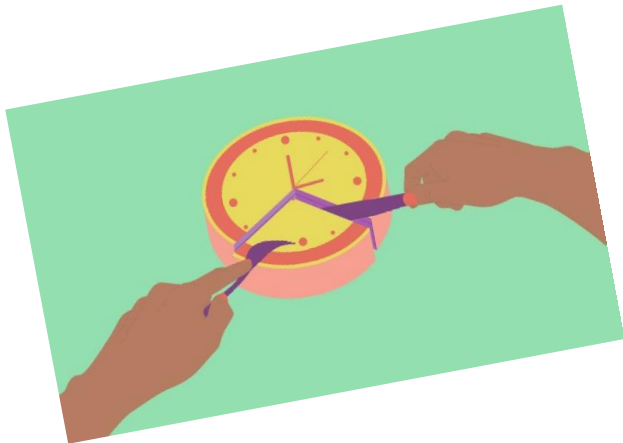




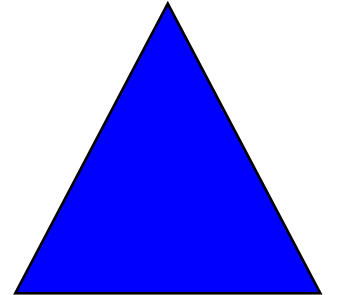
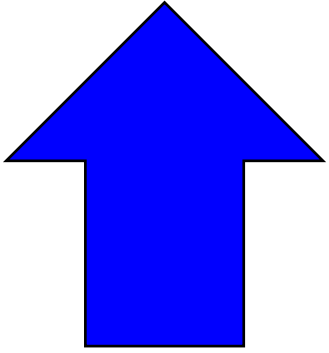
“Getting More” Out of the MS Project IMS



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

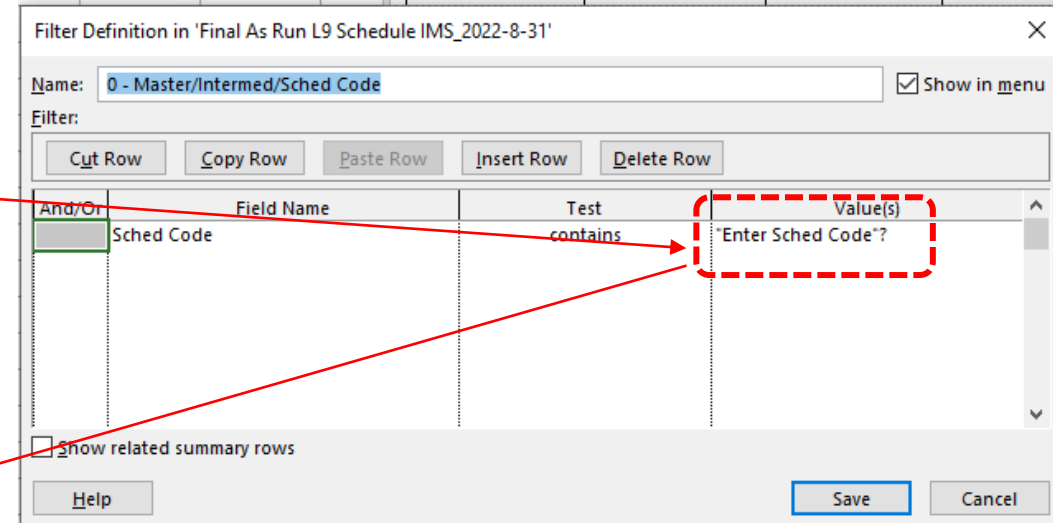
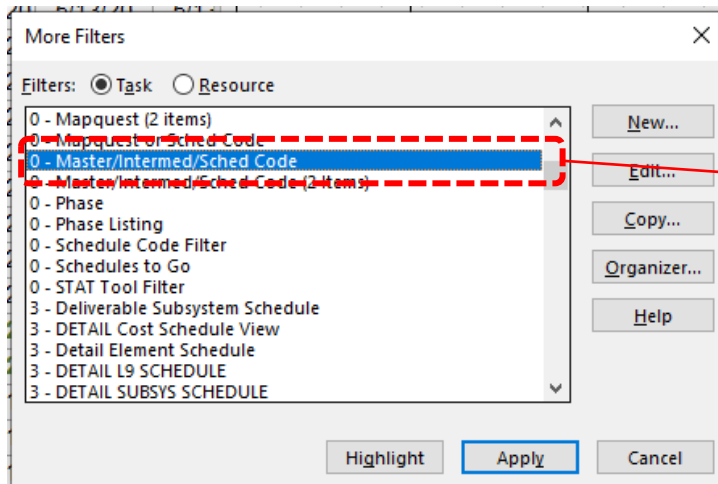


Before We Go - MS Project Filter

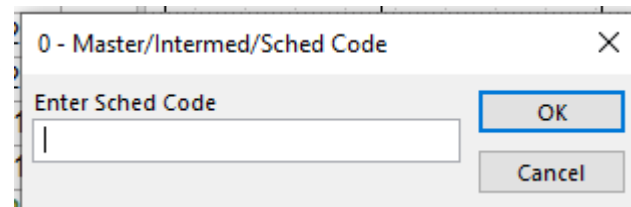
Almost all products shown today comes from Codes Stored in the "Text30" (Sched Code) Field



Reference
Symbol

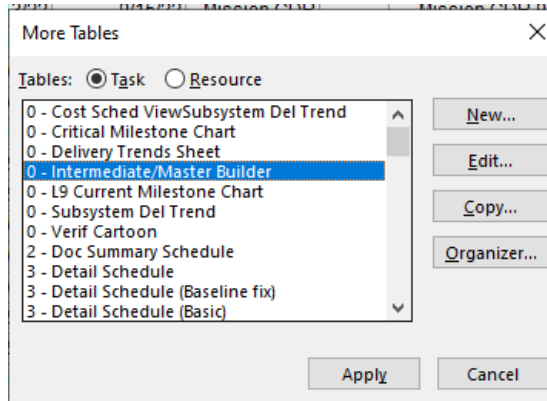


"Text"? - Provides a user interface that will request user to enter a string of text



Before We Go - MS Project Tables

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



Reference
Symbol

Text30

Name

Text1

Finish3

Text26

Text27

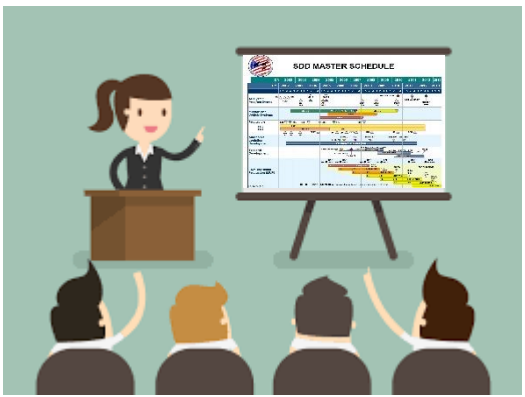
Text25

Flag Fields

	Sched Code		Sort	Start	Finish	Shade Bar	Start1	Finish1	LT	LB	Multi-Text	Rollup	Flag2	Flag3	Flag5	Flag7	Flag8
94	T2MS	Phase E (wLRD)	4	10/8/24	9/7/27	NA	4/22/25	3/21/28	Phase E		Phase E 9/7	Yes	Yes	No	No	No	No
95		Phase D (MA LRD)		8/29/23	4/9/25	NA	NA	NA	Phase D		Phase D 4/9	Yes	Yes	No	No	No	No
96		KDP-E (MA LRD)		2/5/25	2/6/25	NA	NA	NA	KDP-E		KDP-E 2/6	Yes	No	No	Yes	No	No
97		Phase E (MA LRD)		4/10/25	3/9/28	NA	NA	NA			3/9	Yes	Yes	No	No	No	No
98	Master,T2II,BUSI,GSI	T2 Milestones	0	10/29/19	4/9/25	NA	10/29/19	10/16/24				Yes	No	No	No	No	No
99	T2PCM,T2MS,Milestone,Code400	Mission SRR/MDR	2	10/29/19	10/30/19	NA	10/29/19	10/30/19	sion SRR/MDR		sion SRR/MDR 10/30	Yes	No	Yes	No	No	No
100	Docs	MPDR Docs		5/28/21	5/28/21	NA	5/28/21	5/28/21			5/28	No	No	No	No	No	No
101	T2PCM,T2MS,Milestone,Code400	Mission PDR (MPDR)	2	6/2/21	6/4/21	NA	6/2/21	6/4/21	Mission PDR		Mission PDR 6/4	Yes	No	Yes	No	No	No
102		MPDR Close-out		8/11/21	5/6/22	NA	8/11/21	5/23/22			5/6	No	No	No	No	No	No
103	Docs,MCDR	MCDR Docs	3	9/15/22	9/15/22	NA	9/1/22	9/1/22			9/15	No	No	No	No	No	No
104	T2PCM,T2MS,Milestone,Code400,	Mission CDR (MCDR)	2	9/13/22	9/15/22	NA	9/13/22	9/15/22	Mission CDR		Mission CDR 9/15	Yes	No	Yes	No	No	No
105		MCDR Close-out		9/16/22	12/8/22	NA	11/16/22	11/16/22			12/8	No	No	No	No	No	No
106	T2MS,Milestone,T2PCM	MOR	14	2/21/23	2/22/23	NA	12/6/22	12/7/22	MOR		MOR 2/22	Yes	No	Yes	No	No	No
107		MOR Close-out		2/22/23	2/22/23	NA	12/7/22	12/7/22			2/22	No	No	No	No	No	No
108		SIR Docs		5/12/23	5/12/23	NA	5/12/23	5/12/23			5/12	No	No	No	No	No	No
109	T2PCM,T2MS,Milestone,Code400,	SIR	2	6/27/23	6/28/23	NA	6/27/23	6/28/23	SIR		SIR 6/28	Yes	No	Yes	No	No	No
110		SIR Close-out		7/7/23	8/3/23	NA	6/29/23	7/26/23			8/3	No	No	No	No	No	No
111		PER Docs		9/13/23	9/13/23	NA	10/3/23	10/3/23			9/13	No	No	No	No	No	No
112	T2PCM,T2MS,Milestone,Code400,	PER	8	9/13/23	9/13/23	NA	10/3/23	10/3/23	PER		PER 9/13	Yes	No	Yes	No	No	No
113		PER Close-out		10/26/23	11/8/23	NA	10/4/23	10/17/23			11/8	No	No	No	No	No	No
114	T2PCM,T2MS,Milestone	FOR	14	1/17/24	1/17/24	NA	1/23/24	1/23/24	FOR		FOR 1/17	Yes	No	Yes	No	No	No
115		FOR Close-out		1/17/24	1/17/24	NA	1/23/24	1/23/24			1/17	No	No	No	No	No	No
116		ORR Docs		5/30/24	5/30/24	NA	10/19/23	10/19/23			5/30	No	No	No	No	No	No



One Charter Schedule



Top Level Schedule

Master & Summary Schedules

Summary Schedule

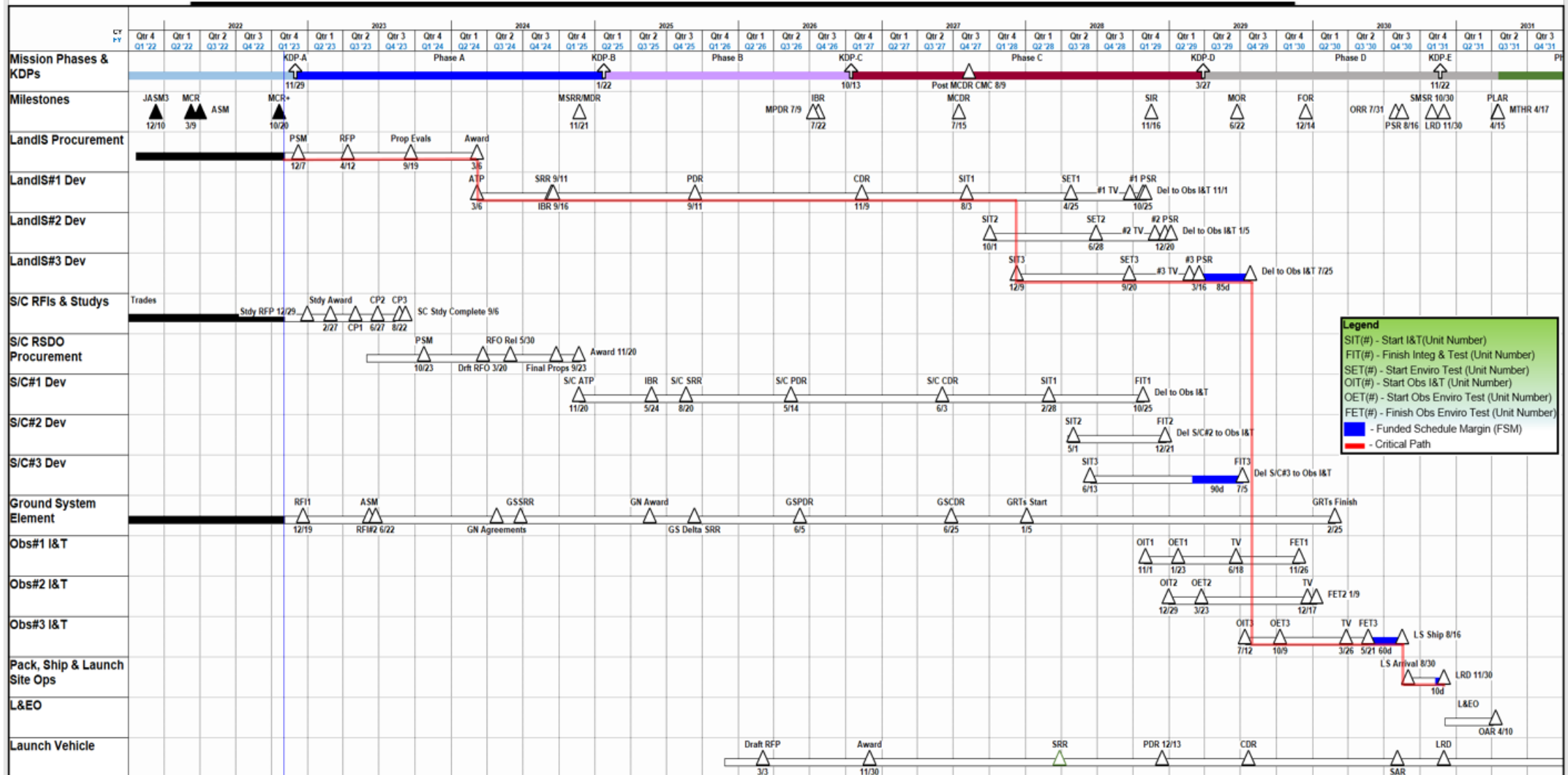


One pager Schedule



Master & Summary Schedules

The XYZ Project Master Schedule



Master & Summary Schedules



More Views

Views:

