



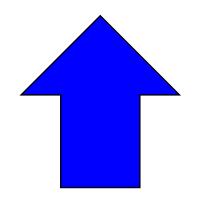
"Getting More" Out of the MS Project IMS







Prepared and Presented by: William (Bill) Paradis



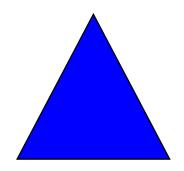


Agenda

- Before we Go Things to know
- Master & Summary Schedules
- Summary Critical Path Charts
- Key Milestones & Review Listings
- Schedules "To-Go"
- "Road To" Schedules
- Helping the Project with Custom Charts Documentation Status Verification Tracking
- Inserting Graphics onto PowerPoint Slides
- Questions & Comments



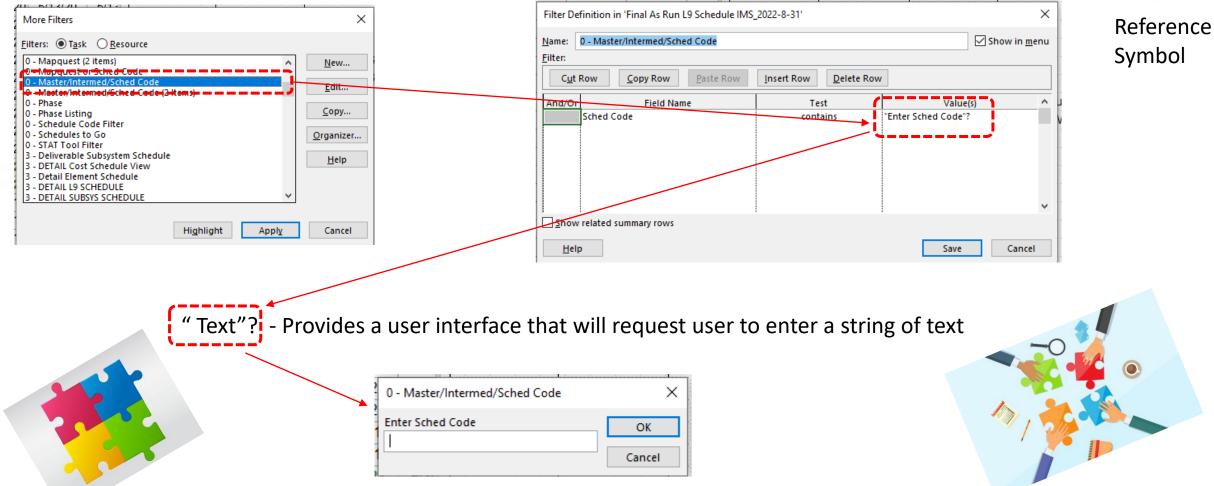




Before We Go - MS Project Filter

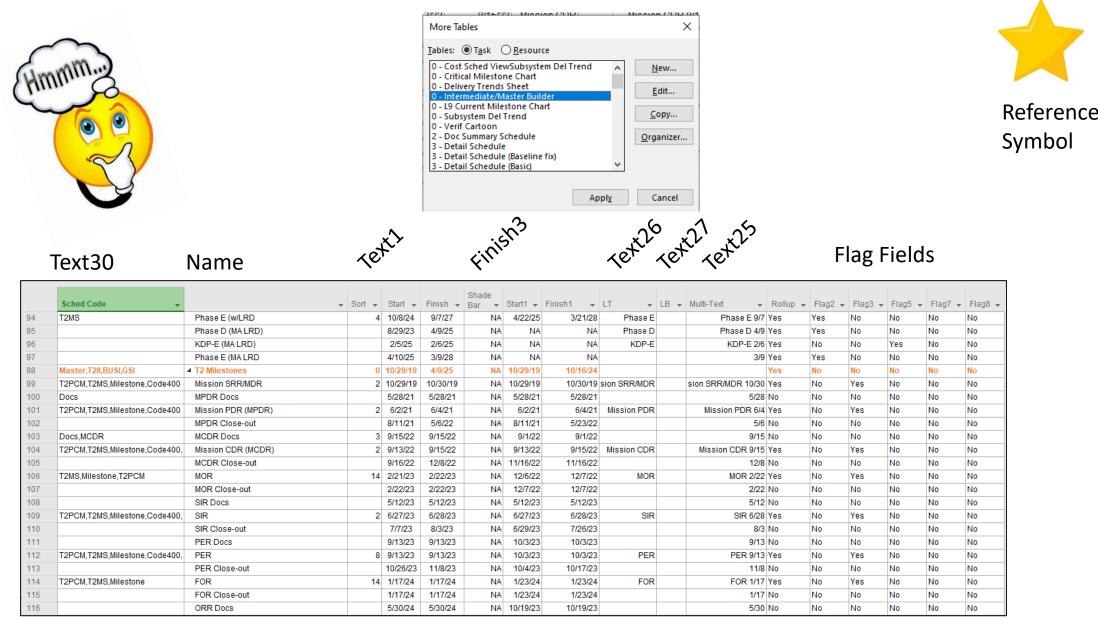
Almost all products shown today comes from Codes Stored in the "Text30" (Sched Code) Field



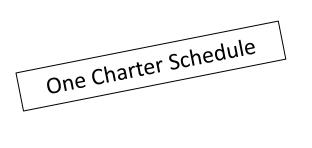


Before We Go - MS Project Tables

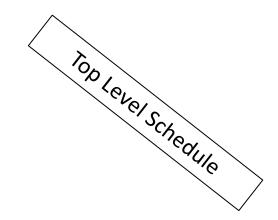
Almost All products demonstrated today uses the table below to help the design process.









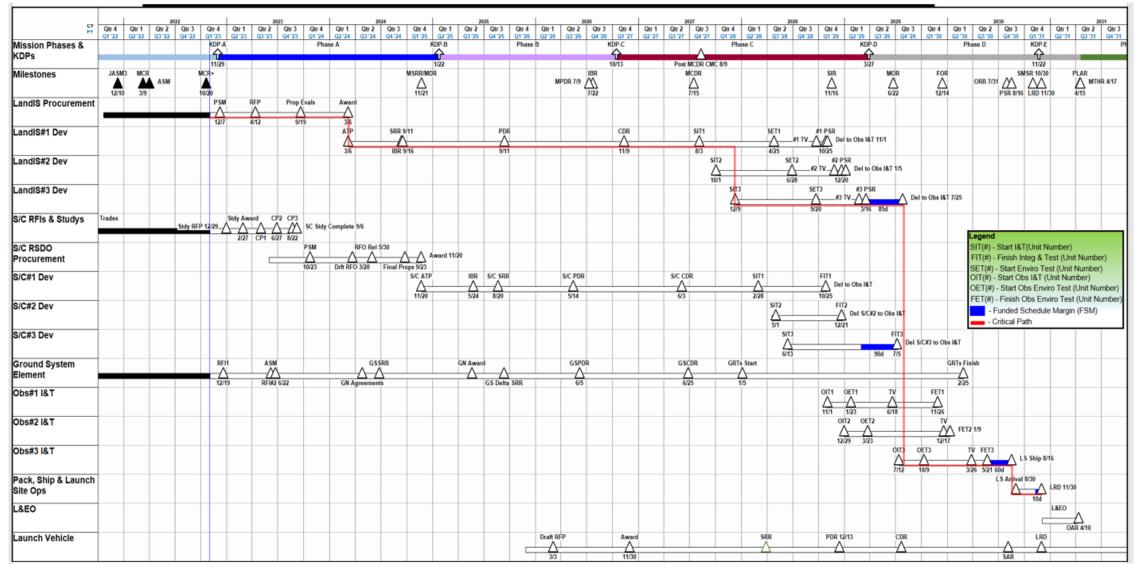


Master & Summary Schedules

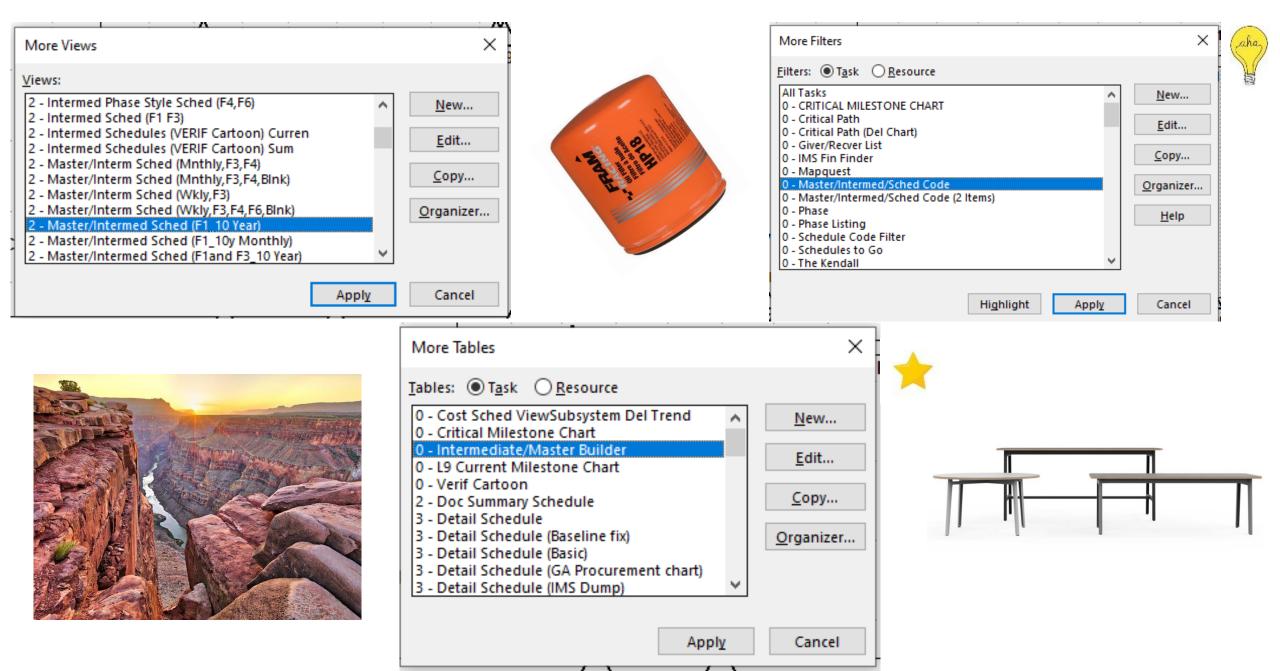


Master & Summary Schedules

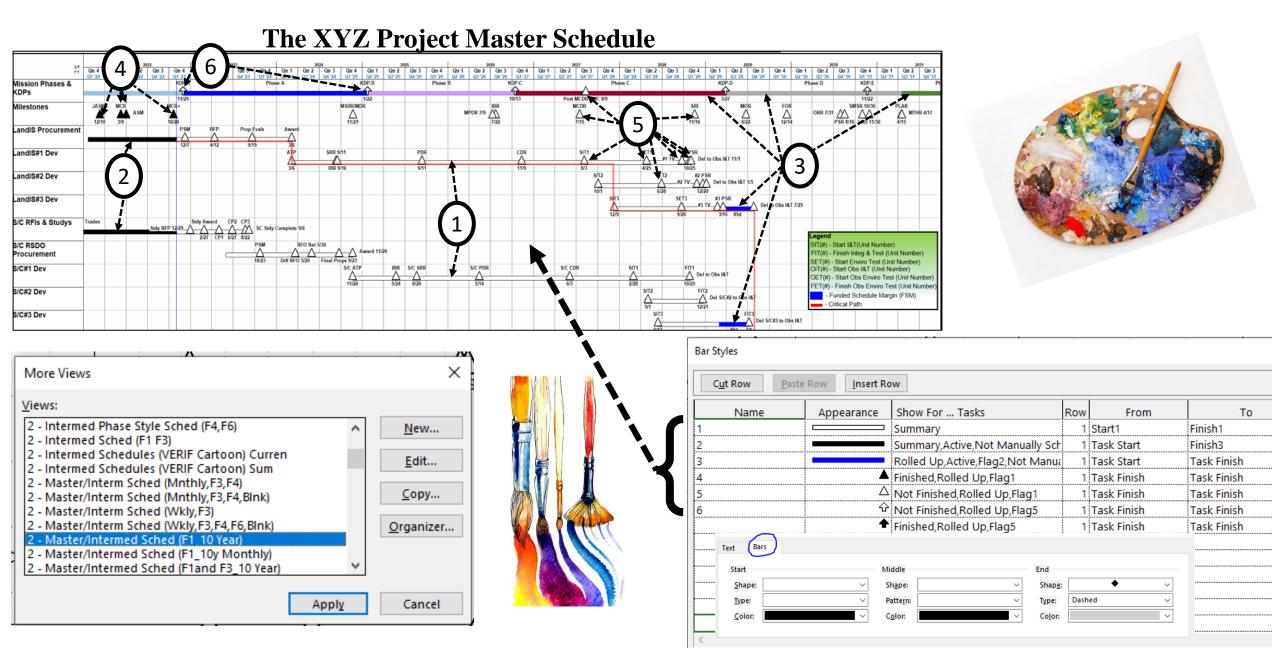
The XYZ Project Master Schedule



Master & Summary Schedules

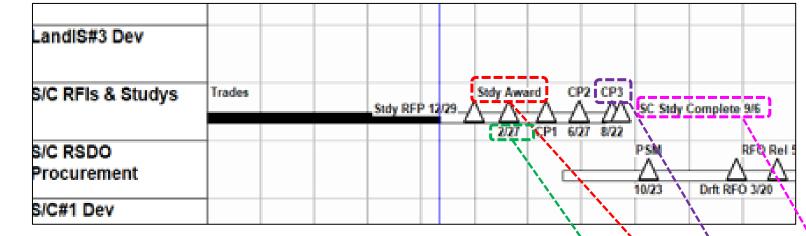


Master & Summary Schedules View/Bar Styles - Bars



Master & Summary Schedules View/Bar Styles - Text

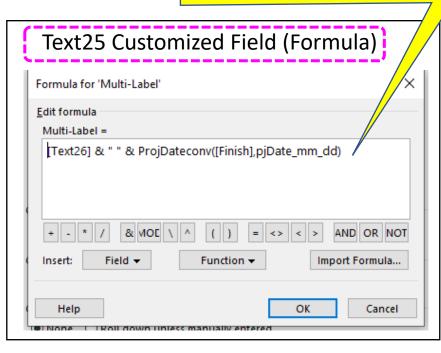
If it says Libby's, Libby's, Libby's on the label, label, label...





