

Docket Number 06-SPPE-2
First Round Data Requests
El Centro Unit 3 Repower Project
July 2006

DATA REQUEST #21
TRANSMISSION SYSTEM ENGINEERING

BACKGROUND

The SPPE's short circuit study states,

“...92 kV circuit breakers with a 63kA interrupting rating should be used for the ECGS Unit #3 interconnection. Future system expansion plans will result in a further increase of the short circuit duty.”

Staff is concerned that breaker ratings may or may not be adequate for symmetrical faults (three-phase faults) depending on the aging and present condition of the existing breakers, and for asymmetrical faults (line-to-ground faults) existing breaker ratings (40,000 Amps) may not meet industry standards or American National Standards. Staff is also not confident that the System Impact Study included a complete transient stability study and post-transient voltage analysis.

DATA REQUEST

21. Please provide pre- and post-project Power Flow Diagrams for the above or any overloads (normal, n-1 or n-2) identified in the study. Please provide electronic copies of *.sav and *.drw, *.dyd and *.swt GE PSLF files and EPCL contingency files, if available.

DATA RESPONSE

The SIS examined the interconnection of the new generating facility, and included the supporting documentation to assess the interconnection and the impacts to IID and neighboring utilities; including power flow diagrams for each of the power flow cases and the incremental or “difference” power flow diagrams for the post-Project cases. Since no credible overloads were noted, no additional power flow maps were provided.

IID believes that the electronic copies of the *.sav, *.drw, *.dyd, and *.swt are not required by Staff to fully complete their assessment of the El Centro Repower Project. IID believes that the SIS is complete and meets the requirements for interconnection to the IID transmission system; and that there are positive benefits for the existing transmission system to serve the continued load growth in the northern portion of the IID service territory. If Staff has other power flow or transient stability contingencies, or any other analysis that they believe are needed, IID would continue to perform the analysis as required.