

Ken Greene

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Richland, WA October 31 – November 2, 2006

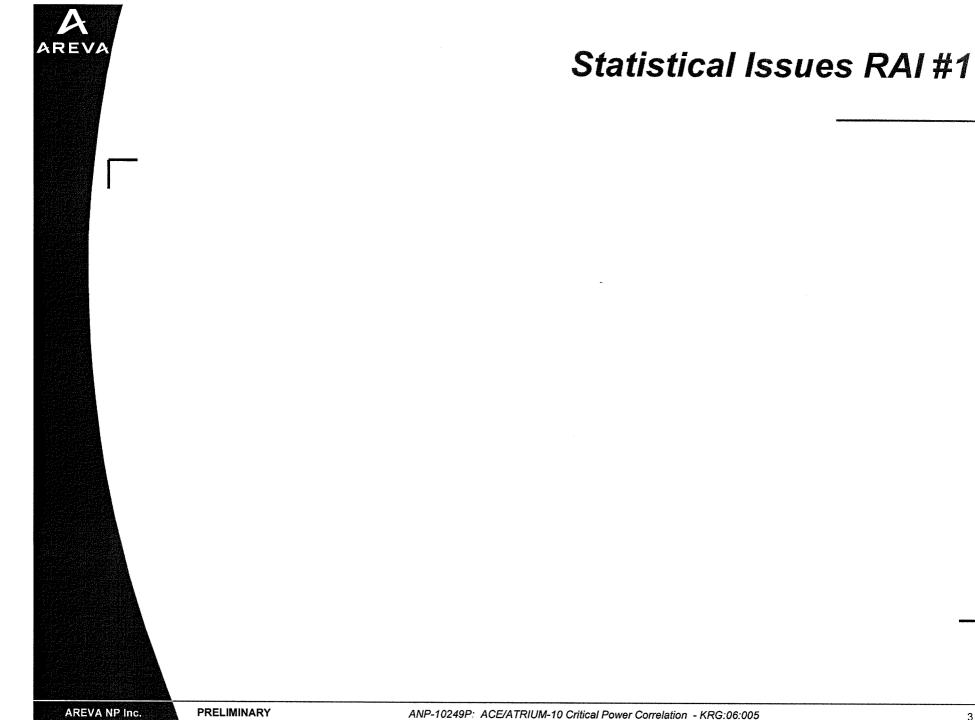
PRELIMINARY

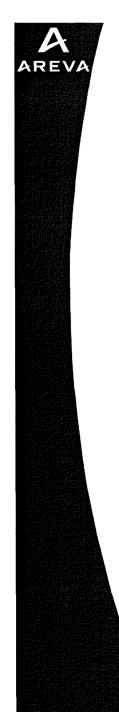
ANP-10249P: ACE/ATRIUM-10 Critical Power Correlation - KRG:06:005

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1. General topic: In this section, (Chapter 4), the statistical performance of the ACE correlation relative to the raw data is presented. However, no comparison(s) are made to those results of the SPCB-10 correlation statistics regarding overall correlation uncertainty, K-factor and additive constant values and uncertainties. I.e., Please provide a table (graph) displaying the statistical uncertainties associated with the ACE-correlation and the SPCB-10 correlation, K-factor and additive constant uncertainties.



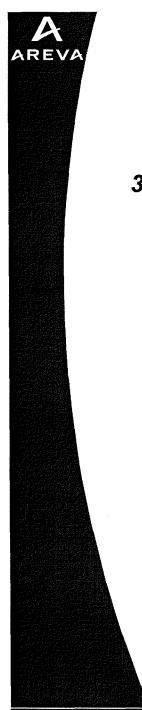


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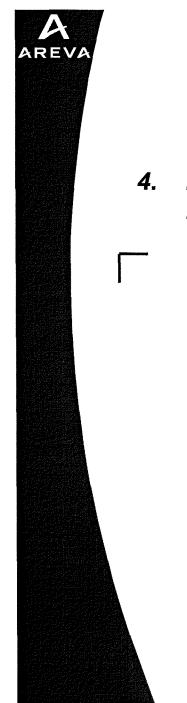
Statistical Issues RAI #2

2. The first paragraph on page 4-6, the last sentence alludes to "optimizing" the correlation. Please clarify the statement.