Text26 Text 27 Text25

Good Information to know



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6/27/23	6/27/23	CP2	CP2	CP2 6/27
6/28/23	8/21/23	· · · · · ·	·	8/21
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The Master Schedule - Filter

· martine	FILE	TASK	Sample to Use_Master Schedule.mpp - Project Professional RESOURCE REPORT PROJECT VIEW New Tab (GANTT CHA			\propto	Paradis, William G. (C	? - 戸 × SFC-490.0)[InuTeq, LLC] - 日 ×
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	×	✓ Master							
				2016 2	017 2018	2019	2020	2021	2022 2023
(aha)		Text30 🗸	-	2016 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr		2018 2019 r 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3	2020 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3	2021 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Q	2022 tr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr
		3 Master	Key Decision Points (KDPs)	☆ KDP B ③ 3/1 12/19	KDP C ③ 2/27			KDP D	KDP E (a) 4/6
		0 Master	⁴ Mission Milestones	SRR	MPDR 		MCDR 	MSIR 4/22	
	(FORMAT VIEW)	6 Master	4	R ASM △△ △ MDR 4/6 8/16					FRR 16/5 6/1
Master 🖌	2 SCHEDULE (FG	2 Master	Spacecraft Development	SRR				S/C I&T	Ship Launch 6/6
	400 MASTER SCH	1 Master	[,] Polarimeter Developm <mark>ent</mark>	ATP SRR 	12/5 4/3 PDR 8/21	0 9/25 CDR 	0/28 SIR 12/20	4/26 Ship to I&T 2/2	4/19
(User Defined)	CODE 400	5 Master	 Ocean Color Instrument Development (OCI) 	ATP SRR	PDR 	CDR 12/12	SIR 12/20	Ship to I&T	
	6	9 Master	Launch Vehicle			Award 5/1	9		

Master Schedule & Summary Schedules Using MS Project

ID	Sched Code			25
	,		Otr 2 Otr 3 Otr 4 Otr 1 Otr 3 Otr 4 Otr 1 Otr 3 Otr 3 Otr 4 Otr 3 Otr 3 Otr 4 Otr 1 Otr 3 Otr 3 Otr 4 Otr 1 Otr 3 Otr 3 Otr 4 Otr 3 Otr 4 Otr 3 Otr 3 Otr 4 Otr 3 Otr 3 Otr 4 Otr 4 Otr 4 Otr 4 Otr 4 <th< th=""><th></th></th<>	
86	Maste <mark>r</mark> ,BUSI,T2II,GSI	T2 Phases	ExPBR KDP-C Phase C Phase D KDP-E	Phase E
98	Master,T2II,BUSI,GSI	T2 Milestones	Mission PDR Mission CDR MOR SIR PER FOR ORR MA LRD PLAR	
124	Master, T2II, BUSI, GSI		6/24 9/13-15 2/2 6/28 9/13 1/17 6/10 2/13 4/9	
1499	Master,BUSI	T2 SC Studies & Procurement		
1628	BUSI	T2SC Structures	Prelim Des Detail Des Flt Structure 3/31 3/31 3/20	
1768	BUSI	T2SC Thermal	3/31 3/21 3/20 Prelim Des Detail Des Thermostats 3/31 3/30 4/28	
1843	BUSI	T2SC Power	relim Des Detail Des PDM/BCM/PAM 3/31	
1972	BUSI	T2SC Harness	1/28 3/31 Batt 12/6 Detail Des Parts Payload 5 5/27	
2022	BUSI	T2SC Comm	Prelim Des Detail des	
2107	BUSI	T2SC ADCS	2/11 3/18 RF Cabs 2/27 Prelim Des STAs/Gyro Detail Des 3/22 ASM HWILL RWAs 2/11 11/17 SS 3/24 11/16 3/31	
2282	BUSI	T2SC FSW	2/11 11/17 SS 3/24 11/16 3/31 Prelim Des Detail Des ASM Rel D 3/17 SW Accpt Test 4/11 2/3 5/4 OBC Rel E 3/17 SW Accpt Test 4/11	
2460	BUSI	T2SC Automated Safety Module (ASM)	2/3 5/4 OBC Rel E 3/17 S CDR Des EM2 FM EM FM Enviro Test 5/10 1/27 12/6 4/3 5/8	
2559	BUSI	T2SC Payload Interface Unit (PIU)	1/27 1/2/6 4/3 5/8 S EM2 CDR Des EM3 PIU FW Rel E FM Enviro Test EM 4/30 1/31 3/28 7/29 1/27 FM 2/2/3/29 5/23	
2707	BUSI	T2SC On-Brd Computer (OBC)	4/30 1/31 3/28 7/29 12/7 FM 2/2:3/29 5/23 PDR Des Early EM CDR Des EM FM Enviro Test 1/29 12/2 3/28 9/15 2/8 4/18	
2802	BUSI		1/29 1/2/2 3/28 9/15 2/8 4/18 ign CDR Design I&T Battery Re-Use ARGOS Racks 2/1	
2879	BUSI	T2SC MGSE Dev	12/21 12/27 PDR Des Integ SC MGSE 3/20 Open SC MGSE 3/29 Open SC MGSE 3/29	
2982	BUSI,GSI	T2SC SCSIM Dev	1/27 3/31 Mod MGSE 2/7 im Des 1/27 Assy SW I&T Ready Update Detail Des 3/24 11/9 3/7 4/20 8/15	
3155	BUSI,Master,GSI	T2 Grnd Segment	Detail Des 3/24 11/9 3/7 4/20 8/15 PDR Des CDR Des Scripts Testing	
1515	Master,BUSI,T2CP,GSI	T2 SC Bus	PDR CDR III III III III III III III III III I	
3456	BUSI,Master, T2CP, T2II,GSI, SCSIN	II T2 Obs I&T	4/22 4/15 Strt PER EnvTest 4d PSR	
3603	BUSI,Master,T2CP,GSI,t2ii	T2 Launch Segment	Instr Prep 7/12	



Critical Path

Secondary Critical Path

Tertiary Critical Path



Top 3 Critical Paths

Nas

Sample



MSR Package Charts

MSR package includes ONLY the following charts:

rechnical Executive Summary

Title Page

mmatic Executive Sum

9. Road to Launch Executive Summary II. 10. Hardware Picture of very short video i 14. Persiant crianne Eveninitive Crimmeni u. Hardware victure or very snort vide Project Science Executive Summary

review science Executive summar
 <u>Back-Up Title Page</u>
 <u>Risk Descriptions/Mitigation Status</u>

14. Mission Overview 15. Significant Progress 16. communication & Public Outreach

10. Communication at 17. CMC Action Status

18. COVID-19 Impacts (Spreadsheet)

18. COVID-19 Impacts (Spreausing 19. COVID-19 Impacts Summary

22. Duprilean Angeren Status 23. Cost Reserve Status

24. Project Threats

25. PPBE Budget

26. Work Force 28. Funded Schedule Margin

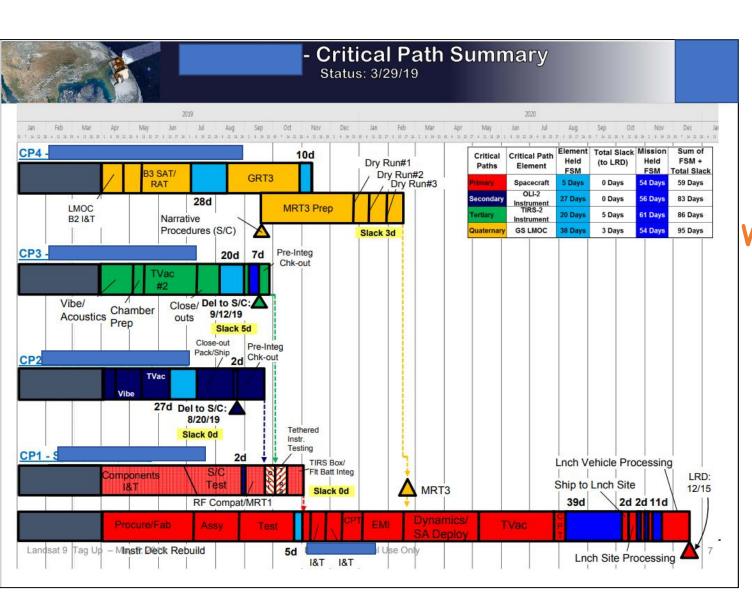
Acronym List

20. Milestone Summary

10. Milestone Summary 1. Earned Value Management Assessment (2 pages) 1. Earned Value Management (Arented - Obligation) 1. Buildings Arengements (Arented - Obligation)

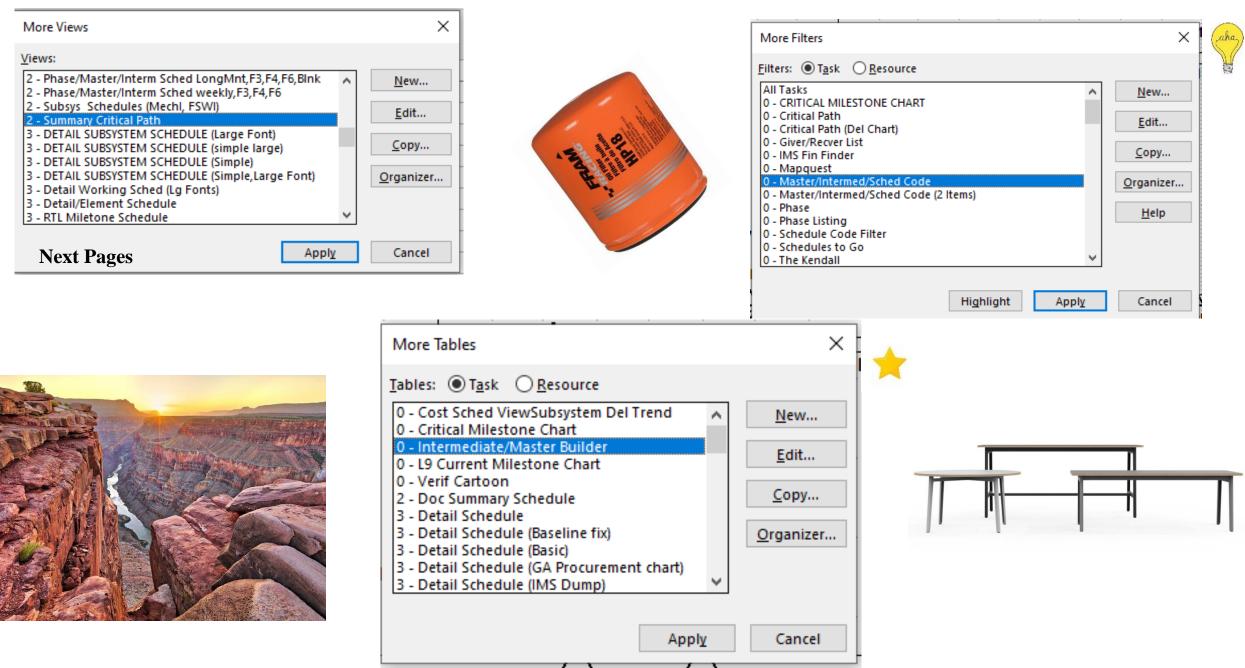
29. Project Kesource Margins 30. Residual Risks (begins 6 months prior to launci. W. Kesidual Kisks (begins & months prior to laurich) L. GIDEP Status (begins & months prior to laurich)

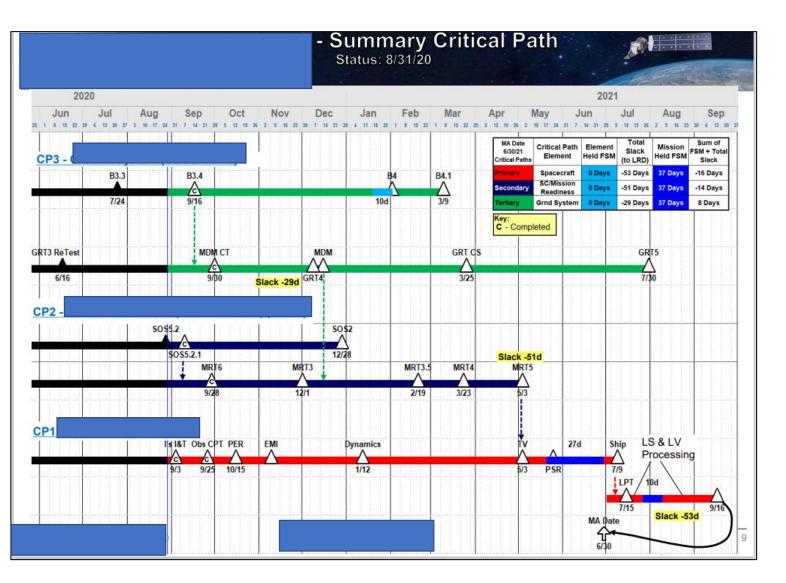
L tarned Value Management Assessment (2 P), Business Assessment (Actuals - Obligations)



- Required Chart at GSFC
- Hand-Drawn
- Time Consuming (For me)
- Subject to Errors





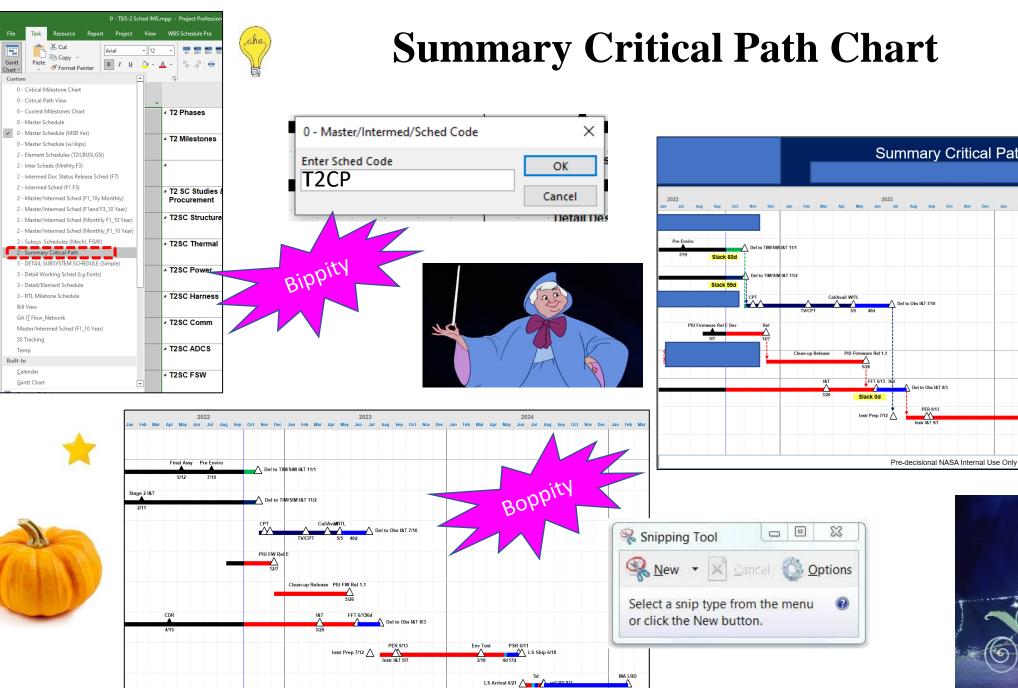


Code the lines that make up the 3 Critical Paths

Colorize bars...