- 2 - Intermed Phase Style Sched (F4,F6)
- 2 - Intermed Sched (F1 F3)
- 2 - Intermed Schedules (VERIF Cartoon) Curren
- 2 - Intermed Schedules (VERIF Cartoon) Sum
- 2 - Master/Interm Sched (Mnthly,F3,F4)
- 2 - Master/Interm Sched (Mnthly,F3,F4,Blink)
- 2 - Master/Interm Sched (Wkly,F3)
- 2 - Master/Interm Sched (Wkly,F3,F4,F6,Blink)
- 2 - Master/Intermed Sched (F1_10 Year)**
- 2 - Master/Intermed Sched (F1_10y Monthly)
- 2 - Master/Intermed Sched (F1and F3_10 Year)

New... Edit... Copy... Organizer... Apply Cancel

More Filters

Filters: Task Resource

- All Tasks
- 0 - CRITICAL MILESTONE CHART
- 0 - Critical Path
- 0 - Critical Path (Del Chart)
- 0 - Giver/Recver List
- 0 - IMS Fin Finder
- 0 - Mapquest
- 0 - Master/Intermed/Sched Code**
- 0 - Master/Intermed/Sched Code (2 Items)
- 0 - Phase
- 0 - Phase Listing
- 0 - Schedule Code Filter
- 0 - Schedules to Go
- 0 - The Kendall

New... Edit... Copy... Organizer... Help Highlight Apply Cancel



More Tables

Tables: Task Resource

- 0 - Cost Sched ViewSubsystem Del Trend
- 0 - Critical Milestone Chart
- 0 - Intermediate/Master Builder**
- 0 - L9 Current Milestone Chart
- 0 - Verif Cartoon
- 2 - Doc Summary Schedule
- 3 - Detail Schedule
- 3 - Detail Schedule (Baseline fix)
- 3 - Detail Schedule (Basic)
- 3 - Detail Schedule (GA Procurement chart)
- 3 - Detail Schedule (IMS Dump)

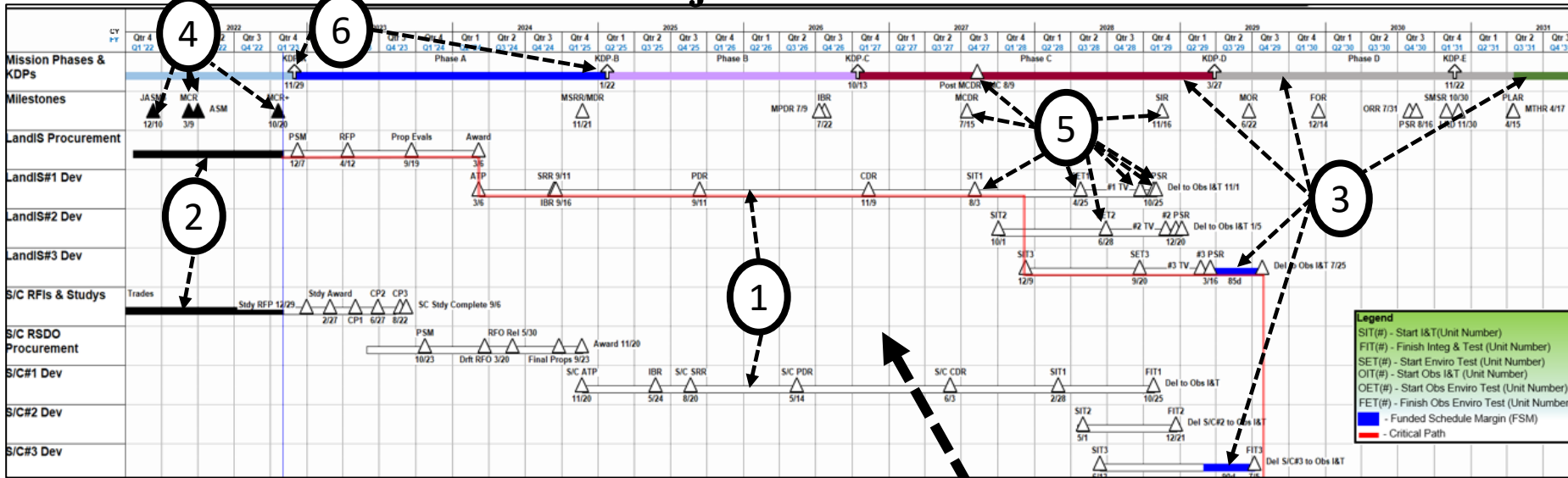
New... Edit... Copy... Organizer... Apply Cancel



Master & Summary Schedules

View/Bar Styles - Bars

The XYZ Project Master Schedule



More Views

Views:

- 2 - Intermed Phase Style Sched (F4,F6)
- 2 - Intermed Sched (F1 F3)
- 2 - Intermed Schedules (VERIF Cartoon) Curren
- 2 - Intermed Schedules (VERIF Cartoon) Sum
- 2 - Master/Interm Sched (Mnthly,F3,F4)
- 2 - Master/Interm Sched (Mnthly,F3,F4,Blink)
- 2 - Master/Interm Sched (Wkly,F3)
- 2 - Master/Interm Sched (Wkly,F3,F4,F6,Blink)
- 2 - Master/Intermed Sched (F1_10 Year)**
- 2 - Master/Intermed Sched (F1_10y Monthly)
- 2 - Master/Intermed Sched (F1and F3_10 Year)

Buttons: New..., Edit..., Copy..., Organizer..., Apply, Cancel



Bar Styles

Buttons: Cut Row, Paste Row, Insert Row

Name	Appearance	Show For ... Tasks	Row	From	To
1		Summary	1	Start1	Finish1
2		Summary,Active,Not Manually Sch	1	Task Start	Finish3
3		Rolled Up,Active,Flag2,Not Manu:	1	Task Start	Task Finish
4		Finished,Rolled Up,Flag1	1	Task Finish	Task Finish
5		Not Finished,Rolled Up,Flag1	1	Task Finish	Task Finish
6		Not Finished,Rolled Up,Flag5	1	Task Finish	Task Finish
		Finished,Rolled Up,Flag5	1	Task Finish	Task Finish

Text: Bars

Start: Shape, Type, Color

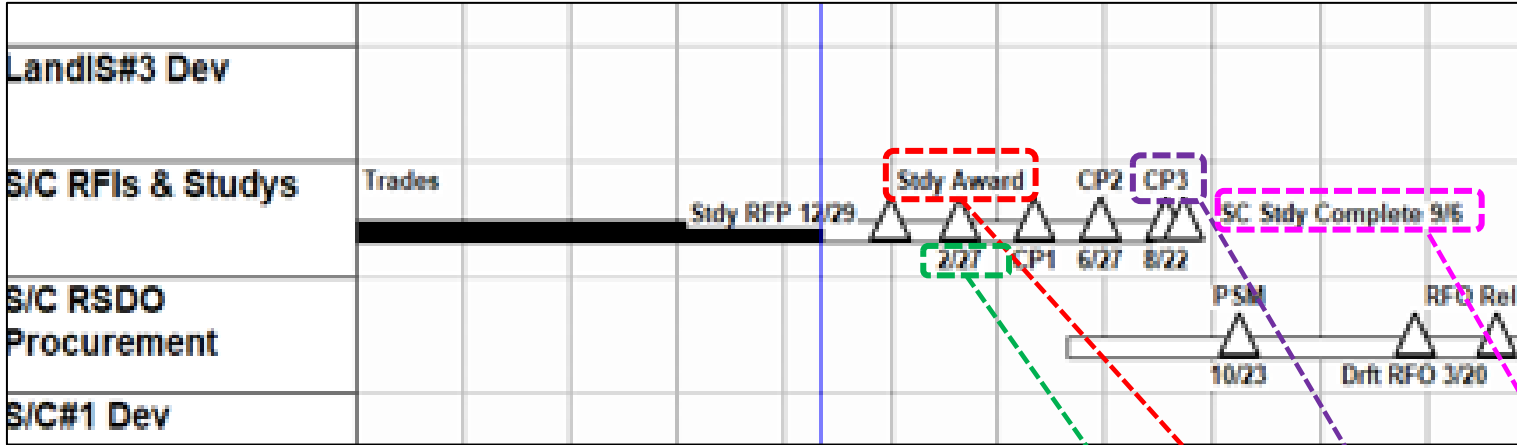
Middle: Shape, Pattern, Color

End: Shape, Type, Color

Master & Summary Schedules

View/Bar Styles - Text

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



Good Information to know

Text25 Customized Field (Formula)

Formula for 'Multi-Label'

Edit formula

Multi-Label =

[Text26] & " " & ProjDateconv([Finish],pjDate_mm_dd)

Buttons: +, -, *, /, &, MOD, \, ^, (,), =, <>, <, >, AND, OR, NOT

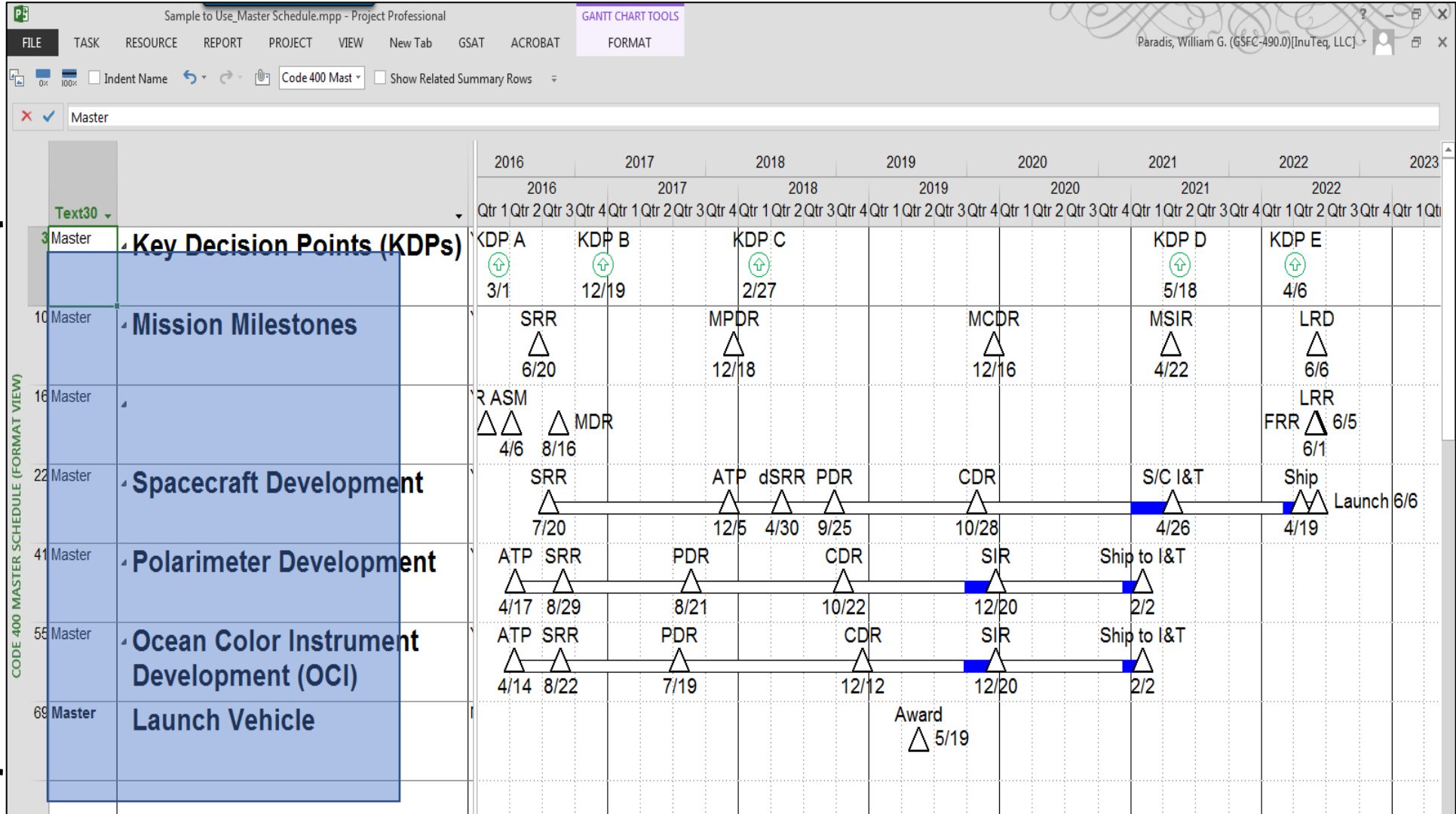
Insert: Field, Function, Import Formula...

