

Summary of Extended Mission Timeline

Created by John K Ziemer, last modified by Colleen M Marrese-Reading on Jul 02, 2017

Week Number	DOYs	Mon	Tues	Wed	Thur	Fri	Sat	Sun	Initial Exp Plan Review	Final Exp Plan Review	Final Activity Timeline	POR/ File Deliv Dates	
(Sunday Start Date)					DRS Working Meetings	DOR / POR Files Due			Draft Activity Timeline & Sequence Design		Sequence V&V Review		
WEEK A (DRS on Jan 14-15 during SKM)	009 - 015	ESA Operations						SKM Run Thruster 1		Jan 3	Jan 4	Jan 5	No POR / Jan need
WEEK B Mar 13-19	072 - 078	ESA Operations		DRS FSW 4.4 Upload	Reserve for FSW and Sequence Upload	WEEK C Timeline Uploaded	SKM Run Thruster 1		Feb 9	Feb 16	Feb 23	No POR / Feb (if need	
WEEK C Mar 20-26	079 - 085	EM1 - Characterize Thruster 1: Performance, Delay, Bubbles, and Improvements			EM5 - Cathode Operation	EM7 - Demonstrate Wider Thruster Operating Range Handover to DRS control during pass	Mode transition to DFLF (Demo transition)	Transition back to Zero-G	Feb 16	Feb 23	Mar 2	Mar 3 Mar 7	
WEEK D Mar 27 - Apr 2	086 - 092	EM2 - Capacitive Actuation Calibration			EM3 - Improved Thrust Command Algorithm with Improved Precision EM4 - Faster Response Time		Transition to Zero-G Low Force for EM8		Feb 23	Mar 2	Mar 9	Mar 1 Mar 1	
WEEK E Apr 3-9	093 - 099	EM8 - Measure Thruster Performance in High Resolution		EM14 - Measure Cold Gas Thruster Performance in High Resolution EM6 - Improved Thruster Standby Handback control to DFACS	Decommissioning Maneuver Run Thruster 1 Mid-day start			Mar 2	Mar 9	Mar 16	Mar 1 Mar 2		
WEEK F April 10-16	100 - 106	Decommissioning Maneuver Continue to run Thruster 1 FSW Update to Flash Slot 2 Decommissioning Maneuver ends DOY 101 19:00		DRS Operations Resume at 102T16:00 Transition to Zero-G and DFLF with TM2 in HF Handback control to DFACS -TM out of range from injection	Attempted handover failed because of cold gas thruster drift in crutch mode. DFACS back in control.			Mar 9	Mar 16	Mar 23	Mar 2 Mar 2		
WEEK G April 17-23	107 - 113	DFACS in control. Thruster 1 priming	Handover to DRS Transition to Zero-G and DFLF with TM2 in HF	Step up to 18-DOF	EM9 / EM10 Noise Run: Long duration in 18DOF			Mar 16	Mar 23	Mar 30	Mar 3 Apr 4		
WEEK H April 24-30	114 - 120	EM9/EM10 Thruster model improvement characterizations	EM15 - Thruster Performance Model Validation Using Test Mass Injections	Rerun EM8 signal with thruster averaging filter off	EM13 - Inject Colloid Thruster Signals with DFACS in Control	Rerun EM1 - Characterize Thruster 1: Performance, Delay, Bubbles, and Improvements	EM1(con't) and EM7 (Higher thruster range - up to 60µN)	Last Day of DRS Operations (TBC) Handback during pass by 08:00 and Thruster Safe Shutdown	Mar 23	Mar 30	Apr 6	Apr 7 Apr 1	