

# MOBILE PLANT AND/ OR VEHICLE MINIMUM APPROACH DISTANCE REQUEST AND



<b>In compliance with the New Zealand Electrical Code of Practice 34: 2001 Section 5.2, Safety Manual – Electrical Industry Rules 2.905, 3.712 an applicant’s statement is hereby requested for a reduction in the minimum permissible distance to approach live conductors with mobile plant and/or vehicles in accordance with the following proposal.</b>		
Line / Station / Location:	Structure / Equipment ID:	Voltage (kV):
Request details (Contractor’s machinery and equipment involved, work to be carried out, etc):		
Date(s) and duration of required minimum approach:		
Proposed minimum distance to live conductors will not be less than (        metres). <b>Note: - Refer to Table on reverse:</b>		
The person on site and in charge of ensuring the minimum distance will be:		
If the above person is not on site, the person in charge will be:		
The safety observer will be:		
The method of identifying the minimum distance boundaries will be:		
The method of ensuring compliance with the minimum distance boundaries will be:		
Applicant Reference No:	Manawa Energy Ref No:	Location:
Applicant & /or Company Name:		Date:
Contact name:		Phone No:
Signature:	Fax No/ e-mail:	

Manawa Energy Use	
<b>Manawa Energy STATEMENT</b> In terms of the <b>NZ Electrical Code of Practice 34: 2001 Section 5.2, Safety Manual- Electricity Industry Rules 2.905 and 3.712</b> and Manawa Energy’s own requirements, the requested mobile plant and/or vehicle minimum distance to live conductors of [        ] metre(s) is approved.	
Manawa Energy approval by:	Date approved:
<b>This reduced approach distance permission is issued solely to the applicant or named company and may not be used by any other persons or company. The permission is issued for the duration detailed below only. The applicant will notify the issuing Manawa Energy Personnel on works completion.</b>	
Permission Duration:	Expiry Date:
Signature:	Date:
Works Completed Date:	Permission Cancelled (Sign):
<b>EMERGENCY CONTACT:</b>	

**Do not attempt to use any measuring device, stick, rod or other material to assess or check distances around any power line**

# MOBILE PLANT AND/ OR VEHICLE MINIMUM APPROACH DISTANCE REQUEST AND



## New Zealand Electrical Code of Practice 34: 2001 Section 5

### Safe Distances for The Operation of Mobile Plant Near Conductors

#### 5.1 General

5.1.1 This section does not apply to live line work or to any conductor forming part of the mobile plant or any collector wire, insulated cable, or flexible cord used for the purpose of supplying electricity to the mobile plant.

5.1.2 Mobile plant working near an electric overhead electric line can damage the line and be hazardous for the plant operator, the mobile plant and people in the vicinity.

5.1.3 Conductors can be displaced from their normal position by wind or temperature change. This requires special consideration by mobile plant operators.

5.1.4 This section does not apply while mobile plant is in transit on a road and the relevant requirements of the Traffic Regulations 1976 are observed.

#### 5.2 Minimum Approach Distance

5.2.1 The distance between any live overhead electric line and any part of any mobile plant or load carried shall be **"AT LEAST 4.0 METRES"**, unless the operator has received written consent from the overhead electric line owner allowing a reduced distance.

5.2.2 When an approval has been obtained pursuant to clause 5.2.1, and subject to clause 5.5.1, the minimum approach distance between a conductor and any mobile plant shall not be less than specified in Table 6.

5.2.3 Figure 5 provides a quick reference guide to the minimum safe distances for use of mobile plant near conductors of overhead electric lines.

#### 5.3 Working Above Overhead Electric Lines

5.3.1 Mobile plant or any load carried shall not operate above the conductors of any overhead electric line unless the operator has received written consent from the overhead electric line owner to work above the overhead electric line.

5.3.2 The use of helicopters above overhead electric lines is governed by the Civil Aviation Rules.

#### 5.4 Consent For Reduced Minimum Approach Distances

5.4.1 The application for written consent from the overhead electric line owner shall be made with reasonable notice.

5.4.2 The overhead electric line owner's written consent shall advise:

- The voltage of the overhead electric line and the minimum approach distance to be observed, which shall not be less than the requirements of Table 6; and
- Any other reasonable conditions to be observed while working in proximity to, or above, the overhead electric line.
- The section of line to which the consent applies.

**TABLE 6: REDUCED MINIMUM APPROACH DISTANCES (where written consent has been obtained)**

Circuit Voltage	Minimum Approach Distance (m)
Not exceeding 1 kV – insulated conductor	0.15
Not exceeding 1 kV – conductor not insulated	1.0
Exceeding 1 kV but not exceeding 66 kV	1.0
Exceeding 66 kV but not exceeding 110 kV a.c. or d.c.	1.5
Exceeding 110 kV but not exceeding 220 kV a.c. or d.c.	2.2
Exceeding 220 kV d.c. but not exceeding 270 kV d.c.	2.3
Exceeding 270 kV d.c. but not exceeding 350 kV d.c.	2.8
Exceeding 350 kV d.c. or 220 kV a.c.	4

#### 5.6 Other Requirements

5.6.1 Where any mobile plant is likely to be used at any time in the proximity of overhead electric lines, the owner or operator of such device shall affix an approved warning notice in a conspicuous place as near as practicable to the operator's position. The notice shall be maintained in a legible condition and shall state:

**"WARNING, KEEP CLEAR OF POWER LINES".**

#### SAFETY

**All power lines have the potential to cause serious harm or death if persons directly touch, indirectly touch or even simply get too close to a conductor or line.**

**Do not attempt to use any measuring device, stick, rod or other material to assess or check distances around any power line**