> "Optimizing" is used to describe the process for determination of the coefficients that are based on the experimental data contained in the defining data set.

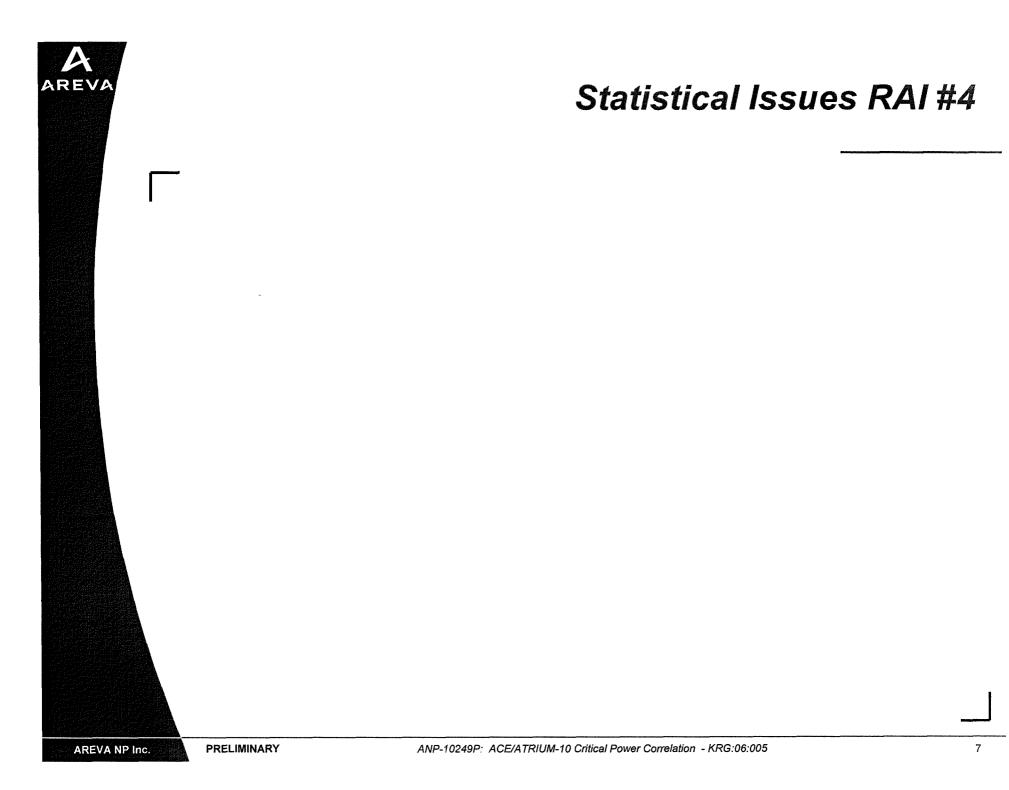


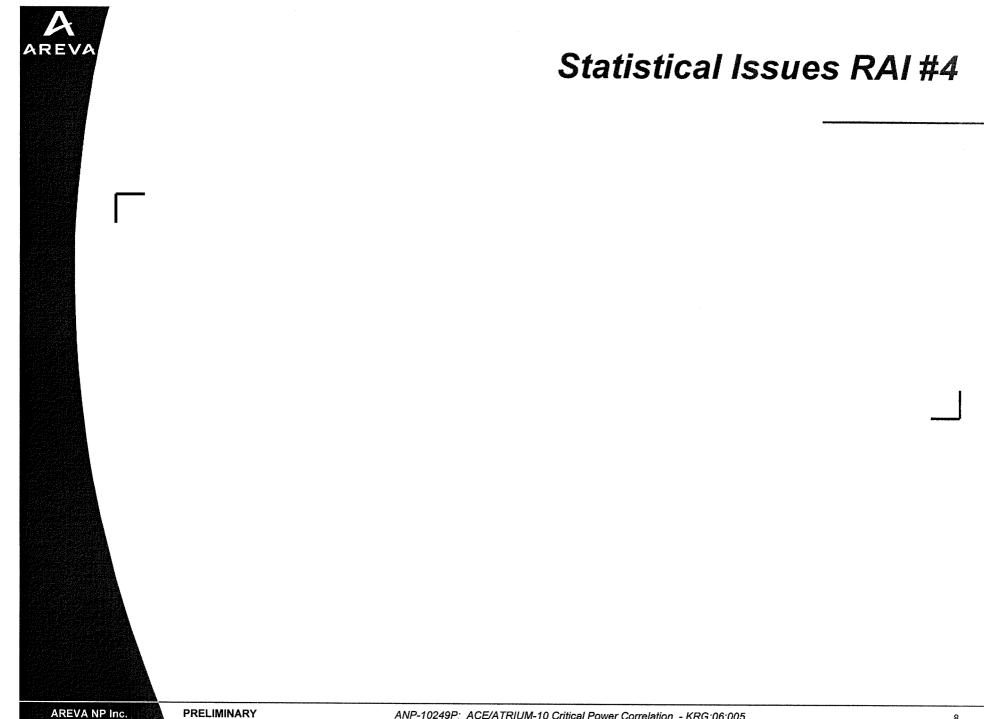
- 3. Please be prepared to this discuss and provide additional information regarding the last paragraph on page 4-6.
 - > Discuss during meeting
 - > Question to be deleted.

