuan Yi Computer (Shenzhen) Co Ltd (UL E162264)	CM-4	V-0, 130ºC	UR
			Various	Various	V-0, 105ºC minimum	
9	4	Appliance inlet with EMI filter	Schaffner EMV AG (UL E493879)	FN2640-10-05-C11	Rated 250Vac, 50/60Hz, 10A	UR
5	5	Conveyor Motor	Bison Gear & Engineering Corp (UL E89715)	32-999-2800-020	12Vdc, 14.5A	cURus
7	6	Power Supply	EVGA (TUV R50358009)	EVGA500W	Input: 100-240 VAC, 50-60Hz, Input Current 8/4A Rated power: 500W @ +40°C Output: +3.3V@24A, +5V@20A, +12V@40A, +5Vsb@3A, -12V@0.3A	cTUVus
				EVGA600W	Input: 100-240 VAC, 50-60Hz, Input Current 10-5A Rated power: 600W @ +40°C Output: +3.3V@24A, +5V@20A, +12V@49A, +5Vsb@3A, -12V@0.3A	
7	7	Power Strip	JiaShan Dingsheng Appliances Part Co Ltd (UL E491513)	SFC-IEC-423	Rated 250V, 15A (up to quantity 2 with link kit installed)	cULus, CSA
			Various	Various		
1	8	Dot Matrix display	Shenzhen Brighter Optical & Electrical Technology Company Ltd.	P5RGB64X32/16S	Located in a 5 VDC circuit 64x32 pixels, Module size 320x160mm, -20 to +50ºC Max power consumption 16W ZXH-2 PCB: V-0, 130ºC	NR
			Various	Various	Max power consumption 16W, PCB: V-0, 130ºC	

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	9	Low voltage luminaries, surface mounted, LED stripe light	Shenzhen iPixel LED Light Co., Ltd. (UL E509505)	S008120TB3PZ	Located in a 12 VDC circuit LED tape, 19.2W/m, -40 to +50°C	cULus
			Various	Various	Located in a 12 VDC circuit	
2	10	Bill Acceptor (optional)	MEI Inc	2600 Series	12 VDC, 10W Max	NR
				2400 Series		
			Pyramid Technologies Inc.	APEX-5X0X Series	12 VDC, 500mA	
			Various	Various	12 VDC, 10W maximum	
7	11	Ticket Dispensor (optional)	Entropy	TD-963CR	12 VDC	NR
			Deltronics	DL-1275	12 VDC	
			Various	Various	12 VDC, 10W maximum	
7	12	Coin Collector (optional)	Bay Tek	A5PL1000	12 VDC	NR
			Various	Various		
8	13	Marking label	ZEBRA TECHNOLOGIES CORP (UL MH63641, MH15633)	3000T	Unprinted stock dsg: Z-Supreme 3000T White. Suitable for additional printing with one or more of the following inks (in the black color unless otherwise indicated): Thermal transfer ribbon: Zebra Technologies Corp. 3200, 4200, 4300, 4800, 5100	cURus
9	14	Warning label "Do Not Climb" (not shown)	FLEXCON CO INC (UL MH10170)	FLEXmark PM-200-W Opaque L-344	3.5 mil film thickness, adhesive weight 0.9-1.0 mil, liner 6.9 mil. Temperature range -40ºC to 80ºC. Minimum Application Temperature 10ºC.	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]
9	15	3 pin connector (not shown)	Molex (UL E29179)	03-09-1032	Wire Housings 3 CKT RCPT housing	UR
9	16	3 pin connector (not shown)		03-09-2032	3 pin connector	
9	17	4 pin connector (not shown)		03-09-1042	4 CKT RCPT housing	
9	18	4 pin connector (not shown)		03-09-1049	4 CKT RCPT housing, 2 rows	
9	19	4 pin connector (not shown)		03-09-2049	Wire Housings 4 CKT RCPT housing, 2 rows	
9	20	3 pin connector (not shown)		39-01-4030	3 pin connector, 1 row	
9	21	4 pin connector (not shown)		39-01-3042	4 pin connector, 2 rows	
9	22	4 pin connector (not shown)		39-01-4040	4 pin connector, 1 row	
9	23	5 pin connector (not shown)		39-01-4050	5 pin connector, 1 row	
9	24	6 pin connector (not shown)		39-01-2060	6 pin connector, 2 rows	
9	25	8 pin connector (not shown)		39-01-2080	8 pin connector, 2 rows	
9	26	16 pin connector (not shown)		39-01-2165	IDC Socket 16 pin	
1	27	Low Voltage Luminaries, "Ultra Bright White" LED strip (not shown)	Shezhen GK Lighting Co Ltd	FPW012A1	Located in a 12 VDC circuit (AAGM-TTQF-XXX version only)	cURus
			Various	Various		

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 metal 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 an approved labeling system as follows: applicant name, model number, serial number, date of manufacture, electrical ratings. See item 13 section 4.0
9 Cautionary Markings - Caution markings shown on illustrations 1 and 2 are required, they are made from approved marking and labeling sytem as item 13 and item 14 in section 4.0.
10 Installation, Operating and Safety Instructions - Instructions for installation and use of this product are provided by the manufacturer.

