hydro levels in the most recent 50-year period versus the period employed by PSE?

A. No, he did not provide such evidence. In response to his testimony, I undertook this analysis. I determined that the average hydro generation for the period 1929 through 1978 was 735 aMW. The average hydro generation for the period 1949 through 1998 was 750 aMW. I performed a test for the difference in these levels by comparing the 20-year period from 1929 through 1948 to the 20-year period from 1979 to 1998. The difference in the average hydro generation in these two 20-year periods (723 aMW in ~~1978~~1979-1998 versus 684 aMW in 1929-1948) was not statistically significant. The test I performed recognizes that the period from 1949 through 1978 is present in both 50-year periods and must be removed in order to obtain a correct equality of means. Mr. Norwood is not correct that there is any "significant" difference in these estimates using one 50-year period versus another.

Q. Did Mr. Norwood examine whether the recent 20-year period of data from 1979 through 1998 was significantly different from the 50-year period from 1929 through 1978?

A. No. Had Mr. Norwood performed such a test he would have found that the difference of 735 aMW (1929-1978) and 723 aMW (1979-1998) was not significantly different. More generally there is simply no evidence that the 70-year hydro data is anything but a normally distributed random process so that