Add Arrows & Narration

Go!





LS Arrival 6/21

2024

Critical Path Element

Spacecraft

SIM

Element Held FSM

NASA

Held FSM FSM + Total

Slack

203 Days

257 Days

258 Days

to LRD

94 Dav

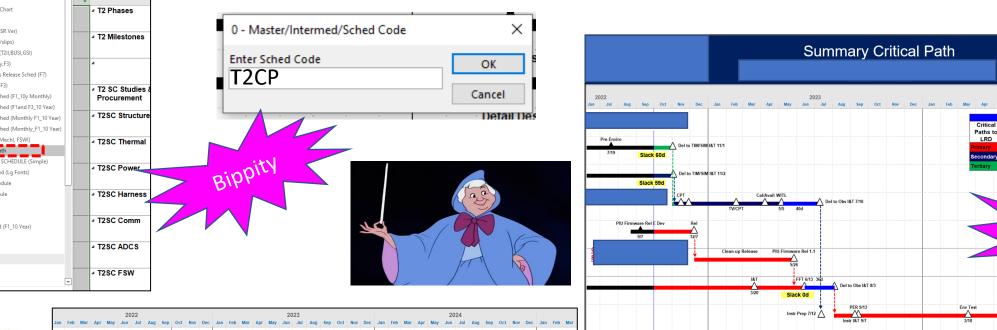
Slack to LRD

0 Days

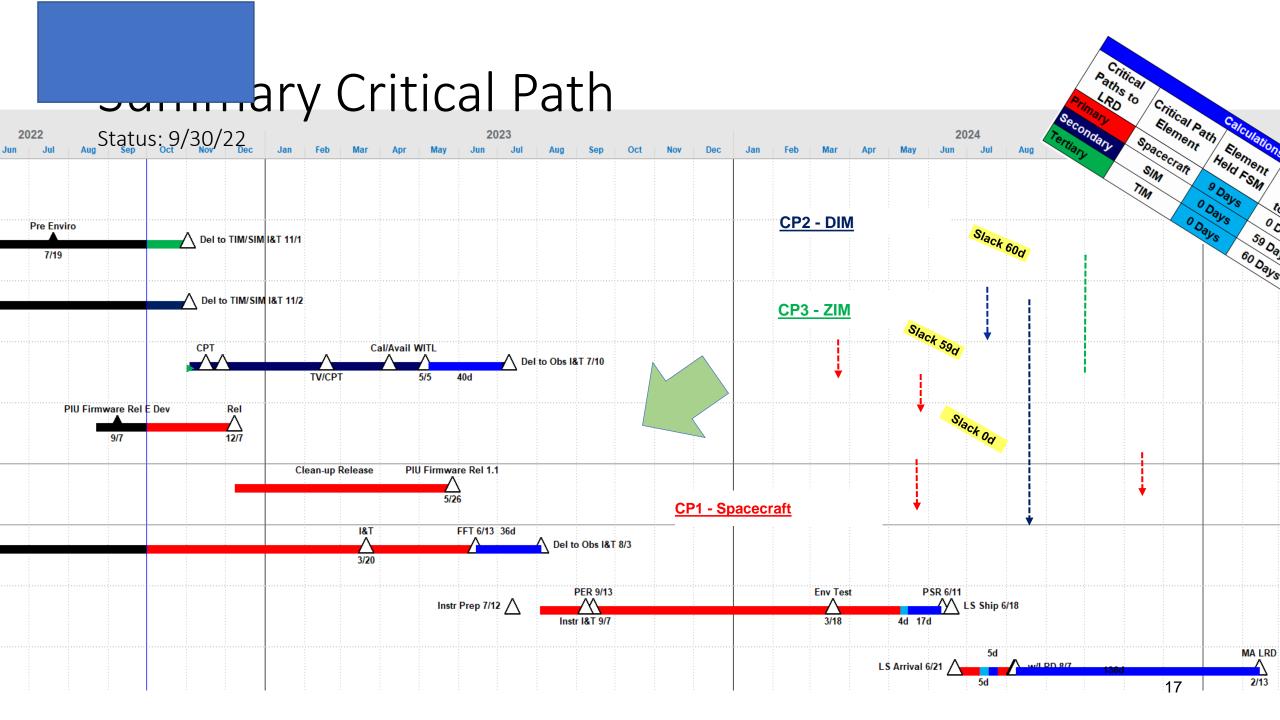
59 Days

60 Days

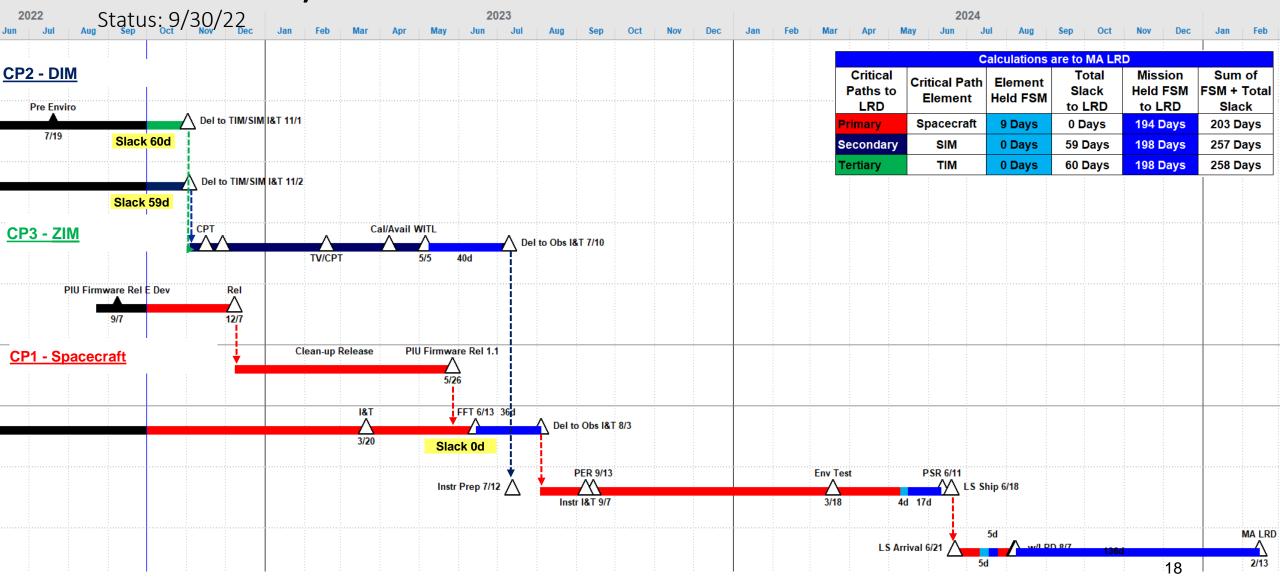
Boo



2/13



Jannary Critical Path





D



	- Current	Milestones 9/3	0/22			
UID	Cal Year	Milestone	%	Start	Finish	Notes
84		Mission Milestones				
1	2019	T2 Kick-off Mtg @ HQ	100%	4/12/19	4/12/19	
2	2019	Mission SRR	100%	10/29/19	10/30/19	
4	2021	Mission PDR	100%	6/2/21	6/4/21	
56	2022	Mission CDR (MCDR)	100%	9/13/22	9/15/22	
64	2023	Mission SIR	0%	6/27/23	6/28/23	
78	2024	ORR	0%	6/6/24	6/10/24	
747	2024	Obs PSR	0%	6/10/24	6/11/24	
163	2024	FRR	0%	7/31/24	7/31/24	
80	2024	MRR	0%	8/2/24	8/2/24	
63	2024	Working LRD	0%	8/7/24	8/7/24	
62	2024	PLAR	0%	10/6/24	10/6/24	
6702	2025	MA LRD	0%	2/13/25	2/13/25	
85		Mission KDPs & Phases				
6175	2021	Extended Phase B Review (EPBR)	100%	10/12/21	10/12/21	
24	2022	Formulation Phase	100%	4/12/19	5/24/22	
5	2022	KDP-C	100%	5/24/22	5/24/22	
23	2023	Phase C	28%	5/25/22	8/28/23	
52	2024	KDP-E (If Req'd)	0%	7/29/24	7/30/24	
22	2024	Phase D	0%	8/29/23	10/7/24	
51	2024	Phase E (Start)	0%	10/8/24	9/7/27	
87		Obs Milestones				
12	2019	T2SC RFI Release	100%	4/12/19	4/12/19	
41	2019	T2SC RFI Studies Complete	100%	7/11/19	7/11/19	
16	2020	T2 S/C Contract Award	100%	7/6/20	7/6/20	
3554	2020	T2SC Kick-off Mtg	100%	8/13/20	8/13/20	
3240	2020	T2 S/C SRR	100%	9/9/20	9/10/20	
30	2021	T2 S/C PDR	100%	4/19/21	4/22/21	
6	2022	T2 S/C CDR	100%	4/12/22	4/15/22	
79	2023	Obs PER	0%	9/13/23	9/13/23	

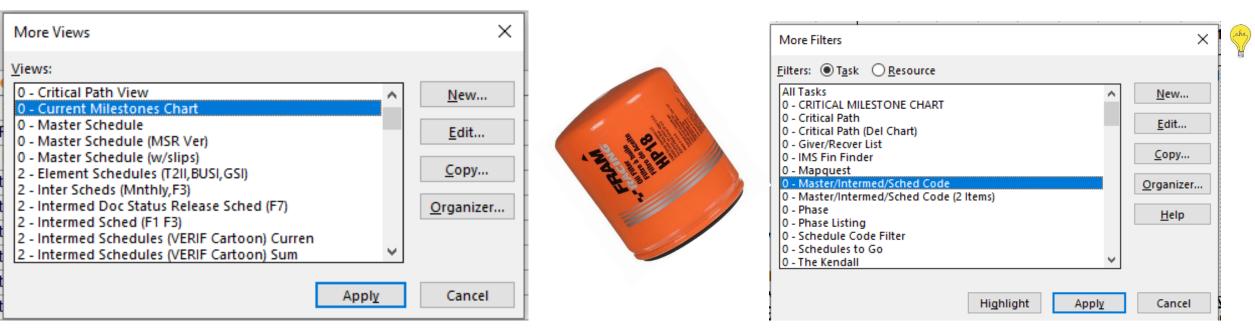
A	В	с	D	E	F
1 Mission Milestones	Start	Finish	notes	reviewed	notes
2					Green denotes complete
3 SRR/MDR (Mission Definition Review)	6/1/16	6/3/16		Y	
4 PDR (Preliminary Design Review)	9/13/17	9/15/17		Y	
5 CR (Confirmation Review)	11/15/17	11/15/17	PDR + 2 months		
5 CDR (Critical Design Review)	3/20/18	3/22/18		Y	
/ IBR (Integrated Baseline Review)	4/16/18	4/16/18		Y	
MOR (Mission Operations Review)	6/18/19	6/20/19	per sc schedule (3/17 status)-LRD -18 months	Y	TBD- waiting on SC schedule correction
SC/Instr integration start	9/26/19		per sc schedule (3/17 status)	Y	
SIR (System Integration Review)	10/28/19	10/30/19	per sc schedule (3/17 status)	Y	should this be earlier based on instr integ dates.?
PER (Pre- Environmental Review)	12/9/19	12/11/19	per sc schedule (3/17 status)	Y	
2 FOR (Flight Operations Review)	3/25/20	3/27/20	per sc schedule (3/17 status)-LRD -9 months	Y	TBD- waiting on SC schedule correction
PSR (Pre-Ship Review)	9/16/20	9/17/20	per sc schedule (3/17 status)		
ORR (Operations Readiness Review)	9/22/20	9/25/20	per sc schedule (3/17 status)-LRD -3 months		
5 SMSR (safety mission assurance rev)	11/16/20	11/16/20	per Syed	Y	
6 FRR (Flight Readiness Review)	12/8/20	12/8/20	per sc schedule (3/17 status)	Y	
7 LRR (Launch Readiness Review)	12/10/20	12/10/20	per sc schedule (3/17 status)	Y	My date-needs to be corrected in SC schedule
LRD (Launch Ready Date)	12/15/20	12/15/20	per sc schedule (3/17 status)	Y	12/18/20 in SC schedule- needs to be corrected
9 PLAR (Post Launch Assessment Review)	3/25/21	3/25/21	launch +3.5 months (per Vicki)	Y	
0					
Mission Phases					
Phase A	3/4/15	8/16/16		Y	
Phase B	8/17/16	11/15/17	PDR + 2 months	Y	
Phase C	11/16/17	10/15/19		Y	
5 Phase D	10/16/19	3/25/21		Y	
6 Phase E	3/26/21			Y	
7					
Key Decision Points					
KDPB	8/17/16			Y	
KDPC	11/16/17			Y	
1 KDPD	10/16/19			Y	
2 KDPE	11/30/20		launch -2 weeks	Y	
3					
4 Spacecraft Milestones					STILL WAITING FOR End of April 2017 status!
5 SRR	2/14/17			Y	
6 Heritage Review	4/13/17	4/13/17		Y	
7 PDR	7/18/17		per sc schedule (3/17 status)	Y	
8 CDR	2/12/18		per sc schedule (3/17 status)	Y	
9 SIRR (SC integ. Readiness Review)	4/9/18		per sc schedule (3/17 status)	Y	first integration is PDU starting on 4/30/18
0 TIRS-2 IRR (instrument integration review			per sc schedule (3/17 status)	Y	integration start date is 9/26/19 (see SIR note above)
1 OLI-2 IRR (instrument integration review)	9/30/19	10/1/19	per sc schedule (3/17 status)	Y	integration start date is 10/14/19 (see SIR note above)
2 OAR	3/25/21		launch +3.5 months (per Vicki)	Y	incorrect date in SC schedule (4/15/21)
3					
4 TIRS-2 Milestones					
5 IHR (instr. Heritage Review)	11/19/15			Y	
6 PDR	6/15/16			Y	
7 CDR	2/21/17	2/23/17		Y	
8 IBR (Integrated Baseline Review	6/22/17	6/23/17		Y	
9 PER	7/13/18	7/13/18	per TIRS-2 schedule (4/17 status)	Y	
0.020				v	1

- Updated Manually
- Maintained outside of the IMS
 - Time Consuming (For Me)

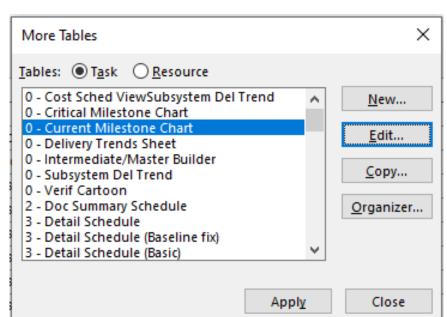
Why are we still doing it like this?