Buttons: Help, OK, Cancel

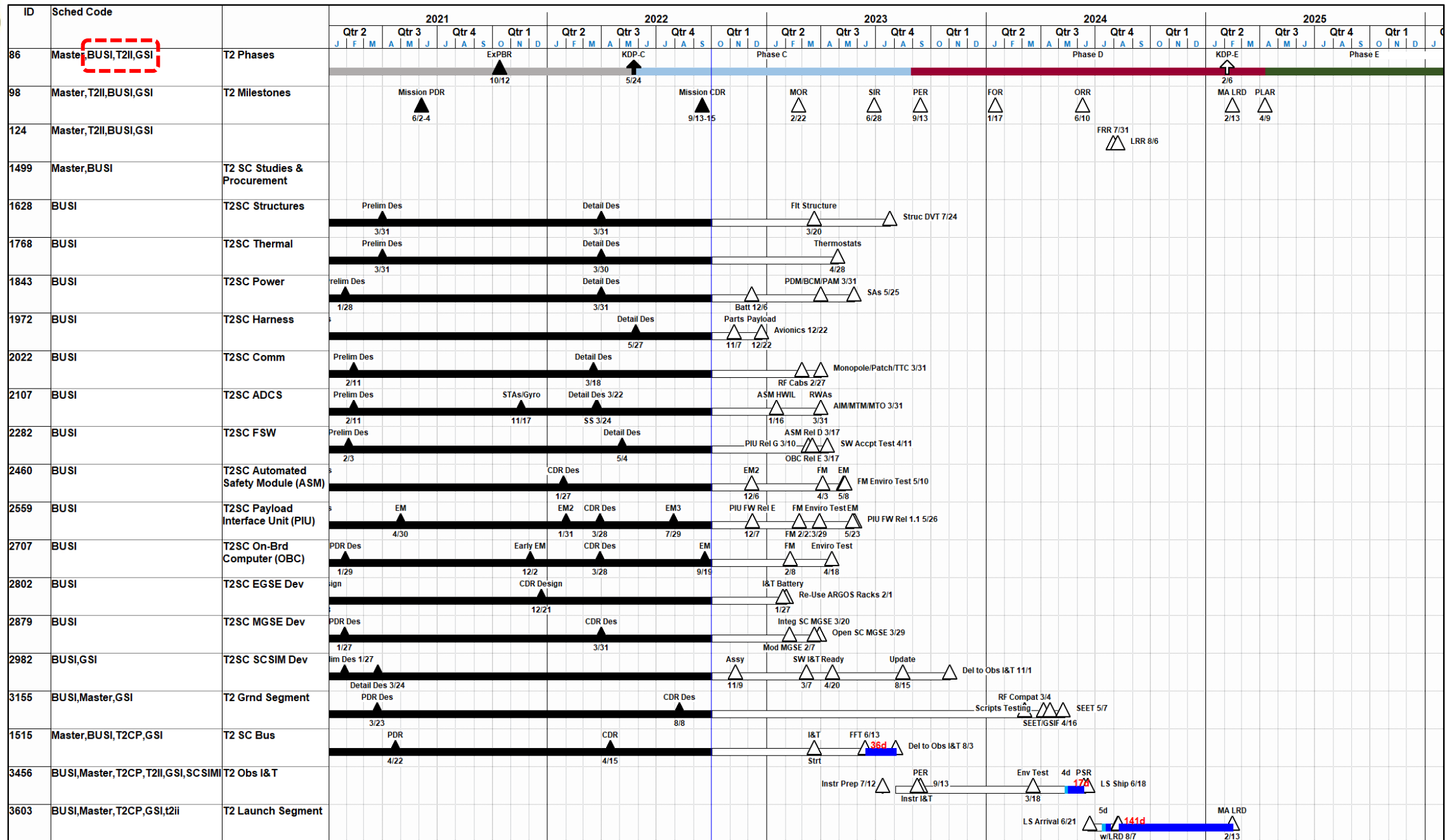
Text26 Text 27 Text25

ID	Sched Code	Task Name	%	Start	Finish	LT	LB	Multi-Label																																													
2166	2166	Master1																																																			
2167	2167	S/C RFIs & Studys	76%	9/28/20	9/6/23																																																
2172	2172	S/C RFI	100%	9/28/20	1/20/21			12/3																																													
2179	2179	S/C Study Internal Review	100%	1/20/21	1/20/21	SC Study Rvw	SC Study Rvw	SC Study Rvw 1/20																																													
2179	2179	S/C Single vs Constell Trade Study	100%	9/28/20	10/12/21			10/12																																													
2181	2181	S/C Study	56%	10/1/21	9/6/23			12/3																																													
2182	2182	DOC,SCPROD																																																			
2182	2182	S/C Study Statement of Work (SOW)	92%	10/1/21	2/7/22			12/3																																													
2183	2183	SCPROCS	100%	10/4/21	10/24/22			10/24																																													
2184	2184	SCPROC	20%	10/25/22	11/30/22			11/30																																													
2185	2185	SCPROC	0%	12/1/22	12/6/22			12/6																																													
2186	2186	SCPROC	0%	12/7/22	12/7/22	Stdy SOW	Stdy SOW	Stdy SOW 12/7																																													
2187	2187	S/C Study RSDO Procurement	0%	12/8/22	2/27/23			12/3																																													
2188	2188	SCPROC	0%	12/8/22	12/29/22			12/29																																													
2189	2189	SCPROCS,LNME	0%	12/29/22	12/29/22	Stdy RFP	Stdy RFP	Stdy RFP 12/29																																													
2190	2190	SCPROC	0%	12/30/22	2/9/23			2/9																																													
2191	2191	SCPROC	0%	2/10/23	2/27/23			2/27																																													
2192	2192	SCPROC	0%	2/27/23	2/27/23	Stdy Award	Stdy Award	Stdy Award 2/27																																													
2193	2193	SCPROC	0%	3/1/23	3/7/23	K/O		K/O 3/7																																													
2194	2194	SCPROCS,SCPROD	0%	3/8/23	4/28/23			4/28																																													
<p>Text Bars</p> <table border="1"> <tr> <td>Left</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Right</td> <td>Multi-Label</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Top</td> <td>LT</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Bottom</td> <td>LB</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Inside</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>									Left									Right	Multi-Label								Top	LT								Bottom	LB								Inside								
Left																																																					
Right	Multi-Label																																																				
Top	LT																																																				
Bottom	LB																																																				
Inside																																																					
5/1/23	5/1/23	CP1						CP1 5/1																																													
5/2/23	6/26/23							6/26																																													
6/27/23	6/27/23	CP2						CP2 6/27																																													
6/28/23	8/21/23							8/21																																													
8/22/23	8/22/23	CP3						CP3 8/22																																													
8/23/23	9/6/23							9/6																																													
9/6/23	9/6/23	SC Study Complete						SC Study Complete 9/6																																													

The Master Schedule - Filter



Master Schedule & Summary Schedules Using MS Project



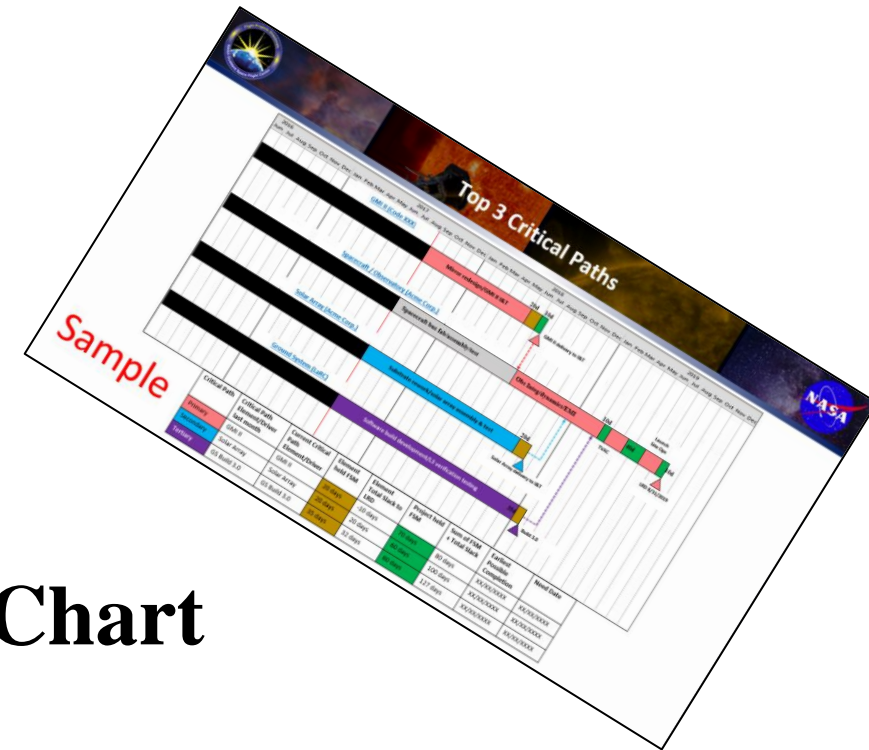
MSR Package Charts

MSR package includes **ONLY** the following charts:

1. Title Page
2. Technical Executive Summary
3. Programmatic Executive Summary
4. Overall Assessment
5. Top 3 Critical Paths
6. Top Risks
7. Top Issues
8. Business Assessment
9. Road to Launch Executive Summary (begins 6 months prior to launch)
10. Hardware Picture or very short video (optional)
11. Project Science Executive Summary
12. Back-Up Title Page
13. Risk Descriptions/Mitigation Status
14. Mission Overview
15. Significant Progress
16. Communication & Public Outreach
17. CMC Action Status
18. COVID-19 Impacts (Spreadsheet)
19. COVID-19 Impacts Summary
20. Milestone Summary
21. Earned Value Management Assessment (2 pages)
22. Business Assessment (Actuals - Obligations)
23. Cost Reserve Status
24. Project Threats
25. PPBE Budget
26. Work Force
27. Master Schedule
28. Funded Schedule Margin
29. Funded Resource Margins
30. Residual Risks (begins 6 months prior to launch)
31. GIDEP Status (begins 6 months prior to launch)
32. Acronym List

All parties are invited to propose improvements to monthly reporting (charts and chart content) but must obtain approval from FPD management prior to implementing.

For NASA Internal Use Only



Summary Critical Path Chart



Critical Path



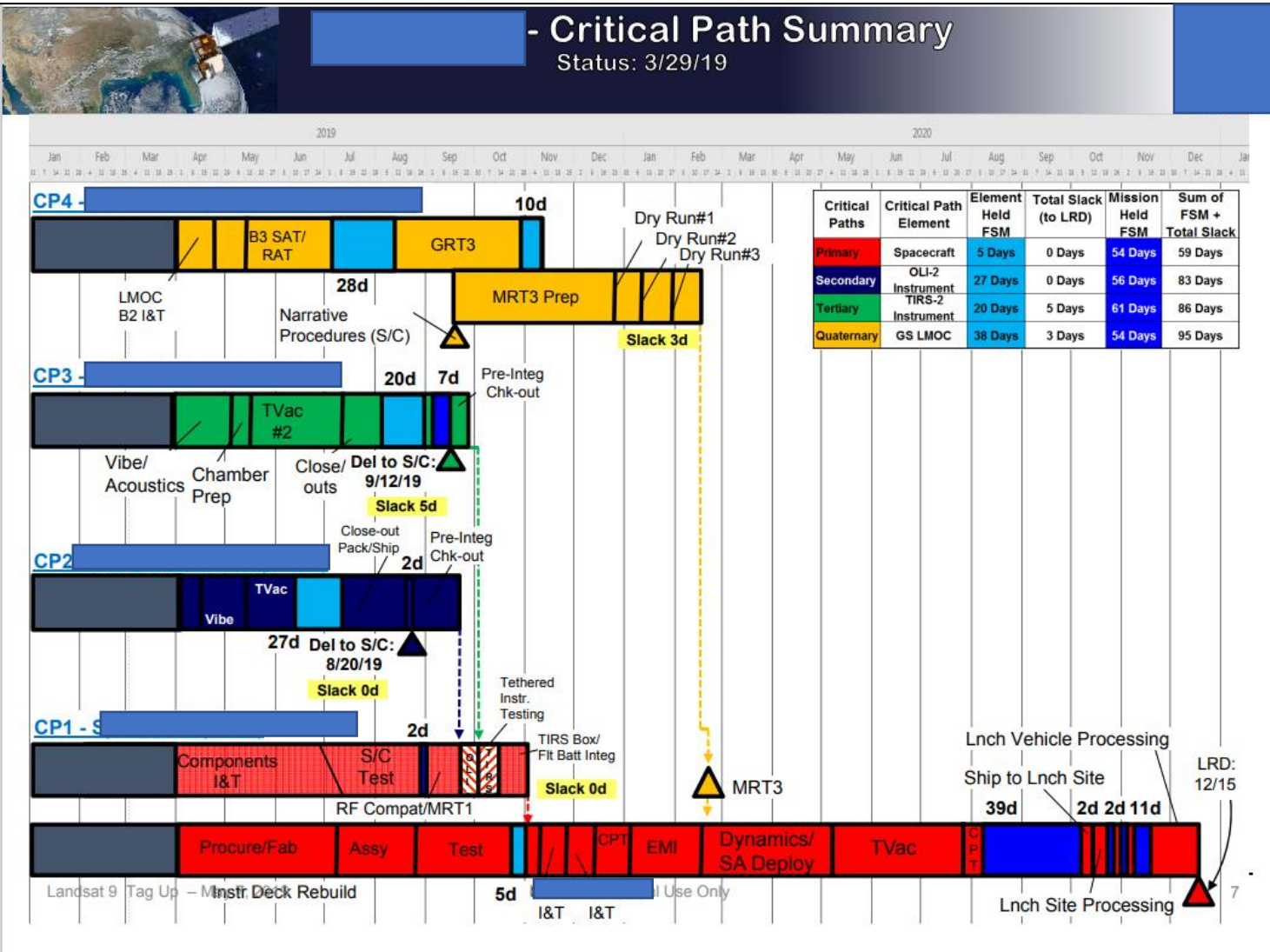
Secondary Critical Path



Tertiary Critical Path



Summary Critical Path Chart



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

Why are we still doing it like this?



Summary Critical Path Chart

More Views

Views:

- 2 - Phase/Master/Interm Sched LongMnt,F3,F4,F6,Blnk
- 2 - Phase/Master/Interm Sched weekly,F3,F4,F6
- 2 - Subsys Schedules (Mechl, FSWI)
- 2 - Summary Critical Path**
- 3 - DETAIL SUBSYSTEM SCHEDULE (Large Font)
- 3 - DETAIL SUBSYSTEM SCHEDULE (simple large)
- 3 - DETAIL SUBSYSTEM SCHEDULE (Simple)
- 3 - DETAIL SUBSYSTEM SCHEDULE (Simple, Large Font)
- 3 - Detail Working Sched (Lg Fonts)
- 3 - Detail/Element Schedule
- 3 - RTL Milestone Schedule

Buttons: New..., Edit..., Copy..., Organizer..., Apply, Cancel

Next Pages



More Filters

Filters: Task Resource

- All Tasks
- 0 - CRITICAL MILESTONE CHART
- 0 - Critical Path
- 0 - Critical Path (Del Chart)
- 0 - Giver/Recver List
- 0 - IMS Fin Finder
- 0 - Mapquest
- 0 - Master/Intermed/Sched Code**
- 0 - Master/Intermed/Sched Code (2 Items)
- 0 - Phase
- 0 - Phase Listing
- 0 - Schedule Code Filter
- 0 - Schedules to Go
- 0 - The Kendall

Buttons: New..., Edit..., Copy..., Organizer..., Help, Highlight, Apply, Cancel



More Tables

Tables: Task Resource

- 0 - Cost Sched ViewSubsystem Del Trend
- 0 - Critical Milestone Chart
- 0 - Intermediate/Master Builder**
- 0 - L9 Current Milestone Chart
- 0 - Verif Cartoon
- 2 - Doc Summary Schedule
- 3 - Detail Schedule
- 3 - Detail Schedule (Baseline fix)
- 3 - Detail Schedule (Basic)
- 3 - Detail Schedule (GA Procurement chart)
- 3 - Detail Schedule (IMS Dump)

