

<b>Saudi Arabian Standards Organization</b> International Conformity Certification Program	<b>Document No.:</b> 101b.CVG	<b>Page:</b> 1 of 5
<b>Compliance Verification Guidelines</b>		
<b>Product Category:</b> I-01b Playground, Amusement And Fairground Equipment		
<b>Date Issued:</b> 25 August 2003	<b>Produced By:</b> PM-1	<b>Issue No.:</b> 3

## **Introduction**

The purpose of this document is twofold:

- (1) To provide Manufacturers and Exporters with technical information on compliance requirements in support of shipment certification, Registration and Licensing procedures.
- (2) To provide SASO Approved Labs with information on the performance of Essential Product Tests.

Section A defines the scope of products currently regulated under this category.

Section B lists the name and reference number of SASO Sanctioned Standards applicable to this regulated category. If you wish to obtain copies of SASO Standards, please contact your nearest SASO Country Office or the Regional Licensing Centre.

Section C refers to Registration procedures and lists the Saudi Arabian essential requirements that must be taken into consideration.

Section D provides an outline of SASO Type Approval Licensing procedures.

Section E lists the specific tests to be performed by a SASO Approved Laboratory for the purpose of Pre-shipment Testing or testing as part of the Registration Verification review process or as a part of the annual Licensing renewal.

Appendix Additional Inspection Requirements (AIR).

## **SECTION A: Scope of Category**

### **This Category Applies To:**

- Toys designed for the amusement and development of children up to the age of 14.
- Swings, climbing frames, slides and similar playground equipment
- Stabilising swings and merry-go-round and similar fairground equipment
- Amusement Machines in public and commercial places
  - Coin operated Table games
  - Driving simulators
  - Laser shooting appliances
  - Redemption machines
  - Crane games
  - Kiddie rides
  - Coin operated video games
  - Pinball machines
  - Virtual reality games

### **This Category Does Not Apply To:**

- Sports equipment
- Aquatic equipment intended for use in deep water



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## **SECTION B: SASO Sanctioned Standards**

<b>SASO Sanctioned Standard</b>	<b>Joint Gulf Standard Or Other Standard (if applicable)</b>	<b>Title</b>
SASO 1062/1995	GS 576/1995	Safety of household and similar electrical appliances: General requirements
SASO 1063/1995	GS 577/1995	Toys – General Safety Requirements
SASO 1064/1995	GS 578/1995	Methods of Testing Toys Part 1: Mechanical and Chemical Tests
SASO 1065/1995	GS 579/1995	Methods of Testing Toys Part 2: Flammability Tests
SASO 765/1994	GS 416/1994	Playground Equipment For Childrens Parks – Part 1: General Safety Requirements
SASO 1322/1997	-	Low Power Radio Frequency Devices
IEC 60335-2-82	--	Household and similar electrical appliances, safety: Particular requirements for amusements machines and personal service machines

## **SECTION C: SASO Registration Procedures and Essential Requirements**

The product to be Registered shall be identified by its type designation. Products of the same electrical, mechanical or physical construction or chemical composition, being equal in all safety related aspects, may be defined by one family type designation/model number. This designation must be identifiable on the product(s).

It is desirable that the Registration declaration refers to relevant Saudi standards wherever possible. The declaration may however refer to any relevant international, regional or national standard provided the Saudi Arabian Essential Requirements listed below are also satisfied.

Standard references must be clearly identified by issue number, date and the like.

Any test data provided to substantiate the Registration declaration must make clear reference product identification model(s), the laboratory name and appropriate standards.

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<b>ESSENTIAL REQUIREMENTS</b>
Rated mains voltage shall be 127 or 220 V for toys intended to be connected to the mains voltage
Rated mains frequency shall be 60 Hz for toys intended to be connected to the mains voltage.
Toys shall not be offensive to the Islamic religion. In particular they shall not include pigs, pig shapes or crosses
Wooden toys shall be painted with non-toxic polyurethane free of chromium, lead and cadmium (SASO 1063, 5.1.6.3)
Outdoor toys made wholly or essentially of ferrous metal shall be adequately protected against corrosion (SASO 1063, 5.2.2.12)
The product markings shall indicate the suitable age of the child to use the toy (SASO 1063, 8)
Products incorporating low frequency devices, shall operate within the frequencies stipulated in SASO 1322/1997, Clause 4.1.
Electric and Electronic toys shall comply with the requirements of EMC CVG (This requirement is mandatory from 1 <sup>st</sup> October, 2003)
Plugs fitted to the supply cord shall have a configuration in accordance with SASO standard 444. (This requirement will be mandatory from 1 <sup>st</sup> January 2004)

## **SECTION D: SASO Type Approval Licensing**

- 1) **Product Evaluation**  
Products must be evaluated for full compliance with the SASO Sanctioned Standards listed in Section B, including the relevant Saudi Arabian Essential Requirements listed in Section C. If the national Saudi standard is outdated or deviates heavily from the international equivalents, the relevant international standard may be used in conjunction with the Saudi Arabian Essential Requirements listed in Section C.
- 2) **Factory Inspection/Audit**  
All manufacturing sites must be inspected to confirm the existence of an on-going quality and product control system satisfying SASO ICCP requirements.
- 3) **Annual Surveillance**  
Samples may be selected for minimum verification tests as a part of annual routine inspections. Periodic pre-shipment inspection will be performed.

