

Black Hills/Colorado Electric Utility Company, LP
Non-Intermittent Resource Solicitation
Questions and Answers

Q&A Released on 5/14/09

Q051409-1. Our review of the answer provided for question Q041009-15 left some uncertainty as to the definition of “unit based” and what equipment is included in the unit based definition. Would Black Hills please confirm that the generator step-up transformers would also be limited to 100 MW? If the GSU is limited to 100 MW what assumptions should be included to size the MVA rating for 100 MW generator step-up transformer?

What is the definition of a 100 MW generator step-up transformer in terms of the associated MVA rating? Can we assume we could have 100 MW’s real power and increase the GSU size to approximately 115 MVA and can we split GSU’s of a combined cycle plant such that the total combined cycle plant capacity is larger than 100 MW’s?

A. The RFP identifies a size limit for a unit that may be proposed to 100 MW because the size of the BHCE system is relatively small and shaft risk is a real concern. The MVA rating of a generator step-up transformer depends upon the characteristics of the generator or generators connected to it and must be appropriately sized to ensure proper coordination.

If a bidder wishes to propose a project that has a net summer-rated capacity greater than 100 MW, they must include an appropriate plan to mitigate shaft risk. Refer to Section 2.2 in the RFP.