7.0 Illustrations

Illustration 1 - Warning label

Illustration 2 - Warning label

8.0 Test Summary					
Evaluation Period	12-Jan-2024 to 01-Apr-2024			Project No.	G105627714
Sample Rec. Date	11-Jan-2024	Condition	Production	Sample ID.	MIN2401111333-001
Test Location	Intertek 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	CSA C22.2#60335-1:2016 Ed.2 Clause	UL 22:2008 Ed.6+R:06 Feb2019 Clause	
Marking Durability	7.14	51	
Protection against access to live parts	8	45	
Power Input and Current	10	35	
Heating Test	11.8	36	
Leakage Current at Operating Temperatures	13.2	34	
Dielectric Strength at Operating Temperatures	13.3	37	
Spillage Test	15.2	38	
Humidity preconditioning	15.3	47.1	
Leakage Current after Humidity Conditioning	16.2	37	
Dielectric Strength after Humidity Conditioning	16.3	34	
Abnormal Operations	19	41	
Abnormal operation, locked motor or temperature rises	19.7	41	
Abnormal operation, locked motor or temperature rises	19.13	41	
Stability	20.1	39	
Impact resistance	21.1	45.2	
Capacitor Discharge Test	22.5	23.4	
Flexing Test	23.3	42	
Ground Bonding	27.5	44	
Clearances	29.1	28	
Creepage Distances	29.2	28	
Starting Current Test	--	33	

Evaluation Period	6-May-2024 to 8-May-2024			Project No.	G105711623
Sample Rec. Date	4-Apr-2024	Condition	Prototype	Sample ID.	MIN2404181317-001
Test Location	Intertek 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.					
Due to the previous testing performed under this report only the following testing was performed:					

Test Description	CSA C22.2#60335-1:2016 Ed.2 Clause	UL 22:2008 Ed.6+R:06 Feb2019 Clause	
Protection against access to live parts	8	45	
Power Input and Current	10	35	
Heating Test	11.8	36	
Leakage Current at Operating Temperatures	13.2	34	
Dielectric Strength at Operating Temperatures	13.3	37	
Spillage Test	15.2	38	
Abnormal Operations	19	41	
Abnormal operation, locked motor or temperature rises	19.13	41	
Stability	20.1	39	

8.0 Test Summary			
Ground Bonding	27.5	44	

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:	Scott Jendro	Reviewed by:	Mike Dums
Title:	Engineer	Title:	Staff Engineer
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	Tundra Toss - Football Fury and Tundra Toss Quick Fire

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
The test shall be conducted on products, which are fully assembled. Prior to applying the test potential, all
The test voltage specified below shall be applied between primary circuits and accessible dead-metal parts. The

Test Equipment

The test equipment shall incorporate a transformer with an essentially sinusoidal output, a means to indicate the
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 500VA or more, the applied test potential may be indicated by either:

Products Requiring Dielectric Voltage Withstand Test:

Product	Test Voltage	Test Time
All products covered by this Report. Between Line/Neutral and Ground)	1000 VAC	60 s
	or	
	1400Vdc	60 s
	or	
	1200Vac	1 s
	or	
	1700Vdc	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
9-May-2024	S. Jendro SJ	2	-	Changed Product from "Tundra Toss - Football Fury" to "Tundra Toss - Football Fury and Tundra Toss Quick Fire"
G105627714MIN	M. Dums M.Dums	2	-	Changed Description from "Tundra Toss - Football Fury is a full size QB passing football game and the companion piece to Hot Shot - Free Throw Fury. Player(s) pass the balls through the 5 targets to accumulate points. Pass the ball through the lighted target for double points. Try to set the high score!!" to "Tundra Toss - Football Fury and Tundra Toss Quick Fire are full size QB passing football games. Player(s) pass the balls through the 5 targets to accumulate points. Pass the ball through the lighted target for double points. It is an indoor, dry place appliance and cord connected."
		2	-	Changed Models from "AAGM-TT-XXX; where XXX may be blank or any combination of alphanumeric characters. These alphanumeric characters represent non safety related aesthetic changes or input voltages." to "AAGM- followed by TT- or TTQF-, followed by XXX."
		2	-	Changed Model Similarity from "The 110V and 220V versions are identical. The game will operate on both input voltages without having to switch voltages on the power supply." to "The XXX may be blank or any combination of alphanumeric characters. These alphanumeric characters represent non safety related aesthetic changes or input voltages.The models only differ in size of the cabinet. Football Fury is approximately 60inches (152cm) wide, 163inches (414cm) depth, 161inches (409cm) height and Quick Fire is approximately 47inches (119cm) wide, 135inches (343cm) depth, 124.5inches (316cm). The 110V and 220V versions are identical. The game will operate on both input voltages without having to switch voltages on the power supply."
		2	-	Changed ratings from "100-240VAC, 50/60HZ, 4.5A/115VAC, 2.25A/230VAC" to "AAGM-TT-XXX: 100-240Vac, 50/60Hz, 4.5A/115Vac, 2.25A/230Vac AAGM-QF-XXX: 100-240Vac, 50/60Hz, 4.3A/115Vac, 2.15A/230Vac"
		3	10	Added Photo 10 - Tundra Toss - Quick Fire Front View
		3	11	Added Photo 11 - Tundra Toss - Quick Fire Rear View
		4	3	Added technical data "V-0, 105ºC"
		4	27	Added item 27
		8	-	Added Test Summary
		8.1	-	Updated signature block for completed by from "Charles Scripter, Engineer" to "Scott Jendro, Engineer".