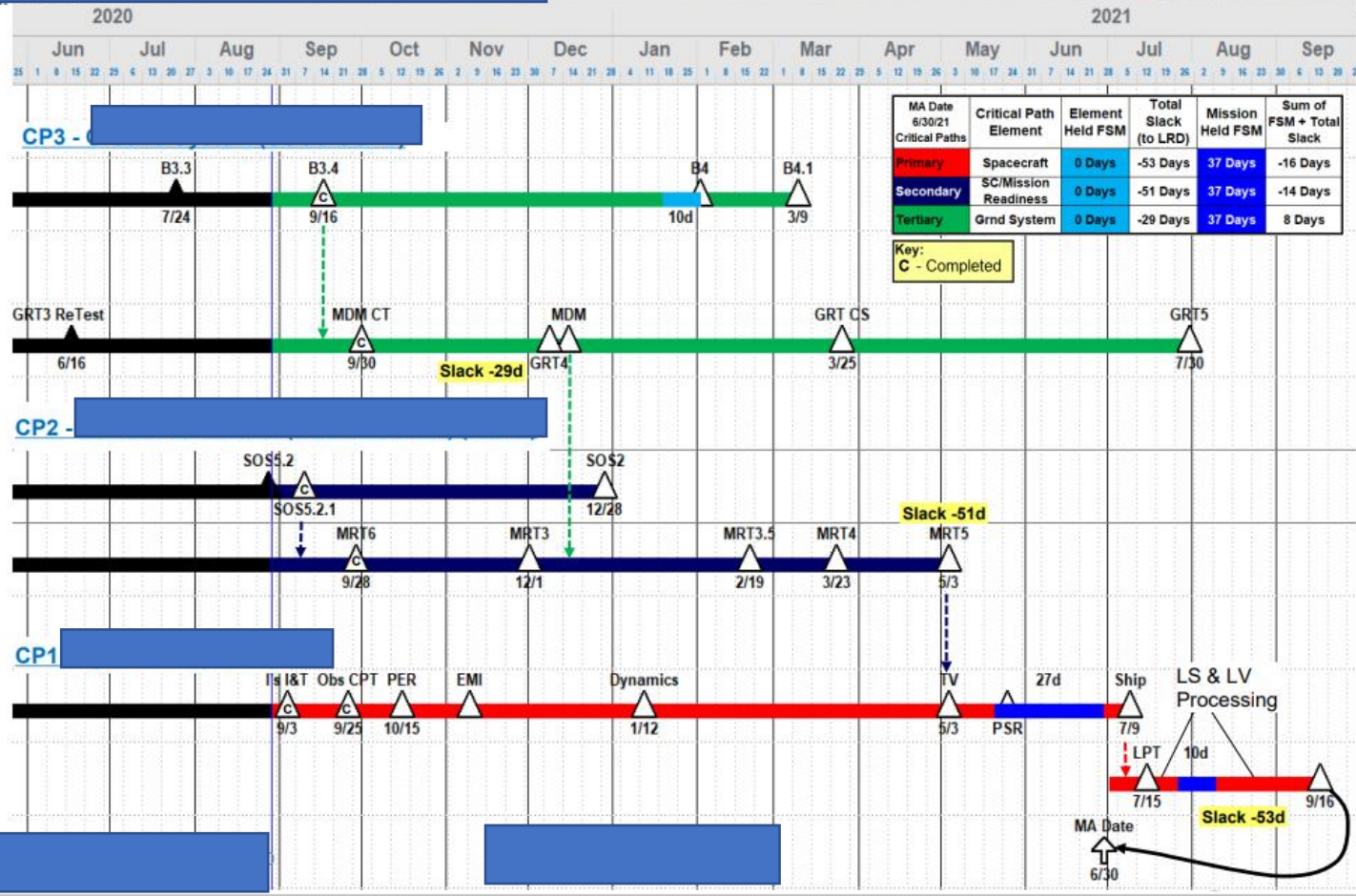
Buttons: New..., Edit..., Copy..., Organizer..., Apply, Cancel



Summary Critical Path Chart

- Summary Critical Path

Status: 8/31/20



Code the lines that make up the 3 Critical Paths

Colorize bars...

Add Arrows & Narration

Go!

Summary Critical Path Chart

0 - TSI5-2 Sched IMS.mpp - Project Profession

File Task Resource Report Project View WBS Schedule Pro

Custom

- 0 - Critical Milestone Chart
- 0 - Critical Path View
- 0 - Current Milestones Chart
- 0 - Master Schedule
- 0 - Master Schedule (MSR Ver)
- 0 - Master Schedule (w/slips)
- 2 - Element Schedules (T2I, BUSI, G5I)
- 2 - Inter Schedules (Mnthly, F3)
- 2 - Intermed Doc Status Release Sched (F7)
- 2 - Intermed Sched (F1 F3)
- 2 - Master/Intermed Sched (F1_10y Monthly)
- 2 - Master/Intermed Sched (F1and F3_10 Year)
- 2 - Master/Intermed Sched (Monthly F1_10 Year)
- 2 - Master/Intermed Sched (Monthly_F1_10 Year)
- 2 - Subsys Schedules (Mechl, FSWI)
- 2 - Summary Critical Path
- 3 - DETAIL SUBSYSTEM SCHEDULE (Simple)
- 3 - Detail Working Sched (Lg Fonts)
- 3 - Detail/Element Schedule
- 3 - RTL Milestone Schedule
- Bill View
- GA [J] Flow_Network
- Master/Intermed Sched (F1_10 Year)
- SS Tracking
- Temp
- Built-In
- _Calendar
- _Gantt Chart



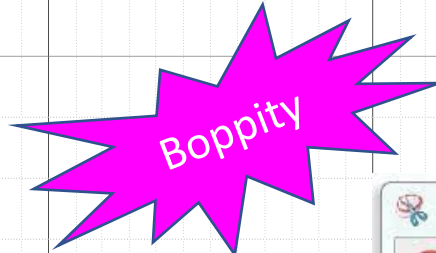
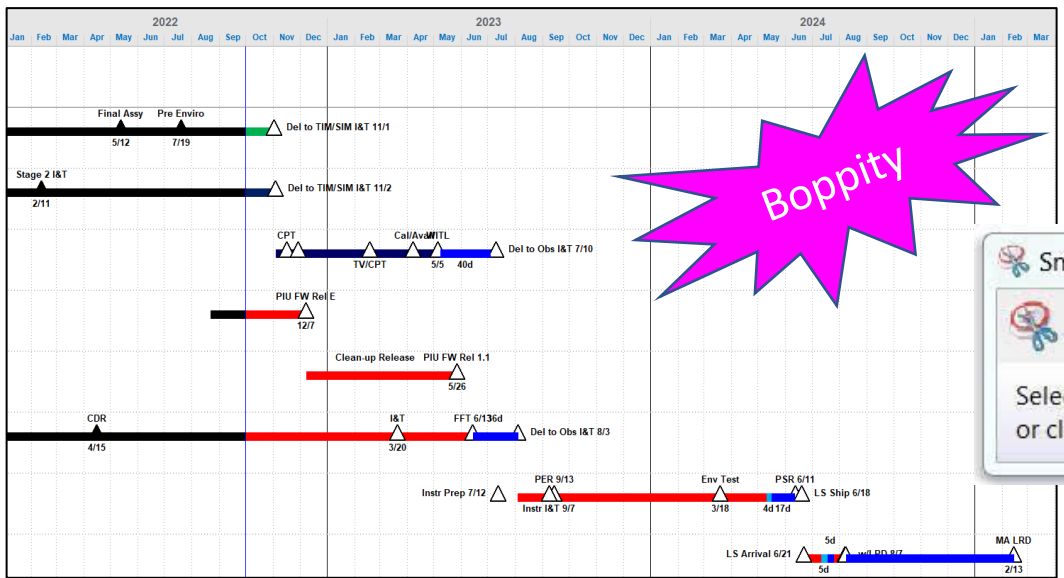
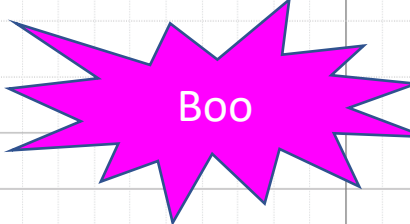
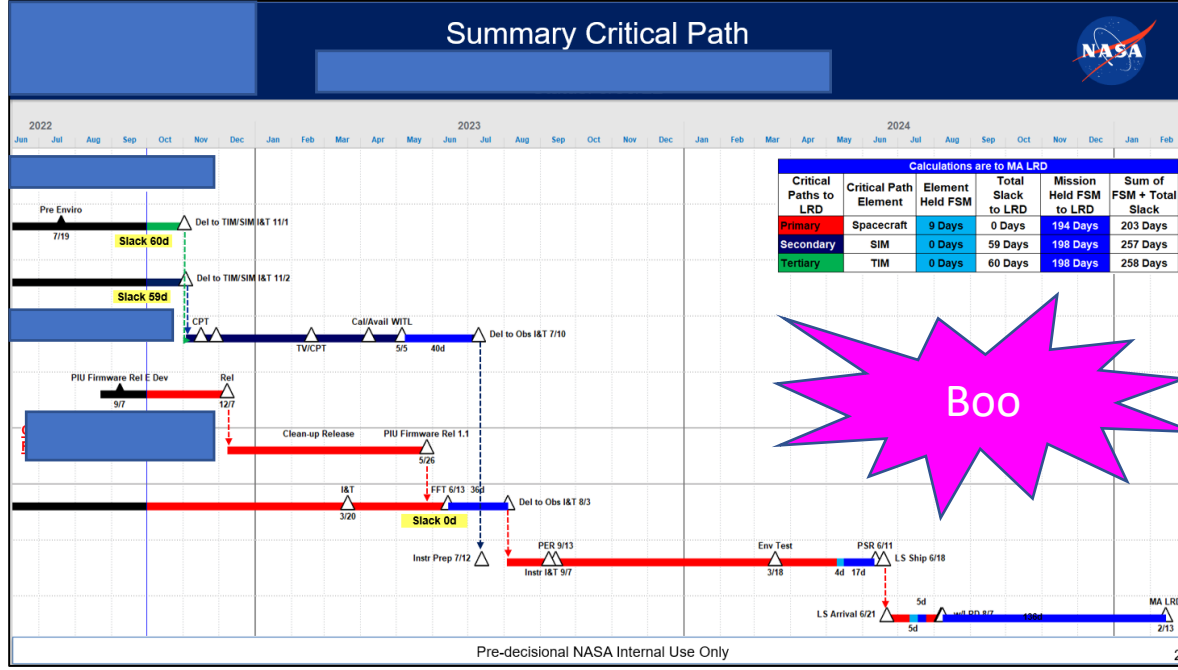
0 - Master/Intermed/Sched Code

Enter Sched Code

T2CP

OK

Cancel



Snipping Tool

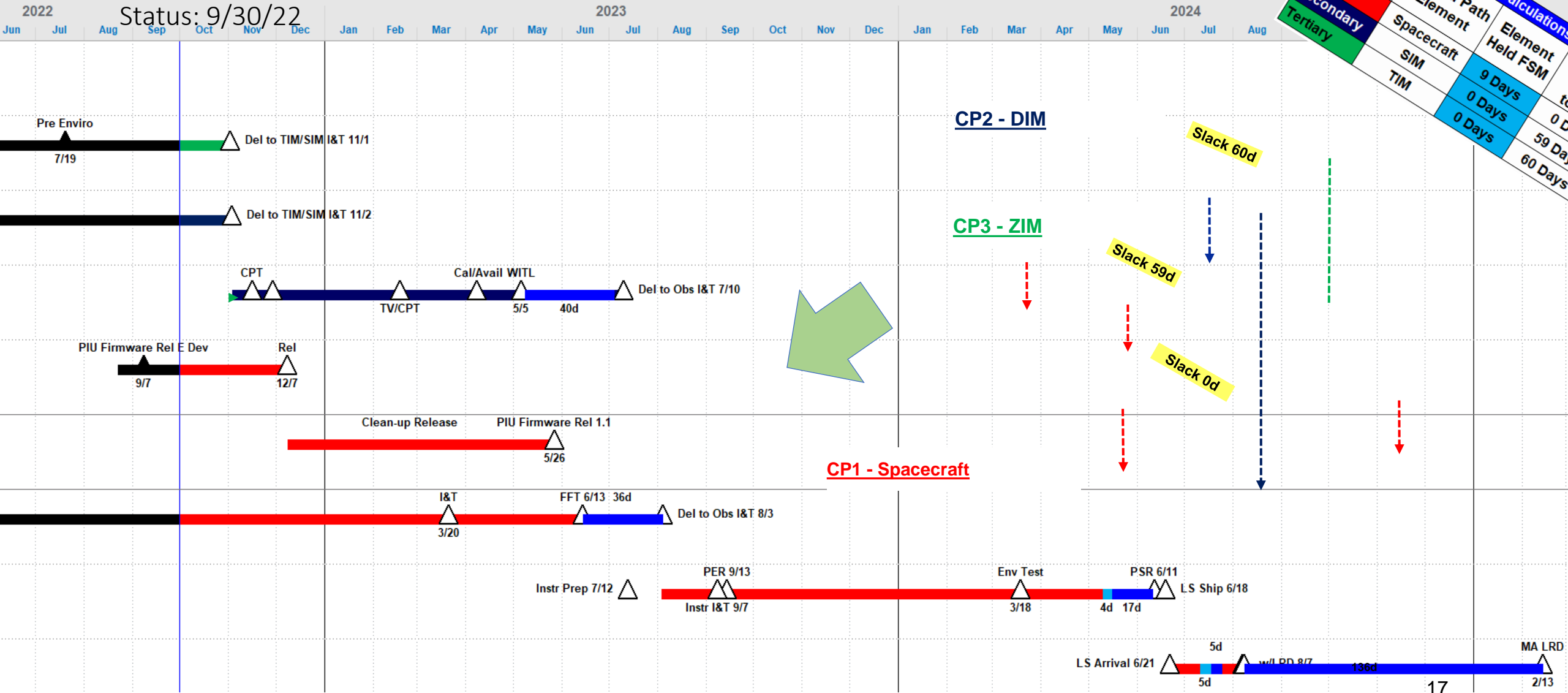
New Cancel Options

Select a snip type from the menu or click the New button.



