

State	Next state	$P_{k,\text{set}}^{\text{SE}}$	$\dot{\chi}_{\text{set}}$	Condition
Initial	TURN_LEFT	–	$\dot{\chi}_{\text{turn}}$	Always
FLY_LEFT	TURN_LEFT	–	$\dot{\chi}_{\text{turn}}$	$\phi > \phi_{\text{sw}}$
TURN_LEFT	FLY_RIGHT	P_3	from PID	$\chi > 270^\circ - \delta_\chi$
FLY_RIGHT	TURN_RIGHT	–	$-\dot{\chi}_{\text{turn}}$	$\phi < -\phi_{\text{sw}}$
TURN_RIGHT	FLY_LEFT	P_4	from PID	$\chi < 90^\circ + \delta_\chi$