flight pahse C	Design	M	Modes		ωd <i>(F1)</i>	T2	τ	Design	Mo	odes	7	ωd(F1)	T2	τ
lter 1	With Weight	long.		0.617551				Without	long.	nugoid (3) sp (1)				
		lateral	spiral (4) roll (1) dutch (2)	_	0.728307	7.22664	0.0360394	Woight	lateral	spiral (4) roll (1) dutch (2)	0.135635	0.727863	6.47386	0.032238
Iter 2	With Weight	long.	phugoid (3)	0.0188645 0.378027					long.	nugoid (3) sp (1)	0.0179791 0.430617			
		lateral	spiral (4) roll (1) dutch (2)		0.650641	6.14956	0.0669459	Without Weight	lateral	spiral (4) roll (1) dutch (2)	0.0919635	0.655326	5.36392	0.0575566
Iter 3	With Weight	long.	phugoid (3) sp (1)	0.0213318 0.9803062				Without	long.		0.0195438 0.960312			
		lateral	spiral (4) roll (1) dutch (2)	_	0.678907	4.28352	0.0272726	Weight	lateral	spiral (4) roll (1) dutch (2)	0.214003	0.675472	5.27639	0.027439
lter 4	With Weight	long.	phugoid (3)											
		lateral	spiral (4) roll (1) dutch (2)	)										
NOTES  Notes was inertial outracted from solid works (fusion is wet the same axes)					LVL 1 (Best)		Damping r	atio						
Make sure <u>inertia</u> extracted from solidworks/fusion is wrt the same axes corresponding to those in <u>xflr5</u>						LVL 2	Damped natural frequency () or F1							
assumed dutch maximum wd=.6							LVL 3 Time to double (Least) (t2) Dangero (for unstable sy							
							us Too m stabili	uch	Time const					