

Forth Addendum To 2003 Baseline RTEP Report

1. The Waugh Chapel 500/230 kV transformers are overloaded at 105% for a loss of Waugh Chapel 500/230 kV parallel transformer. The recommended solution is to install a 4th 500/230 kV transformer at Waugh Chapel by June 2008. The estimated cost is \$26.3 million.
2. The single contingency involving the loss of either one of the Chichester – Linwood 230 kV circuit results in an overload on the other Chichester – Linwood 230 kV circuit under the 2008 generation deliverability test. The recommended solution is to install SPS at Chichester 230 kV substation. The SPS will trip both Chichester – Linwood 230kV circuits for a fault on one of them. The estimated cost is \$0.10 million. This project replaces the Linwood SPS that trips the Linwood generation units for the loss of one of the Chichester – Linwood 230 kV circuits.
3. The N-2 contingency involving the loss of either two New Freedom 500/230 kV transformer results in an overload on the remaining one New Freedom 500/230 kV transformer under the 2008 N-2 test. The recommended solution is to install a 4th New Freedom 500/230 kV transformer and replace two 230 kV breakers by June 2008. The estimated cost is \$26 million. This project replaces the baseline upgrade B0131 and B0213 which replaces the de-rated New Freedom 500/230 kV transformers and installs a single phase 500/230 kV spare transformer.