2.16 Media Wear

Write the 2F signal on every track of a new disk, and read the output level of all of the tracks and record. After 3,000,000 read passes on track 35, the output level of all tracks should be 80% minimum of the originally measured value of each track.

2.17 Disk Motor

The disk motor speed shall be controlled by a PWM signal from the host computer. The specifications of the disk motor are as follows:

2.17.1 Speed Control Range

- a. Speed at 9.4% duty cycle of PWM with the diskette in place and head at TKO (measured at 25 +/- 3 degrees C) shall be:
 305 < V < 380rpm</p>
- b. Speed at 91% duty cycle of PWM with diskette in place and head at TK79 (measured at 25 +/- 3 degrees C) shall be:

c. Over the full environmental range as specified in Section 2.5, and with a diskette in place the following speeds must be guaranteed including all jitter and drift effects:

with the head positioned at TKO and the PWM set to 9.4%, the motor speed must be less than 390 rpm.

With the head positioned at TK79 and the PWM set to 91%, the motor speed must be greater than 605 rpm.

2.17.2 Linearity

Non-linearity of the disk motor speed shall be less than 2.0%.

Linearity is defined as,

Linearity =
$$\begin{vmatrix} Vx - Vr \\ Vr \end{vmatrix}$$
 x 100%

where :

$$Vr = \frac{(Va - Vb)}{81.6}$$
 (x - 9.4) + Vb

Vx : Measured speed at a PWM duty cycle of x %. Va : Measured speed at a PWM duty cycle of 91%. Vb : Measured speed at a PWM duty cycle of 9.4%.

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SCALE:

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