



Structure Engineering Notes

03/21/00

Water/Copper Temperatures

Nancy distributed and discussed a one page summary of both measurements and calculations on water and copper temperatures in the NLCTA and NLC. The major difference between these calculations and the earlier work by Gordon Bowden is the assumption of how much of the circumference of the water tubes participates in the cooling. Gordon used one diameter; Nancy uses the full circumference.

Nancy will expand her footnotes and annotations to add more detail, will add another column of power absorbed in the structure when the beam is on (so that the amount of compensation can be planned for), and add a line or lines showing the requirements and calculations for the linear velocity of the water.

Minutes by John Cornuelle