



QPS EVALUATION SERVICES INC.

US FIELD EVALUATION LETTER OF COMPLIANCE

Company Name:	Yalp
File Number:	QFE28253-1N
Company Contact:	Rob Tuitert
Company Address:	Nieuwenkampsmaten 12 7472 DE Goor The Netherlands
Inspection Location: (same as above <input type="checkbox"/>)	121 Shiloh Road Asheville, NC 27409
Date:	July 10th, 2019
Product Evaluated:	Interactive Learning Play System
Model Number:	2015/YIN2
Electrical Rating:	100-240VAC, 1A, 60Hz, 1ph

QPS has completed our evaluation of the product identified above using the following Standard(s):

NEC Code 2017 Edition
UL60950

Please retain a copy of this Letter of Compliance and the Field Evaluation Report in your files for a minimum of 7 Years.

If you have any questions, please do not hesitate to call.

Regards,

A handwritten signature in blue ink that reads "Brian Baker". The signature is written in a cursive style and is positioned above a faint rectangular box.



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CUSTOMER INFORMATION					
Company Name:	Yalp	PO Number:			
Company Contact:	Rob Tuitert				
Company Location:	Nieuwenkampsmaten 12 7472 DE Goor The Netherlands	Location of Inspection: <input type="checkbox"/> Same as Customer	121 Shiloh Road Asheville, NC 27409		
Date of Inspection:	July 10 th , 2019	Service Agreement:	<input checked="" type="checkbox"/> On File <input checked="" type="checkbox"/> Signed		
Time of Arrival:	11:30 am	Time of Departure:	1:15 pm		
EQUIPMENT INFORMATION					
Equipment Type:	Interactive Learning Play System				
Model Number(s):	2015/YIN2				
Installation Destination (If known)	121 Shiloh Road Asheville, NC 27409				
UL Standards: <small>(Referenced as a guide)</small>	UL 60950				
NEC Edition	2017				
Electrical Rating	100-240V <input checked="" type="checkbox"/> AC <input type="checkbox"/> DC	60 Hz	1 <input checked="" type="checkbox"/> A <input type="checkbox"/> W <input type="checkbox"/> VA	1Ph	N/A HP
	SCCR N/A KA RMS at N/A Volts	<input type="checkbox"/> Cord <input checked="" type="checkbox"/> Cord Set Connected <input type="checkbox"/> Permanently Connected <input type="checkbox"/> Battery Operated			2 Conductors plus ground
Model Number 2015/YIN2		Serial Number 22-03-2018_9/10		Label Number QFU311469	
REPORT INFORMATION					
Inspector Name: <small>(Report Prepared By)</small>	Brian Baker	Inspector Signature:	<i>Brian Baker</i>		
Report Reviewed By:	Tom Buchal	Reviewer Signature:			
REPORT CONTENTS					
Section No					



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2	Summary
3	Conditions of Acceptance
4	Product Evaluation Procedures
5	Test Procedures
Appendix	
A	Product Evaluation Checklist
B	Electrical Wiring Diagrams
C	Photos
D	Illustrations
E	Bill of Materials
Attachments	Field Evaluation Certificate <i>(optional – only provided upon request)</i>

REPORT	
1.0	PURPOSE
1.1	The purpose of this inspection is to provide assurance that the equipment being evaluated meets the requirements of the applicable codes and safety standards as outlined in this report.
1.2	These requirements are required by the local AHJ (Authority Having Jurisdiction) when equipment is not listed or recognized by a Third Party Nationally Recognized Testing Laboratory “NRTL”. This evaluation addresses only the electrical aspects of the equipment with respect to electrical fire and electrical shock hazards. The environment where the equipment will be used and installed has been taken into consideration during the evaluation of the product.
1.3	In some jurisdictions, the authority having jurisdiction (AHJ) may have established requirements and/or practices for field evaluation and labelling. QPS’ policy is to comply with such additional requirements in those jurisdictions.
1.4	The field evaluation has also taken into consideration those requirements outlined in The National Electrical Code Sections 90.7 & 110.3 (A).
1.5	This document can be used by the AHJ to assess the completeness and the adequacy of the evaluation process performed by QPS during the field labelling process of the equipment identified in this report.
1.6	The field evaluation process was applied to this particular product since it was not a “listed” product.
1.7	The field evaluation process for the product listed in this report was for one-of-a-kind, limited production, used, or modified products that were not listed or labelled under a full listing and certification program.
1.8	This process could have been completed at the point of manufacturing, interim points of distribution, in the company’s facilities or at the final installation site or a combination of the above. The labeling location is identified in this report.
2.0	SUMMARY
2.1	The equipment was labelled as indicated on page 2 of this report and modifications outlined in the Alterations section or in the field evaluation checklist were completed prior to the equipment being labelled.