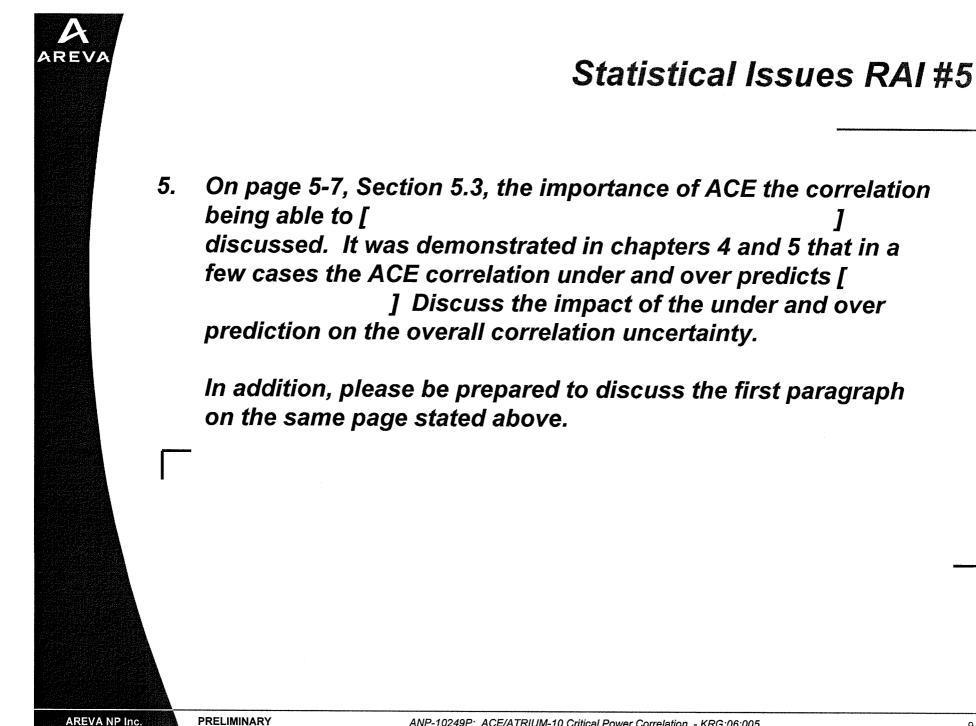


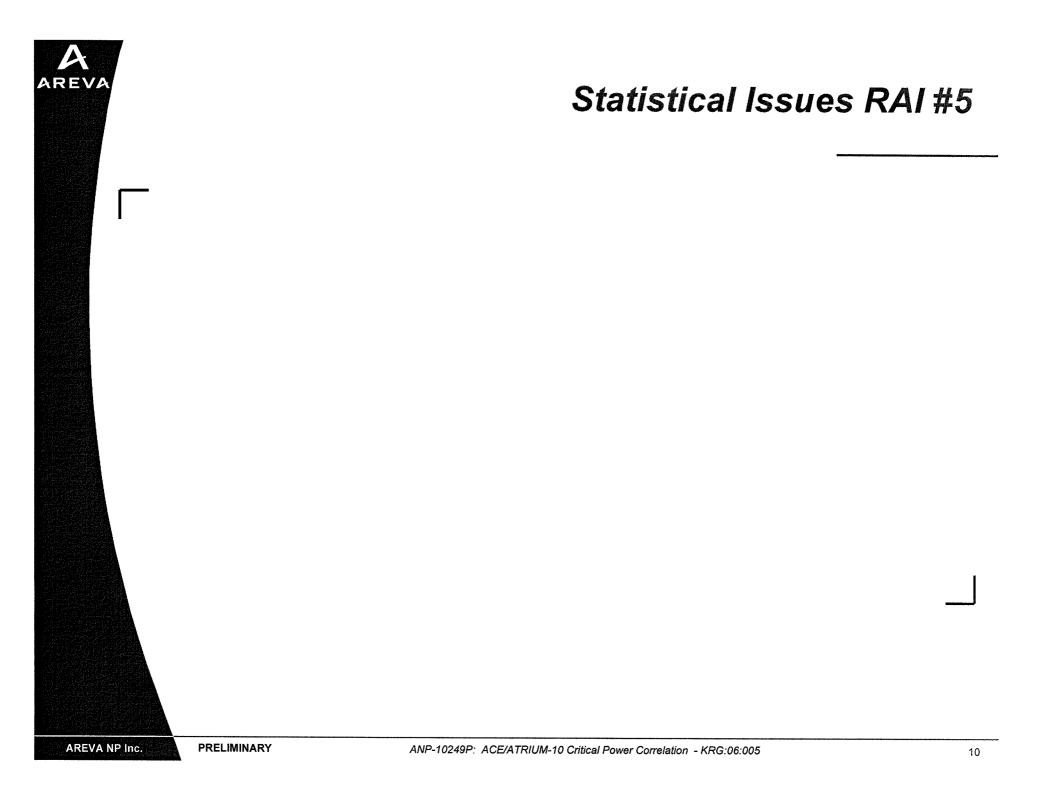
4. Please be prepared to this discuss and provide additional information regarding Figure 4.8 on page 4-8.

