

Before the Proposed Porirua District Plan Hearings Panel In Porirua

Under the Resource Management Act 1991 (the Act)

In the matter of the Proposed Porirua District Plan - Hearing Stream 4: Strategic Directions, Energy, Infrastructure and Transport, General District-Wide Matters

Between **Porirua District Council**
Local Authority

And **Transpower New Zealand Limited**
Submitter 60 and Further Submitter FS04

Supplementary statement of evidence of Benjamin Roy Cartwright for Transpower NZ Limited

Dated 15 February 2022

大成 DENTONS KENSINGTON SWAN

89 The Terrace
PO Box 10246
Wellington 6143

P +64 4 472 7877
F +64 4 472 2291
DX SP26517

Solicitor: E J Hudspith/ L D Bullen
E Ezekiel.hudspith@dentons.com/liam.bullen@dentons.com

1 Introduction

1.1 My name is Benjamin Roy Cartwright. I am employed by Transpower as an Engineer – Lines within the Tactical Engineering Team. At Hearing Stream 4 on 14 February 2022, the Hearings Panel asked about the justification for the 30m Pāuatahanui Substation Yard. I indicated that I did not have that information available and would file supplementary evidence.

2 Pāuatahanui Substation Yard

2.1 Following routine engineering safety site tests, Transpower seeks a 30m substation corridor from the Pāuatahanui switchyard security fence to mitigate against the effects of Earth Potential Rise (EPR) and the associated transferred voltage¹ risks. This provision ensures underground service providers and utilities are made aware of the potential issues and risks, and works with Transpower to mitigate them.² This mitigation could be as simple as installing plastic pipes rather than metal pipes for underground services.

2.2 While from an engineering perspective the EPR findings could justify an increased setback, the 30m takes into account the existing adjoining zoning (being Open Space to the west, Rural Lifestyle to the east and Settlement Zone to the north, all of which restrict land use and subdivision.) Of note, I understand that subdivision within the Settlement Zone requires a 3000m² minimum lot size and an average of 1ha. I also understand that a 2ha minimum lot size is required in the Rural Lifestyle Zone. The 30m setback was determined based on the EPR results and the limited development potential (particularly in relation to sensitive activities) on adjoining sites, noting the area is also subject to numerous designations.

Ben Cartwright

15 February 2022

¹ Cartwright, 21 January 2022, paragraph 8.10; Figure 18.

² Cartwright, 21 January 2022, paragraphs 8.4-8.7.