

January 1, 2014

161 cm up from
catwalk to base
CNAV antenna

46 to outside
aft rail
41 to inside
aft rail

161 cm up from deck
290.5 cm port

fore/aft

$$X = (.46 \text{ meters forward}) - (.215 \text{ meters})$$

back of aft rail to CNAV center BM to back of rail (BM is also forward of back of rail)

$$= 0.245 \text{ meters forward of BM}$$

Port/
Starboard

$$Y = 290.5 \text{ cm} \Rightarrow 2.91 \text{ meters port of BM}$$

3.12 old value
 $\frac{2.91}{.21}$

$$\Delta Y = .21 \text{ meters (21 centimeters)}$$

difference from old mount

$$Z = (1.61 \text{ meters up}) - (1.205 \text{ meters}) = 0.405 \text{ meters up}$$

CNAV up from catwalk deck BM up from catwalk deck

add 0.065 meters (average phase center)

$$Z = 0.47 \text{ meters up from BM}$$