Summary Critical Path

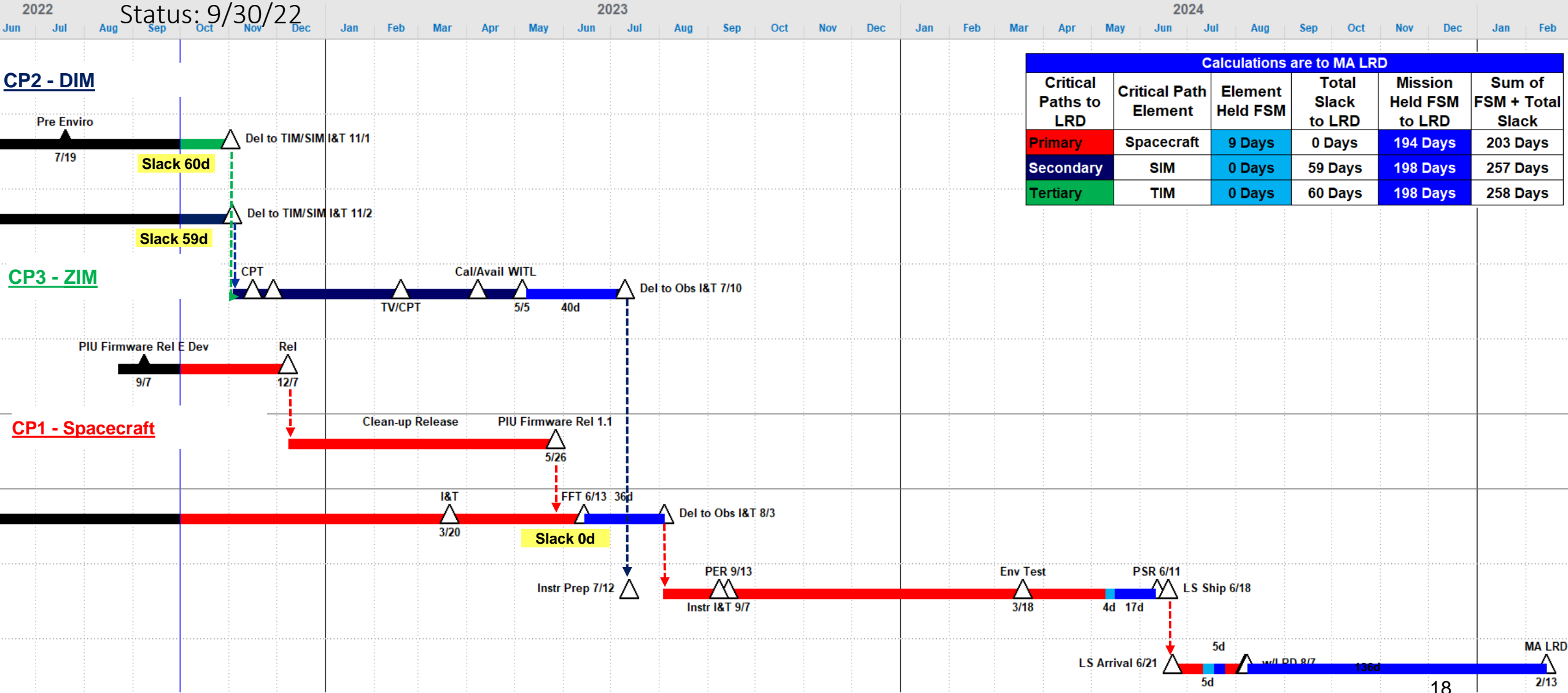
Status: 9/30/22



Critical Paths to LRD	Critical Path Element	Calculations
Primary	Spacecraft	Element Held FSM
Secondary	SIM	9 Days
Tertiary	TIM	0 Days
		0 Days
		59 Days
		60 Days

Summary Critical Path

Status: 9/30/22



Calculations are to MA LRD

Critical Paths to LRD	Critical Path Element	Element Held FSM	Total Slack to LRD	Mission Held FSM to LRD	Sum of FSM + Total Slack
Primary	Spacecraft	9 Days	0 Days	194 Days	203 Days
Secondary	SIM	0 Days	59 Days	198 Days	257 Days
Tertiary	TIM	0 Days	60 Days	198 Days	258 Days

Key Milestones & Review Listings

- Current Milestones

9/30/22

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				
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	

Key Milestones & Review Listings

	A	B	C	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		
6	CDR (Critical Design Review)	3/20/18	3/22/18		Y	
7	IBR (Integrated Baseline Review)	4/16/18	4/16/18		Y	
8	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
9	SC/instr integration start	9/26/19		per sc schedule (3/17 status)	Y	
10	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.?
11	PER (Pre- Environmental Review)	12/9/19	12/11/19	per sc schedule (3/17 status)	Y	
12	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
13	PSR (Pre-Ship Review)	9/16/20	9/17/20	per sc schedule (3/17 status)		
14	ORR (Operations Readiness Review)	9/22/20	9/25/20	per sc schedule (3/17 status)-LRD -3 months		
15	SMSR (safety mission assurance rev)	11/16/20	11/16/20	per Syed	Y	
16	FRR (Flight Readiness Review)	12/8/20	12/8/20	per sc schedule (3/17 status)	Y	
17	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
18	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
19	PLAR (Post Launch Assessment Review)	3/25/21	3/25/21	launch +3.5 months (per Vicki)	Y	
20						
21	Mission Phases					
22	Phase A	3/4/15	8/16/16		Y	
23	Phase B	8/17/16	11/15/17	PDR + 2 months	Y	
24	Phase C	11/16/17	10/15/19		Y	
25	Phase D	10/16/19	3/25/21		Y	
26	Phase E	3/26/21			Y	
27						
28	Key Decision Points					
29	KDPB	8/17/16			Y	
30	KDPC	11/16/17			Y	
31	KDPD	10/16/19			Y	
32	KDPE	11/30/20		launch -2 weeks	Y	
33						
34	Spacecraft Milestones					STILL WAITING FOR End of April 2017 status!
35	SRR	2/14/17	2/15/17		Y	
36	Heritage Review	4/13/17	4/13/17		Y	
37	PDR	7/18/17	7/20/17	per sc schedule (3/17 status)	Y	
38	CDR	2/12/18	2/15/18	per sc schedule (3/17 status)	Y	
39	SIRR (SC Integ. Readiness Review)	4/9/18	4/9/18	per sc schedule (3/17 status)	Y	first integration is PDU starting on 4/30/18
40	TIRS-2 IRR (instrument integration review)	9/12/19	9/13/19	per sc schedule (3/17 status)	Y	integration start date is 9/26/19 (see SIR note above)
41	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)
42	OAR	3/25/21		launch +3.5 months (per Vicki)	Y	incorrect date in SC schedule (4/15/21)
43						
44	TIRS-2 Milestones					
45	IHR (instr. Heritage Review)	11/19/15	11/19/15		Y	
46	PDR	6/15/16	6/17/16		Y	
47	CDR	2/21/17	2/23/17		Y	
48	IBR (Integrated Baseline Review)	6/22/17	6/23/17		Y	
49	PER	7/13/18	7/13/18	per TIRS-2 schedule (4/17 status)	Y	
50	DCO			TRN	Y	

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

Why are we still doing it like this?



Key Milestones & Review Listings

News and Upcoming Events [Recent TDMS Updates](#)

News / Event Sort Events Quick Links Sort Links Send Internal Email

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.

- 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 Cisco 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.

Getting Started:

- Go to the right of the homepage and click on the Help button. Click on the Help drop-down menu located in the upper right hand corner of the menu bar. There 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!

Support:

- DM/CM Team: -tdmscm-admin@mail.nasa.gov">gsfc-dl-tdmscm-admin@mail.nasa.gov
- Training is always available. Just ask!

Reporting Issues:

Issues should be report to: -tdmscm-admin@mail.nasa.gov">gsfc-dl-tdmscm-admin@mail.nasa.gov

- The following information is useful when reporting issues:
- 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

[Current Key Milestones and Review](#)

Alerts

[VIEW ALL ALERTS](#)

- Documents (0)
- Drawings (0)
- CCRs (0)
- SCoRes (6)
- EOs (0)
- WOAs (0)
- Waiver/Deviation (0)

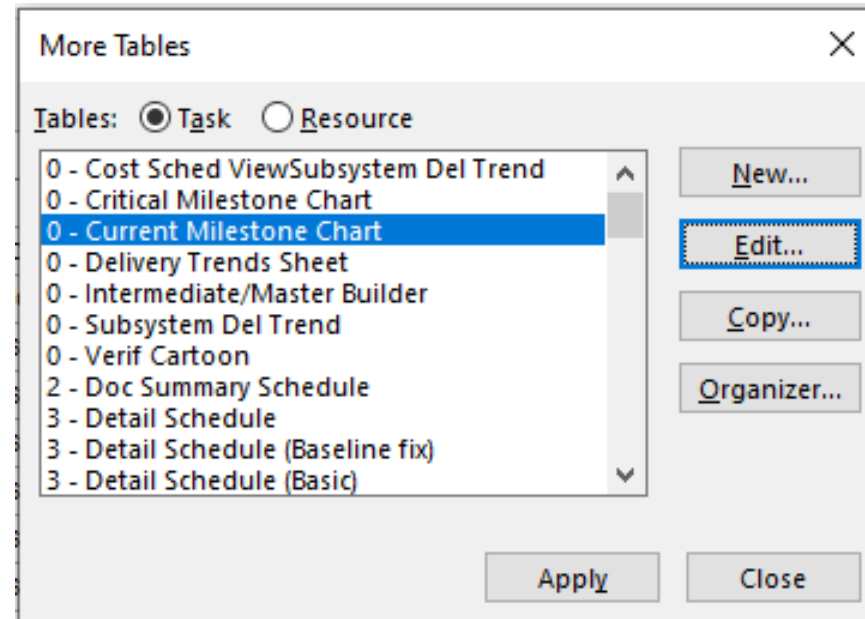
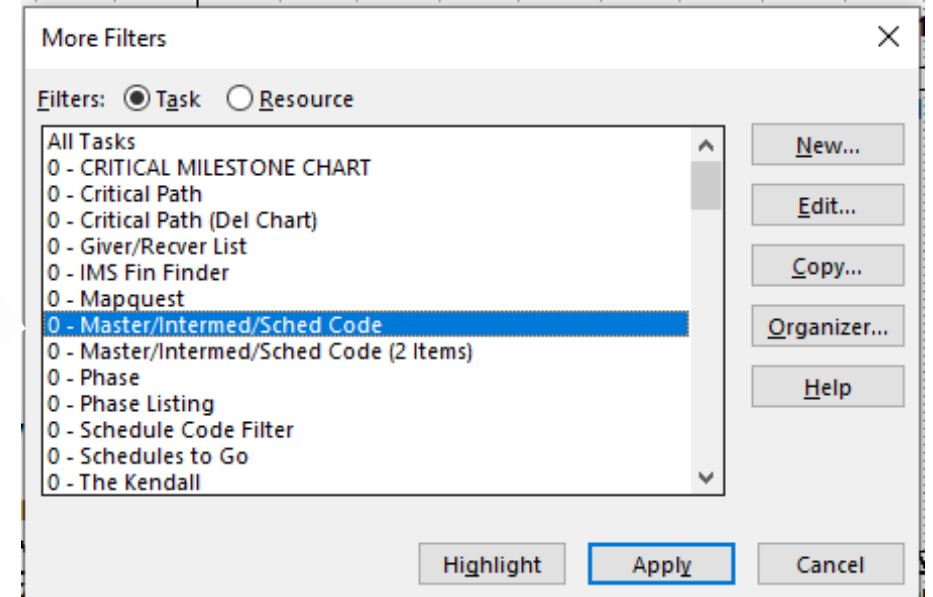
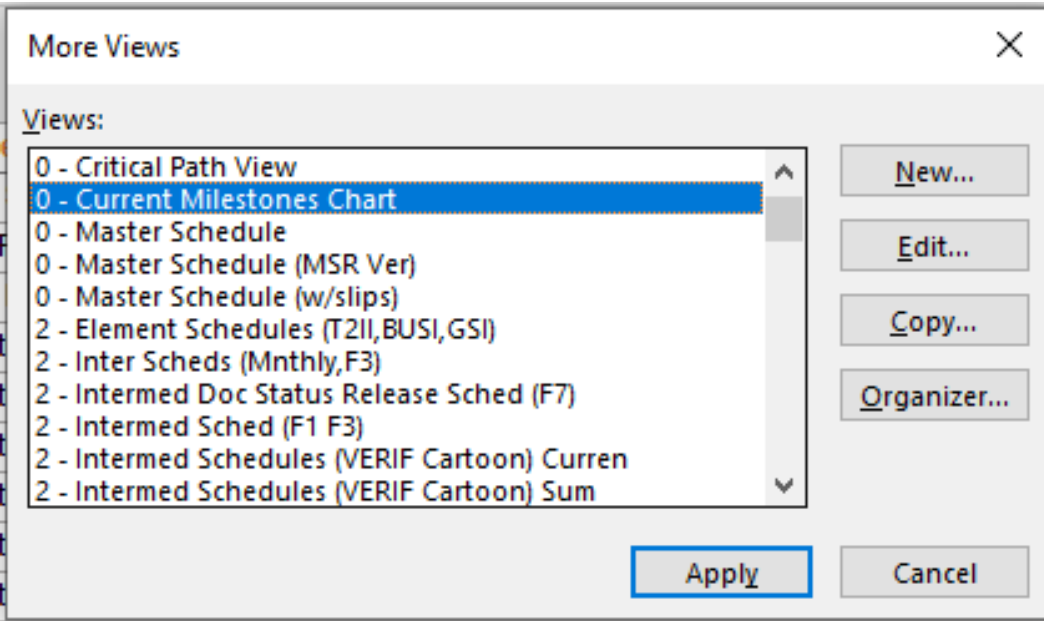
Quick Launch

- Project Organization Chart (with Names)
- POC List
- Concerns List
- GSFC Organization File Plan
- Project-specific Abbreviation/Acronym List
- Master Schedule (1 pager)
- 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
- 400-HDBK-0001 (Instructions) RELEASED 2019
- =====
- Goddard's Directive Management System (GDMS)

Helpful Information for Team Members--Please Read Expires: 02/02/2023

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

Key Milestones & Review Listings



Key Milestones & Review Listings

- Outline fields are built in look up fields That you get to define for your specific use

Good Information to know

Edit Lookup Table for Current Milestones

+ Code mask (optional)

- Lookup table

✂ 📄 📁 ⚙️ 🗑️ ⬅️ ➡️ + - ➕

Row	Value	Description
1	02	Mission Milestones
2	04	Mission KDPs & Phases
3	08	Obs Milestones
4	10	TIM/SIM Milestones
5	14	Ground Segment Milestones
6	15	Mission Readiness Milestones
7	18	LV Milestones

⬆️ Move ⬇️

Display indenting in lookup table

Use a value from the table as the default entry for the field

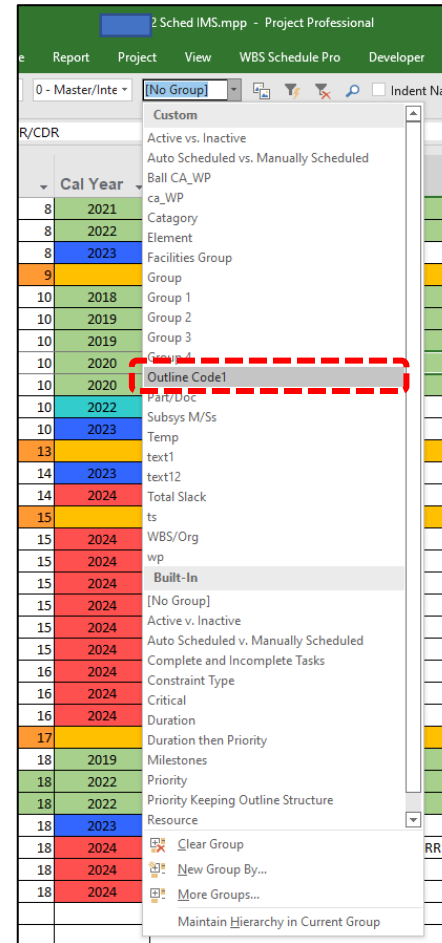
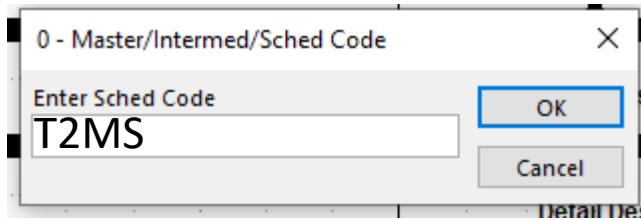
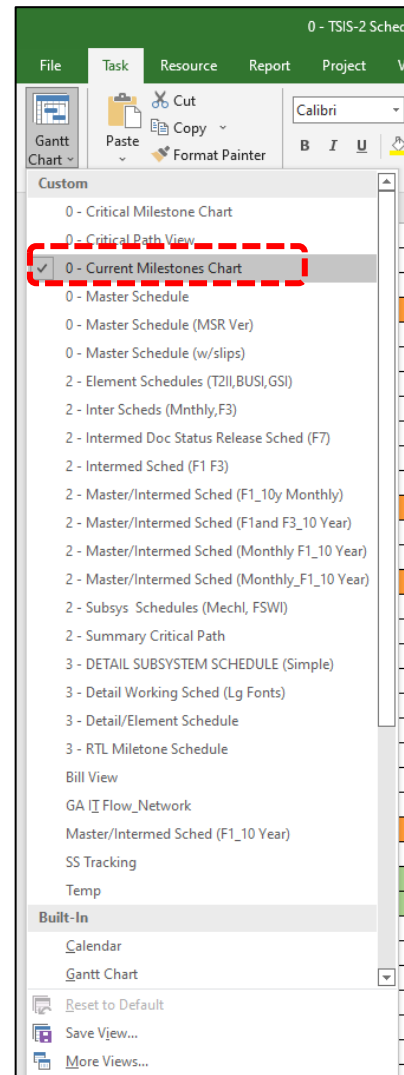
Set Default (Click button after selecting a value above)