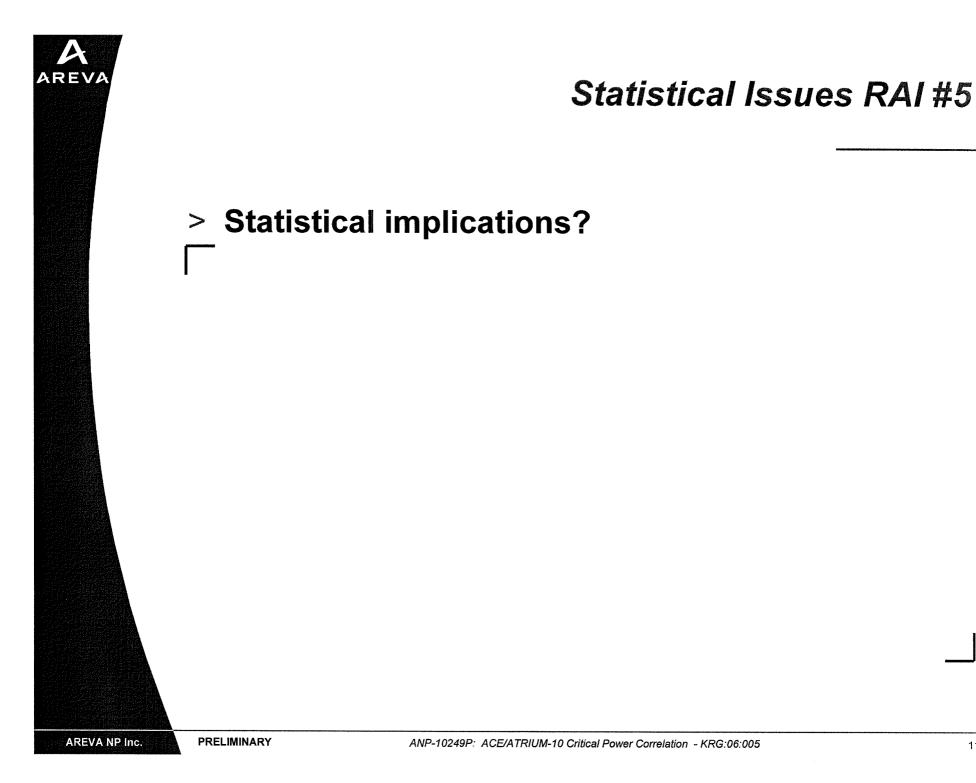
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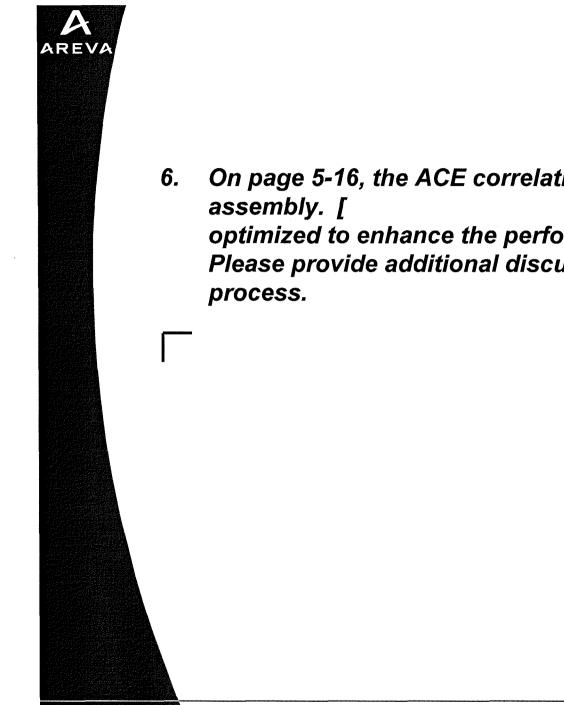












