

Southern California Edison
WODUP A.13-10-020

DATA REQUEST SET A.13-10-020 WODUP ED-SCE-08

To: ENERGY DIVISION
Prepared by: Ayman Samaan, P.E.
Title: Power System Planner 4
Dated: 10/14/2014

Question PD-24 A:

SCE responded to Data Request PD-22.A.ii (included in DR7; response received September 25, 2014). This response was incomplete. The request was intended to provide the CPUC with a better understanding of the project need and objectives; it asked for the MW load at substations and/or MW power flow through the substations then to the downstream system. The response only addressed local load (showing a total of 1,809 MW).

A. Please describe the portion of the project's capacity (in MW) that would flow to other downstream portions of the system.

Response to Question PD-24 A:

As indicated in the PEA, the WOD Upgrade Project is designed to increase the overall system transfer capability from 1,600 MW to 4,800 MW. The entire increase of approximately 3,200 MW will flow downstream as the system is an integrated system. Actual power flow on the WOD lines will depend on many factors, such as dispatch of downstream and upstream generation, amount of local area load, and schedules on system interties. Assuming peak flow conditions, the 4,800 MW total system transfer capability would serve load at El Casco, San Bernardino, and Vista substations (approximately 1,760 MW during peak load conditions) and the balance of 3,040 MW would flow downstream on the rest of the integrated network facilities.

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Question PD-24 B:

SCE responded to Data Request PD-22.A.ii (included in DR7; response received September 25, 2014). This response was incomplete. The request was intended to provide the CPUC with a better understanding of the project need and objectives; it asked for the MW load at substations and/or MW power flow through the substations then to the downstream system. The response only addressed local load (showing a total of 1,809 MW).

B. Please provide this power-flow information for each of the individual circuits, disaggregated per circuit, as defined in Data Request PD-22 item iv.

Response to Question PD-24 B:

As discussed in SCE's response to Data Request Question No. PD-24.A, the power flow loading on each circuit depends on a number of variables. These variables include: actual load values at El Casco, San Bernardino, and Vista substations, local and downstream generation dispatch, as well as the operating condition on the rest of the bulk transmission network system. In addition, as stated in SCE's response to Data Request Question No. PD.22.A.ii, the WOD transmission lines are not radial and therefore providing values for power flow on each individual circuit would represent only a snapshot of the system condition under certain assumptions which may, in fact, not be an accurate representation of power flows under different system assumptions.