

From: Cherry, Brian K  
Sent: 10/19/2011 5:14:42 PM  
To: pac@cpuc.ca.gov (pac@cpuc.ca.gov)  
Cc:  
Bcc:  
Subject: FW: Z-34-1&2 Network  
FYI

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**From:** Williams, Geisha  
**Sent:** Wednesday, October 19, 2011 4:21 PM  
**To:** Pruett, Greg S.; Cherry, Brian K  
**Subject:** FW: Z-34-1&2 Network

Earlier today a 3rd party contractor dug into our conduit package at the corner of Beale and Mission while in the process of removing a large sewer line. We have not received any reports of public injury. The immediate damage was to the Z-3404 feeder. We also have the Z-3401 and Z-1110 network feeders and the Z-1103 radial feeder in the same duct package. All 3 feeders will need to be de-energized to inspect the damaged duct package. We believe we can do this without affecting anyone's service, but loading could become an issue – especially at the Moscone Center Extension. ES&S is all over it, but I bring this to your attention because of the potential public impact, should something not go as planned.

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**From:** Dashner, Andrew M  
**Sent:** Wednesday, October 19, 2011 3:29 PM  
**To:** SF\_Update  
**Subject:** FW: Z-34-1&2 Network

Z-34-2 Network Update: Upon further investigation of our mapping, we have determine the following system impacts:

- Z-1103 Network Feeder (Z-1 group): We need to de-energized this circuit in order to safely inspect the duct package. This will cause an N-1 condition to the Z-1 group. This operation will be performed later this afternoon. **No customers will be impacted.**
- Z-1113 Radial Feeder: We need to de-energized this circuit in order to safely inspect the duct package. We can isolate this section of cable between the substation and the first field switch. **No customers will be impacted.**

- Z-3404 Network Feeder (Z34-1 group): This circuit was damaged by the 3rd party contractor. Cable will need to be replaced
- Z-3401 Network Feeder (Z34-1 group): We need to de-energized this circuit in order to safety inspect the duct package. This will put the Z34-1 group in an N-2 condition which may require us to curtail load for a few customers. Engineering is working on this information now.
- Z-3403 Network Feeder (Z34-2 group): This feeder relayed due to a suspected sympathy fault which has put the Z34-2 group in an N-1 condition. Substation M&C is inspecting the breaker prior to restoring the circuit. There are no customer outages, however we do have a high loading condition at the Moscone Center Extension. This will be resolved by restoring the Z-3403, Engineering is currently monitoring the condition. ETOR for this circuit is 17:00.

M&C is currently validating the mapping in the area due to the Transbay Terminal Project.

ES&S is engaged and prepared to perform customer reach-out as necessary.

Andy

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**From:** Dashner, Andrew M  
**Sent:** Wednesday, October 19, 2011 1:49 PM  
**To:** SF\_Update  
**Subject:** FW: Z-34-1&2 Network

Z-34-2 Network Update: A 3rd party contractor has damaged our conduit package while in the process of removing a large sewer line. The immediate damage was to the Z-3404 feeder. We also have the Z-3401 and Z-1110 network feeders and the Z-1103 radial feeder in the same duct package. All 3 feeders will need to be de-energized to inspect the damaged duct package. The Z-1110 and Z-1103 will have minimum system impact, however, we the Z-3401 will cause a N-2 condition on the Z-34-1 network group. Operations and Engineering are working identify the customer impact of the N-2 condition. More to come.

Andy

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**From:** Dashner, Andrew M  
**Sent:** Wednesday, October 19, 2011 12:26 PM  
**To:** SF\_Update  
**Subject:** FW: Z-34-1&2 Network

Z-3404 Update: Preliminary reports indicate a 3rd party contractor damaged our 34KV cable while boring for a new water line. No injuries have been reported at this time.

Andy

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**From:** Dashner, Andrew M  
**Sent:** Wednesday, October 19, 2011 12:18 PM  
**To:** SF\_Update  
**Subject:** FW: Z-34-1&2 Network

Z-3404 Update: We have a report of a dig-in at Beale and Mission. Restoration personnel are enroute to investigate. More to come.

Andy

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**From:** Dashner, Andrew M  
**Sent:** Wednesday, October 19, 2011 12:01 PM  
**To:** SF\_Update  
**Subject:** Z-34-1&2 Network

All,

At approximately 11:40, the Z-3404 network feeder (Z-34-1 group) and the Z-3403 network feeder (Z-34-2 group) relayed putting both 34KV network groups in an N-1 condition. There are no hazard reports or customer outages at this time. Based on the information that only the Z-3404 had fault targets and that these feeder serve different areas, we suspect that the Z-3403 relayed due to a sympathy fault. Operations is working with Engineering on a plan to restore the Z-3403.

Andy Dashner