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2.2	The equipment listed in this field evaluation report complies with the requirements as outlined in this report and the field evaluation shall not be considered as the equivalent of a listing or a certification. The equipment listed in this report is suitable for the installation location as identified in this report as applicable.	
3.0	CONDITIONS OF ACCEPTANCE	
3.1	Procedures used to approve the equipment described in this report comply with International Accreditation Service (IAS) accreditation criteria AC354 and are based on the NFPA 790 Standard for Competency of Third-party Field Evaluation Bodies and NFPA 791 Recommended Practice and Procedures for Unlabeled Electrical Equipment Evaluation.	
3.2	The product that has been field evaluated and labelled shall not be altered in any way; otherwise this will negate the Field Evaluation label that was applied. (If the product is altered in any manner, please contact your local QPS inspector for guidance.)	
3.3	A re-inspection of the product is required when any electrical refurbishing takes place or primary components that are not direct replacements are substituted.	
3.4	The equipment evaluation is based on sound engineering practices and upon compliance with the specific standards referenced in this document.	
3.5	The acceptance of this report applies to the electrical circuits and components only, as referenced in this report. Unless otherwise noted, it specifically excludes the examination for the suitability of the use of equipment involving toxic or corrosive gases; steam and locations defined as hazardous locations by the National Electrical Code.	
3.6	The equipment is marked with short circuit current rating as required for industrial control equipment, HVAC equipment, Meter Disconnect switches, and motor controllers where applicable.	<input checked="" type="checkbox"/> N/A
3.7	Referenced Electrical ANSI/UL Standard(s)	UL60950
	Referenced Edition of National Electrical Code:	2017
3.8	It may be necessary to perform an on-site evaluation to re-inspect the wiring, etc. if the equipment is disassembled for shipment to the point where the wiring was disturbed.	On Site Evaluation Required: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Unit tested at end site. Cord connected and self- contained
4.0	PRODUCT EVALUATION PROCEDURES	
4.1	Inspection	
4.1.1	The following major components in the primary circuits were verified and marked with a listing of an "NRTL" or were evaluated by QPS for acceptance in this field evaluation project. Detailed information on the components can be found in the BOM. Note: The components that are in the primary circuit or a safety circuit were inspected to ensure that they bear the Listing or Recognition mark of an "NRTL". This designation ensures that the component complies with the relevant standard. If there was no listing mark, the component would have been separately evaluated for acceptance in the application, taking into consideration the relevant UL standard.	
4.2	Components Reviewed (Safety Critical)	
	Component	Acceptable
	Circuit Breakers	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
		Comments
		Branch CB protection is GFCI 20A



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	Motor Contactors	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	
	Fuses	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	
	Disconnect Switches	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	UL Approved
	Transformers	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	
	Overload Relays	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	
	Motors	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	
	AC Drives	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	
	DC Drives	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	
	Fans	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	UL Approved, Impedance Protected
	Wiring	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
	Control Relays	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	
	Power Supplies	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	UL Approved
	Hardware or firmware components and wiring for safety interlock circuits	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	
4.3	<u>Critical Components:</u> The components listed above and any other additional critical safety components not mentioned above are identified in the BOM and described in detail.				
4.4	<u>Supplementary Protectors:</u> are to be strictly used for overload protection in a circuit based on the certification/listing criteria applicable to the particular device. They are not to be used for branch circuit protection.	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	No Supplementary protectors
4.5	Visual Inspection				
4.5.1	The equipment was visually inspected with particular attention in the following areas:				
		Acceptable			Comments (If necessary)
	Use of "Approved" Components	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	All approved components
	Properly sized overcurrent protection for all motors and transformers	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	
	Warning Markings	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	Added necessary markings to unit Refer to Alterations below
	Wiring Ampacities	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
	Grounding	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
	NFPA-70 Wiring Methods	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
	Guarding of Live Parts	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
	Damaged Components	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	No damaged components
	Electrical Clearances	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	