TDMS 🌴 Documentation - Change Request - WOA Photo/Video Risk -	Q 🗘 🙆 🔲 i Help+ wparadis+
News and Upcoming Events Recent TDMS Updates	
+ News / Event Sort Events + Quick Links Sort Links	
Welcome to the TDMS! Expires: 02/02/2023	
Technical Data Management System (TDMS) provides access to project-controlled (configuration management) and non-project controlled (CDRLs and reference/library) documentation and is available from anywhere (home, work, travel) - Cisco AnyConnect VPN is needed when not at GSFC.	Alerts
 Access to the TDMS is provided to users once they request an account in NASA Account Management System (NAMS) and the account goes through the proper approval process. https://nams.nasa.gov/ When using the TDMS, please use the latest Goddard approved web-browser versions for Firefox, Chrome, Safari, or Microsoft Edge. When working offsite, log into Cicso AnyConnect VPN first. Once VPN connection is established, log into TDMS. If you plan on working outside of the NASA firewall you will need to VPN into the TDMS. Recommend installing Cisco AnyConnect Secure Mobility Client. 	VIEW ALL ALERTS Documents (0) Drawings (0) CCRs (0)
Getting Started:	SCoRes (6) EOs (0)
 Go to the right of the homepage and click on the Help button. Click on the are a number of quick video tutorials, as well as helpful documentation. The tabs at the top of the homepage (Documentation, Change Request, WOA, Photo/Video, and Risk) also have helpful buttons! 	WOAs (0) Waiver/Deviation (0)
Support:	Quick Launch
 DM/CM Team: gsfc-dltdmscm-admin@mail.nasa.gov Training is always available. Just ask! 	 Project Organization Chart (with Names) POC List
Reporting Issues:	Concerns List
Issues should be report to: gsfc-dltdmscm-admin@mail.nasa.gov	GSFC Organization File Plan Project-specific Abbreviation/Acronym List
The following information is useful when reporting issues:	Master Schedule (1 pager)
 Description of the problem Actions that preceded the error/issue Approximate time Error message or lack of error message Browser used Anything unusual about the way the system was acting prior to the issue Number of instances of TDMS open 	 Earth Systematic Missions Program » TSIS-2 Earth Science Projects Division Homepage Sun Climate Homepage FPD Internal Operations Hub Flight Projects Directorate (FPD) Homepage GSFC Internal Homepage NASA Homepage Current Key Milestones and Review CM-Controlled Document Template
Helpful Information for Team MembersPlease Read	400-HDBK-0001 (Instructions) RELEASED 2019
Please keep in mind that the TDMS is an "alert"-based system. Although, some team members receive emails from the TDMS or emails from the CM Office with reminders and such, you need to check the TDMS daily to	Goddard's Directive Management System (GDMS)





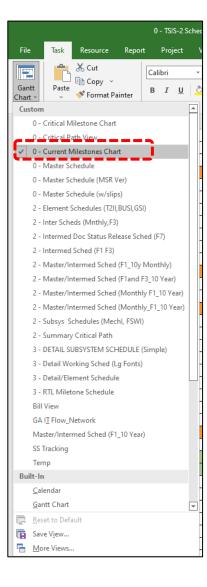




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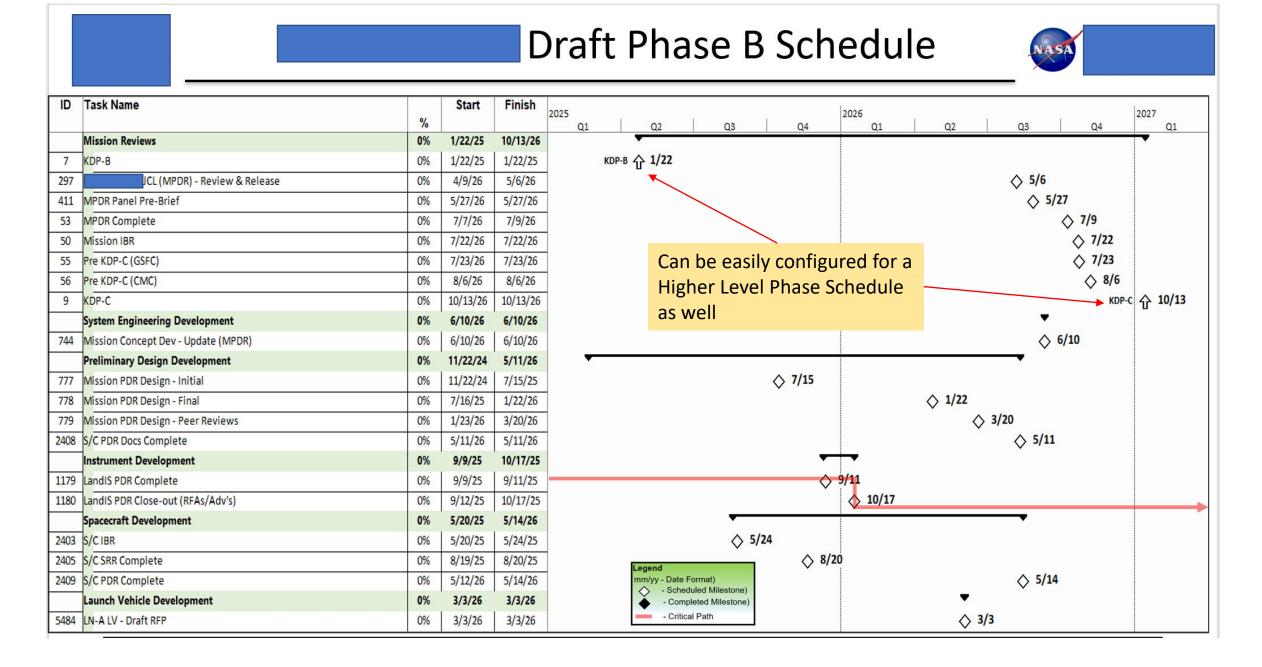
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3 9 55 777 776 165 171 10 90 782 10	2019	T2I ATP (T2)	100%	8/6/19	8/6/19
55 9 777 1 776 1 165 1 90 1 782 1	2019	T2I Kick-off Mtg	100%	9/18/19	9/18/19
777 776 165 171 90 782	2020	T2I Heritage/PDR/CDR	100%	1/22/20	1/23/20
776 165 171 90 782 1	2020	T2I Negotiations (Official Award)	100%	4/17/20	4/17/20
165 171 90 782	2022	T2I TIM PSR	0%	5/2/22	5/2/22
171 90 782	2022	T2I SIM PSR	0%	5/3/22	5/3/22
90 782	2022	T2I PER	0%	7/14/22	7/14/22
782	2022	T2I PSR	0%	10/21/22	10/21/2
		Ground Segment Milestones		= la a la :	-
	2022	MOR	0%	5/18/22	5/18/22
	2024	Grnd Sys Full Func Test	0%	12/12/23	2/12/24
5805	2024	Grnd Station RF Compat Test	0%	2/22/24	2/22/24
	2024	FOR	0%	5/10/24	5/10/24
92	2024	Mission Readiness Milestones	0%	12/12/22	1/2/24
		End to End Test (SEET)		12/12/23	1/2/24
5393 5404		LEOP Test Wet Dress Rehearsal	0%	1/3/24	1/23/24
5404 91	2024	Wet Dress Rehearsal	0%	7/8/24	7/8/24
			100%	44/40/40	44/40/4
3253 74	2024	T2 LV - Fit Planning Board Mtg		11/19/19 2/14/22	11/19/1 2/14/22



	- Current	Milestones 9/3	30/22			
UID	Cal Year	Milestone	%	Start	Finish	Notes
84		Mission Milestones				
1	2019	T2 Kick-off Mtg @ HQ	100%	4/12/19	4/12/19	
2	2019	Mission SRR	100%	10/29/19	10/30/19	
4	2021	Mission PDR	100%	6/2/21	6/4/21	
56	2022	Mission CDR (MCDR)	100%	9/13/22	9/15/22	
64	2023	Mission SIR	0%	6/27/23	6/28/23	
78	2024	ORR	0%	6/6/24	6/10/24	
747	2024	Obs PSR	0%	6/10/24	6/11/24	
163	2024	FRR	0%	7/31/24	7/31/24	
80	2024	MRR	0%	8/2/24	8/2/24	
63	2024	Working LRD	0%	8/7/24	8/7/24	
62	2024	PLAR	0%	10/6/24	10/6/24	
6702	2025	MA LRD	0%	2/13/25	2/13/25	
85		Mission KDPs & Phases		10/10/01	10/10/01	
6175	2021	Extended Phase B Review (EPBR)	100%	10/12/21	10/12/21	
24	2022	Formulation Phase	100%	4/12/19	5/24/22	
5	2022	KDP-C	100%	5/24/22	5/24/22	
23	2023	Phase C	28%	5/25/22	8/28/23	
52	2024	KDP-E (If Req'd)	0%	7/29/24	7/30/24	
22 51	2024 2024	Phase D Phase E (Start)	0%	8/29/23	10/7/24	
87	2024	Phase E (Start) Obs Milestones	0%	10/8/24	9/7/27	
8/	2019	T2SC RFI Release	100%	4/12/19	4/12/19	
				1 1 1	1 1 1	
41	2019	T2SC RFI Studies Complete	100% 100%	7/11/19 7/6/20	7/11/19 7/6/20	
3554	2020	T2 S/C Contract Award				
3240	2020	T2SC Kick-off Mtg T2 S/C SRR	100%	8/13/20 9/9/20	8/13/20 9/10/20	
30	2020	T2 S/C PDR	100%	4/19/21	4/22/21	
6	2021	T2 S/C CDR	100%	4/13/21	4/15/22	
79	2022	Obs PER	0%	9/13/23	9/13/23	
88	2023	TIM/SIM Milestones	0/0	5/15/25	5/ 25/25	
44	2018	T2I Studies Completed	100%	11/30/18	11/30/18	
8	2019	T2I ATP (T2)	100%	8/6/19	8/6/19	
775	2019	T2I Kick-off Mtg	100%	9/18/19	9/18/19	
3	2020	T2I Heritage/PDR/CDR	100%	1/22/20	1/23/20	
55	2020	T2I Negotiations (Official Award)	100%	4/17/20	4/17/20	
165	2022	T2I PER	0%	11/15/22	11/16/22	
171	2023	T2I PSR	0%	4/10/23	4/11/23	
90		Ground Segment Milestones		1 11 1	1 1 2	
782	2023	MOR	0%	2/21/23	2/22/23	
785	2024	FOR	0%	1/17/24	1/17/24	
92		Mission Readiness Milestones				
5740	2024	LEOP Rehearsal	0%	2/8/24	2/13/24	
6424	2024	Commissioning Rehearsal (Bus)	0%	2/14/24	2/23/24	
5805	2024	Grnd Station RF Compat Test	0%	3/4/24	3/4/24	
7222	2024	Commissioning Rehearsal (Instruments)	0%	3/25/24	3/29/24	
6423	2024	Safe Mode Recovery Rehearsal	0%	4/1/24	4/5/24	
4017	2024	Grnd Sys Full Func Test	0%	4/8/24	4/16/24	
3964	2024	End to End Test (SEET)	0%	3/21/24	4/3/24	
5393	2024	LEOP Test	0%	4/5/24	4/18/24	
5404	2024	Wet Dress Rehearsal	0%	8/6/24	8/6/24	
91		LV Milestones				
3253	2019	T2 LV - Flt Planning Board Mtg	100%	11/19/19	11/19/19	
74	2022	T2 Launch Vehicle - Award	100%	8/16/22	8/16/22	
7399	2022	Kick-off Mtg	100%	9/6/22	9/6/22	
7398	2023	Mission Specific Design Review (MSDR)	0%	8/3/23	8/4/23	
7397	2024	Mission Integration Readiness Review (MIRR)	0%	4/8/24	4/9/24	
75	2024	T2 Launch Vehicle - Delivery	0%	4/15/24	4/15/24	
7396	2024	Launch Processing Readiness (LPRR)	0%	6/7/24	6/10/24	

- No Bar Styles set up
- Modifying the chart requires adding or deleting "T2MS" in the Text30 Field and adding the Outline Code (Master or Intermediate Code Field)
- Group by selected Outline Code
- Colorizing and adding the "Cal Year" is optional





The Integrated Master Schedule is formed by weaving together a large collection of smaller schedules.

Extracting bite-sized pieces of the schedule for others to chew on...

