

NASA Wallops Flight Facility

P-3 Orion Rack Tip Over Analysis Worksheet

Mission:	IMFACTS - 2022		
Experimenter:	David Delene		
Rack Location: FS		Left	
		Right	

Date:	15 Sept. 2022
Rack Type:	DOUBLE RACK
Rack S/N:	

RIGHT SIDE BAY			
ITEM	Weight (LB)	MOMENT ARM (IN)**	MOMENT (IN * LBS)
Uninterrupted Power Source Box	15.6	10.0	156.0
Hawkeye Computer	36.8	17.0	625.6
Spec Computer	21.6	23.0	496.8
Tray for HVPS 3A & 3B Comptuers	13.4	26.5	355.1
Keyboard Tray	8.0	29.5	236.0
KVM Switch	5.8	32.5	188.5
Retractable Monitor	26.0	35.0	910.0
Mounted Monitor	7.2	51.5	370.8
			0.0
			0.0
TOTALS:	134 LB	TOTALS:	3339 IN-LB
	Within Limit		Within Limit
	Limit is 490 LBS		Limit is 13720 IN-LBS

LEFT SIDE BAY			
ITEM	Weight (LB)	MOMENT ARM (IN)**	MOMENT (IN * LBS)
Uninterrupted Power Source	15.6	17.5	273.0
M300 Data Acquisition System	36.0	23.0	828.0
Analog to Digital Board	8.5	28.0	238.0
Retractable Monitor / KVM	28.0	31.0	868.0
2D-S Computer / King Control Module	10.2	47.0	479.4
			0.0
			0.0
TOTALS:	98 LB	TOTALS:	2686 IN-LB
	Within Limit		Within Limit
	Limit is 490 LBS		Limit is 13720 IN-LBS

** Measurements entered in this form are taken from the moment arm reference shown in the diagram to the right.

*** Include any items mounted on top of rack within the column for the respective bay that is it mounted over

