



**BPS MEMORANDUM CIRCULAR NO. 04**  
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For : **ALL DTI REGIONAL/PROVINCIAL DIRECTORS,  
MANUFACTURERS, IMPORTERS, DEALERS,  
WHOLESALEERS, RETAILERS AND OTHERS CONCERNED**

From : **CIRILA S. BOTOR** *C. Botor*  
Officer-in-Charge

Date : 03 June 2010

Subject : **LIST OF PRODUCTS UNDER MANDATORY CERTIFICATION**

For an effective implementation and enforcement of the BPS Product Certification Scheme, attached is the updated List of Products Under Mandatory Certification as of 31 May 2010 with specific product coverage and is classified into three (3) groups namely: safety, performance and energy labeling.

Please take note that in the list is the full implementation of the new Philippine National Standards (PNS) and labeling requirements for the following:

	<b>Product</b>	<b>PNS No.</b>
<b>Safety</b>		
1	CFL/Self ballasted lamps	<b>PNS IEC 968:2006</b> (IEC published 1988)
2	Fluorescent lamps (Double-capped)	<b>PNS IEC 61195:2006</b> (IEC published 1999)
3	Fluorescent lamps (Single-capped)	<b>PNS IEC 61199:2006</b> (IEC published 1999)
4	Steel sheets for roofing	<b>PNS 67:2009</b>
5	Steel sheet (Cold-reduced carbon)	<b>PNS 127:2004</b>
<b>Performance</b>		
6	Ballast for tubular fluorescent lamps	<b>PNS IEC 60921:2006</b> (IEC published 2004)
7	Ballast (AC supplied, electronic) for tubular fluorescent lamps	<b>PNS IEC 60929:2006</b> (IEC published 2003)
8	CFL/Self ballasted lamps	<b>PNS IEC 969:2006</b> (IEC published 1988)
9	Fluorescent lamps (Double-capped)	<b>PNS IEC 60081:2006</b> (IEC published 2002) with <b>PNS IEC 60081:2006 Amd. 02: 2006</b> (IEC published 2002 Amd. 02:2003) & <b>PNS IEC 60081:2006 Amd. 03: 2006</b> (IEC published 2002 Amd. 03:2005)
10	Fluorescent lamps (Single-capped)	<b>PNS IEC 60901:2001</b> (IEC published 1996) <b>PNS IEC 60901:2001 Amd. 01:2006</b> (IEC published 1996 Amd. 01:1997) & <b>PNS IEC 60901:2001 Amd. 02:2006</b> (IEC published 1996 Amd. 02:2000) & <b>PNS IEC 60901:2001 Amd. 03:2006</b> (IEC published 1996 Amd. 03:2004)

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**Membership:**

- International Organization for Standardization (ISO)
- Enquiry Point for WTO Technical Barriers to Trade (WTO-TBT)

<b>Energy Labelling</b>		
12	Ballast (Preheat, Magnetic & Electronic)	<b>PNS 2050-4:2007</b>
13	CFL/Self-ballasted lamps for general lighting services	<b>PNS 2050-2:2007</b>
14	Fluorescent lamps (Double-capped)	<b>PNS 2050-1-1:2007</b>
15	Fluorescent lamps (Single-capped)	<b>PNS 2050-1-2:2006</b>

For your information and guidance.

