

$$ETM_y \text{ coord: } 3999455.7 \text{ mm} \quad [\text{From E1400205}]$$

$$ACB \text{ PDs } \approx @ \text{ join of baffle, } \approx 433.1 \text{ mm from ETM}_y \quad [\text{From D1200354 + D1002277}]$$

$$SR3_y = -19616.1 \text{ mm} \quad [\text{From E1400205}]$$

$$\Delta y_{SR3 \rightarrow ACB} = 19616.1 + (3999455.7 - 433.1) \\ \approx 4018638.7 \text{ mm}$$

PD1 w.r.t ACB center

$$\Delta z = 161.0 \text{ mm}$$

$$\Delta x = -149.6 \text{ mm}$$

PD4 w.r.t. ACB center

$$\Delta z = -137.4 \text{ mm}$$

$$\Delta x = 149.6 \text{ mm}$$

} From
D1200329

Assume aligned SR3 points to ACB center

PD1

$$\text{Pitch} = \tan\left(\frac{161}{4018638.7}\right) \\ = \underline{40.1 \text{ rad up}}$$

$$\text{Yaw} = \tan\left(\frac{149.6}{4018638.7}\right) \\ = \underline{37.2 \text{ rad CCW}}$$

PD4

$$\text{Pitch} = \tan\left(\frac{137.4}{4018638.7}\right) \\ = \underline{34.2 \text{ rad down}}$$

$$\text{Yaw} = \tan\left(\frac{149.6}{4018638.7}\right) \\ = \underline{37.2 \text{ rad CW}}$$