📰 2 - Summary C 🔻 0 - Master/Inte 🔹 [No Group] 🔹 🖳 🍞 🍢 🔎 🗌 Indent Name 🥏 🕤 Summary Tasks 📼 abe 🍛 🛋 📢 🥴

Line#								
	UID 🗕	0_Map 🚽	SIk 👻		Activity 👻			
124	6633	DM,DBA	217d	Detector	r Module (DM) Design & EM Testing			
125	6636	DM,DBA	217d	Obta	Modules & Lab Set up			
126	6635	DM,DBA	217d	Modi	Modules for EDGE EM Detector Testing			
127	6634	DM,DBA	217d		EM Detector TVac & CPT Testing			
128	6640	DM,DBA	226d		Fit Detector EPR Prep			
129	6639	DM,DBA	226d		Fit Detector EM Test EPR			
130	6637	DM,DBA,DPU	217d	Fit De	Flt Detector Design			
131	6642	DM,DBA,DPU	217d	Fit De	tector Module Long lead Parts Orders Prep			
132	6641	DM,DBA	225d		FIt Detector Design EPR Prep			
133	6638	DM,DBA	225d		FIt Detector Design EPR			
134	6652	DM,DBA	217d	Detector	Detector Module Long Lead Parts			
135	6646	DM,DBA	288d		Fit Detector Module Long lead Parts			
136	6643	DM,DBA	217d		Flt Release Pre-Prepared P.O.s to Excelitas, SPE & De			
137	3429	DBA,DM	217d	Detector Module Boards (DM) (Excelitas)				
138	3730	DBA,DM	217d	Flt & Qual DM Brds - Final Drwgs & Docs				
139	3428	DBA,DM	217d	Flt & Qual DM Brds - Build Units				
140	3430	DBA,DM	217d	Fit & Qual DM Brds - Screening Pre-Seal				
141	3427	DBA,DM	217d	Fit & C	Flt & Qual DM Brds - Screening Post-Seal			
142	6644	DBA,DM	217d	Qual	DM Brds - Del to NASA			
143	3731	DBA,DM	217d	Fit & C	Qual DM Brds - Final Qual Testing			
144	3729	DBA,DM	278d	Fit & C	Qual DM Brds - Qual Test Reporting			
145	3426	DBA,DM	217d	Detector	r Module (DM) (Space Power Electronics/SPE)			
146	3436	DBA,DM	217d	FIt DN	I - Final Design			
147	6645	DBA,DM	217d	FIt DN	I-EPR			
148	6650	DBA,DM	217d	FIt DN	I - Parts Kitting at SPE			
149	2758	DBA,DM	217d	FIt DN	I - Components Build (Magnetics,Housings,PCBs)			
150	2757	DBA,DM	217d	FIt DN	I - DM Brd Assy			
151	3754	DBA DM	217d	FIt DM	1 Testing with FM DOA			

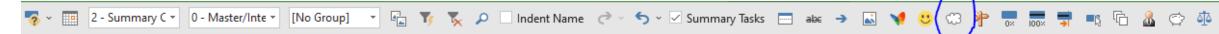
New Addition to the Quck Access Tool Cool Bar

1

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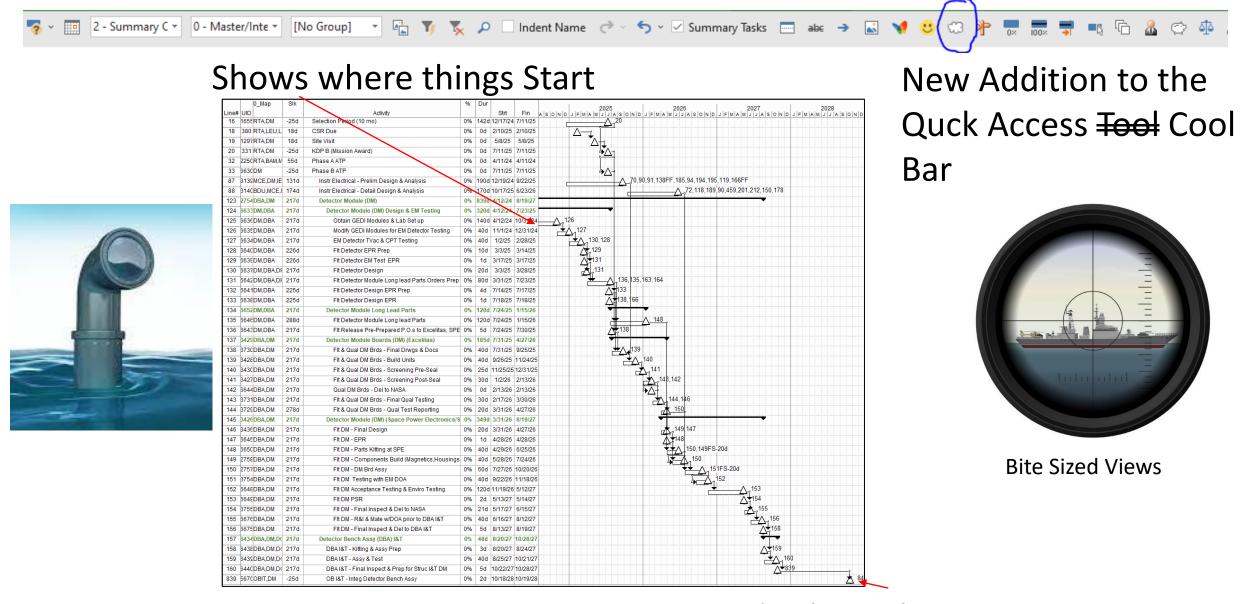
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Task	Task Information								
Gene	General Predecessors Resources Advanced Notes Custom Fields								
_	Name: Fit Detector Design Duration: 20d 🖨 Estimated								
	Custom Field Name	Value	<u>^</u>						
	_0grab (Text16)								
	0_Map (Text28)	DM,DBA,DPU							
	Date10	NA							
	Date2	NA							
	Date3	NA							
	Date4	NA							
	Date9	NA							
	Element Code (Outline Code3)								
	Finish Var Work Days (Number4)	#ERROR							
	IMS Fin (Text8)								
	IMS Start (Text5)		~						
	Help	OK Cancel							



A Simple Macro that runs this filter...

<u>F</u> ilters: Task CResource			+	% 👻	Dur 👻	Strt 👻	Fin 👻	A		021 J	A S	O N	D J	FM	2 A M J	2022 J J
0 - CRITICAL MILESTONE CHART		New		65%	2492d	10/1/18	4/18/28	-		: :						-
0 - Critical Path 0 - Critical Path (Del Chart)		<u>E</u> dit		100%	0d	10/1/18	10/1/18									-
0 - Giver/Recver List				0%	0d	4/18/28	4/18/28									
0 - IMS Fin Finder 0 - Mapquest		<u>C</u> opy		100%	0d	3/7/19	3/7/19									
0 - Mapquest (2 items)	Or	ganizer		100%	0d	4/12/19	4/12/19									
0 - Master/Intermed/Sched Code 0 - Master/Intermed/Sched Code (2 Items)		Li alm		100%	0d	4/12/19	4/12/19									
0 - Phase		Help		100%	0d	4/12/19	4/12/19									
0 - Phase Listing 0 - Schedule Code Filter				100%	0d	4/12/19	4/12/19									
0 - Schedules to Go	¥			100%	0d	4/12/19	4/12/19									-
nary CP2 Line Break		<u>F</u> ilter:														
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nary CP2 Line Break) or T2 Month 1 (LOE)		C <u>u</u> t Row	<u>C</u> opy	ROW	Paste Rov	v <u>i</u> nser	rt Row	Dei	ete R	ow						
) or T2 Month 2 (LOE)		And/Or	Fi	eld Name			Test						Value	(s)		^
) or T2 Month 3 (LOE)		Text	28				conta	ns		-6	Enter	Schedu	le Co	de"?		
) or T2 Month 4 (LOE)																
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) or T2 Month 7 (LOE)																
) or T2 Month 8 (LOE)																¥
) or T2 Month 9 (LOE)		Show relat	ed summary	rows												
) or T2 Month 10 (LOE)		Help	1										Save		Cancel	



And Where things Go...

			7	Line#	#							2025			2026		2027		
	Α	в	· · ·		" JID ↓ 0_Map •	🖌 Sik -	- Activity -	% 🚽 Dur 🚽	🗸 Strt		- M A M		O N D J					O N D J	F M I
1	Schedule (_	d '	88	3140 BDU,MCE,D	.,DM 174d	Instr Electrical - Detail Design & Analysis	0% 170d	0d 10/17/25	25 6/23/26	1			/	<u>∧_72</u> ,118,189,90,459	.9,201,212,1 <mark>50,178</mark>			
-	Schedulev	Jodes	⊢ ′		6637 DM,DBA,DP		_	0% 20d											
2	I		'		6642 DM,DBA,DPU							136,135,163	3,164						
з.	ADCS	Altitude Determination & Control	4		2763 DPU 6653 DPU	386d 386d		0% 494d									•		
4	BAM	Beam Adjustment Mechanism	· ۱		6653 DPU	457d	_	0% 120d 0% 120d					-	176					
5		Bean Ditrhering Unit	г і _'		6655 DPU	457d 386d	-					166							
					6656 DPU	386d	· · · · ·	0% 185d											
		Spacecraft	· /		6657 DPU	386d		0% 40d)d 7/31/25			ר <u>אר</u>	167						
		C&DH	- '		6658 DPU	386d		0% 40d					<u>168</u>						
8	DPU	Detector Power Unit	· ·		6659 DPU 6660 DPU	386d		0% 25d						J A 171 170					
9	ETE1	End to End Test 1	1		6661 DPU	386d 386d		0% 30d 0% 0d											
10	ETE2	End to End Test 2	<u>г</u>	D	6662 DPU	386d		0% 30d						59 					
		End to End Test 3	r P	B 172	6663 DPU	447d		0% 20d						178					
			r r	Z	6664 DPU	386d											•		
		Fold Mirror Assy	+		6665 DPU	386d	-	0% 20d						± <u>4</u> 177,175	1				
13		Ground Syst Build 0	,		6666 DPU	386d 386d		0% 1d							∧ 178.177FS-20d				
14	GSB1	Ground Syst Build 1	<u>ر</u> ا ا	<	6667 DPU	386d 386d									<u></u> 1/8,177FS-20d ∕\ 178				
15		Ground Syst Build 2	<u>ا</u> ا		6669 DPU	386d		0% 400 0% 60d								∆_179FS-20d			
		Ground Syst Build 3	r	m	6670 DPU	386d	-	0% 40d								<u></u>			
			H '		6671 DPU	386d	-	0% 40d								181FS-20d			
		Ground Syst Build Clean Up	⊣ ′		6672 DPU	386d		0% 120d											
		Ground System	<u> н</u> '		6673 DPU	386d 386d		0% 2d											
19	IAIT	Inst OB/Struc I&T	1		5693 REA,DPU			0% 21d 0% 1d									<u> </u>		79
20	IDOL	Instr Dolly	י آ			+			+	+	-								
		Instr Dynamics											<u> </u>		<u></u>	<u></u>		<u> </u>	<u> </u>
22		Instr External Harnessws	Г																
			Г																
		Instr EMI/EMC Test	t-																
24		Instr Harn MU	+ 17													0000		0007	
25		Instr Internal Harnesses		Line# UID 🚽	• 0_Map • SI		Activity	- %	- Dur -	Strt 💌	Fin - A	S.O.N.D.J.		2025 J.J.A.S.O.N	DUEM	2026 A M J J A S O	NDJEM	2027 A M J J A S	S.O.N.
26	/IT	Instr I&T	7	715 3757 I		55d	Instr EGSE - Concepts, Trades, & Regmts	0%			12/16/24	∧ 18							
27	ILS	Instr Lift Slings		716 3759 1		131d	Instr EGSE - Initial Regmts	0%			8/20/24								
		Instr Simulator		710 3759 1		1310 1310	Instr EGSE - Final Regmts	0%			12/16/24						· · · · · · · · · · · · · · · · · · ·		
29		Instr Struc I&R		717 3760 I 718 3761 I		1310 131d		0%			9/22/25				0.704		·····		
							Instr EGSE - Prelim Design & Analysis								,/31	A 70 700 701			
30		Instr Test Cables		719 3762 1		174d	Instr EGSE - Detail Design & Analysis		9% 170d		6/23/26					72,730,721			
31		Instr Test Rack		720 3157 I		374d	Instr Simulator (ISIM)	0%			9/24/27					A 704			
32		Instr TVac		721 3992 I		374d	Instr EGSE - ISIM - Final Drwgs & Docs		9% 40d		8/19/26					<u>★</u> 724			
33	IVP	Instr Vibe Plate		722 3998 1		441d	Instr EGSE - ISIM - COTS Parts Procure Prep	0%		9/23/25	1/20/26				<u>723</u>				
34		Launch Site Ops		723 3999 1		441d	Instr EGSE - ISIM - COTS Parts Procure	0%			8/10/26								
		Laser OPtical Module		724 3993 I		374d	Instr EGSE - ISIM - Fab/Procure Prep	0%			11/16/26						<u>_</u> 725		
36		Launch Vehicle		725 3994		374d	Instr EGSE - ISIM - Fab/Assy	0%			7/8/27							<u>726</u>	
			77	726 3995 I	/ ISIM ?	374d	Instr EGSE - ISIM - Test & Check-out	0%	9% 40d	7/9/27	9/2/27							<u>+</u>	<u>727</u>
		Optical Bench I&T	- 77	727 3996 I	/ ISIM C	374d	Instr EGSE - ISIM - Cert	0%)% 10d	9/3/27	9/17/27							7	r [★] ,728
38	JIT	Obs I&T	77	728 3997 I	ISIM	374d	Instr EGSE - ISIM - Final Inspect & Prep for I&T	0%)% 5d	9/20/27	9/24/27								1151
39	PROP	Propulsion	17	1151 6070 \$	J SIT,ISIM	75d	S/C I&T - Perf Testing	0%	9% 47d	12/7/28	2/14/29								
40		Primary Struc Assy	1																
			_																
41	PWR	Power	1																

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ile Message	Insert Options Fo	ormat Text Review Help	Acrobat 🛛 🖓 Tell me what you want t	to do	
Paste S B		BOOK Names	Attach Link Signature Assign	nportance Dictate Sensitivity Immersive Reader	Encrypt Sign View Templates
pboard 🗔	Basic Text	Names	Include Tags	Voice Sensitivity Immersive	Security 🖼 My Templates 🗸
Send St	Cc Ibject Schedule Snapshot				
Line# JD = 0_Mop = 91k BB 3140 BDUARE_DW 1746 10 6037 00BARDPU 2177 131 6642 0MUBARDPU 2177 131 2650 PPU 3866 26 6653 0PU 3866	Activity Instit Electical - Detail Design & Analysis FR Detector Design FR Detector Design FR Detector Node Long lead Parts Croters Pro 4 Detector Nover Unit (DRU)	0% 170d 10/17/25 6/23/26 0% 20d 3/3/25 3/28/25	5 A 8 O N O J F W A W J J A 8 O N O J F A 12 118, 198, 30, 459, 201, 212, 50, 178 A 135, 135, 163, 164	2027 A S O N D J F N .	
163 6654 DPU 457d 164 6655 DPU 386d 165 6666 DPU 386d 167 6658 DPU 386d 168 6699 DPU 386d 168 6690 DPU 386d 169 6560 DPU 386d	FID Detector Power Unit Long Inad Pats FIR Release Pri-Prepared PG as to Eccellars, G Detector Power Unit Boards (DPV) (Excellars) FIR & Qual DPU Bros Final Crews & FIR & Qual DPU Bros Build Units FIR & Qual DPU Bros Screening Pro-6-sal FIR & Qual DPU Bros Screening Pro-6-sal	0% 1203 72425 11506 0% 545 70425 70005 0% 1856 701125 42726 0% 400 70125 82525 0% 400 20125 82525 0% 400 92625 112425 0% 28 112525 12126 0% 23 112525 12126	156 167 167 167 167 169 177, 170 169 177, 170 177, 170 170, 1		
170 6661 DPU 3864 171 6662 DPU 3864 172 6663 DPU 4476	Fit & Qual DPU Brds - Final Qual Testing Fit & Qual DPU Brds - Qual Test Reporting Detector Power Unit (DPU) (Space Power Electr	0% 04 21326 21326 0% 30d 21726 33026 0% 20d 33126 42726 tror 0% 20d 33126 42726 0% 20d 33126 42726 0% 20d 33126 42726	4∆ → 12,174 → 12,174 → 12,177 →		
173 6664 DPU 3860 174 6665 DPU 3860 175 6666 DPU 3860	FILDPU - EPR				
	Fit DPU - Parts Kitting at SPE Fit DPU - Components Build (Magnetics,Housi Fit DPU - DPU Brd Aasy Fit DPU Testing with DOA	0% 40d 4/29/26 6/25/26	(*	51F5-205	

- Copy & Paste into an Email and send
- Code as you go
- Helps with Schedule navigation as well









"Road To" Schedules







Road To Schedules

Status Date, May 21, 2021

Appears to be a Milestones Pro Chart Possibly linked to the MS Project IMS Changes require modifying links, Adding lines, deleting lines in Milestones Pro etc..