*mr*

**List of Products  
Under Mandatory Certification  
As of 31 May 2010**

	<b>Product</b>	<b>PNS No.</b>	<b>Title</b>	<b>Specific product coverage</b>
<b>ELECTRICAL PRODUCTS</b>				
<b>HOUSEHOLD APPLIANCES – SAFETY</b>				
1	Appliances General Reference	<b>PNS 1079:1994</b> (IEC 335-1:1991 Amd. 01:1994)	Safety of household and similar electrical appliances - Part 1 : General requirements	General Reference for appliances
2	Electric fans	<b>PNS IEC 60335-2- 80:2000</b> <b>IEC published 1997</b>	Safety of household and similar electrical appliances Part 2 : Particular requirements for fans	Plastic/Metal blades 300 Watts & below. Stand/Desk/Floor/ Ceiling/Wall/Exhaust/ Duct
3	Flat irons	<b>PNS 254-1:1994</b> <b>Amd. 01:2000</b> (IEC 60335-2-3:1993 Amd. 01:1999)	Safety of household and similar electrical appliances - Part 2 : Particular requirements for electric irons	Portable household electric flat iron
4	Kitchen machines (i.e., Blender, Juicer, egg beaters etc.)	<b>PNS 1244:1994</b> (IEC 335-2-14:1984)	Safety of household and similar electrical appliances - Part 2 : Particular requirements for kitchen machines	Portable household electric blender
5	Microwave ovens	<b>PNS IEC 335-2-25:2000</b> <b>IEC published 1996</b>	Safety of household and similar electrical appliances Part 2 : Particular requirements for microwave ovens	Portable household electric microwave
6	Refrigerators	<b>PNS IEC 60335-2- 24:2001 Amd.01:2003</b> (IEC 335-2-24:2000)	Safety of household and similar electrical appliances Part 2-24 : Particular requirements for refrigerating appliances and ice-makers	Storage volume: 142 liters to 227 liters (5 to 8 cu. ft.) only
7	Rice cookers, airpot & coffeemaker	<b>PNS 255:1996</b> (IEC 335-2-15:1995)	Safety of household and similar electrical appliances Part 2 : Particular requirements for appliances for heating liquids	Portable household electric rice cookers, airpots & coffeemakers
8	Audio, Video Products	<b>PNS IEC 60065:2007</b>	Audio, video and similar electronic apparatus – Safety requirements	Television Sets: 14 to 29 inches, CRT type CD/VCD/DVD Players (stand alone)

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• International Electrotechnical Commission (IEC)

9	Toasters, grills, roasters & similar appliances	<b>PNS 272:1996</b> (IEC 335-2-9:1993)	Safety of household and similar electrical appliances Part 2 : Particular requirements for toasters, grills, roasters and similar appliances	Portable household electric toasters, electric stoves & hot plates
10	Washing Machines	<b>PNS IEC 60335-2-7:2000</b> <b>IEC published 1998</b>	Safety of household and similar electrical appliances Part 2-7 : Particular requirements for washing machines	Single-washer & washer w/ spin extraction, semi-automatic controlled & horizontal drum orientation rated up to 250V a.c.
<b>LAMPS AND RELATED PRODUCTS – SAFETY</b>				
11	Ballast (Pre-heat/magnetic)	<b>PNS IEC 61347-1:2002</b> <b>Amd. 1:2006</b>  <b>PNS IEC 61347-2-8:2002</b>	Lamp controlgear – Part 1: General and safety requirements  Lamp controlgear - Part 2-8: Particular requirements for ballasts for fluorescent lamps	Ballasts with input voltage up to 1000V, 18W to 40W for use on T12, T10, T9 & T8 halophosphate lamps with G13 cap, 50/60 Hz
12	Ballasts (Electronic)	<b>PNS IEC 61347-1:2002</b> <b>Amd. 1:2006</b>  <b>PNS IEC 61347-2-3:2002 with Amd. 1:2006</b>	Lamp controlgear – Part 1: General and safety requirements  Lamp controlgear - Part 2-3: Particular requirements for A.C. supplied electronic ballasts for fluorescent lamps for general lighting service	A.C. supplied electronic ballasts up to 1000 V at 50 Hz or 60 Hz with ratings from 10W to 40W for T12, T10, T9, T8 & T5 halophosphate & triphosphate with G13 & G5 caps
13	CFL/Self ballasted lamps	<b>PNS IEC 968:2006</b> (IEC published 1988)	Self-ballasted lamps for general lighting services – Safety requirements	CFL Watts: 60W & below Voltage: up to 250V AC Edison screw based E14 & E27
14	Christmas lights/ Lighting chains	<b>PNS 189:2000</b>	Lighting sets using miniature and sub-miniature lamps for decorative purposes for indoor use – Specification	All types except using GLS type bulbs
15	Fluorescent lamps (Double-capped)	<b>PNS IEC 61195:2006</b> (IEC published 1999)	Double-capped fluorescent lamps – Safety specifications	Linear fluorescent lamps for T12, T8, & T5 halophosphate & triphosphate lamps with G13 & G5 caps, from 10W up to 65W, 220-230V AC
16	Fluorescent lamps (Single-capped)	<b>PNS IEC 61199:2006</b> (IEC published 1999)	Single-capped fluorescent lamps – safety requirements	Circular fluorescent lamps