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## **SECTION E: Essential Product Tests For SASO Approved Laboratories**

Upon receipt of samples for testing, Laboratories are to proceed as follows:

- (1) Examine the products to be tested and identify the applicable standard or standards from Section B. Consult the tables given below and select only the test tables relevant to the standards you have selected in (1)
- (2) Read and note the Saudi Arabian Essential Requirements given in Section C and incorporate these points in your testing procedures.
- (3) Perform *only* the tests identified in the relevant test tables. (Laboratories are *not* to test to the complete standard unless specifically advised to do so). Saudi Standard test methods have been referenced where they exist.
- (4) Laboratories may substitute the Saudi test method with an internationally recognised alternative at their own discretion.
- (5) Read the Appendix and include those requirements, which are not included in the test tables of the testing procedures.

<b>SASO 765/1994</b>			
<b>Remark: Applicable to all playground, amusement and playground equipment other than those covered by IEC 60335-2-82</b>			
No.	Test	Requirement Standard Ref. SASO 765/1994	Test Method Standard Ref.
1	Extractable materials	4.1	-----
2	Design	4.2	-----
3	Profiles and exposed surfaces	4.3	-----
4	Access	4.4	-----
5	Protective rails and infilling	4.5	-----
6	Clearance between parts	4.6	-----
7	Static equipment	4.7	-----
8	Motor driven equipment	4.8	-----
9	Electrical supply	4.9	-----
3	Labelling , marking and instructions	5.0	-----

<b>SASO 1063/1995, SASO 1064/1995</b>			
<b>Remark: Additional requirements for equipments designed to Bear the Weight of a Child</b>			
No.	Test	Requirement Standard Ref.	Test Method Standard Ref.
1	Safety of gaps in spiral springs	1063, 5.2.2.5	1063, 5.2.2.5
2	Stability	1063, 5.2.2.5	1064, 3.4
3	Brakes test	1063, 5.2.2.5	1064, 3.4
4	Dynamic strength	1063, 5.2.2.5	1064, 3.4
5	Static strength	1063, 5.2.2.5	1064, 3.4

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<b>SASO 1063/1995, SASO 1064/1995</b>			
<b>Remark: Additional requirements for Swings, Climbing Frames and Similar Constructions</b>			
No.	Test	Requirement Standard Ref.	Test Method Standard Ref.
1	Strength	1063, 5.2.2.7	1064, 3.4.5

<b>SASO 1065/1995</b>			
<b>Remark: Additional requirements for equipments, which children can enter</b>			
No.	Test	Requirement Standard Ref.	Test Method Standard Ref.
1	Flammability tests	4.4	4.4

<b>SASO 1062/1995, IEC 60335-2-82</b>			
<b>Remark:</b> Applicable to amusement machines which are coin/token operated and which consist of electrical components (table games, driving simulators, redemption machines, cranes, coin operated video games, laser shooting appliances, kiddie rides etc.)			
No.	Test	Requirement Standard Ref. SASO 1062/1995 IEC 60335-2-82	Test Method Standard Ref.
1	Marking and instructions	7	-----
2	Protection against accessibility to live parts	8	-----
3	Heating	11	-----
4	Leakage current and electric strength at operating temp	13	-----
5	Moisture resistance	15	-----
6	Stability and mechanical hazards	20	-----
7	Mechanical Strength	21	-----
8	Construction	22	-----
9	Provision for earthing	27	-----
<b>Additional tests for kiddie rides and driving simulators</b>		<b>IEC 60335-2-82</b>	
1	Heat dissipation test	19.101	-----
2	Stability and mechanical hazards	20.1/20.2	-----

<b>SASO 1322/1997</b>			
<b>Remark:</b> Additional test for Products incorporating low power radio frequency devices			
No.	Test	Requirement Standard Ref.	Test Method Standard Ref.
1	Operating frequency range	4.6	-----
2	Field strength	4.7	-----

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# APPENDIX TO 101b.CVG

*Note: This document should be used separately by SASO Country Offices for preshipment inspection purposes.*

