

Southern California Edison
Moorpark-Newbury A.13-10-021

DATA REQUEST SET A1310021 Moorpark-Newbury-ED-SCE-06

To: ENERGY DIVISION
Prepared by: Sheridan Mascarenhas
Title: Field Engineering Project Manager
Dated: 05/05/2015

Question 01:

SCE's response to CPUC Data Request 4, Question 2, indicates that under PEA System Alternative 2 for the N-1 Case with the Pharmacy Substation reconnected, there would be a voltage drop at Newbury Substation in 2026 that would be approximately 12.8 percent. Given the 12.8 percent voltage reduction noted in the 2026 model for this alternative, please provide an estimate for the earliest year that a voltage violation (i.e., 5 percent or more) would occur at Newbury Substation during the N-1 conditions with the Pharmacy Substation load reconnected. Please also provide the associated power flow studies.

Response to Question 01:

Based on SCE's currently approved forecast (2014-2023), the load flow analysis determined that the first year in which a greater than 5% voltage drop occurred would have occurred several years ago, however in consideration that it is now 2015, it was observed that in 2015 a projected voltage drop of 9% would occur at Newbury Substation during an N-1 condition with the Pharmacy Load reconnected. A power flow diagram depicting this situation is attached.

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Question 02:

Assuming connection of the CamGen generator to the Moorpark System, provide an estimate for the earliest year that a voltage violation (i.e., 5 percent or more) would occur at Newbury Substation during the N-1 conditions with the Pharmacy Substation load reconnected. Please also provide the associated power flow studies.

Response to Question 02:

Based on SCE's currently approved forecast (2014-2023), the load flow analysis determined that the first year in which a greater than 5% voltage drop occurred would have occurred several years ago, however in consideration that it is now 2015, it was observed that in 2015 a projected voltage drop of 5.2% would occur at Newbury Substation during an N-1 condition with the Pharmacy Load reconnected. A power flow diagram depicting this situation is attached.

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Question 03:

SCE's response to CPUC Data Request 4, Question 4, indicates that under PEA System Alternative 2 and the connection of the CamGen generator for the N-1 Case with the Pharmacy Substation reconnected, there would be a voltage drop at Newbury Substation in 2026 that would be approximately 6.3 percent. Given the 6.3 percent voltage reduction noted in the 2026 model, please provide an estimate for the earliest year that a voltage violation (i.e., 5 percent or more) under System Alternative 2 and the connection of the CamGen generator would occur at Newbury Substation during N-1 conditions with the Pharmacy Substation load reconnected. Please also provide the associated power flow studies.

Response to Question 03:

Based on SCE's currently approved forecast (2014-2023), the load flow analysis determined that the first year in which a greater than 5% voltage drop occurred would have occurred several years ago, however in consideration that it is now 2015, it was observed that in 2015 a projected voltage drop of 5.1% would occur at Newbury Substation during an N-1 condition with the Pharmacy Load reconnected. A power flow diagram depicting this situation is attached.