Item		2021											
No.	Review Name		M	A	M	J	J	A	S	O	N	D	
1	PER		ues 2/16 -			30 0 13 20 3	<i>u</i> 4 11 18 26	1 8 16 22 3	29 6 12 19 2	0 3 10 17 24	81 7 14 21	28 6	
2	Perform S/C Modal Survey			3/12 - Sat								+	
3	Perform S/C Acoustic Test		▼Fi	i 3/19 - S	at 3/20							\vdash	
4	Perform S/C Sine Vibe Test			Sat 4/3	- Mon 4/	12						\top	
5	Perform S/C EMI/EMC/Self Compat/Plugs Out Test			▼	Mon 4/26	- Fri 4/30	, ,					\square	
6	Perform TVAC Testing on S/C (24/7 throughout)				Thu	5/13 (Lift	into Char	nber) - Mo	on 6/7 (Li	ft out of Cl	nam ber)		
7	Friends & Family Day at LM						∇Fri 7/	9					
8	S/C PSR (Pre-Ship Review)						Vτι	ues 7/20 -	Thurs 7/	22			
9	S/C Ship to						7	Friday 7	/30			\square	
10	FOR/ORR							√Tues	8/10 - TI	urs 8/12		\square	
11	FOR/ORR SRB Snapshot Review (One Pager)							√Mo	n 8/16				
12	KDP-E Code 400 Review								ues 8/24	ł			
13	KDP-E CMC Review (MRR)		n	nn					Wed 8/25	5		\square	
14	Safety & Mission Success Review (SMSR)		d	ПIJ	IC	M	on 9/13 (1	-4 PM EC	(Τ) (Τ)			\square	
15	HQ Pre-Launch Press Conference							TBC - Fri S	9/17▽				
16	LVOS (Launch Vehicle On Stand)							Fri S	9/17▽				
17	Media Day							TBC - Mo	on 9/27 🗸				
18	KDP-E DPMC Review (MRB)					Tues	9/28 (1:30) - 4:30 PI	и ерт) 🗸	1			
19	Transport S/C to VIF, S/C Mate to LV							٦	hurs 10/	$\overline{\nabla}$			
20	Flight Readiness Review (FRR)							тво	- Fri 10/	ś▽			
21	Mission Dress Rehearsal (MDR)								Tues 10/	12▽			
22	Launch Readiness Review (LRR)							TBC -	Wed 10	/13▽			
23	KSC Pre-Launch Press Conference							TBC -	Wed 10	/13▽			
24	LV Roll Out to Pad								Thurs 10	/14▽			
25	Launch				Sat	10/16 @	approx 9	34 UTC/5	5:34 AM E	от⊽			
26	Planetary Launch Period (23 Days)							Sat 10/1	16 - Sun	11/7 🗸 👘			
27	Post Launch Assessment Review (PLAR)									TBC - Tue	s 11/30	$\overline{\mathbf{v}}$	

Road To Schedules

Item		2021											
No.	Review Name	F	м	А	м	J	J	А	S	0	N	D	
1	PER		28 7 14 21 : Jes 2/16 -			30 0 13 20 2	7 4 11 18 26	1 8 16 22	29 6 12 19 20	3 10 17 24	31 7 14 21	28 6	
1		• II	1	1 nurs 2/1 3/12 - Sat	-							\vdash	
	Perform S/C Modal Survey Perform S/C Acoustic Test			i 3/19 - Sat								\vdash	
3	Perform S/C Acoustic Test		V FI		- Mon 4/							\vdash	
4						12 - Fri 4/30	ļ					\vdash	
5	Perform S/C EMI/EMC/Self Compat/Plugs Out Test			•		1			0(7.4.3			\vdash	
_	Perform TVAC Testing on S/C (24/7 throughout)				▼ i nu	5/13 (LIπ		· ·	on 6/7 (Lift		nam ber)	\vdash	
7	Friends & Family Day at LM	_					∇Fri 7/		<u> </u>	_		\vdash	
8	S/C PSR (Pre-Ship Review)							1	Thurs 7/2	22		\vdash	
9	S/C Ship to /							Friday 7				\vdash	
10	FOR/ORR							* • • • • •	8/10 - Th	urs 8/12		\vdash	
11	FOR/ORR SRB Snapshot Review (One Pager)							*	n 8/16			\vdash	
12	KDP-E Code 400 Review								Tues 8/24			\square	
13	KDP-E CMC Review (MRR)		an	nn				,	Wed 8/25			\vdash	
14	Safety & Mission Success Review (SMSR)		uп	μμ		M	on 9/13 (1	-				\vdash	
15	HQ Pre-Launch Press Conference	_						TBC - Fri				\vdash	
16	LVOS (Launch Vehicle On Stand)								9/17▽			\vdash	
17	Media Day								on 9/27 🗸			\square	
18	KDP-E DPMC Review (MRB)					Tues	9/28 (1:30		MEDT)			\square	
19	Transport S/C to VIF, S/C Mate to LV								Thurs 10/7			\square	
20	Flight Readiness Review (FRR)							TB	C - Fri 10/8			\square	
21	Mission Dress Rehearsal (MDR)								Tues 10/1			\square	
22	Launch Readiness Review (LRR)								- Wed 10/			Ш	
23	KSC Pre-Launch Press Conference	_						TBC	- Wed 10/				
24	LV Roll Out to Pad	_							Thurs 10/			\square	
25	Lucy Launch				Sat	10/16 @	approx 9		5:34 AM E			\square	
26	Planetary Launch Period (23 Days)							Sat 10/	16 - Sun 1				
27	Post Launch Assessment Review (PLAR)								1	FBC - Tue	es 11/30 ⁵	7	

- Required MSR/DSR Chart
- Hand-Drawn
- Time Consuming (For me)

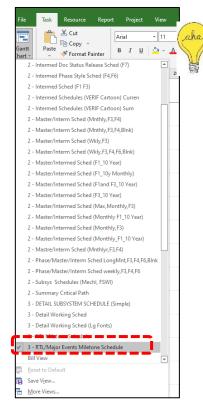
Why are we still doing it like this?



More Views		×
<u>V</u> iews:		
2 - Subsys Schedules (Mechl, FSWI) 2 - Summary Critical Path	^	<u>N</u> ew
3 - DETAIL SUBSYSTEM SCHEDULE (Simple)		Edit
3 - Detail Working Sched 3 - Detail Working Sched (Lg Fonts)		
3 - RTL Miletone Schedule 3 - RTL/Major Events Miletone Schedule		<u>C</u> opy
Bar Rollup Bill View		Organizer
Calendar		
Critical Tools 5 Update View 16.0	~	
Next Pages	oly	Cancel

Road To Schedules

^ <u>N</u> ew		More Filters	× aha
ole) <u>E</u> dit		<u>F</u> ilters:	
		All Tasks 0 - CRITICAL MILESTONE CHART	∧ <u>N</u> ew
e <u>C</u> opy		0 - Critical Path 0 - Critical Path (Del Chart)	<u>E</u> dit
<u>O</u> rganize		0 - Giver/Recver List 0 - IMS Fin Finder	<u>С</u> ору
*	CH MARKET	0 - Mapquest 0 - Master/Intermed/Sched Code	Organizer
Appl <u>y</u> Cancel		0 - Master/Intermed/Sched Code (2 Items) 0 - Phase	Help
		0 - Phase Listing 0 - Schedule Code Filter	<u>n</u> eip
		0 - Schedules to Go 0 - The Kendall	v
		Highlight Ap	ply Cancel
	More Tables	×	
Contraction of the			
	Tables: Task OResource		
A CONTRACTOR OF THE OWNER	0 - Cost Sched ViewSubsystem Del Trend	<u>N</u> ew	
	0 - Critical Milestone Chart 0 - Intermediate/Master Builder		
	0 - L9 Current Milestone Chart 0 - Verif Cartoon	<u>E</u> dit	
	2 - Doc Summary Schedule	<u>C</u> opy	
No Belle Day	3 - Detail Schedule		
	3 - Detail Schedule (Baseline fix) 3 - Detail Schedule (Basic)	<u>O</u> rganizer	
	3 - Detail Schedule (GA Procurement chart)		
	3 - Detail Schedule (IMS Dump)		
	Apply	Cancel	

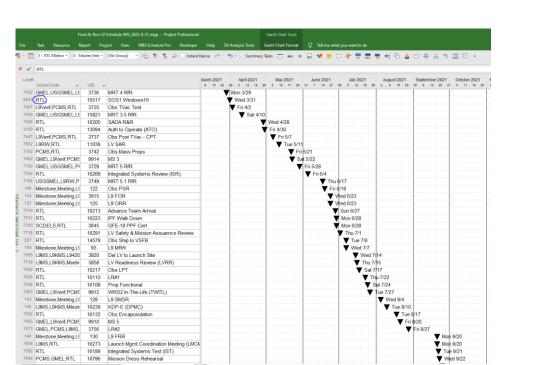




Road To Schedules

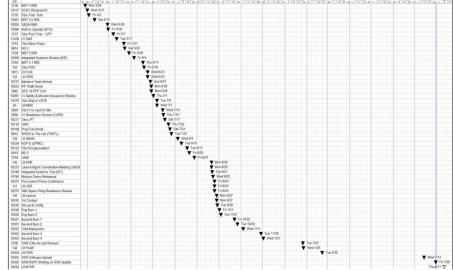
0 - Master/Intermed/Sched Code	×
Enter Sched Code	ОК
	Cancel
· · · · · ·	Defail De

Abracadabra!!!





- Road to ITHR/MTHR Executive Summary Status: 7/31/22



Road To Schedules

		Road		THR/N			xec	utiv	e Su	mma	ary		
UD 3736 MRT 4 R/R	21 April 2021 May 2021 21 29 1 1 22 19 28 3 10 17 24 3 ▼ Mon 3/29	June 2021 July 2021	August 2021 5	eptember 2021 Odober 2021	November 2021 8 1 8 16 22	December 2021	January 2022	February 2022	1 14 21 28 4 1	2022 May 2022 18 21 2 9 16 2	June 2022	July 2022 A	August
5517 SOS1 Windows10	Wed 3/31												
735 Obs TVac Test	Fn 4/2												
821 MRT 3.5 RfR	▼ Sat 4/10												
205 SADA R&R	▼ Wed 4/28												
8094 Auth to Operate (ATO)	▼ Fn 4/30												
737 Obs Post TVac - CPT	▼ Fri 5/7												
039 LV SAR	▼ Tue 5/11												
742 Obs Mass Props	V Fn 5	21											
014 MS 3	▼ Sat												
29 MRT 5 RfR		Fn 5/28											
269 Integrated Systems Review (ISR)		Fn 6/4											
749 MRT 5.1 R/R		Thu 6/17											
122 Obs PSR		▼ Fn 6/18											
915 L9 FOR		Vied 6/23											
25 L9 ORR		Wed 6/23											
213 Advance Team Arrival		V Sun 6/27											
223 IPF Walk Down		V Mon 6/28											
H5 GFE-18 PPF Cert		V Mon 6/28											
291 LV Safety & Mission Assuance Review		▼ Thu 7/1											
579 Obs Ship to VSFB		▼ Tue 7/6											
3 L9 MRR		Ved 7/7											
20 Del LV to Launch Site		Ved 7											
858 LV Readiness Review (LVRR)		Thu 7											
217 Obs LPT		V Sat i						1111					
110 LR#1			nu 7/22										
109 Prop Functional			sat 7/24										
912 WRS2 In-The-Life (TWITL)		V	Tue 7/27										
28 L9 SMSR			Ved 8/4										
239 KDP-E (DPMC)			▼ Tue 8/10										
132 Obs Encapusulation			▼ Tue 8/1										
10 MS 5			▼ Fn 8/										
56 LR#2			▼ Fi	ri 8/27	Lat La								
30 L9 FRR				V Mon 9/20									
273 Launch Mgmt Coordination Meeting (LMCM				V Mon 9/20									
189 Integrated Systems Test (IST)				Tue 9/21									
796 Mission Dress Rehearsal				Ved 9/22									
272 Pre-Launch Press Conference				▼ Fri 9/24									
31 L9 LRR				¥ Fri 9/24									
275 30th Space Wing Readness Review				▼ Fn 9/24									
36 L9 Launch				V Mon 9/27									
243 1st Contact				Mon 9/27									
245 Set-up & Config				Tue 9/28									
246 Eng Burn 1				Fn 10/1 Sun 10/3									
250 Eng Burn 2					5- 10/22								
51 Ascend Burn 1					Fn 10/22 Tue 10/26								
01 Ascend Burn 2 52 Orbit Maneuvers					Wed 11/3								
252 Orbit Maneuvers 302 Ascend Burn 3						Sun 11/28		1					
						Wed 12/1							
303 Ascend Burn 4 700 OAR (Obs Accept Review)						wed 12/1		ue 1/25					
38 L9 PLAR								Ved 1/25					
38 L9 PLAK 304 L9 ITHR								Tue:	202				
1304 LBTTHR 1305 SSR Software Upload								V TOE	area.			▼ Wed 7/13	
305 SSR Somware Upload 306 SRB/GSRT Briefing on SSR Update												▼ weg ris ▼ Fr	
138 L9 MTHR								1.				Thu 8/11	

Code the lines that make up "Road To" schedule (RTL: Road to Launch)

Sort by finish Date

Add Commets if required

Go!