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## **I      PLAYGROUND, AMUSEMENT AND FAIRGROUND EQUIPMENT**

### **1.      Physical Requirements:**

<b>Standard Reference</b>	<b>Requirement</b>	<b>Complies? (Y/N)</b>
765, 4.2.1.5	Equipment shall be of a good finish and shall be free from sharp edges and protrusions	
765, 4.2.1.8, 4.2.1.9	Equipment shall not include open “S” hooks or rings with a diameter between 125mm and 250mm	
1063, 5.2.2.6	Equipment designed for a child to enter shall be large enough to accommodate a child. The doors, covers, lids etc of such kind of equipment shall not be provided with locks. It shall have ventilating holes.	
765, 4.7.3.7	<i>Slides</i> shall include a seamless sliding surface with raised edges projecting at least 100mm at a perpendicular angle.	
1063, 5.2.2.7	<i>Slides</i> shall have the sliding surface made of one piece of plastic or stainless steel and have an internally bent edge downward	
765, 4.7.5.5	<i>Swing Seats</i> shall have rounded corners and a slip-resistant surface. They shall have a seating area of at least 700cm <sup>2</sup>	
765, 4.7.6.5	<i>Rocking Equipment (See-Saws)</i> shall be provided with a grip handle, of diameter between 25mm and 40mm, at each seating position	
765, 4.7.8.6	<i>Rotating Equipment (Roundabouts)</i> shall be provided with a grip handle at each seating or user position	
765, 4.9	<i>Equipment with an Electrical Supply</i> shall have all supply cables passed through conduits and insulated to ensure safety and prevent mechanical damage	

### **2.      Marking Requirements:**

<b>Standard Reference</b>	<b>Requirement</b>	<b>Complies? (Y/N)</b>
765. 5.1.1	Markings shall be in English and/or Arabic	
765. 5.1.1.1	Manufacturer’s name and/or trademark	
765. 5.1.1.2	Month and year of manufacture	
765. 5.1.1.3	Model number (if any)	
765. 5.2	The equipment shall be provided with instruction panels containing the following information and precautions: <ul style="list-style-type: none"> <li>▪ Detailed instructions and/or diagrams for operation and maintenance</li> <li>▪ A diagram indicating (for each item) the minimum use zone and clearance to be provided between items and any adjacent equipment.</li> <li>▪ Detailed instructions and diagrams for erection which specify sizes and other details for foundations, the erection sequences, torque tightening figures for all bolts and other similar items.</li> </ul>	

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### 3. Instruction Manual/Booklet:

Standard Reference	Requirement	Complies? (Y/N)
1063, 6.1	Instructions should be easily understood and written in Arabic or in both Arabic and English language and should include the substance of the following information	
765, 5.3.1	Recommendations for maintenance with particular reference to lubrication, checking of joints and permissible wear or tolerance of moving parts before replacement is necessary.	
765, 5.3.2	A warning that children should not use the equipment until it is properly installed	
765, 5.3.3.1	The maximum number and weight of occupants that may safely use the equipment	
765, 5.3.3.2	Advice that adult supervision is necessary for children under 4 years of age	
765, 5.3.3	Cautions that children should not: <ul style="list-style-type: none"> <li>▪ Walk closely in front of, behind or between moving items</li> <li>▪ Twist swing chains, as this may cause a reduction in the chain's strength</li> <li>▪ Swing empty seats</li> <li>▪ Use the equipment in any way other than the one recommended</li> <li>▪ Stop the equipment suddenly while it is in motion.</li> </ul>	
765, 5.3.3.8	The ride speed and the direction of travel with respect to a reference point	
765, 5.3.3.9	The power requirement and ride speed (maximum or minimum revolutions per minute)	
765, 5.3.3.10	A caution that parents should dress their children in well-fitting shoes and avoid loose-fitting clothing which might be caught between moving parts	
765, 5.3.3.11	The emergency and evacuation procedures	
765, 5.3.3.12	Detailed explanation by sketches to show how the equipment can be used	

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### **III ELECTRONIC AMUSEMENT MACHINES (Coin operated - driving simulators/ redemption machines/ table games/ kiddie rides)**

