

SR H AVERAGE ERROR BPM'S (mm)

SDEV: 0.008

AVG: 0.000

MAX: -0.125

0.500 /Div

Center:

0.000



Horizontal Difference Orbit

SR V AVERAGE ERROR BPM'S (mm)

SDEV: 0.119

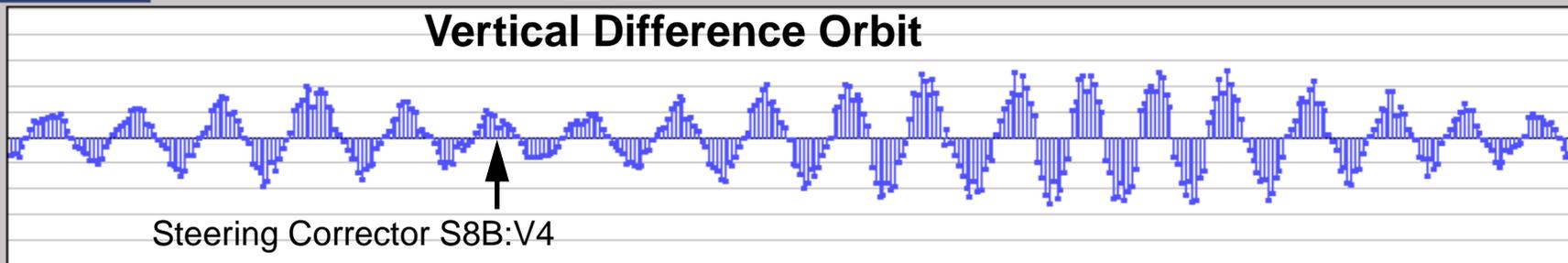
AVG: 0.002

MAX: -0.260

0.100 /Div

Center:

0.000



Vertical Difference Orbit

Steering Corrector S8B:V4

0.100 /Div

Center:

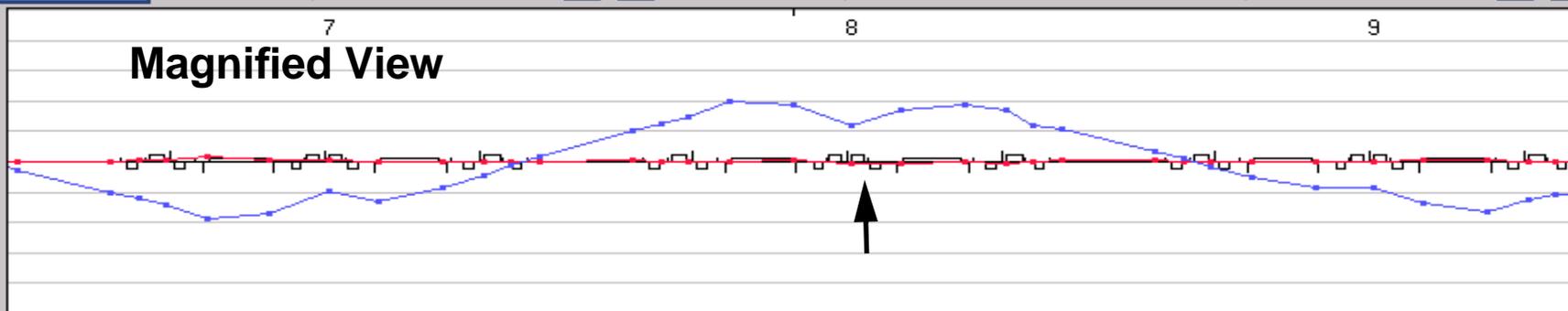
0.000

Interval:

3.000

Sector:

8



Magnified View

The difference orbit shown resulted from subtracting the orbit after changing corrector S8B:V4 by + 2 Amps from the orbit taken just before making this change

Given

A) The vertical beta function at the location of corrector S8B:V4 is xxxxx meters

B) The machine energy is 7.00 GeV

1) What is the integer part of the vertical tune?

2) Is the fractional part of the tune less than 0.5 or greater than 0.5 ?

3) What is the approximate corrector calibration in

a) Gauss-meters / Amp ?

b) milliradians / Amp

c) The full-scale range of the steering correctors is +- 150 Amps. How many milliradians is this?

Note 1 Tesla = 10 kGauss = 10,000 Gauss