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	Wiring Bending Space	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
	Drawings verified to match equipment	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
	Environment Suitability	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	Outdoor use acceptable
	Nameplate and Markings	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	Added at end site

TESTS

5.0	Electrical testing may include but is not limited to the following:				
	Test	Result		Comments	
	Dielectric Strength Test (Mandatory):	<input checked="" type="checkbox"/> Pass	<input type="checkbox"/> Fail	<input type="checkbox"/> N/A	1000V @ 1minute
	Leakage Current Test:	<input checked="" type="checkbox"/> Pass	<input type="checkbox"/> Fail	<input type="checkbox"/> N/A	40uA max
	Flame Test (mandatory if applicable):	<input checked="" type="checkbox"/> Pass	<input type="checkbox"/> Fail	<input type="checkbox"/> N/A	Metal Enclosure and/or Material is approved and/or has a flame rating of 94V0 or better.
	Heat Rise Testing:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail	<input checked="" type="checkbox"/> N/A	All the approved components are found suitable for the application and are contained within a fire rated enclosure and the fire would be contained within the enclosure in case of any malfunction.
	Equipment Ground Resistance Test:	<input checked="" type="checkbox"/> Pass	<input type="checkbox"/> Fail	<input type="checkbox"/> N/A	Meter – all exposed metal parts which are likely to be energized are physically bonded to ground.
	Safety Circuit Functional Tests (interlocks and emergency off):	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail	<input checked="" type="checkbox"/> N/A	
	Ratings Testing	<input checked="" type="checkbox"/> Pass	<input type="checkbox"/> Fail	<input type="checkbox"/> N/A	Measured 0.9A max during normal operation at 120V.
	Test Equipment Used	<input checked="" type="checkbox"/> Dielectric Tester # 5533		<input checked="" type="checkbox"/> Fluke 180 (ratings) # 5109 <input checked="" type="checkbox"/> Simpson # 5217	

ALTERATIONS NONE REQUIRED- THIS MODEL IS IN COMPLIANCE WITH ABOVE LISTED REQUIREMENTS WHEN IMPLEMENTATION OF THE ALTERATIONS IDENTIFIED CANNOT BE COMPLETED DURING THE INSPECTION VISIT, YOU ARE REQUIRED TO CONTACT QPS IN A REASONABLE AMOUNT OF TIME AFTER COMPLETION FOR A FOLLOW-UP INSPECTION

FOLLOW-UP INSPECTION REQUIRED: YES NO The alterations listed below have been incorporated in the labeled product

1.	Provided Warning – “Disconnect Power before Servicing”
2.	Provided Warning – “ Caution – Fuse replacement same type and rating”
3.	Revised Markings label from 9A to 1A since measured current less than 1A during normal operation. Added reference to GFCI to be used on branch protection.



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Notes:

1.	Flame test N/A for Metal Enclosures and/or approved material. Unit is mixture of metal and approved plastic with suitable ventilation openings. No live parts accessible. Primary bond is to chassis.
2.	Leakage current 40uA max
3	Strain Relief N/A for Equipment connected with a Detachable Cord Set
4.	Detachable Power Cord (from single receptacle to power supply) is UL/CSA Listed, 18/3 AWG SJTW, 105C NEMA 5-15 Configuration rated 250VAC, 10A.
5.	NEMA Outlet – UL Approved, 15A, 125VAC. Bonding directly to enclosure. Power Supply plugged in outlet and only low voltage after power supply
6.	Power Supply – Mean Well HLG-320H-15, Input 100-240VAC, 3.5A, 50/60Hz, Output 15VDC at 19A, UL Approved, SELV
7.	Ground green yellow wire to stud, min. 18AWG
8.	QSD123 was not completed since all testing and critical components are described within this report.