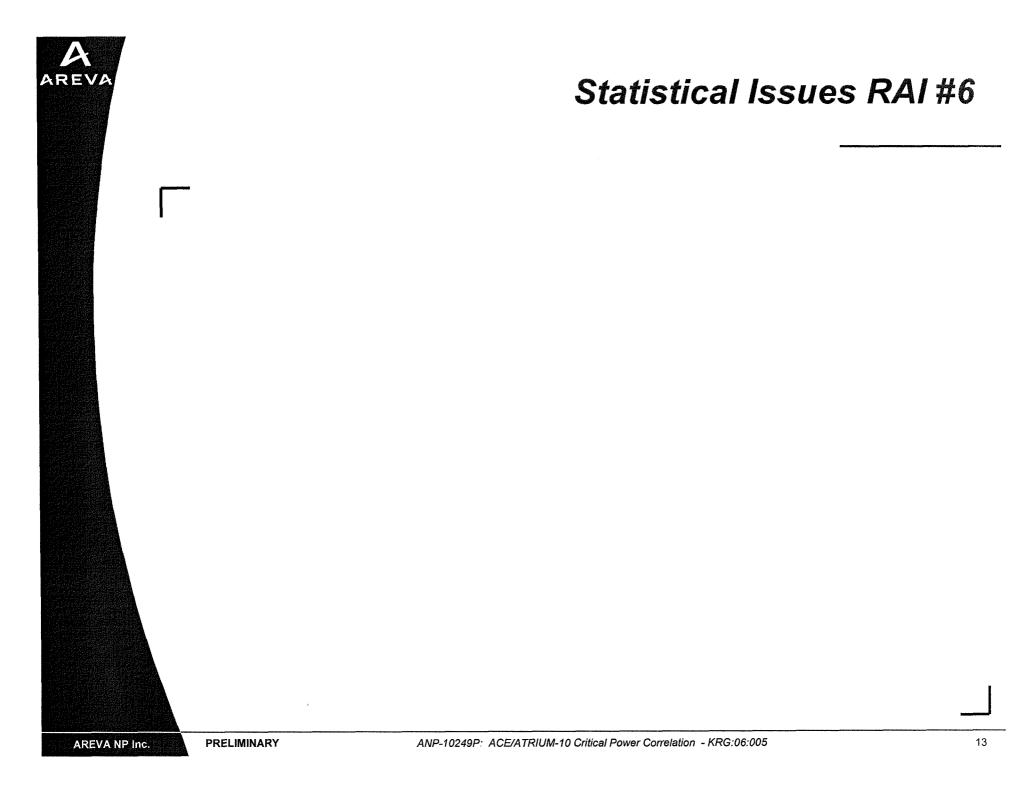
PRELIMINARY

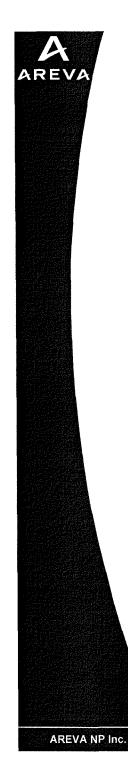
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Statistical Issues RAI #6

On page 5-16, the ACE correlation was applied to a different] had to be optimized to enhance the performance of the ACE correlation. Please provide additional discussion regarding the optimization

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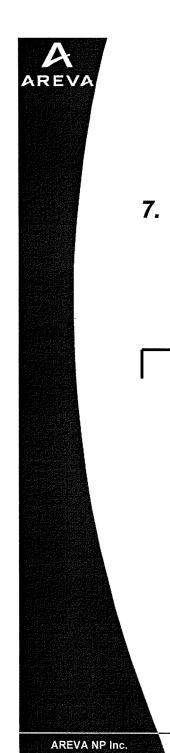