The Road To MPDR, MCDR, Etc



The Road To MPDR, MCDR, Etc

Milestones Pro Chart not linked to Project

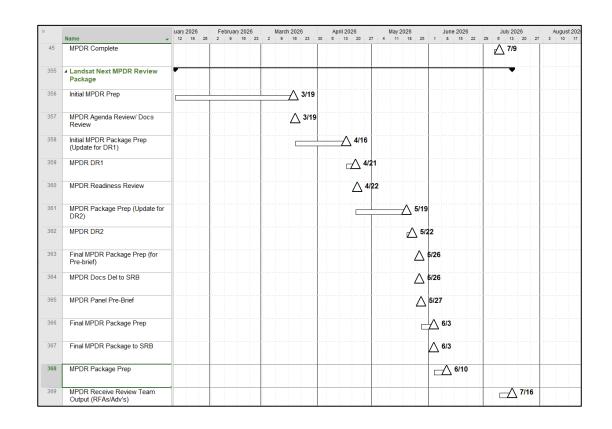
Hand created by a scheduler after DPM rushes in with a special request.

Takes a life of its own

						Status	Date: July 6, 2017
Item		Start Date				2017	
No.				June	July	August	September
1	Chart Kickoff	7/6/17	7/6/17		A 7/6		
2	Chart Development	7/6/17	8/30/17	1	7/6 🛕		8/30
3	Section 4.0: Science Charts Due (COB)	8/7/17	8/7/17			8/7	
4	Section 6.0: SMA Charts Due (COB)	8/7/17	8/7/17			8/7	
5	Section 10.0: Launch Vehicle Charts Due (COB)	8/7/17	8/7/17			8/7	
6	Science and SMA and LV Dry Run	8/9/17	8/9/17			8/9	
7	Section 7.0 Charts Due (COB)	8/8/17	8/8/17			8/8	
8	Section 8. Charts Due (COB)	8/8/17	8/8/17			8/8	
9	and Dry Run	8/10/17	8/10/17			8/10	
10	Section 11.0: Ground Systems Charts Due (COB)	8/10/17	8/10/17			A 8/10	
11	Section 12.0: Mission Test & Ops Readiness Charts Due (COB)	8/10/17	8/10/17			8/10	
12	Mission Test/Ops & Ground Systems Dry Run	8/14/17	8/14/17			🔷 8/14	
13	Readiness Assessment Telecon	8/11/17	8/11/17			8/11	
14	Section 5.0: Mission Systems Charts Due (COB)	8/11/17	8/11/17			8/11	
15	Mission Systems Dry Run	8/15/17	8/15/17		-	8/15	
16	Section 14.0: Resources Charts Due (COB)	8/14/17	8/14/17			8/14	
17	Section 3.0 & 13.0: Project Management Charts Due (COB)	8/14/17	8/14/17			8/14	
18	Resource and Project Management Dry Run	8/16/17	8/16/17			◆ 8/16	
19	Section 9.0: SC Charts Due (COB)	8/15/17	8/15/17	🔺 Ch	art Kickoff/Due date	A 8/15	
20	SC Dry Run	8/17/17	8/17/17	Dŋ	y Run Date	♦ 8/17	
21	Semi Dress Rehearsal	8/22/17	8/24/17	🔺 Se	mi Dress Rehearsal	8/22 🥂 8/2	4
22	Final/Current Status Update/Due COB	8/30/17	8/30/17	🔺 Fin	al Chart Update		8/30
23	Chart Proof/Review	8/31/17	8/31/17	🔺 Inte	ernal Actions		8/31
24	Charts to SRB	9/1/17	9/1/17	🔺 Rea	adiness Assessment	Telecon	9/1
25	Print	9/7/17	9/7/17				9 /7
26	MPDR	9/12/17	9/15/17				9/12 🚺 9/15

Save your time and use the MS project tool

- Simple Bar Styles set up and ready to go.
- Modifying the chart requires adding or deleting "MPDR" in the Text30 Field
- (Master or Intermediate Code Field)



The Road To MPDR, MCDR, Etc

- Set up Template for each Review in the IMS and add appropriate code in the Text30 Field SRR, MPDR, MCDR Etc...

Line#	UID 🗸	Sched Code	Name	▼ % ▼ [Dur 🗸	Strt 🗸	Fin -	SONDJE	2022 M A MULULAIS O N I	DJEM	2023	2024	SONDJEN	2025	2026 DNDJFMAMJJASC	2027
335		Doc,MCR	MCR+ Prep	100%	4d	10/5/22	10/11/22		10/11 🔺 1							
336	7981	Doc,MCR	MCR+ Dry-Run	100%	1d	10/12/22	10/12/22	-	10/12 🔺 1	00%						
337	7982	Doc,MCR	MCR+ Package Update	100%	2d	10/13/22	10/14/22	-	10/14 🔺 1	00%		•••••••••••••••••••••••••••••••••••••••				
338	7980	Doc,MCR	MCR+ Package Submittal to GSRT	100%	1d	10/17/22	10/17/22	-	10/17 🚺 1	100%						
339	7983	Doc,MCR	MCR+ Package Walk-on Updates	100%	2d	10/18/22	10/19/22	-	10/19 🚺 1	100%						
340	2525	DOCI, SRR SDR	SRRSDR Review Package	0%	113d	6/18/24	11/29/24	-				• • •	•		••••••	·····
341	2623	Doc,SRRSDR	Initial SRR/MDR Prep	0%	45d	6/18/24	8/22/24	-		•••••••••••••••••••••••••••••••••••••••			8/22			
342	2622	Doc,SRRSDR	SRR/MDR Agenda Review/ Docs Review	0%	1d	8/22/24	8/22/24	-					8/22		• • • • • • • • • • • • • • • • • • • •	
343	2621	Doc,SRRSDR	Initial SRR/MDR Package Prep (Update for DR1)	0%	20d	8/23/24	9/20/24	-					9/20			
344	2620	Doc,SRRSDR	SRR/MDR DR1	0%	3d	9/23/24	9/25/24	-					<u>9/25</u>			
345	6597	Doc,SRRSDR	SRR/MDR Readiness Review	0%	1d	9/26/24	9/26/24	-					<u> </u>			
346	2619	Doc,SRRSDR	SRR/MDR Package Prep (Update for DR2)	0%	20d	9/26/24	10/24/24	-					10/24		• • • • • • • • • • • • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·
347	2618	Doc,SRRSDR	SRR/MDR DR2	0%	3d	10/25/24	10/29/24	-					10/29			
348	2617	Doc,SRRSDR	Final SRR/MDR Package Prep (for Pre-brief)	0%	1d	10/30/24	10/30/24						<u> </u>			
349	6591	Doc,SRRSDR	SRR/MDR Docs Del to SRB	0%	0d	10/30/24	10/30/24		······································				<u> </u>			
350	2616	Doc,SRRSDR	SRR/MDR Panel Pre-Brief	0%	1d	10/31/24	10/31/24	-					<u> </u>			
351	2615	Doc,SRRSDR	Final SRR/MDR Package Prep	0%	5d	11/1/24	11/7/24						11/7			
352	2614	Doc,SRRSDR	Final SRR/MDR Package to SRB	0%	0d	11/7/24	11/7/24						<u>∆</u> 11/7			
353	1070	Doc,SRRSDR	SRR/MDR Package Prep	0%	5d	11/8/24	11/15/24	-				•••••••••••••••••••••••	A 11/15		• • • • • • • • • • • • • • • • • • • •	
354	961	Doc,SRRSDR	SRR/MDR Receive RFAs/AdVs from Review Team	0%	5d	11/22/24	11/29/24	-					<u>_</u> 11/2	9		
355	2526	DOCI,MPDR	MPDR Review Package	0%	128d	1/13/26	7/16/26	-							· · · · · · · · · · · · · · · · · · ·	
356	2633	Doc,MPDR	Initial MPDR Prep	0%	45d	1/13/26	3/19/26								3/19	
357	2632	Doc,MPDR	MPDR Agenda Review/ Docs Review	0%	1d	3/19/26	3/19/26	-							∆ 3/19	
358	2631	Doc,MPDR	Initial MPDR Package Prep (Update for DR1)	0%	20d	3/20/26	4/16/26								⊿ 4/16	
359	2630	Doc,MPDR	MPDR DR1	0%	3d	4/17/26	4/21/26								△ 4/21	
360	6598	Doc,MPDR	MPDR Readiness Review	0%	1d	4/22/26	4/22/26	-							△ 4/22	
361	2629	Dpc,MPDR	MPDR Package Prep (Update for DR2)	0%	20d	4/22/26	5/19/26								₼ 5/19	
362	2628	Dpc,MPDR	MPDR DR2	0%	3d	5/20/26	5/22/26								5/22	
363	2627	Dpc,MPDR	Final MPDR Package Prep (for Pre-brief)	0%	1d	5/26/26	5/26/26								∆ 5/26	
364	6592	Doc,MPDR	MPDR Docs Del to SRB	0%	0d	5/26/26	5/26/26								5/26	
365	2626	Doc,MPDR	MPDR Panel Pre-Brief	0%	1d	5/27/26	5/27/26								∆ 5/27	
366	2625	Dpc,MPDR	Final MPDR Package Prep	0%	5d	5/28/26	6/3/26								△ 6/3	
367	2624	Doc,MPDR	Final MPDR Package to SRB	0%	0d	6/3/26	6/3/26								6/3	
368	1071	Doc,MPDR	MPDR Package Prep	0%	5d	6/4/26	6/10/26								△ 6/10	
369	976	Doc,MPDR	MPDR Receive Review Team Output (RFAs/Adv/s)	0%	5d	7/10/26	7/16/26								7/1	5
370	7385	DOCI,IBR	IBR Review	0%	118d	4/5/24	9/23/24						▼			
371	7386	Doc,IBR	LandIS IBR - Initial IBR Prep	0%	35d	4/5/24	5/23/24					<u> </u>	3			
372	7387	Doc,IBR	LandIS IBR - IBR Kick-off Meeting	0%	0d	5/23/24	5/23/24					∆ 5/2	3			

Road to MCR

Activity	Start	Finish	November 2021 December 2021 24 31 7 14 21 28 5 12 19 26 2	January 2022 February 2022 March 2022 April 2022 9 16 23 30 6 13 20 27 6 13 20 27 7 8 13 20 27 3 10 17 24
Initial MCR Prep	10/4/21	12/9/21		
MCR Agenda Review/ Docs Review	12/9/21	12/9/21	▲ ^{12/9}	
Initial MCR Package Prep (Update for DR1)	12/10/21	2/7/22		2/7
MCR Dry Run #1	2/8/22	2/9/22		Actual
MCR Readiness Assessment	2/10/22	2/10/22		△ ^{2/10} Example
MCR Docs Due	2/15/22	2/15/22		2/15
MCR Package Prep (Update for DR2)	2/10/22	2/18/22		2/18
MCR Dry Run #2	2/22/22	2/23/22		2/23
Final MCR Package Prep (for Pre-brief)	2/24/22	2/25/22		2/25
MCR Document Del to GSRT	2/25/22	2/25/22		△ 2/25
MCR Panel Pre-Brief	2/28/22	2/28/22		2/28
Final MCR Package Prep	3/1/22	3/3/22		3/3
Final MCR Package to GSRT	3/4/22	3/4/22		△ 3/4
MCR	3/8/22	3/9/22		3/8 🛆 3/9
MCR RFA Close-outs	3/10/22	4/13/22		4/13

Helping the Project with Custom Charts

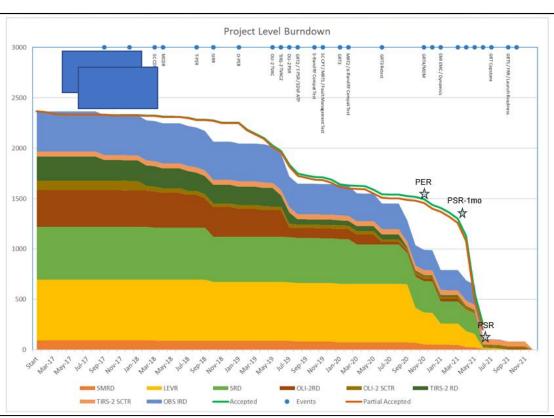
Project Sys Eng -Verification Team

Verification Team Combs through Excel Dumps or PDFs of the Project IMS looking for events that are complete to close out Requirments.

They Chart the progress throughout the life of the project

- A Simple Code in the Text30 field for the Verification Team will save time so the data mining is kept to a minimum.
- Modifying the chart or List requires adding or deleting "Verif" in the Text30 Field
- This code can weed out unnecessary activities allowing the Verification Team to see just the activities that are needed.

