



**Asia-Pacific
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Agenda Item: 6a

Information Paper on Changes to New Zealand's EEE Regulatory Regime

Purpose: Information
Submitted by: New Zealand



**22nd Joint Regulatory Advisory Committee on
Electrical and Electronic Equipment Meeting
Ho Chi Minh City, Viet Nam
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Changes to New Zealand's EEE Regulatory Regime

Background

New Zealand operates an EEE Regulatory regime that is explicitly risk based and has three intervention levels.

- A High Risk category that requires type testing and certification by an accredited certification body,
- A Medium Risk category that requires the supplier in NZ to complete an SDoC and to have available a test report to a recognised Standard,
- A “low” Risk category where the supplier is responsible for the safety of the products and where compliance with a recognised Standard, as verified by an accredited testing Laboratory, while not mandatory, is recognised as confirming safety.

Electricity safety regulations contain a comprehensive listing of the recognised Standards, most of which are IEC Standards or are aligned with the IEC and are joint Standards with Australia.

The risk categorisation is performed using a predictive risk assessment “engine” which produces an output in a graphical form that displays both probability and consequence separately and is based on the principles of ISO 31000. An example of a printout from the engine is attached below. *Note that Australia operates a very similar risk assessment engine.*

The regime covers both low voltage and extra low voltage equipment, including battery powered equipment.

The Regime operates on a close equivalence based mutual recognition foundation with Australia which applies IEC based Standards and ISO/IEC Standards for testing, certification and SDoC requirements.

The regime is in transition to align more comprehensively with Australia as they introduce a three tier Regulatory system. However it is expected that while the product's in each of the three risk categories will be closely aligned, NZ will retain some variations specific to risk in its market, and also additional recognition provisions that reflect the various MRAs and cooperation arrangements that we have with our trading partners, which in some cases incorporate the partner's Standards and compliance regime.

Interfaces with New Zealand's trading partners

New Zealand has 6 EEEMRAs (including the APEC EEEMRA) and each has its own special features. Three of these (which are with APEC member economies) are under review at present with the aim of introducing greater recognition by New Zealand of the Regulatory regime of the partner, including the partner's Standards.

List of High and Medium Risk products

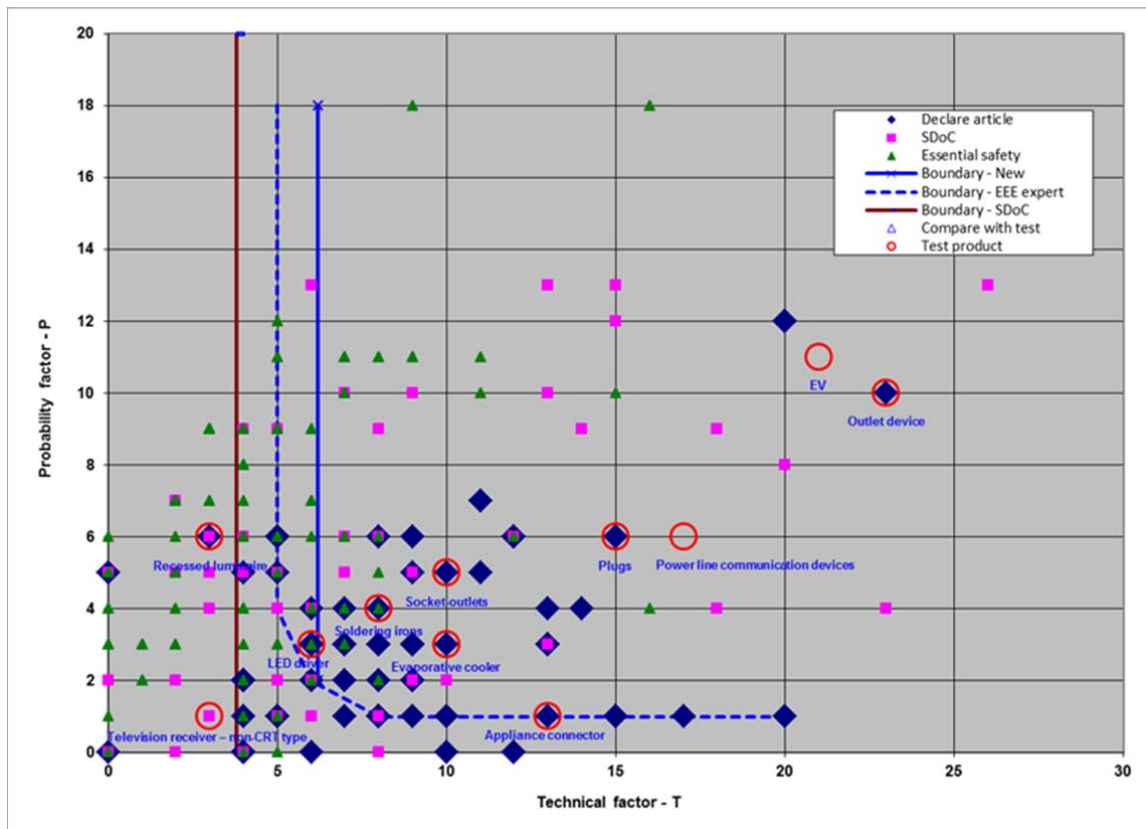
Attached is a table of the current medium and high risk products that are subject to the higher intervention levels. All high risk products are currently also subject to the controls applying to Medium Risk products.

