

Customer Requirements							
Requirements	Primary Customer	Metrics & Targets	Metric	Target	Target Basis	Verification	
Performance	LN2 Compatibility	PSAS	Must be able to safely pump liquid nitrogen	N/A	No damage	Customer Defined	Cold flow testing
	Fluid Separation	PSAS	Must restrict fluid mixing even in the event of failure	N/A	No fluid mixing	Customer Defined	Prototyping
Installation	Manpower to test	PSAS	Manpower	# People	4 People	Customer Defined	Cold flow testing
	Time to replace spare parts	PSAS	Time	Mins	2 Hours	Team Defined	Timed after prototype built
Safety	LOX Safety	PSAS	Design with all chemical safety requirements via B11 Training	N/A	No LOX hazards	Customer Defined	Cold flow testing
	Electrical Safety	PSAS	Ensure all controls systems are safe from fluids, etc.	N/A	No electrical hazards	Customer Defined	Prototyping
Maintenance	Minimal upkeep between test fires	PSAS	No overhaul to be required between tests	Hours of Work Rqr'd	< 4 hours	Group Defined	Testing
	Replaceable Parts	PSAS	Readily Available Parts for replacement bearings, rings etc.	N/A	Off the Shelf Parts	Group Decision	Budget
Cost	Minimal production cost	PSAS	Cost	Dollars	< \$9,500.00	Customer Defined	Budget