Re Reconductor Section of GLD-01, Volume III, Distribution – Appendix 4, page 2 ($80,000)

Q. Please identify and discuss the "various benefits" under which it would be "beneficial to offload either feeder onto the other."

A. The following are situations under which it would be beneficial to offload some of the load from the Glendale-01 feeder to the Hardwoods-04 feeder, or vice versa:

(1) The 2002 peak load on the Hardwoods 12.5 kV transformers was 98% of rated transformer capacity. There is additional capacity on the Glendale transformers. Following the proposed reconductoring of the Glendale feeder, it will be possible to transfer a portion of the Hardwoods feeder load to Glendale-01 in 2004 to avoid overloading the Hardwoods 12.5 kV transformers.

(2) The reconductoring project will permit load to be transferred from the Hardwoods to the Glendale feeder if peak loads exceed forecasts, or to minimize the effects of cold load pickup following outages.

(3) During off peak conditions, the proposed reconductoring of Glendale-01 would permit load to be moved from the Glendale to the Hardwoods feeder to permit planned or emergency maintenance on each of the two transformers at Glendale Substation.

(4) The overhead portion of Glendale-01 is connected to Glendale Substation via underground cables. If these cables were to fail, the proposed reconductoring of Glendale-01 would permit a section of this feeder to be offloaded onto Hardwoods-04, thus avoiding a loss of supply to that portion of the Glendale feeder.