+ Display order for lookup table

+ Data entry options

Help Import Lookup Table... Close

Key Milestones & Review Listings



- Current Milestones					
UID	Cal Year	Milestone	%	Start	Finish
Mission Milestones					
84	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	0%	6/2/21	6/4/21
56	2022	Mission CDR	0%	1/26/22	1/28/22
64	2023	Mission SIR	0%	5/18/23	5/18/23
747	2024	Obs PSR	0%	6/7/24	6/10/24
78	2024	ORR	0%	6/20/24	6/20/24
2936	2024	SMSR	0%	7/22/24	7/22/24
163	2024	FRR	0%	8/12/24	8/12/24
80	2024	MRR	0%	8/12/24	8/12/24
63	2024	LRD	0%	8/16/24	8/16/24
62	2024	PLAR	0%	10/15/24	10/15/24
Mission KDPs & Phases					
24	2021	Formulation Phase	91%	4/12/19	8/16/21
5	2021	KDP-C	0%	8/16/21	8/16/21
23	2023	Phase C	0%	8/17/21	6/30/23
20	2023	KDP-D (If Req'd)	0%	6/30/23	6/30/23
52	2024	KDP-E (If Req'd)	0%	8/9/24	8/9/24
22	2024	Phase D	0%	7/3/23	10/15/24
51	2024	Phase E (Start)	0%	10/16/24	10/25/27
Obs Milestones					
12	2019	T2S/C RFI Release	100%	4/12/19	4/12/19
41	2019	T2S/C 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	T2S/C 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	2021	T2 S/C CDR	0%	10/19/21	10/22/21
79	2023	Obs PER	0%	7/31/23	7/31/23
TIM/SIM Milestones					
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
777	2022	T2I TIM PSR	0%	5/2/22	5/2/22
776	2022	T2I SIM PSR	0%	5/3/22	5/3/22
165	2022	T2I PER	0%	7/14/22	7/14/22
171	2022	T2I PSR	0%	10/21/22	10/21/22
Ground Segment Milestones					
782	2022	MOR	0%	5/18/22	5/18/22
4017	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
785	2024	FOR	0%	5/10/24	5/10/24
Mission Readiness Milestones					
3964	2024	End to End Test (SEET)	0%	12/12/23	1/2/24
5393	2024	LEOP Test	0%	1/3/24	1/23/24
5404	2024	Wet Dress Rehearsal	0%	7/8/24	7/8/24
LV Milestones					
3253	2019	T2 LV - Fit Planning Board Mtg	100%	11/19/19	11/19/19
74	2022	T2 Launch Vehicle - Award	0%	2/14/22	2/14/22
75	2023	T2 Launch Vehicle - Delivery	0%	11/1/23	11/1/23



Key Milestones & Review Listings

- Current Milestones

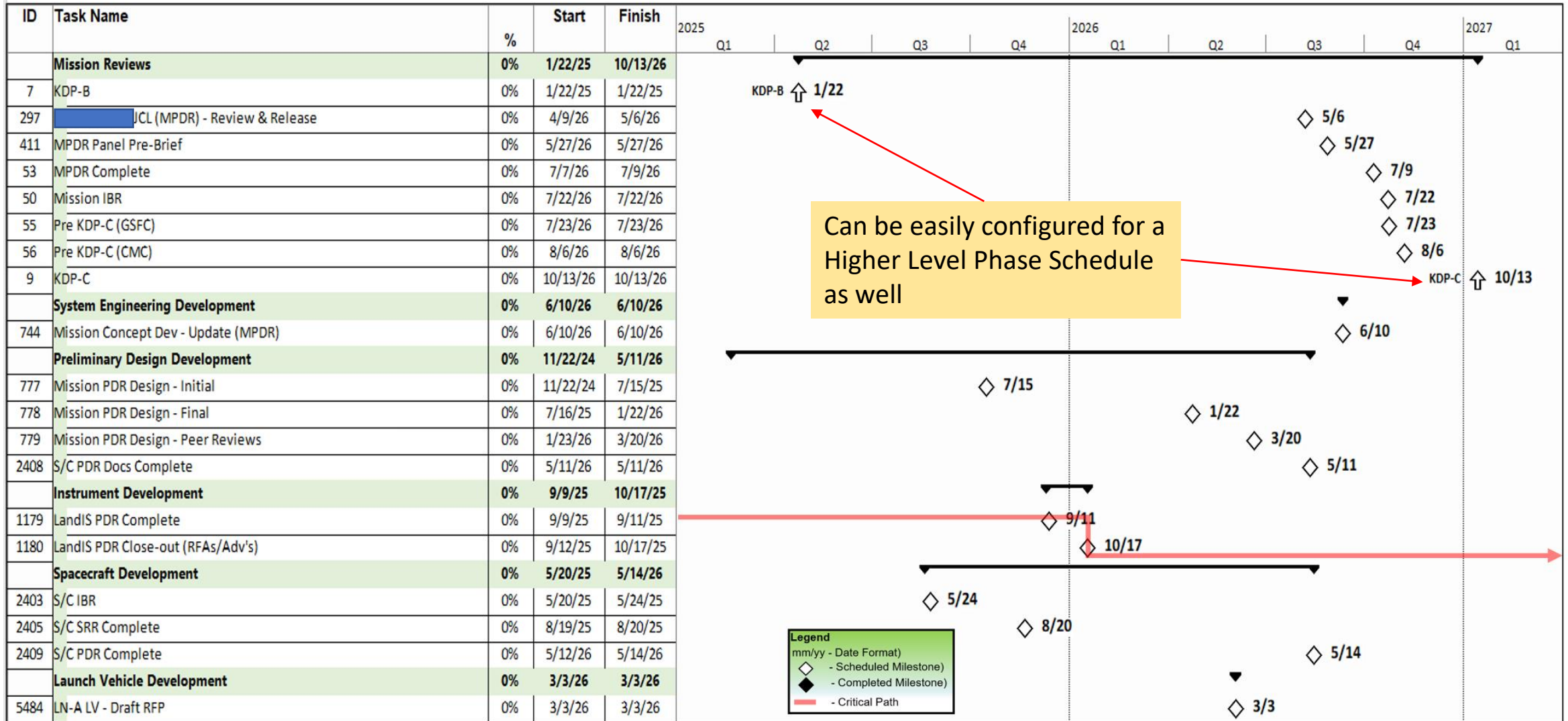
9/30/22

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				
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	
88		TIM/SIM Milestones				
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				
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

Key Milestones & Review Listings

Draft Phase B Schedule



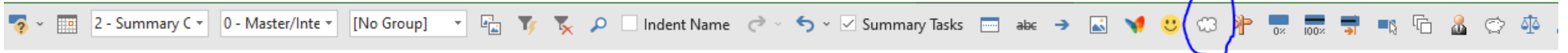


“Schedules to Go”

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...

Schedules to Go



Line#	JID	0_Map	Slk	Activity
124	6633	DM,DBA	217d	Detector Module (DM) Design & EM Testing
125	6636	DM,DBA	217d	Obtain Modules & Lab Set up
126	6635	DM,DBA	217d	Modify 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 Detector Design
131	6642	DM,DBA,DPU	217d	Fit Detector 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 Module Long Lead Parts
135	6646	DM,DBA	288d	Fit Detector Module Long lead Parts
136	6643	DM,DBA	217d	Fit 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	Fit & Qual DM Brds - Final Drwgs & Docs
139	3428	DBA,DM	217d	Fit & Qual DM Brds - Build Units
140	3430	DBA,DM	217d	Fit & Qual DM Brds - Screening Pre-Seal
141	3427	DBA,DM	217d	Fit & Qual DM Brds - Screening Post-Seal
142	6644	DBA,DM	217d	Qual DM Brds - Del to NASA
143	3731	DBA,DM	217d	Fit & Qual DM Brds - Final Qual Testing
144	3729	DBA,DM	278d	Fit & Qual DM Brds - Qual Test Reporting
145	3426	DBA,DM	217d	Detector Module (DM) (Space Power Electronics/SPE)
146	3436	DBA,DM	217d	Fit DM - Final Design
147	6645	DBA,DM	217d	Fit DM - EPR
148	6650	DBA,DM	217d	Fit DM - Parts Kitting at SPE
149	2758	DBA,DM	217d	Fit DM - Components Build (Magnetics,Housings,PCBs)
150	2757	DBA,DM	217d	Fit DM - DM Brd Assy
151	3754	DBA,DM	217d	Fit DM Testing with FM DOA

New Addition to the Quick Access ~~Tool~~ Cool Bar

Task Information

General | Predecessors | Resources | Advanced | Notes | Custom Fields

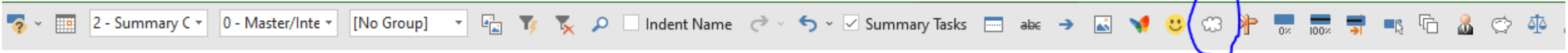
Name: Fit Detector Design Duration: 20d Estimated

Custom Fields

Custom Field Name	Value
_Ograb (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

Schedules to Go



A Simple Macro that runs this filter...

The screenshot shows the Microsoft Project software interface with two dialog boxes open. The 'More Filters' dialog box is on the left, and the 'Filter Definition' dialog box is on the right. The 'More Filters' dialog box has 'Task' selected under 'Filters' and '0 - Schedules to Go' selected in the list. The 'Filter Definition' dialog box has '0 - Schedules to Go' as the name and 'Text28' as the field name. The test is set to 'contains' and the value is 'Enter Schedule Code?'. The background shows a Gantt chart with a table of task data.

	%	Dur	Strt	Fin	2021												2022				
					A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A
	65%	2492d	10/1/18	4/18/28																	
	100%	0d	10/1/18	10/1/18																	
	0%	0d	4/18/28	4/18/28																	
	100%	0d	3/7/19	3/7/19																	
	100%	0d	4/12/19	4/12/19																	
	100%	0d	4/12/19	4/12/19																	
	100%	0d	4/12/19	4/12/19																	
	100%	0d	4/12/19	4/12/19																	

More Filters

Filters: Task Resource

- All Tasks
- 0 - CRITICAL MILESTONE CHART
- 0 - Critical Path
- 0 - Critical Path (Del Chart)
- 0 - Giver/Recver List
- 0 - IMS Fin Finder
- 0 - Mapquest
- 0 - Mapquest (2 items)
- 0 - Master/Intermed/Sched Code
- 0 - Master/Intermed/Sched Code (2 Items)
- 0 - Phase
- 0 - Phase Listing
- 0 - Schedule Code Filter
- 0 - Schedules to Go**

Filter Definition in '0 - TSIS-2 Sched IMS'

Name: **0 - Schedules to Go** Show in menu

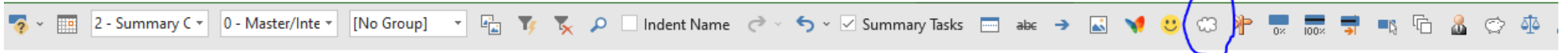
Filter:

And/Or	Field Name	Test	Value(s)
	Text28	contains	"Enter Schedule Code?"

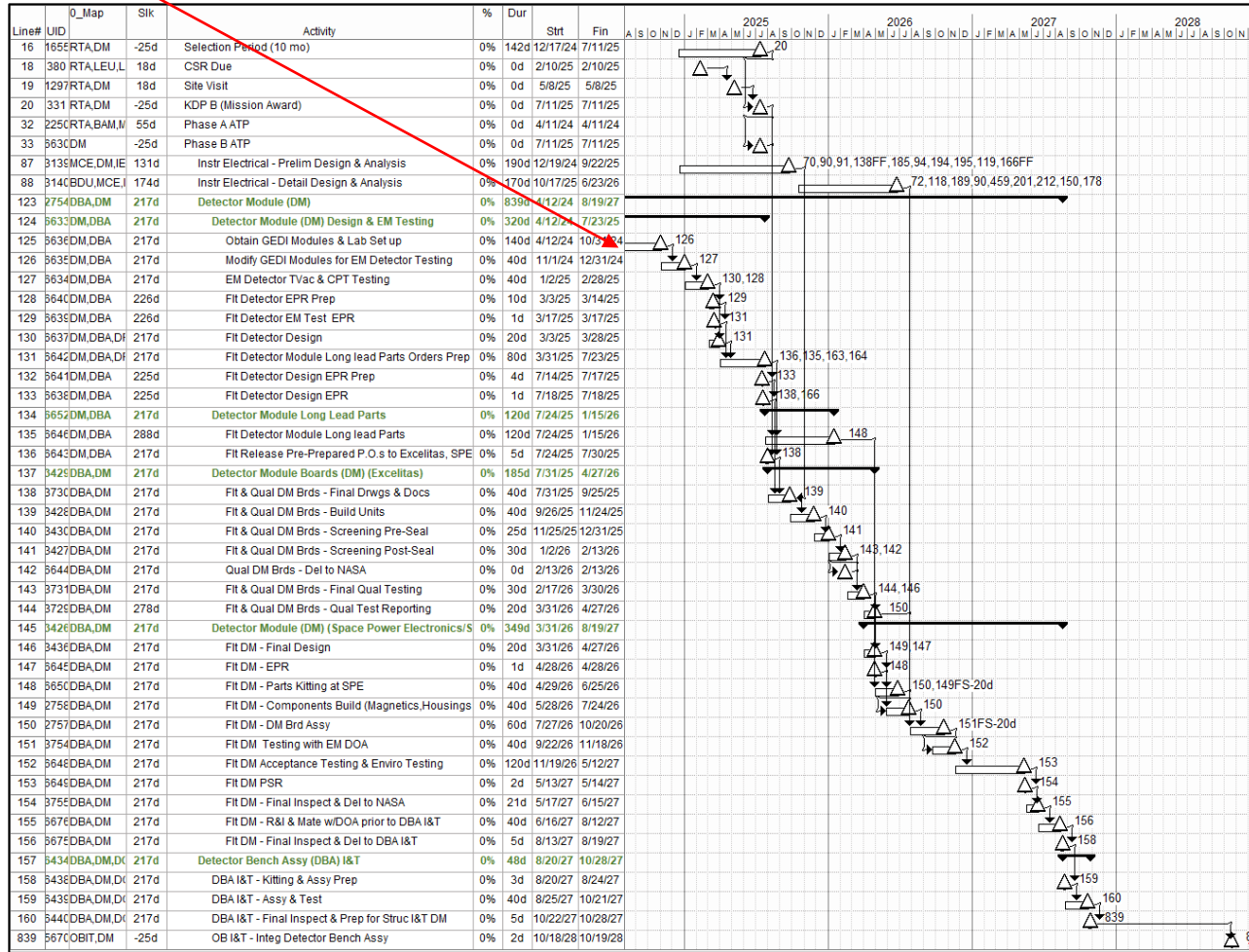
Show related summary rows

Buttons: Cut Row, Copy Row, Paste Row, Insert Row, Delete Row, Highlight, Apply, New..., Edit..., Copy..., Organizer..., Help, Save, Cancel