Recent Changes

New Zealand included hover boards and their chargers in 2015. Electric Car charging equipment was introduced at the end of 2016, in added to in March 2017, reflecting initiatives to enable the uptake of electric vehicles in the New Zealand market.

Immediately below is a graph of the risk ratings that was produced by the “engine” recently to give us advice on some products that were being considered for increased regulation in Australia. This chart also shows the rating given to Electric Vehicle charging controllers (Labelled “EV”).

Typical Risk “Engine” Graph



New Zealand's High and Medium Risk products (*Yellow indicates High Risk*)

The Products with blue and red font are products that have recently been implemented.

Blanket
Bread toaster
Clothes dryer <i>(includes Tumble dryers, Cabinet clothes dryers, Heated clothes rack dryers)</i>
Cooking appliance - portable type <i>(includes Mini ovens, infrared contact grills, Electric frying pan, Electric deep fat fryer, Toasters, Toasted sandwich makers, Popcorn machines, Waffle Irons)</i>
Dishwashing machine
Fan <i>(includes Wall fan, Portable fan, Duct fans, Extractor Fans)</i>
Fence energizer <i>(includes Fence control energizer units for:- Animal, Security, Pet)</i>
Battery-operated fence energizer
Flexible heating pad
Over blanket / duvet / wrap
Electric hot water bottle
Hair care appliance
Hedge clipper
Immersion heater
Insect electrocutor
Iron
Kitchen machine
Lawn care appliance
Liquid heating appliance
Massage appliance
Microwave oven
Range
Range hood
Razor / hair clipper
Refrigerating appliance
Room heater
Sewing machine
Soldering iron
Swimming pool or spa equipment
Therapeutic lamp
Appliance for skin exposure to ultraviolet radiation
Vacuum cleaner
Washing machine
Water bed heater
Water heater
Drive for garage doors for residential use
Drive for horizontally and vertically moving gates, doors and windows for household or similar purposes
Glue gun
Air conditioner incorporating flammable refrigerant
Air conditioner incorporating non-flammable or low-flammable refrigerant
Decorative lighting outfit
Fluorescent lamp ballast
Fluorescent lamp starter
Inspection handlamp
Light fitting
Extra low-voltage light fitting
Luminaire - portable type
Simple portable luminaire
Nightlight – mains socket-outlet mounted
Supply flexible cord
Building wiring cables
Power supply or charger
Wall switch
Plug
Socket-outlet
Outlet device
Cord extension socket
Appliance connector
Control or conditioning device
Bayonet lampholder
Bayonet lampholder adaptor
Edison screw lampholder
Cord-line switch
Cord extension set
Touch dimmer
Residual current device (RCD)
Miniature over current circuit breaker
DC isolator
In-cable control and protection device
Tool - portable type
Battery-operated tool – portable type
Electrically operated toys
Arc welding machine
Lithium-ion / polymer battery
Power supply or charger for charging of a self-balancing personal transport device
A device that is a battery-powered self-balancing personal transport device
D.C. Electric Vehicle Charging Station
Cable Assembly for Electric Vehicle Charging
A.C. Electric Vehicle Charging Station
Vehicle Adaptor