

From: 9(2)(a) privacy

Sent: Tuesday, June 27, 2023 3:56 PM

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Subject: RE: Workshopping the Energy Safety Standards Cabinet paper

Kia ora 9(2)(a) privacy

I've now met with the Energy Safety team to go over the issues that they identified. I've briefly summarised where they've got to so that you have an idea of what issues are still outstanding before we set up a meeting.

Electricity (Safety) Regulations – schedule 2

- **Out of scope**
[Redacted]
[Redacted]
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[Redacted]
- AS/NZS 3000:2018 (known as the Australian/New Zealand wiring rules) – confirming that WorkSafe now recommends adopting AS/NZS 3000:2018 only rather than maintaining a dual citation with AS/NZS 3000:2007. The Energy Safety team have queried whether it would be possible to make modifications to AS/NZS 3000:2018 through the regulations (as is currently the case with AS/NZS 3000:2007) to make provision for electric vehicle (EV) chargers that are not recognised through the Australia/New Zealand wiring rules. This would be in addition to the electric vehicle specific standards that are to be inserted into schedule 4. Modifying AS/NZS 3000:2018 would allow WorkSafe to update its EV charging guidance and help achieve the Emissions Reduction Plan action "Review the Electricity (Safety) Regulations 2010 to cover the safety needs associated with charging EVs". There are also some other minor modifications suggested.

For ease of reference, the way that modifications are currently made to AS/NZS 3000:2007 are as follows:

AS/NZS 3000:2007: Electrical installations (known as the Australian/New Zealand Wiring Rules): including Amendments 1 and 2, subject to the following modifications:

1. In 4.5.2.3.2, change "warning sign shall be installed" to "warning sign shall be installed or fitted in domestic installations but may be omitted from all other installations".
2. In 4.18.1(b) and (c), change "all live (active and neutral) conductors" to "all active conductors".
3. Add a new paragraph to 4.18.2: "In New Zealand, only electrical equipment that is directly associated with the gas supply may be installed in the hazardous areas of a domestic installation, shown in figure 4.10."
4. Replace 4.18.3 with "In New Zealand, only electrical equipment (including metering

equipment) that is directly associated with the gas supply may be installed in the exclusion zones of a domestic installation in figure 4.11."

The suggested modifications to AS/NZS 3000:2018 would include:

5. Remove reference to clause 1.7.3 Equipment selection – the reason for this is that the Electricity (Safety) Regulations prescribe an equipment regime, it is not appropriate for AS/NZS3000 to also prescribe an equipment regime for New Zealand.
6. Possibly delete clause 2.3.2.1.2(b) Neutral conductor or amend it in some way - the reason for this is that there needs to be an ability to switch the neutral for EV charging.
7. Amend clause 2.6.2.2.3(b) which only recognises Type A RCDs – we need to be able to recognise Type B and Type F RCDs for EV charging.
8. Delete 2.6.3.3.2 Exception 2, Bullet point 2 – this exception is no longer needed due to change in technology use.
9. In clause 4.18.5 Reticulated lighter-than-air gas system, delete the words "lighter-than-air" – this would allow this clause to also apply to reticulated LPG installations.
10. Amend clause 4.18.5 so that the term "hazardous area" has the same meaning as "exclusion zone".
11. In clause 8.3.10 paragraph 2 delete the words "either by the operation of the integral test device, or". The reason for this is to ensure that RCDs are tested to ensure that they are working but are not deemed unsafe by Regulation 24 of the Electricity (Safety) Regulations due to the trip time.

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Out of scope

- [REDACTED]
- [REDACTED]

- [REDACTED]

It would be good to get together to discuss these issues soon, what sort of timing suits you? If wanted, I can include the Energy Safety team in the meeting as they can talk over the technical details better than I can.

Ngā mihi

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