Schedules to Go



Shows where things Start



New Addition to the Quck Access ~~Tree~~ Cool Bar



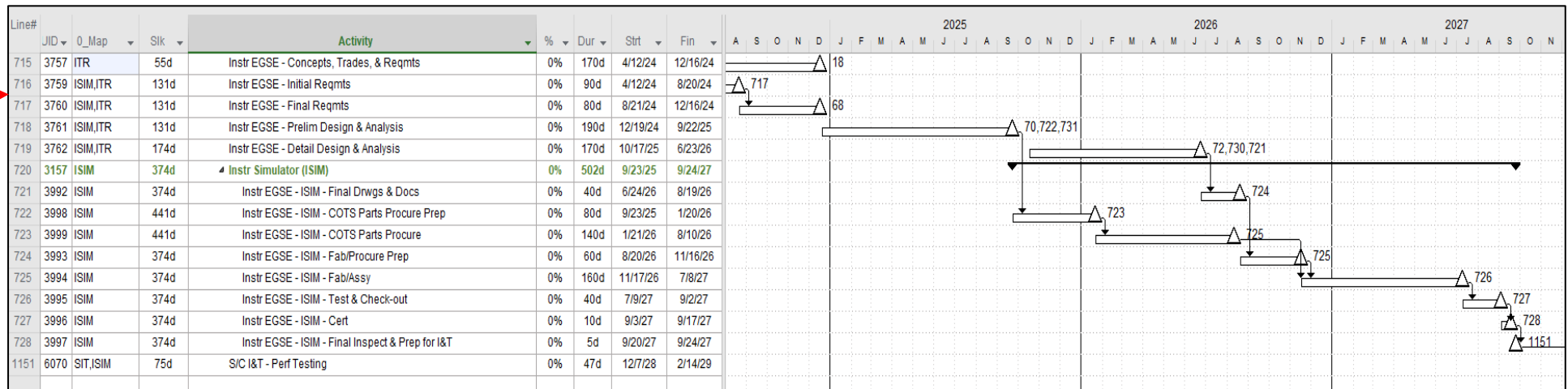
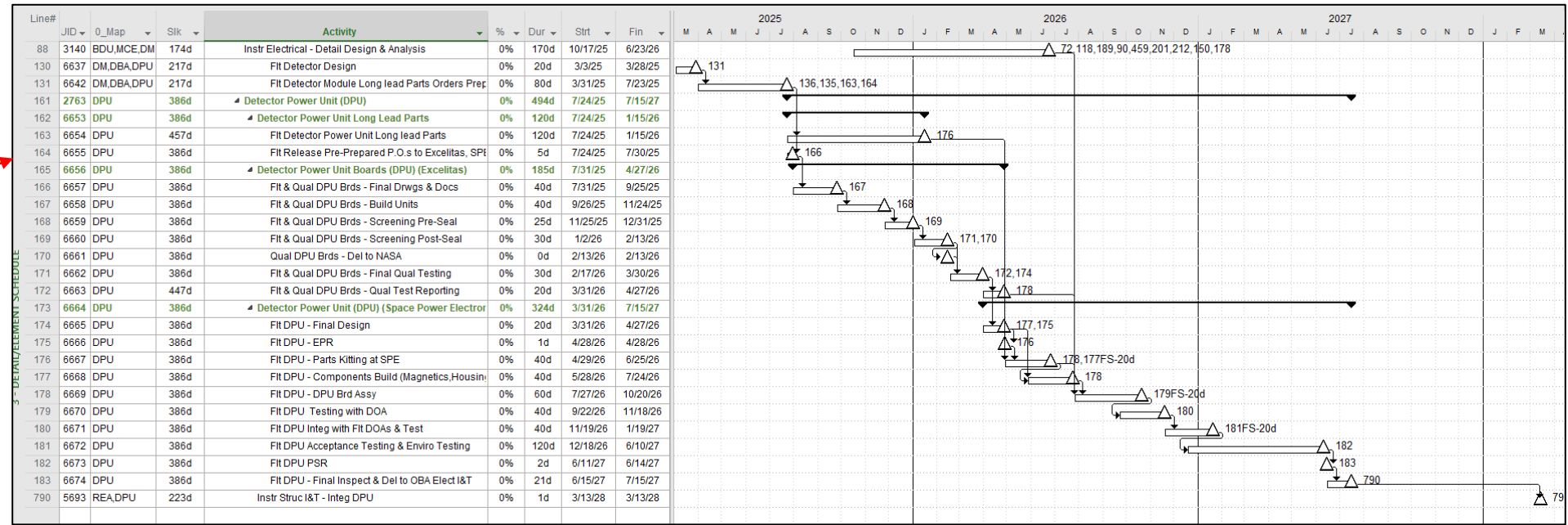
Bite Sized Views

And Where things Go...



Schedules to Go

	A	B
1	Schedule Codes	
2		
3	ADCS	Altitude Determination & Control
4	BAM	Beam Adjustment Mechanism
5	BDU	Beam Ditrhering Unit
6	BUS	Spacecraft
7	CDH	C&DH
8	DPU	Detector Power Unit
9	ETE1	End to End Test 1
10	ETE2	End to End Test 2
11	ETE3	End to End Test 3
12	FMA	Fold Mirror Assy
13	GSB0	Ground Syst Build 0
14	GSB1	Ground Syst Build 1
15	GSB2	Ground Syst Build 2
16	GSB3	Ground Syst Build 3
17	GSBCU	Ground Syst Build Clean Up
18	GSOP	Ground System
19	IAIT	Inst OB/Struc I&T
20	IDOL	Instr Dolly
21	IDYN	Instr Dynamics
22	IEH	Instr External Harnesss
23	IEMC	Instr EMI/EMC Test
24	IHM	Instr Harn MU
25	IIH	Instr Internal Harnesses
26	IIT	Instr I&T
27	ILS	Instr Lift Slings
28	ISIM	Instr Simulator
29	ISIT	Instr Struc I&R
30	ITC	Instr Test Cables
31	ITR	Instr Test Rack
32	ITV	Instr TVac
33	IVP	Instr Vibe Plate
34	LSO	Launch Site Ops
35	LOM	Laser Optical Module
36	LV	Launch Vehicle
37	OBIT	Optical Bench I&T
38	OIT	Obs I&T
39	PROP	Propulsion
40	PSA	Primary Struc Assy
41	PWR	Power



Schedules to Go

The screenshot shows an email client window titled 'Untitled - Message (HTML)'. The interface includes a menu bar (File, Message, Insert, Options, Format Text, Review, Help, Acrobat) and a ribbon with various tools like Paste, Bold, Italic, Underline, Text Color, Background Color, Bulleted List, Numbered List, Indent, Outdent, Address Book, Check Names, Attach File, Link, Signature, Assign Policy, Follow Up, High Importance, Low Importance, Dictate, Sensitivity, Immersive Reader, Encrypt, Sign, and View Templates. The 'To' field is empty, and the 'Cc' field is empty. The subject line is 'Schedule Snapshot'. Below the subject line, the text reads 'Here is your Schedule To Go'. Attached to the email is a Gantt chart showing project activities from 2025 to 2027. The chart includes a table with columns for Line#, ID#, D_Name, ID, Activity, % Done, Start, End, and Finish. The activities listed include 'Inst Electrical - Detail Design & Analysis', 'FR Detector Design', 'FR Detector Module Long Lead Parts Orders Proc', 'Detector Power Unit (DPU)', 'FR & Qual DPU Brds - Final Drawgs & Docs', 'FR & Qual DPU Brds - Build Units', 'FR & Qual DPU Brds - Screening Pre-Seal', 'FR & Qual DPU Brds - Screening Post-Seal', 'Qual DPU Brds - Del to NASA', 'FR & Qual DPU Brds - Final Qual Testing', 'FR & Qual DPU Brds - Qual Test Reporting', 'Detector Power Unit (DPU) Space Power Electron', 'FR DPU - Final Design', 'FR DPU - EPR', 'FR DPU - Parts Kitting at SPE', 'FR DPU - Components Build (Magnetics, Housing)', 'FR DPU - DPU End Assy', 'FR DPU - Testing with DOA', 'FR DPU Integ with FR DOAs & Test', 'FR DPU Acceptance Testing & Enviro Testing', 'FR DPU PRR', 'FR DPU - Final Inspect & Del to OBA Elcd I&T', and 'Inst Stuc I&T - Integ DPU'.

Line#	ID#	D_Name	ID	Activity	% Done	Start	End	Finish
80	3140	RESOURCE DM	1744	Inst Electrical - Detail Design & Analysis	0%	1/1/25	10/1/25	6/23/26
130	6637	DM,DBA,DPU	2174	FR Detector Design	0%	3/01/25	3/08/25	3/08/25
131	6642	DM,DBA,DPU	2176	FR Detector Module Long Lead Parts Orders Proc	0%	3/01/25	7/23/25	7/23/25
161	2763	DPU	3866	Detector Power Unit (DPU)	0%	4/9/25	7/24/25	7/15/27
162	6653	DPU	3866	Detector Power Unit Long Lead Parts	0%	1/26/25	7/24/25	1/15/26
163	6654	DPU	4576	FR Detector Power Unit Long Lead Parts	0%	1/26/25	7/24/25	1/15/26
164	6655	DPU	3866	FR Release Pre-Prepared P.O.s to Excellas, SPI	0%	5/1/25	7/24/25	7/30/25
165	6656	DPU	3866	Detector Power Unit Boards (DPU) (Excellas)	0%	1/15/25	7/31/25	4/27/26
166	6657	DPU	3866	FR & Qual DPU Brds - Final Drawgs & Docs	0%	4/06/25	7/31/25	9/25/25
167	6658	DPU	3866	FR & Qual DPU Brds - Build Units	0%	4/06/25	9/25/25	11/24/25
168	6659	DPU	3866	FR & Qual DPU Brds - Screening Pre-Seal	0%	2/15/25	11/25/25	12/31/25
169	6660	DPU	3866	FR & Qual DPU Brds - Screening Post-Seal	0%	3/06/25	1/25/26	2/13/26
170	6661	DPU	3866	Qual DPU Brds - Del to NASA	0%	5/06/25	2/13/26	2/13/26
171	6662	DPU	3866	FR & Qual DPU Brds - Final Qual Testing	0%	3/06/25	2/17/26	3/30/26
172	6663	DPU	4476	FR & Qual DPU Brds - Qual Test Reporting	0%	2/06/25	3/31/26	4/27/26
173	6664	DPU	3866	Detector Power Unit (DPU) Space Power Electron	0%	3/24/25	3/31/26	7/15/27
174	6665	DPU	3866	FR DPU - Final Design	0%	2/06/25	3/31/26	4/27/26
175	6666	DPU	3866	FR DPU - EPR	0%	1/1/25	4/28/26	4/28/26
176	6667	DPU	3866	FR DPU - Parts Kitting at SPE	0%	4/06/25	4/29/26	6/25/26
177	6668	DPU	3866	FR DPU - Components Build (Magnetics, Housing)	0%	4/06/25	5/28/26	7/24/26
178	6669	DPU	3866	FR DPU - DPU End Assy	0%	6/06/25	7/27/26	10/20/26
179	6670	DPU	3866	FR DPU - Testing with DOA	0%	4/06/25	9/22/26	11/18/26
180	6671	DPU	3866	FR DPU Integ with FR DOAs & Test	0%	4/06/25	11/19/26	1/19/27
181	6672	DPU	3866	FR DPU Acceptance Testing & Enviro Testing	0%	1/20/26	12/18/26	6/19/27
182	6673	DPU	3866	FR DPU PRR	0%	2/1/26	6/11/27	6/14/27
183	6674	DPU	3866	FR DPU - Final Inspect & Del to OBA Elcd I&T	0%	2/1/26	6/15/27	7/15/27
730	5663	READPU	2230	Inst Stuc I&T - Integ DPU	0%	1/1/26	3/13/28	3/13/28

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



MSR Package Charts

MSR package includes **ONLY** the following charts:

1. Title Page
2. Technical Executive Summary
3. Programmatic Executive Summary
4. Overall Assessment
5. Top 3 Critical Paths
6. Top Risks
7. Top Issues
8. Business Assessment
9. Road to Launch Executive Summary (begins 6 months prior to launch)
10. Hardware Architecture or very short video (optional)
11. Project Science/Mitigation Status
12. Back-Up Title Page
13. Risk Descriptions
14. Mission Overview
15. Significant Progress
16. Communication & Public Outreach
17. CHC Action Status
18. COVID-19 Impacts (Spreadsheet)
19. COVID-19 Impacts Summary
20. Milestone Summary
21. Earned Value Management Assessment (2 pages)
22. Business Assessment (Actuals - Obligations)
23. Cost Reserve Status
24. Project Threats
25. PPBE Budget
26. Work Force
27. Master Schedule
28. Funded Schedule Margin
29. Project Resource Margins
30. Residual Risks (begins 6 months prior to launch)
31. GIDEP Status (begins 6 months prior to launch)
32. Acronym List

All parties are invited to propose improvements to monthly reporting (charts and chart content) but must obtain approval from FPO management prior to implementing.



“Road To” Schedules

**Road to Launch
Required
MSR Chart**



Road To Schedules

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..