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17	Fuseholders	<b>PNS 56:1996</b> (ANSI/UL 512:1992)	Fuseholders – Specification	Household fuseholders
18	Incandescent lamps (Bulbs)	<b>PNS 38-1:1995</b> (IEC 432-1:1993 Amd. 01:1995)	Safety specifications for incandescent lamps - Part 1 : Tungsten filament lamps for domestic and similar general lighting purposes	Watts: 200W & below Rated voltage: 50 to 250V Bulb shape: A, PS, M, B, C, P, G, Cap: E14, E17, E26, E27, E40 & E45
19	Lamp holder (Edison Screw)	<b>PNS 80:1997</b> (IEC 238:1996)	Edison screw lampholder – Specification	E5, E10, E14, E27 & E40 caps Switched holders ( $\leq V_{250} V_{rms}$ )
20	Lamp holders	<b>PNS 42:1997</b> (IEC 400:1996)	Lamp holders for tubular fluorescent lamps and starter holders – Specification	For starter based on IEC 155 For rated voltage up to 1000 $V_{rms}$ For use w/ G type BI-PIN cap (i.e., G13, G10q)
21	Lamp starters	<b>PNS 45:1997</b> <b>Amd. 01:1997</b> (IEC 155:1993/ Amd. 01:1995)	Glow-starters for fluorescent lamps	For use with pre-heat type fluorescent lamps
<b>WIRING DEVICES - SAFETY</b>				
22	Circuit breakers	<b>PNS 519:1991</b>	Circuit breakers – Moulded case-Specification	100 Amperes & below 1P, 2P & 3P
23	Circuit breakers	<b>PNS 1573-2:1997</b> (IEC 947-2:1995)	Low voltage switchgear and controlgear – Part 2 : Circuit-breakers	
24	Fuses	<b>PNS 13:1983</b> (PNS 13:1999) (UL 198B:1995)	Class H Fuses – Specification	Household fuse up to 100 Amperes
25	Metal boxes for electrical use	<b>PNS 1829:1999</b> (JIS C 8336:1991)	Electrical products - Boxes for rigid metal conduits	Utility box Octagonal box Pull box
26	Plugs, socket-outlets and Extension cords	<b>PNS 1486-1:1996</b> (IEC 884-1:1994)	Plugs and socket-outlets for household and similar purposes Part 1 : General requirements	Household plug and outlet (Safety test)
27	Plugs, socket-outlets and Extension cords	<b>PNS 1572:1997</b> (IEC 83:1975)	Plugs and socket outlets for domestic and similar general use standards	Household plug and outlet (Configuration & dimension)
28	PVC Electrical tapes	<b>PNS 79:1992</b>	Pressure sensitive adhesive polyvinyl chloride (PVC) tapes for electrical insulation – Specification	For general purposes and use for not more than 600 Volts
29	Switches (Snap)	<b>PNS 1485-1:1996</b> <b>Amd. 01 &amp; 02:1996</b> (IEC 669-1:1993/ Amd. 01:1994 Amd. 02:1995)	Switches for household and similar fixed-electrical installations Part 1 : General requirements	AC marking only Household snap switch for general lighting purposes

