Arifact ID	Artifact Title																			
RM-001	Requirements Matrix																			
Revision:	Date:										-									
1.8	8 10/2/2019	Units	2		z	z	c	F	۶	F			ш					Definitions:		
Team:			Hz	%	Hz	zн	uim	шш	шш	ww	%	%	1/F	s	%	s			nes that an object is housed locally on the radar unit. The object is	
15												ne.						processing.	o the unit. Or in the case of software, it is run without any external	
																		Trigger: Refers to an event which is intended to cause an LED to flash. These include		
Prepared By: Nick Checked By: Garret			te of LLA and GPGGA.	Percent of time in FOV (Exduding wrap time and aqcuisition time)							ented by LEDs	Percent increase in target acquisition time from minimum acquisition time.			Offset measured at drone caused by camera mount tolerances			system health status indicators, successful data transmissions, and error indicators.  System: This refers to the entirety of our deliverable, i.e. the onboard computer, the positioner, the camera mount, and the software.		
																e)				
							эсе									power failure)				
				me ar			to train a user how to use the user interface									powe				
				ap tii			ıseri	.								ding				
				Jw Br	ate		the u	_	_		pres	sitior			d by	inclu				
			Aan	dudir	System health message output rate	e e	o nse	engt	width	heigh	ggers	acqui	70		canse	Initialization time after reboot (including				
			Input acceptance rate of LLA and GPGGA	of time in FOV (Exc	no as	Gimbal pointing update rate	ow to	computer hardware length	Total computer hardware width	Total computer hardware height	Percent of false/missed triggers presented by LEDs	get a	50arc	oner	one (	rreb				
					ssag	pda	er ho					in tar	e on	ositic	at dr	afte				
					h me	ting t	a us					ase	qop	of pi	red	time				
			cept		realt	ooint	train					centincre	Processing is done onboard	time	easr	tion				
			ut ac	cent	tem	l lequ	e to	al co						Settling time of positioner	set m	ializa				
				Per	Sys	Gin	Time	Total	Tot	Tot	Per		_		_				Market Ratings	
	Market Requirements			2	m	4	2	9	7	∞	6	10	11	13	14	15		Rating	Artifact ID	
System computer communicates through Ethernet		Х		Х			-													
System tracks in-flight vehicle			Х		Х						Х		Х			-	-			
System provides frequent status updates  User interface is intuitive and requires minimal training		_		-	Х		Х				Х						-	-		
Onboard computer fits in existing housing		+	1				^	Х	Х	Х			Х					1		
Computer stores previously configured settings								^	^	^		Х	X			х		1		
Camera can be mounted to antenna mount			1		1	1		1					^		Х	^		1		
Carriera Call Di	optional	)												٨			<del> </del>	<u>I</u>		
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## | Lower | Lower | Acceptable | Lower | X X X 10 0 N/A 0.1 10 4/ Upper Acceptable Limit N/A N/A N/A 30 6.5 1.2 N/A 0.5 20 09 Predicted

## Revision History

Rev.	Date.	Ву	Approval	Description	ECO
1.0				Initial release	
1.1	9/11/2019	Nick		Added 5 additional market requirements	
1.2	9/13/2019	Joe	Garret	Added additional market specifications	
1.3	9/17/2019	Garret	Joe	Update After Face to Face With Mark and Daniel	
1.4	9/18/2019	Mark	Daniel Gunyan	Reviewed and edited by IMSAR	
1.5	9/24/2019	Garret	Nick	Updated based on feedback from initial TODO submission	
1.6	9/26/2019	Nick	Autumn	Revised based on feedback from design review	
1.7	9/30/2019	Daniel	Joe	Finished up final values and wording	
1.8	10/2/2019	Nick	Garret	Fixed typos, reworded performance measure #10	