

# Health and safety workshop 2020



**Chris Withey:**  
**Field Services Team Leader**

# Work scope

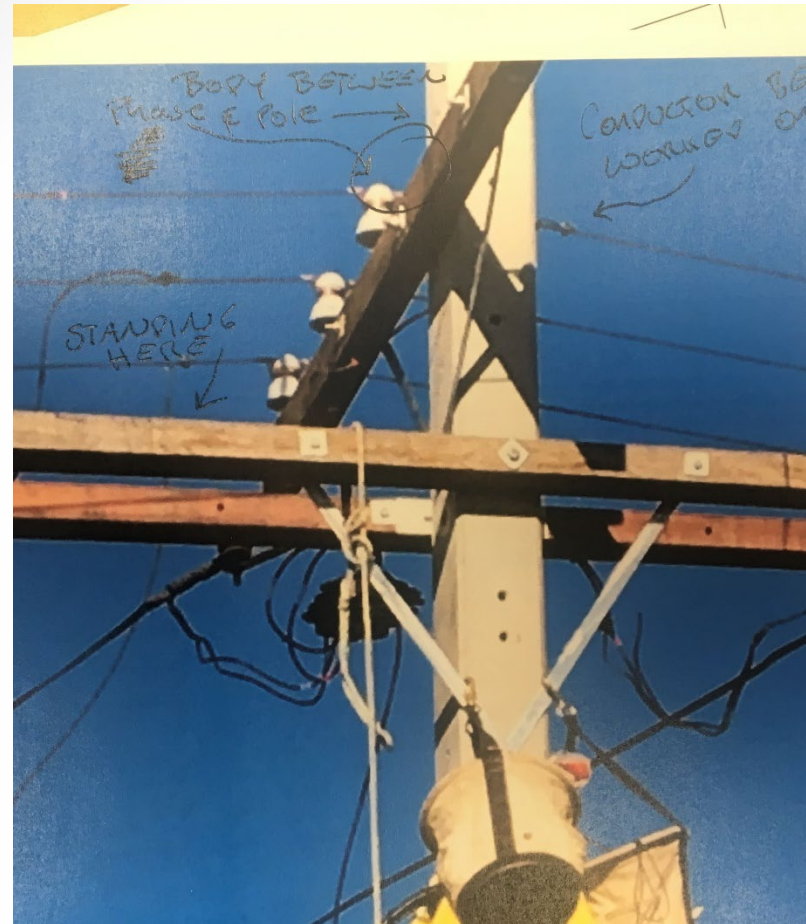
Run of the mill overhead construction project:

- 3 crews
- 3 poles, 3 arms, DDO installation, other OPEX work
- Work area isolated by 2 x ABS's and AP issued on HV.
- Positive isolation HV and LV.
- Several ICP connections within the work area
- DDO's at transformer within work zone were removed
- HV complete and working on LV



# The incident

- Line Mechanic working aloft connecting LV jumpers for service fuses.
- Standing on LV arm with tested boots and class 1 gloves.
- Leaned between pole and LV conductor
- Minor electric shock on his chest
- Taken for precautionary check and returned to work.



# Onsite findings

- Tested LV and found 230V on all three phases (0V between phases).
- Found generator running at adjacent property.
- Turned off and disconnected service main
- Tested and resumed work



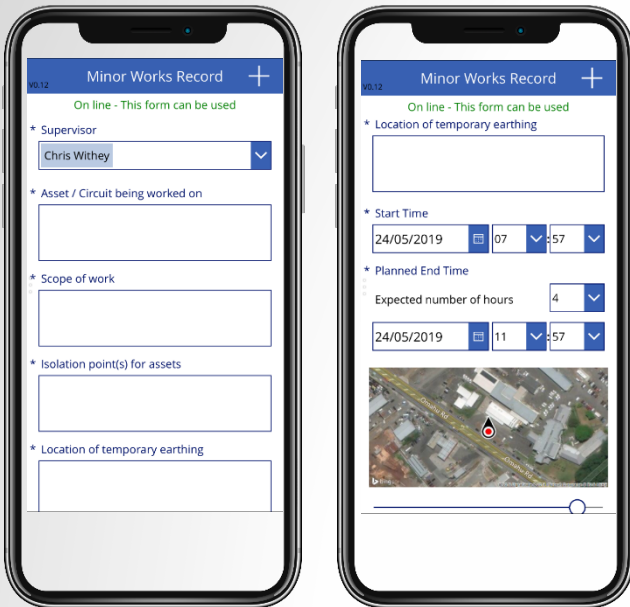


# Immediate actions- Unison Contracting

- Mirror HV earthing requirements on LV. Bond and earth either side of worksite with one set within 5m.
- U/G cables to be earthed at point of isolation.
- **And** either;
  - Use cover up to maintain a single point of contact, or
  - Remove service fuses within the isolation area.
- Where not practicable 'Live Techniques' to be used. Requires SOP- these were in development.
- ABC conductor to be treated as Live at all times as earthing at worksite is impracticable.
- Developed live LV SOP's and Live work manual for LV and undertook training.
- Process developed for notification of generation.
- Planning controls to be considered for further mitigation of risk.