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30	Switches (Knife)	<b>PNS 118:1992</b>	Knife switches – Specification	Household knife Switches
31	Switches (Snap)	<b>PNS 57:1996</b> (UL 20:1995)	Snap switches for general use – Specification	Household switch with ac/dc marking. For household snap switch general lighting
<b>WIRES AND CABLES – SAFETY</b>				
32	Flexible Cords (PVC)	<b>PNS 163:1994</b>	Electrical products - Polyvinyl chloride insulated flexible cords – Specification	For indoor use Rated up to 300V
33	Wires and Cables	<b>PNS 35-1:2004</b>	Thermoplastic Electric Wires and Cables use up to 600 Volts	TW, THW & THHN/THWN 2.0mm <sup>2</sup> to 500mm <sup>2</sup> 1.6mm to 3.2mm
<b>MECHANICAL/BUILDING &amp; CONSTRUCTION MATERIALS</b>				
<b>MECHANICAL/BUILDING &amp; CONSTRUCTION MATERIALS - SAFETY</b>				
34	BI/GI Steel pipes	<b>PNS 26:1992</b> (PNS 26:2003)	Steel - Black and hot-dipped zinc coated (galvanized) longitudinally welded steel pipes (for ordinary use) – Specification	Black Iron (BI) and hot-dipped zinc coated (Galvanized Iron-GI)
35	Cement	<b>PNS 63: 2006</b>	Blended Hydraulic Cement with Pozzolan – Specification	Blended Hydraulic Cement with Pozzolan
36	Cement	<b>PNS 07:2005</b>	Portland cement – Specification	Portland Cement
37	Ceramic Tiles	<b>PNS ISO 13006:2007</b>	Ceramic Tiles – Definitions, Classification, Characteristics & Markings	Ceramic Tiles
38	Deformed Steel bars	<b>PNS 49:2002</b>	Steel bars for concrete reinforcement – Specification	Grade 230/275/415 Weldable & Non-weldable
39	Equal-Leg Steel Angle Bars	<b>PNS 657:2008</b>	Hot-Rolled Steel Sections – Equal-Leg Angles - Specifications	Hot-rolled equal-leg steel angle bars
40	Flat Glass	<b>PNS 193:2005</b>	Flat Glass - Specification	Type I (Transparent) Type II (Patterned and Wired)
41	Pipes (PB)	<b>PNS 152:1987</b> (PNS 152:2003/PWWANM 203:2003)	Polybutylene (PB) pipes for potable water supply – Specification	PB pipes SDR 9/11/13.5/17
42	Pipes (PE) for water supply	<b>PNS ISO 4427:2002</b>	Polyethelene (PE) pipes for potable water supply – Specification	PE 100/80/63/60/32 SDR 9/11/13.6/17
43	Pipes (uPVC)	<b>PNS 65:1993</b>	Unplasticized polyvinyl chloride (uPVC) pipes for potable water supply – Specification	uPVC pipes series 5/7/8 & 10

44	PVC rigid electrical conduit	<b>PNS 14:1983 Amd. 01:1987</b>	Unplasticized polyvinyl chloride (uPVC) electrical conduit – Specification	Thick wall and thin wall pipes
45	PVC-U Pipes for drain waste & vent	<b>PNS 1950:2003 Corrigendum 01:2003</b>	Plastic piping systems for soil and waste discharge (Low & High temp.) inside buildings – Unplasticized Polyvinyl Chloride (PVC-U)	PVC pipes for sanitary application
46	Plywood	<b>PNS 196:2000</b>	Plywood – Specification	Type I & II plywood products and blackboard, strip boards
47	Rerolled Steel bars	<b>PNS 211:2002</b>	Rerolled steel bars for concrete reinforcement – Specification	6mm to 8mm diameter grade 170 rerolled steel bars
48	Sanitary wares	<b>PNS 156:2000</b>	Sanitary wares – Specification	Urinals, Bidet, Water Closets, and Lavatories
49	Steel sheets for roofing	<b>PNS 67:2009</b>	Hot-dipped metallic-coated steel sheets for roofing - Specification	Hot-dipped metallic steel sheets for roofing
50	Steel sheet (Cold-reduced carbon)	<b>PNS 127:2004</b>	Cold-reduced carbon steel sheet of commercial & drawing qualities – Specifications	Cold-reduced carbon steel sheets
51	Steel wires (low carbon)	<b>PNS 113:2005</b>	Low carbon steel wires – plain, annealed & galvanized - Specification	Steel wires
52	Wire nails	<b>PNS 136:2000</b>	Steel - Wire nails – Specification	Common nails and finishing nails
<b>CHEMICALS &amp; OTHER CONSUMER PRODUCTS</b>				
<b>CHEMICALS &amp; OTHER CONSUMER PRODUCTS – SAFETY</b>				
53	Brake fluids	<b>PNS 239/MVSS 116:1988  DOT 3,4,5</b>	Motor vehicle brake fluids - Passenger cars, multi-purpose passenger vehicles, trucks, buses and motorcycles and brake fluid containers - Specification  Specification for motor vehicle brake fluid	DOT 3 DOT4
54	Fire extinguishers	<b>PNS 15-1:1989</b> (PNS ISO 7202:2000 ISO published 1987) (PNS ISO 7165:2000 ISO published 1999)	Portable fire extinguishers – Specification Part 1 : Dry chemical	MAP, MAP + Ammonium Sulfate, Sodium Bicarbonate, Potassium Bicarbonate, Urea-Potassium Bicarbonate
55	Fire extinguishers	<b>PNS 15-3:1991</b> (PNS ISO 5923:2000 ISO published 1989) (PNS ISO 7165:2000 ISO published 1999)	Portable fire extinguishers – Specification Part 3 : Carbon dioxide	Carbon dioxide

