



# Update of Arc Flash Guide

Time for an update-----

## Guide for the Management of Arc Flash Hazards

October 2011



The subject was raised at the EEA Health and Safety workshop last October.

General agreement that an update was required.



Working group was formed in March with an initial teleconference set up.

Two face to face meetings have been held since then.



## Members of the group are;

Chairman: Steve McDonald – Orion.

Facilitator: Juliet Clendon – EEA

Stuart Banks – Mitton Electronet.

Andy McMahon – Transpower

Ian Stedall – Genesis Energy

Cosmin Cosma – Westpower

Yanosh Irani – Meridian Energy

Brian Ultee - Contact Energy/SSPG

Graeme Johnson - Delta/SSPG

Dave Hammond – Powerco/SSPG

Gilbert Zieleman – ABB

Ronnie Bekker and Glen Busby -RPS



No specific New Zealand or Australian standards.

However AS/NZS 3000 does have a brief section  
on LV installations



Layout will be based on the standard Guide layout.

Definitions will be updated and added.

Only American standards are generally available.



NFPA 70A ---- PPE

IEEE 1584 ----- Calculations

Limited to equipment up to 66kV

Will also include DC and LV

Lee method may also be considered for some calculations





Definitions will include all related items;  
e.g.

## **Incident Energy.**

We intend to use, **cals/cm<sup>2</sup>**

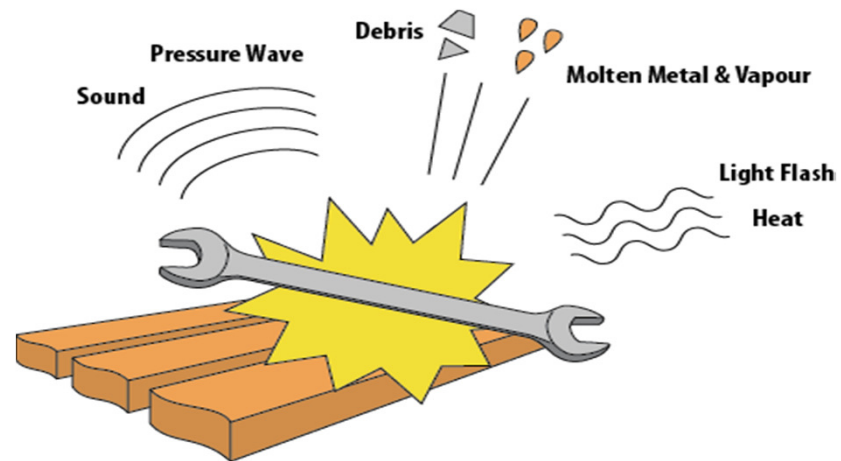
As this is the value that is easily recognisable.  
e.g. PPE clothing have these labels.

We will quote **j/cm<sup>2</sup>** where appropriate



First section will include a basic understanding;

i.e. **‘What is Arc Flash?’**



Then include the consequences of,

## Arc Flash/Arc Blast



Other sections will also include,

Arc Flash analysis as well as risk and mitigation.

The analysis section may include worked examples to provide some consistent understandings.



Another area to be included will be the equipment design/installation stages.

Especially around the installation of HV equipment and the subsequent operation as intended by the manufacturer.



Intend to include an appendix relating to some standardised labeling.

This would include incident energy and boundary limits as well as PPE requirements.



Expect that a draft guide would be available for presentation at the EEA Health and Safety Workshop in October.

Available for industry consultation by the end of the year.

Issued in the early part of 2018



# Any Questions?