Line#	Sched Code 🗸	UID 👻	Name	% 👻	Dur 👻	Start 💂	Finish
2874	L9Verif,PCMS	2592	- Telescope Focus Test 1-3 Stray Light & Eval	100%	52d	9/7/17	11/21
843	L9Verif,PCMS	727	FSW - FQT	100%	3d	12/4/17	12/6
2879	L9Verif,PCMS	10457	TVac Testing	100%	10d	1/26/18	2/4/
5162	L9Verif,PCMS	9537	OPS-2: On-Orbit Commissioning Plan - Rev-	100%	0d	2/16/18	2/16
5056	L9Verif,PCMS	9652	MA 4-3: FMEA/FMECA & Critical Items List - Final (RevA)	100%	0d	2/28/18	2/28
4938	Milestone, Meeting, L9MS, L9KMS, L9Verif, SCDELS, L9KMS, L9420, P	2691	S/C CDR (2/26-3/1/18) .	100%	4d	2/26/18	3/1/
2883	L9Verif,PCMS	10466	TVac Testing	100%	3d	2/28/18	3/2/
915	L9Verif,PCMS	797	Fit ISE I&T - Post Tvac Func Test/MRB	100%	25d	2/19/18	3/23
1482	L9Verif,PCMS	1582	Instr I/F Simulator - Test & Cert (OIS)	100%	3d	4/16/18	4/18
1496	L9Verif,PCMS	10095	Instr Simulator - Test & Cert (OS)	100%	3d	4/16/18	4/18
2819	L9Verif,PCMS	2561	VF Sim - Test & Cert	100%	15d	4/16/18	5/4/
1860	Milestone, Meeting, L9MS, L9KMS, L9Verif, L9420, L9RW, PCMS	1648	2 - PER (8/7/18)	100%	2d	8/7/18	8/8/
2829	L9Verif,PCMS	2569	Instr Sim - Test & Cert	100%	10d	8/9/18	8/22
1767	L9Verif,L9RW,PCMS	1532	I&T - Instr I&T Perf Test - Spatial Perf Test (7d cal)	100%	6d	8/31/18	9/10
1665	L9Verif,PCMS	1449	AI&T GSE - New EGSE - Test & Cert for use	100%	4d	9/25/18	9/28
4941	Meeting,L9MS,L9KMS,L9Verif,L9420,L9RW,PCMS	2695	S/C SIRR (10/10/18)	100%	1d	10/10/18	10/1
6701	L9Verif,PCMS	3771	Del S/C I&T Capex S/C I&T Rack to S/C I&T .	100%	0d	11/8/18	11/8
2944	L9Verif,PCMS	2647	- Enviro Test - EMVEMC Test	100%	9d	11/6/18	11/1
6912	L9Verif,PCMS	3785	SoftSim - ATP	100%	3d	11/19/18	11/2
5026	L9Verif,PCMS	9617	SC-10: Storage, Transportation & Handling Plan - Initial	100%	0d	12/3/18	12/3
5059	L9Verif	16070	MA 4-3: FMEA/FMECA & Critical Items List - Update (RevD)	100%	44d	10/11/18	12/1
2889	TIRSI,L9Verif	2597	- Elec Pallet Integ	100%	205d	3/6/18	12/2
1783	L9Verif	1537	Calibration Testing	100%	99d	10/5/18	1/1
1793	LVERIF	1540	- Calibration Testing - CATS Spectral Testing (7d cal)	100%	10d	11/13/18	11/2



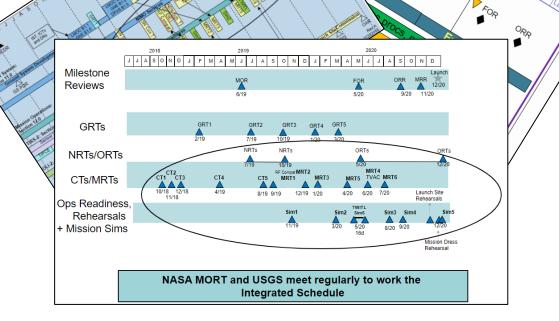
Project Sys Eng - Documentation Status



DID	Doc Number	Level	Document Name		2022	- 20		- 2	- 22					58		- 80			632	2023	5			200		
				December 1 - 1 - 1 - 1 - 0	Taning and a last	7 120 1 1 12 17	A Jat I S 112	10/10/10/	winter	the links	Inta ly	alula 11	In ly ha	august ril 7 Dala	Tan 1 4 122 12	20 22 2 2 1	o is all	Provencer 20 1 1 1 1 20	December 177 4 11 12	in 117	a alat	February 1	ALL STATIST	121212	lista la	In Inday
96	YS-PLAN-0007	Level 2	Mission Operations Concept		1.1	to CM	A & Deleas	100												2						
346	YS-PLAN-????	Level 2	Constellation Operations Concept		Submit t	to CM	Releas	se Driver (MCF	CR)																	Π
14	1YS-REQ-0002	Level 2	ssion Requirements Document		Ma	ature Draft	3/7	Re river (MC	R) Z	& Release																
540	TBD	Level 2	ence Case (DRC-18)				1 TO FAIL	Submit to C	CM A	Draft Lan		Review & Re	telease													
544	TBD	Level 2	eference System-3 (WRS-3) Definition				Si	Submit to C	CM A	(Draft Lan		FP) view & Reid	lease 5/2	27												
120	NDIS-REQ-0007	Level 3	nent Requirements Document (LaRD)			Su	iomit to Cf		eview & R	Release	Driver ((Draft Land	idis RFP	2												
738	YS-REQ-0005	Level 3	nmental Requirements Doc (LNERD)						Driver (r (Draft Lan	and IS REE	FP) teview & Re														
548	YS-REQ-0009	Level 3	Environments Requirements Document			Su	upenit to CN		eview & R	Retease	Driver ((Draft Land	ndis RFP	4												
1662	NDIS-REQ-0010	Level 3	nent Simulator Requirements andIS Sim RD)			Submit to	CM A			5/19	Driver ((Draft Land	ndis RFP	2												
2591	NDIS-ICD-0001	Level 3	nent Interface Requirements Document				Subry	hit to CM	ATIS	view & Rel	lease Driver ((Draft Land	ndis RFP	2												
820	SC-REQ-0011	Level 3	araft Requirementa Document (SC RD)											Su	bmit to CN		Review (Release						Driver	r (Draft 5	1.000
5557	SC-ICD-0002	Level 3	raft Interface Requirements Document										Subri	y Sul mit to CM Subr	A Revie	9/29	lease								4/28	SIC REO
5552	9C-REQ-0012	Level 3	araft Simulator Requirements C Sim RD)												0.30	Size	lease								r (Draft S	SIC RFO
116	38-REQ-0008	Level 3	d System Requirements Document										S/C S	Study Aw Q3/22							Su	bmit to C	CM (TBD)	Review 3/31	N & Reic	ase (TE
5814	-LS-ICD-0003	Level 3	n System Interface Requirements													Sut	bmit to C	M (TBD)	Review &		(TBD)					
1750	YS-DESC-0003		cal Math Model Definitions				Subm	nit to CM		18 A Rel 5/19	lease Driver ((Draft Land	idis RFP	}												
5863	YS-DESC-0004			Su	abmit to CM	Review	8 Releas	se .		P 10	Driver ((Draft Land	1.4.4.4													
5867	YS-DESC-0009		ent & Pointing Budget												Sut	bmit to C	™	Review &						Driver	r (Draft S	IC RFO

Mission Readiness Schedules

Various Subsystem Teams – Will hand draw schedules for various reviews and often time the dates are stale or old.



Ops Dev

LMOC

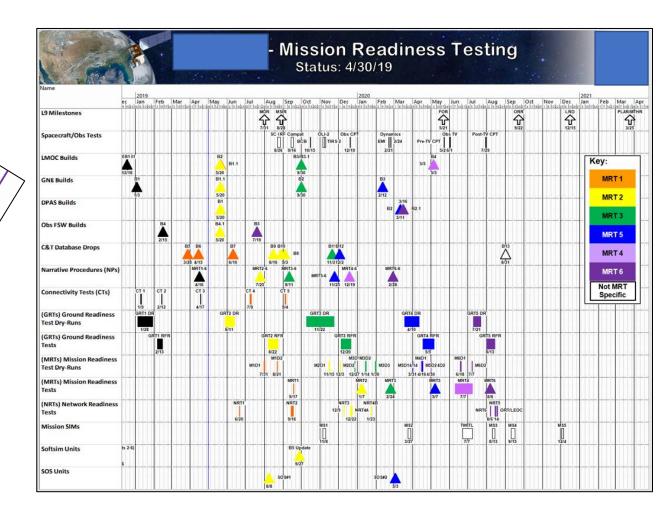
LMOC R3

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LMOC RT

- A Simple Code in the Text30
- A view & Filter set up

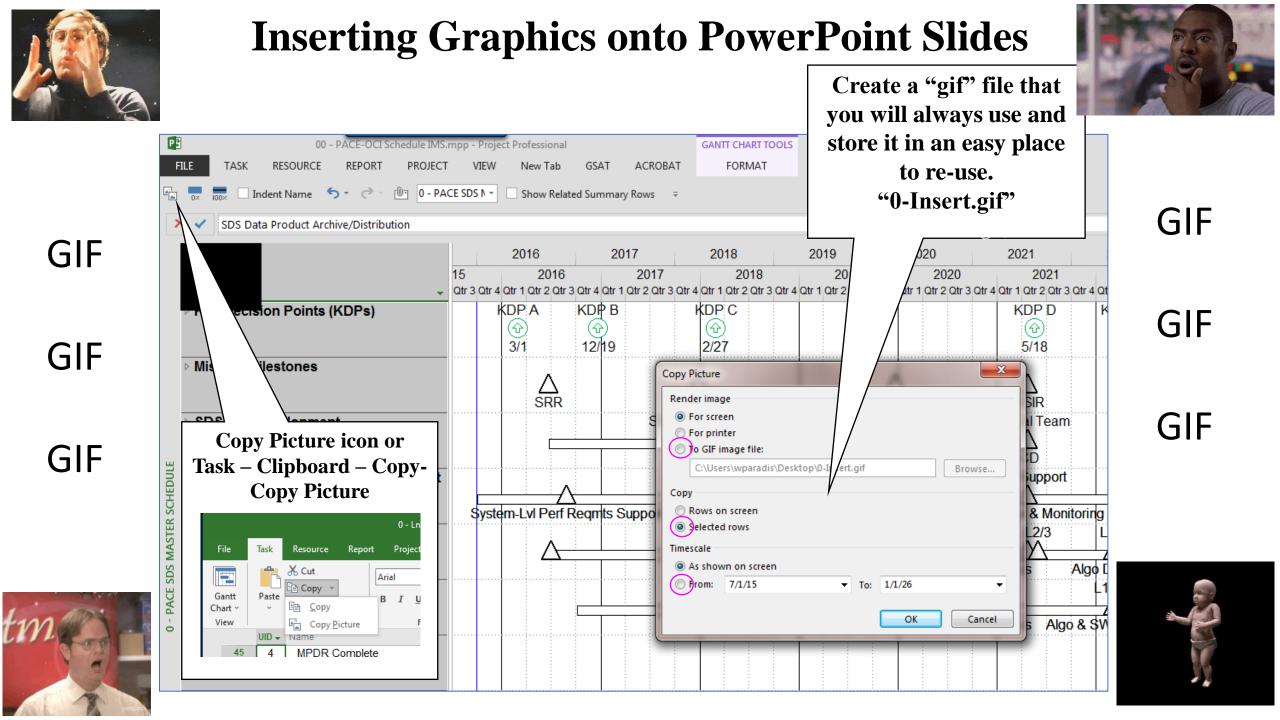






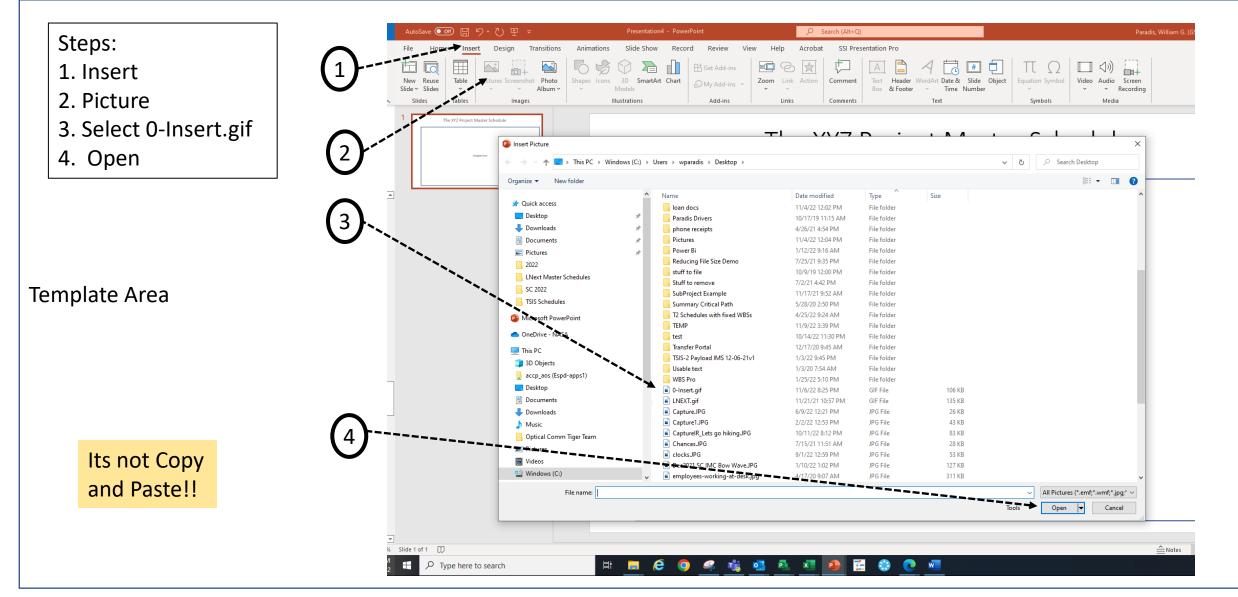
Inserting Graphics onto PowerPoint Slides





Inserting Graphics onto PowerPoint Slides

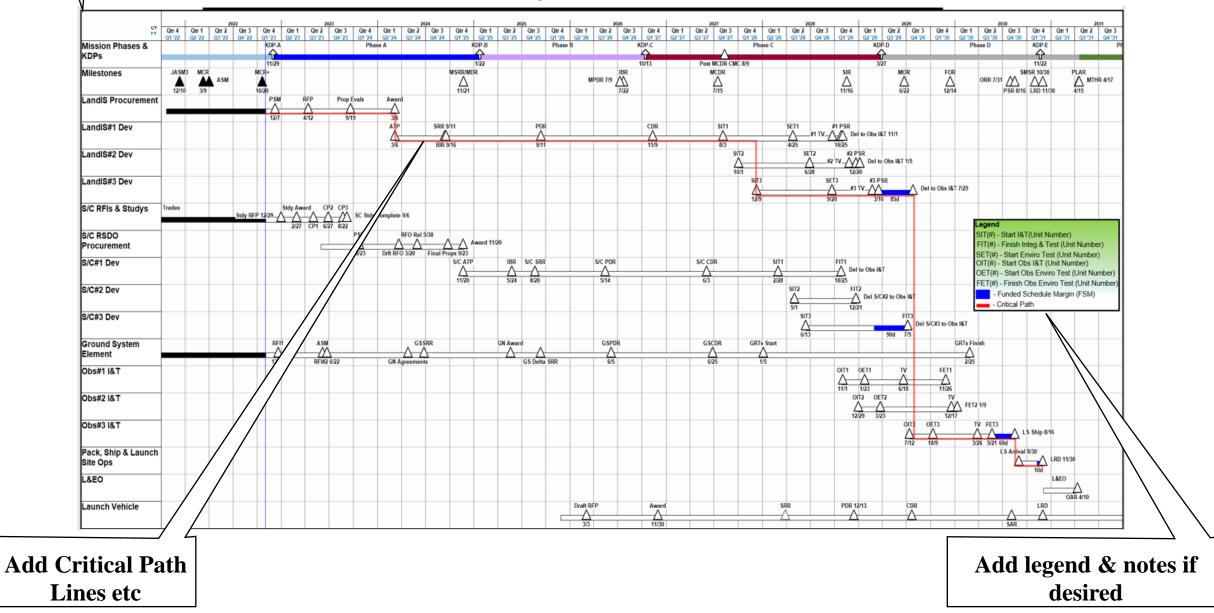
The XYZ Project Master Schedule



Resize to Suit

Inserting Graphics onto PowerPoint Slides

The XYZ Project Master Schedule



Questions & Comments

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"Getting More" Out of the MS Project IMS