> The conclusion is that the ACE/ATRIUM-10

correlation can be applied to other designs

Statistical Issues RAI #6



PRELIMINARY

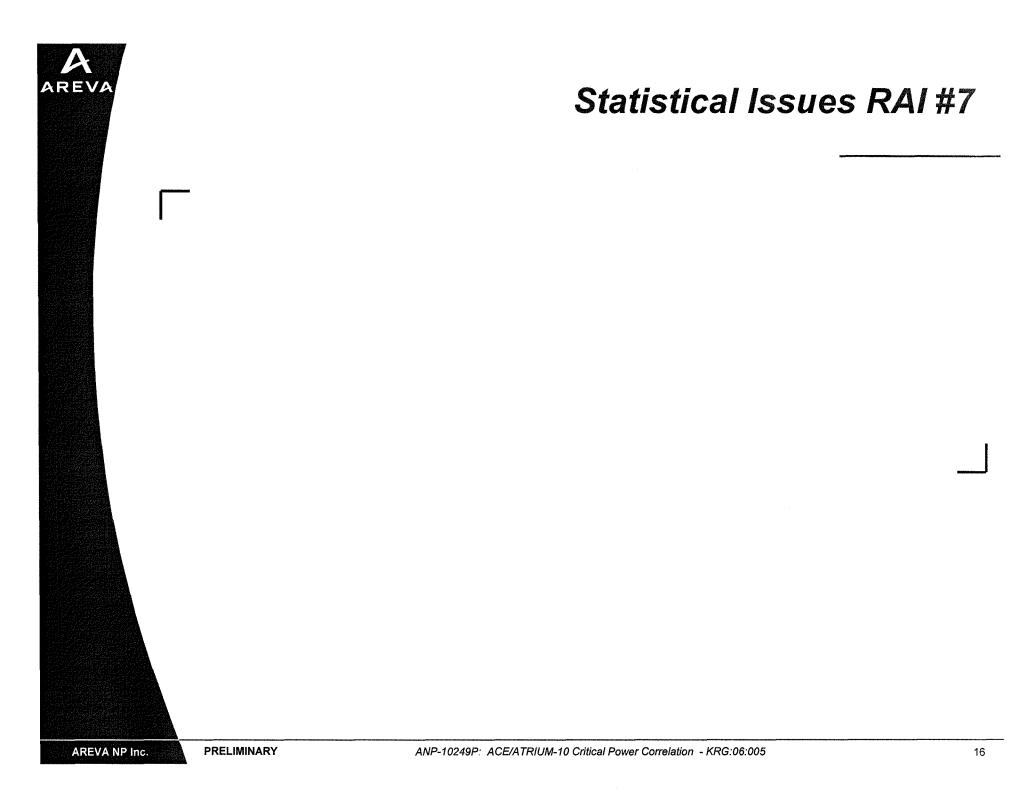
On page 5-17, the [

the defining data base did not include [

alluded to. Please be prepared to discuss the reason as to why

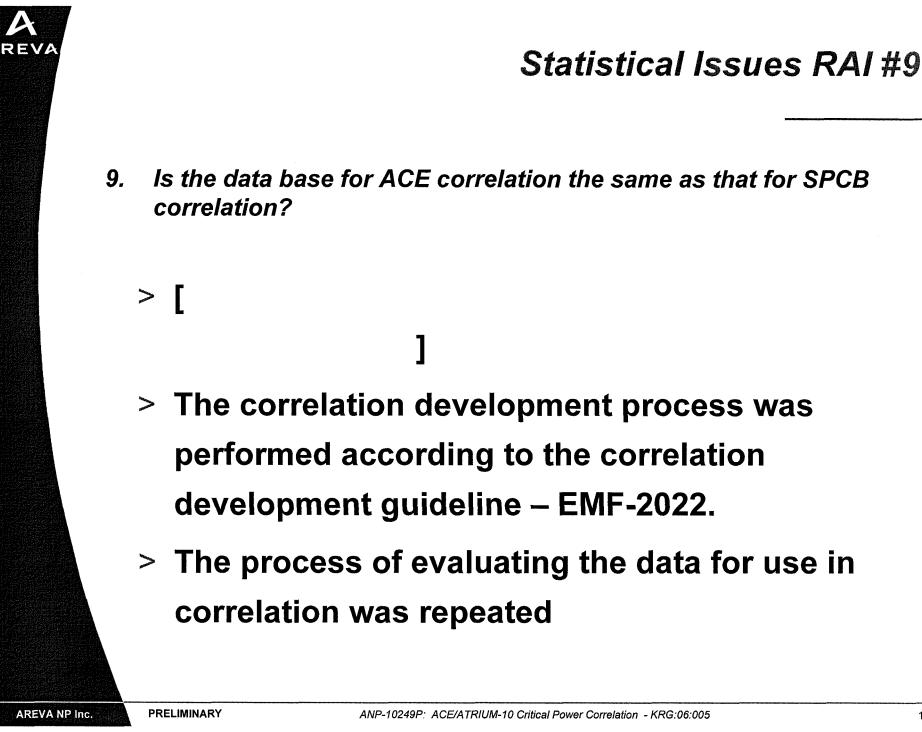
Statistical Issues RAI #7

] is





- 8. On page 5-19, the second paragraph from the bottom requires additional explanation. Please be prepared to discuss further.
 - > Clarification on the issue is required.
 - > The response will explain the paragraph, what best estimate means, and the expected behavior of the correlation to measured transient test data.





> The following data were excluded from use in defining the correlation or validating the correlation for cause:

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Statistical: RAI #9

In the response, the number of data points removed, and the physical basis for removal shall be fully described to the same level of detail as was shown in calculation notebook.

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