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56	Fire extinguishers	<b>PNS 15-4:1991</b> (PNS ISO 7165:2000 ISO published 1999) (PNS ISO 7203-1:2000 ISO published 1995) (PNS ISO 7203-3:2000 ISO published 1999)	Portable fire extinguishers – Specification Part 4 : Foam	AFFF (Foam)
57	Fire extinguishers	<b>PNS 15-5:1996 Amd. 01:1997</b> (PNS ISO 7165:2000 ISO published 1999)	Clean extinguishing agent – Part 5 : Halon substitute portable fire extinguishers – Specification	Halon substitute (as listed in USEPA SNAP LIST)
58	Fireworks	<b>PNS 1220-2:1994</b>	Fireworks – Part 2: Specification	Fireworks
59	Helmets and their visors	<b>PNS/UN ECE 22:2007</b>	Uniform provisions concerning the approval of protective helmets and their visors for drivers and passengers of motor cycles and mopeds	Helmets and their visors for drivers and passengers of motor cycles and mopeds
60	Inner tubes for tires	<b>PNS 34:2000</b>	Rubber inner tubes for pneumatic tires – Specification	Passenger, light truck, truck and bus rubber inner tubes
61	Lead-Acid Batteries	<b>PNS 06:1987</b>	Lead Acid storage batteries – Specification	Automotive & Motorcycle batteries
62	Lighters	<b>PNS 47:1998</b> (ISO 9994:1995)	Lighters - Safety specification	Lighters for cigars and cigarettes
63	LPG cylinders for household use	<b>PNS 03-1:2000</b>	Steel cylinders for liquefied petroleum gas (LPG) - Part 1 : Specification	LPG steel cylinders from 1 liter to 150 liters water capacity
64	LPG cylinders requalification	<b>PNS 03-2:2000</b>	Steel cylinders for liquefied petroleum gas (LPG) - Part 2 : Method of requalification	Requalification of LPG steel cylinders from 1 liter to 150 liters water capacity
65	LPG cylinders repair	<b>PNS 03-3:2000</b>	Steel cylinders for liquefied petroleum gas (LPG) - Part 3 : Requirements for repair	Repair of LPG steel cylinders from 1 liter to 150 liters water capacity
66	LPG cylinders for motor vehicles	<b>PNS 04:1983</b> (PNS 04:2006)	Gas cylinders for automotive – LPG for use in motor vehicles – Steel cylinders – Specifications	LPG cylinders for motor vehicles
67	LPG system Code of practice	<b>PNS 05:1983</b>	The use of Liquefied Petroleum Gas (LPG) system in internal combustion engine – Code of practice	Code of practice
68	LPG/CNG retrofit systems	<b>PNS/UN ECE 115:2006</b>	Uniform provisions concerning the approval of: (a) Specific LPG (Liquified Petroleum Gases) and (b) CNG (Compressed Natural Gas) retrofit systems to be installed in motor vehicles for the use of LPG or CNG, respectively, in their propulsion system	Specific LPG and CNG retrofit systems to be installed in motor vehicles for the use of LPG or CNG

69	Matches	<b>PNS 09-1:2000</b>	Safety matches - Part 1 : Safety matches for commercial purposes - Specification	Safety matches for commercial purposes
70	Medical grade oxygen	<b>PNS 103:1987</b> (PNS 103:2003)	Medical grade oxygen in cylinders - Specification	Medical grade oxygen
71	Monobloc chair/stools	<b>PNS 1478:1998</b>	Furniture - Monobloc chair, monobloc stool and plastic table - Specification	Chairs/stools only
72	Safety belts (Seat belts)	<b>PNS 1892:2000</b> <b>Amd. 01:2002</b>	Road vehicles - Safety-belts and restraint systems - Specification	2-point and 3-point manual/automatic safety belts
73	Safety glass for automotive	<b>PNS 130:1988</b> <b>Amd. 01:1998</b> (PNS 130:2004)	Safety glass for automotive application - Specification	Tempered/laminated (Windshield, Back light, sides)
74	Tires for automotive vehicles	<b>PNS 25:1994</b> (PNS 25:2003)	Pneumatic tires - Specification	Passenger, light truck, truck and bus tires