#### **1. Physical Requirements:**

Standard Reference	Requirement	Complies? (Y/N)
1062, 8.1	Appliances shall be constructed and enclosed so that there is adequate protection against accidental contact with live parts.	
1062, 22.8	If compartments can be accessed without the aid of a tool and are likely to be cleaned in normal use, electrical connections shall be arranged so they are not subject to pulling during cleaning.	
1062, 22.10	Reset buttons of non-self-resetting controls shall be located or protected so that accidental resetting is unlikely to occur if this could result in a hazard.	
1062, 22.14	Appliances shall have no ragged or sharp edges other than that necessary for the function of the appliance or accessory that could create a hazard for the user during normal use or user maintenance.	
1062, 22.15	Storage hooks and the like for flexible cords shall be smooth and well rounded.	
1062 22.43	Appliances that can be adjusted for different voltages shall be constructed so that accidental changing of setting is unlikely to occur	
1062, 25.1	Appliances not intended to be connected to fixed wiring shall have one of the following means of supply connection: (a) supply cord fitted with plug; (b) appliance inlet or (c) pins for insertion into socket outlets..	
1062, 25.3	Appliance intended to be permanently connected to fixed wiring shall allow the connection of the supply wires after the appliance has been fixed to its support and shall be provided with one of the following means for connection to the supply: <ul style="list-style-type: none"> <li>- a set of terminals allowing the connection of cables of fixed wiring</li> <li>- a set of terminals allowing the connection of a flexible cord.</li> <li>- a set of supply leads accommodated in a suitable compartment, or</li> <li>- a set of terminals and cable entries, conduit entries, knock-outs or glands, which allow the connection of the appliance of the appropriate types of cable or conduit.</li> </ul>	
1062, 25.6	Plugs shall not be fitted with more than one flexible cord.	
1062, 25.13	Inlet openings shall be providing with a bushing or shall be constructed so that the sheath of the supply cord can be introduced without damage.	
1062, 25.13.1	Inlet bushings shall be shaped to prevent supply cord damage and be non-detachable parts.	
1062, 25.22	Appliance inlets shall: <ul style="list-style-type: none"> <li>(a) be located/enclosed in such a way that live parts are not accessible during insertion/removal of connector.</li> <li>(b) be located so connector can be inserted without difficulty.</li> <li>(c) be located so appliance isn't supported by connector when resting on a flat surface</li> </ul>	
60335-2-82 22.104	Seats of kiddie rides shall not be adjustable to a height exceeding 1.5 m above the floor. Kiddie rides with adjustable seats shall be provided with means for restraining passengers.	

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## 2. Marking Requirements:

Standard Reference	Requirement	Complies? (Y/N)
1062, 7.14	Markings shall be easily legible and durable.	
1062, 7.1	Rated voltage or rated voltage range in volts (incorporating 127 or 220V, unless class III)	
1062, 7.1	Symbol for nature of supply <i>unless</i> the rated frequency is marked. (Rated Frequency must incorporate 60Hz)	
1062, 7.1	Rated power input in watts or kilowatts <i>or</i> rated current in amperes	
1062, 7.1	Name, trade mark or identification mark of the manufacturer or responsible vendor	
1062, 7.1	Model or Type Reference	
1062, 7.1	Symbol for Class II construction <i>for Class II appliances only</i> 	
1062, 7.1	IP number according to degree of protection against ingress of water	
1062, 7.3	Appliances having a range of rated values and which can be operated without adjustment throughout the range shall be marked with the lower and upper limits of the range separated by a hyphen. Example: 127 – 220V	
1062, 7.3	Appliances having different rated values and which have to be adjusted for use or installer shall be marked with the different values separated by an oblique stroke Example: 127/220V	
1062, 7.4	If appliance can be adjusted for different rated voltages, the voltage to which the appliance has been adjusted shall be clearly discernible.	
1062, 7.5	For appliances marked with more than one rated voltage or voltage range, the rated power input for each voltage or range shall be marked.	
1062, 7.9	Switches that may give rise to a hazard when operated shall be marked or placed to indicate clearly which part of the appliance they control.	
1062, 7.10	Different positions on switches shall be indicated by figures, letters or other visual means	
1062, 7.10	If figures are used, the off position shall be '0' and the position for greater effect shall be indicated by a higher figure.	
1062, 7.10	Figure '0' shall not be used for any indication other than 'off' unless positioned and associated with other numbers so as not to cause confusion.	
1062, 7.11	Controls to be adjusted during installation and in normal use shall be provided with an indication of direction of adjustment.	
60335-2-82 7.1	Appliances incorporating socket outlet, voltage, nature of supply and current or power output shall be marked in the vicinity of the socket outlet.	

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### 3. Instructions for Use:

Standard Reference	Requirement	Complies? (Y/N)
1062, 7.13	Instructions and other texts shall be written in both <b>Arabic and English</b> languages.	
1062, 7.12	Instructions for use shall be provided with the appliance so that it may be used safely.	
60335-2-82 7.12.1	Installation instruction shall state if the appliance is suitable for outdoor use	
60335-2-82 7.12.1	Installation instruction for moving ride appliances shall state the free space necessary around the appliance for safe operation	
60335-2-82 7.12.101.3	Instructions for maintenance shall list any accessories that may be used with the appliance.	

