Q. Further to NP-74 NLH: The computer system installed in 1995 to assist operators to optimize unit performance would be expected to provide continued performance improvements on a go forward basis as the operators gain experience with the system. The higher conversion rates realized in 2001 and 2002 seem to reflect a continued improvement in conversion factors. Why has the trend for the past several years as opposed to a more current period been used to arrive at a 2004 conversion factor?

Α.

The conversion factor is dependent on a number of factors in addition to the use of the computer system used by the operators. A number of these are listed in IC-317 NLH. Two of the items mentioned in IC-317 NLH are unit load level and unit fouling. Both of these are related to the manner in which the units are dispatched by System Operations. System Operations dispatches the units to obtain best plant efficiency with due consideration to reservoir storage levels. Varying storage levels result in varying unit and plant loading and thereby the plant conversion factor. Please refer to Production Evidence Schedule V where the monthly average unit load and monthly average conversion factors are presented. This illustrates that plant conversion factor varies with average unit loading.

The more recent years (2001 and 2002) have more months with the average unit loading in the upper range (130 MW) and the previous years (1999 and 2000) have more months with loading in the lower range (73 MW average). In order to predict the average conversion factor over the range of system hydraulic generation that may occur Hydro recommends using the average conversion factor over an extended period of time to capture some historic variability. To use only 2001 and 2002 data would skew the results towards

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1	lower hydraulic production.	In the same manner if onl	y 1999 and 2000 data
2	was used the results would I	be skewed towards higher	r hydraulic production.

The period from 1996 to 2002 provides a balance of a variety of conditions.