## ELECTRICAL PRODUCTS

<b>LAMPS AND RELATED PRODUCTS - PERFORMANCE</b>				
75	Ballast for tubular fluorescent lamps	<b>PNS IEC 60921:2006</b> (IEC published 2004)	Ballast for tubular fluorescent lamps - performance requirements	For use with ratings from 18W to 40W for T12, T10, T9 & T8 halophosphate fluorescent lamps with G13 cap, 50/60 Hz
76	Ballast (AC supplied, electronic) for tubular fluorescent lamps	<b>PNS IEC 60929:2006</b> (IEC published 2003)	AC supplied electronic ballast for tubular fluorescent lamps - performance requirements	10W to 40W for T12, T10, T9, T8 & T5 halophosphate and triphosphate fluorescent lamps with G13 & G5 caps
77	CFL/Self ballasted lamps	<b>PNS IEC 969:2006</b> (IEC published 1988)	Self-ballasted lamps for general lighting services - Performance requirements	Watts: 60W & below Voltage: up to 250V AC Edison screw base E14 & E27
78	Fluorescent lamps (Double-capped)	<b>PNS IEC 60081:2006</b> (IEC published 2002) with <b>PNS IEC 60081:2006 Amd. 02. 2006</b> (IEC published 2002 Amd. 02:2003) & <b>PNS IEC 60081:2006 Amd. 03: 2006</b> (IEC published 2002 Amd. 03:2005)	Double-capped fluorescent lamps - Performance specifications	Linear fluorescent lamps - T12, T8 & T5 halophosphate & triphosphate with G13 & G5 caps, 10W up to 65W, 220-300V AC

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79	Fluorescent lamps (Single-capped)	<b>PNS IEC 60901:2001</b> (IEC published 1996) <b>PNS IEC 60901:2001 Amd. 01:2006</b> (IEC published 1996 Amd. 01:1997) & <b>PNS IEC 60901:2001 Amd. 02:2006</b> (IEC published 1996 Amd. 02:2000) & <b>PNS IEC 60901:2001 Amd. 03:2006</b> (IEC published 1996 Amd. 03:2004)	Single-capped fluorescent lamps – Performance specifications	Circular fluorescent lamps
80	Incandescent lamps (Bulbs)	<b>PNS 38-2:1995</b> (IEC 64:1993)	Tungsten filament lamps for domestic and similar general lighting purposes - Part 2 : Performance requirements	Watts: 25W to 100W Rated voltage: 100V to 250V Shape: A or PS B22d, E26 & E27

### ELECTRICAL PRODUCTS

HOUSEHOLD APPLIANCES – ENERGY LABELLING				
81	Air conditioners	<b>PNS 396-1:1998</b>	Household appliances - Energy efficiency ratio (EER) and labeling requirements - Part 1 : Non-ducted airconditioners	Window & Split-type (wall & floor mounted) up to 36,000 KJ/hr cooling capacity
82	Refrigerators	<b>PNS 396-2:1997 Amd. 01:2000</b>	Household appliances - Energy efficiency factor (EEF) and labeling requirements - Part 2 : Refrigerators and freezers	Storage volume: 142 liters to 227 liters (5 to 8 cu. ft.) only
LAMPS AND RELATED PRODUCTS – ENERGY LABELLING				
83	Ballast (Preheat, Magnetic & Electronic)	<b>PNS 2050-4:2007</b>	Lamps and related equipment – Energy labeling requirements – Part 4: Ballast	For use with ratings from 10W to 40W for T12, T10, T9, T8 & T5 halophosphate and triphosphate fluorescent lamps with G13 & G5 caps
84	CFL/Self-ballasted lamps for general lighting services	<b>PNS 2050-2:2007</b>	Lamps and related equipment – energy efficiency and labeling – requirements – Part 2: Self-ballasted lamps for general lighting services	Watts: 60W & below Voltage: up to 250V AC Edison screw base E14 & E27

85	Fluorescent lamps (Double-capped)	<b>PNS 2050-1-1:2007</b>	Lamps and related equipment - Energy efficiency and labeling requirements – part 1-1: Double - capped fluorescent lamps	Linear fluorescent lamps – T12, T8 & T5 halophosphate & triphosphate with G13 & G5 caps, 10W up to 65W, 220-300V AC
86	Fluorescent lamps (Single-capped)	<b>PNS 2050-1-2:2006</b>	Lamps and related equipment – Energy labeling requirements – Part 1-2: Single-capped fluorescent lamps	Circular fluorescent lamps