# Going forward

- LV permit process to mirror HV
- Minor works- self issue through app.
- Interim measure for LV permits- Work authority issued through NOC via radio captured in WSP



**unison** The Powerless People Access Permit: **SD 153016272** Rev 3

Area Of Work: Puketitiri Rd Switching Plan: 153056704  
 Work To Be Completed: Replace pole 132759

Notes:  
 JAE's applied Between Poles 137529 & 137528 @ Pole 137528 and Between 137551 & 112820 @ 112820

Equipment Requested:

#	Station/Feeder	Current Feeder	Description	Equipment Name
1	Petoka 33/11 KV / Rissington	Rissington		1C: 0.02(7/064) G5

Isolation Points:

#	Station/Feeder	Current Feeder	Description	Isolation Point
1	Petoka 33/11 KV / Rissington	Rissington	Between	11kV ABS 282 [360kVA]
2	Springfield 33/11 KV / Puketapu	Puketapu		11kV Link 4273

Access Permit **153016272**  
 Issued To: On the isolated and earthed system between Between 11kV ABS 282 [360kVA] & 11kV Link 4273

Work Party Register	SIGN ON	SIGN OFF				
	I understand the extent of the equipment covered by this permit and am aware of all hazards in the vicinity of the working area.	I understand that I am no longer able to work on the equipment covered by this permit.				
Name	Signature	Date	Time	Signature	Date	Time
Recipient Applied Safety Measures	ON Date	Time	OFF Date	Time		
a						
b						

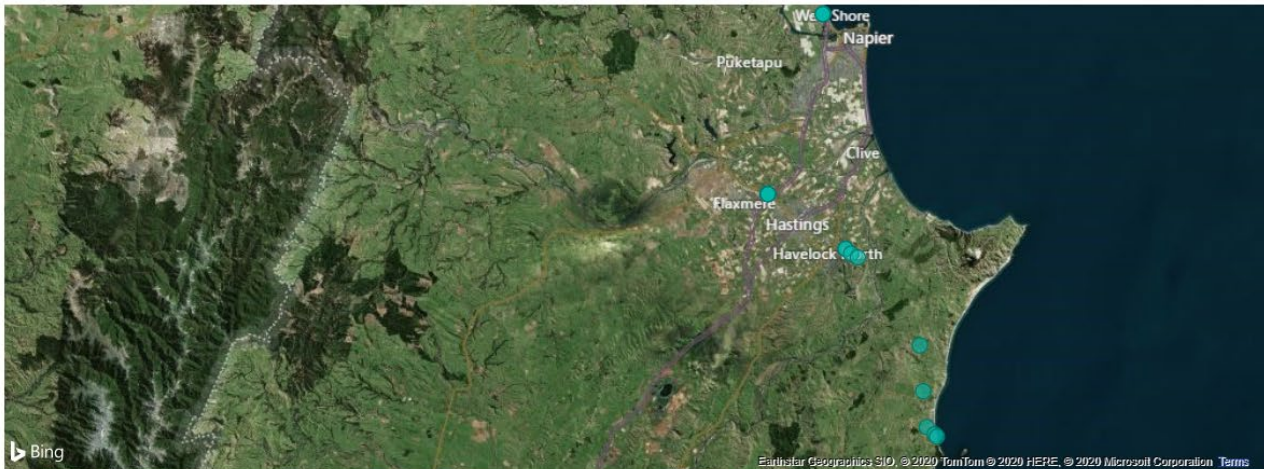
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# Questions?

## Minor Works Records

24/04/2019 31/12/2019

ID	URL	Created By	Created	Supervisor	Asset	Scope	Start	Planned End	Derived Address
61		Chris Withey	26/11/2019 00:54:22	Chris Withey	Test 1	Clamp joint	26/11/2019 00:53:00	26/11/2019 02:54:00	1103 Omaha Rd, Twyford, Hastings 4175, New Zealand
60		Chris Withey	26/11/2019 00:38:55	Chris Withey	Sub 199 cct 5	Inline clamp joint to establish new pedestal	26/11/2019 01:00:00	26/11/2019 03:00:00	1103 Omaha Rd, Twyford, Hastings 4175, New Zealand
59		Blair Jones	03/05/2019 04:04:10	Blair Jones	D	C	03/05/2019 04:03:00	03/05/2019 08:03:00	1100 Omaha Rd, Twyford, Hastings 4175, New Zealand
58		Chris Withey	01/05/2019 01:27:21	Chris Withey	Sub 638 ct 6	Clamp joint and raise for new ped	01/05/2019 01:26:00	01/05/2019 05:26:00	
57		Blair Jones	30/04/2019 20:27:23	Blair Jones	Dorkland 2	C	30/04/2019 20:27:00	01/05/2019 00:27:00	Grafton, Auckland 1010, New Zealand
56		Blair Jones	30/04/2019 20:19:52	Blair Jones	Dorkland	A	30/04/2019 20:19:00	01/05/2019 00:19:00	Grafton, Auckland 1010, New Zealand
55		Blair Jones	29/04/2019 05:17:40	Blair Jones	dddd	dd	29/04/2019 05:12:00	29/04/2019 09:12:00	Napier Airport, Napier 4110, New Zealand
54		Blair Jones	29/04/2019 05:14:41	Blair Jones	X	X	29/04/2019 05:07:00	29/04/2019 09:07:00	Napier Airport, Napier 4110, New Zealand



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ID

Created By

Supervisor