Status Date: May 21, 2021

Item No.	Review Name	2021																																										
		F	M	A	M	J	J	A	S	O	N	D																																
		31	7	14	21	28	7	14	21	28	4	11	18	25	2	9	16	23	30	6	13	20	27	4	11	18	25	1	8	15	22	29	5	12	19	26	3	10	17	24	31	7	14	21
1	PER	▼ Tues 2/16 - Thurs 2/18																																										
2	Perform S/C Modal Survey	▼ Fri 3/12 - Sat 3/13																																										
3	Perform S/C Acoustic Test	▼ Fri 3/19 - Sat 3/20																																										
4	Perform S/C Sine Vibe Test	▼ Sat 4/3 - Mon 4/12																																										
5	Perform S/C EMI/EMC/Self Compat/Plugs Out Test	▼ Mon 4/26 - Fri 4/30																																										
6	Perform TVAC Testing on S/C (24/7 throughout)	▼ Thu 5/13 (Lift into Chamber) - Mon 6/7 (Lift out of Chamber)																																										
7	Friends & Family Day at LM	▽ Fri 7/9																																										
8	S/C PSR (Pre-Ship Review)	▽ Tues 7/20 - Thurs 7/22																																										
9	S/C Ship to	▽ Friday 7/30																																										
10	FOR/ORR	▽ Tues 8/10 - Thurs 8/12																																										
11	FOR/ORR SRB Snapshot Review (One Pager)	▽ Mon 8/16																																										
12	KDP-E Code 400 Review	▽ Tues 8/24																																										
13	KDP-E CMC Review (MRR)	▽ Wed 8/25																																										
14	Safety & Mission Success Review (SMSR)	Mon 9/13 (1-4 PM EDT) ▽																																										
15	HQ Pre-Launch Press Conference	TBC - Fri 9/17 ▽																																										
16	LVOS (Launch Vehicle On Stand)	Fri 9/17 ▽																																										
17	Media Day	TBC - Mon 9/27 ▽																																										
18	KDP-E DPMC Review (MRB)	Tues 9/28 (1:30 - 4:30 PM EDT) ▽																																										
19	Transport S/C to VIF, S/C Mate to LV	Thurs 10/7 ▽																																										
20	Flight Readiness Review (FRR)	TBC - Fri 10/8 ▽																																										
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/5:34 AM EDT ▽																																										
26	Planetary Launch Period (23 Days)	Sat 10/16 - Sun 11/7 ▽																																										
27	Post Launch Assessment Review (PLAR)	TBC - Tues 11/30 ▽																																										

Sample

Road To Schedules

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

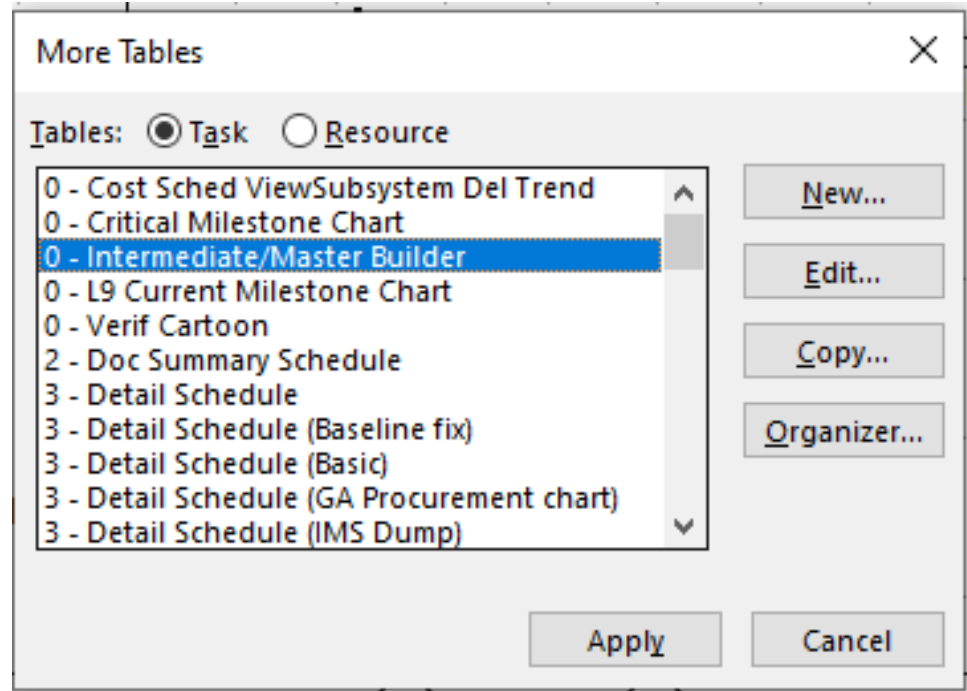
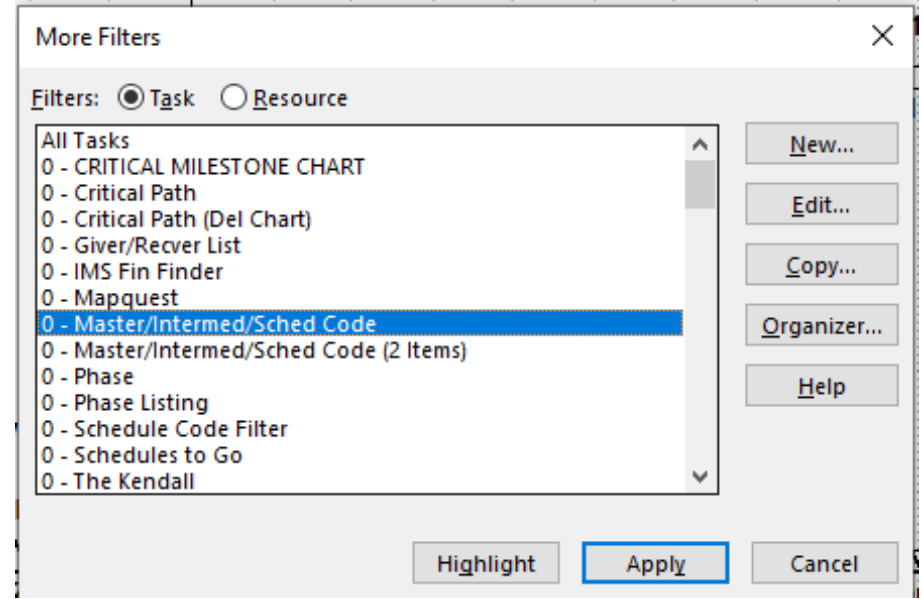
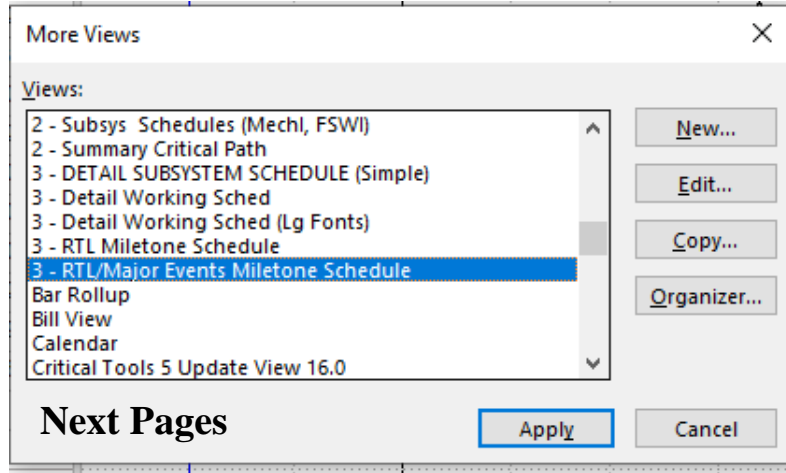
Item No.	Review Name	2021																																										
		F	M	A	M	J	J	A	S	O	N	D																																
		31	7	14	21	28	7	14	21	28	4	11	18	25	2	9	16	23	30	6	13	20	27	4	11	18	25	1	8	15	22	29	5	12	19	26	3	10	17	24	31	7	14	21
1	PER	▼ Tues 2/16 - Thurs 2/18																																										
2	Perform S/C Modal Survey	▼ Fri 3/12 - Sat 3/13																																										
3	Perform S/C Acoustic Test	▼ Fri 3/19 - Sat 3/20																																										
4	Perform S/C Sine Vibe Test	▼ Sat 4/3 - Mon 4/12																																										
5	Perform S/C EMI/EMC/Self Compat/Plugs Out Test	▼ Mon 4/26 - Fri 4/30																																										
6	Perform TVAC Testing on S/C (24/7 throughout)	▼ Thu 5/13 (Lift into Chamber) - Mon 6/7 (Lift out of Chamber)																																										
7	Friends & Family Day at LM	▽ Fri 7/9																																										
8	S/C PSR (Pre-Ship Review)	▽ Tues 7/20 - Thurs 7/22																																										
9	S/C Ship to [REDACTED]	▽ Friday 7/30																																										
10	FOR/ORR	▽ Tues 8/10 - Thurs 8/12																																										
11	FOR/ORR SRB Snapshot Review (One Pager)	▽ Mon 8/16																																										
12	KDP-E Code 400 Review	▽ Tues 8/24																																										
13	KDP-E CMC Review (MRR)	▽ Wed 8/25																																										
14	Safety & Mission Success Review (SMSR)	Mon 9/13 (1-4 PM EDT) ▽																																										
15	HQ Pre-Launch Press Conference	TBC - Fri 9/17 ▽																																										
16	LVOS (Launch Vehicle On Stand)	Fri 9/17 ▽																																										
17	Media Day	TBC - Mon 9/27 ▽																																										
18	KDP-E DPMC Review (MRB)	Tues 9/28 (1:30 - 4:30 PM EDT) ▽																																										
19	Transport S/C to VIF, S/C Mate to LV	Thurs 10/7 ▽																																										
20	Flight Readiness Review (FRR)	TBC - Fri 10/8 ▽																																										
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	Lucy Launch	Sat 10/16 @ approx 9:34 UTC/5:34 AM EDT ▽																																										
26	Planetary Launch Period (23 Days)	Sat 10/16 - Sun 11/7 ▽																																										
27	Post Launch Assessment Review (PLAR)	TBC - Tues 11/30 ▽																																										

Sample

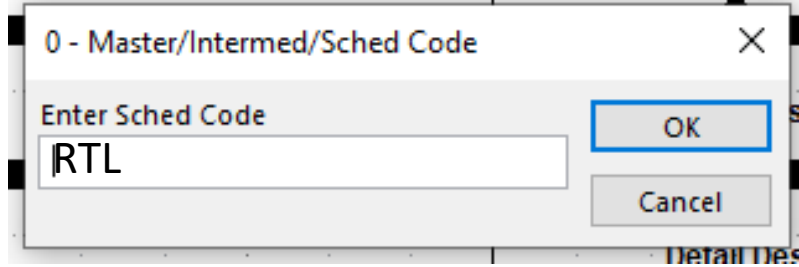
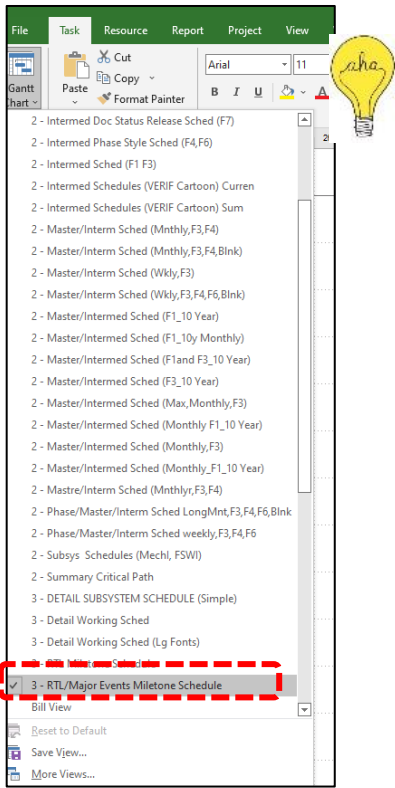
Why are we still doing it like this?



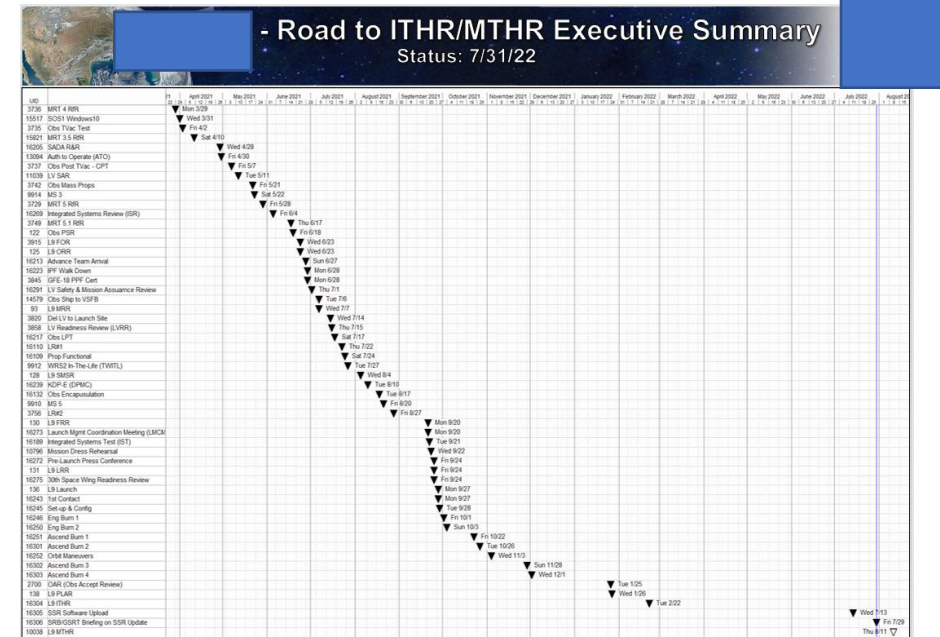
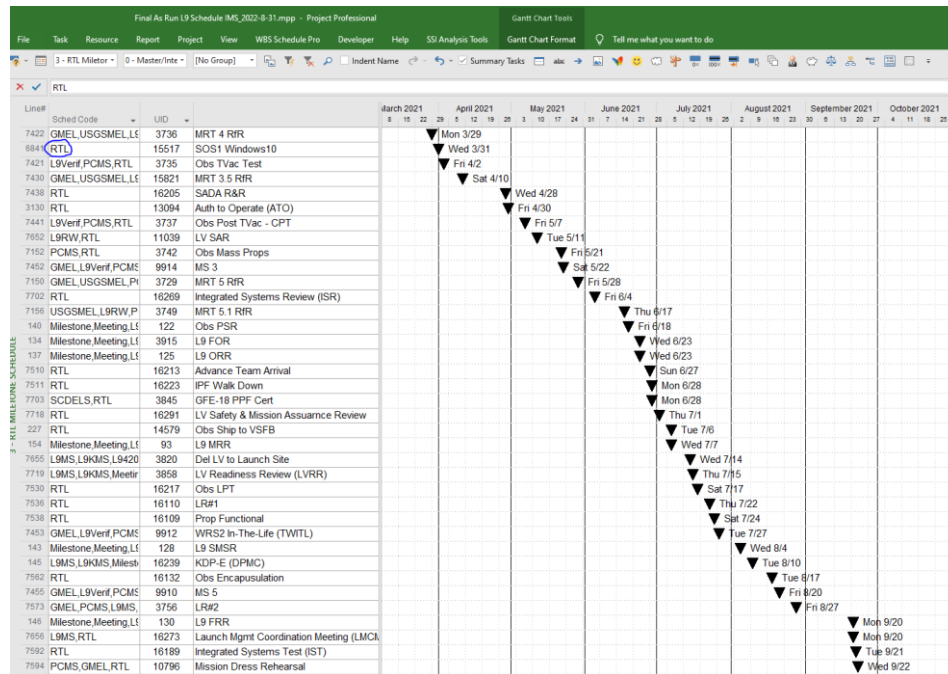
Road To Schedules



Road To Schedules



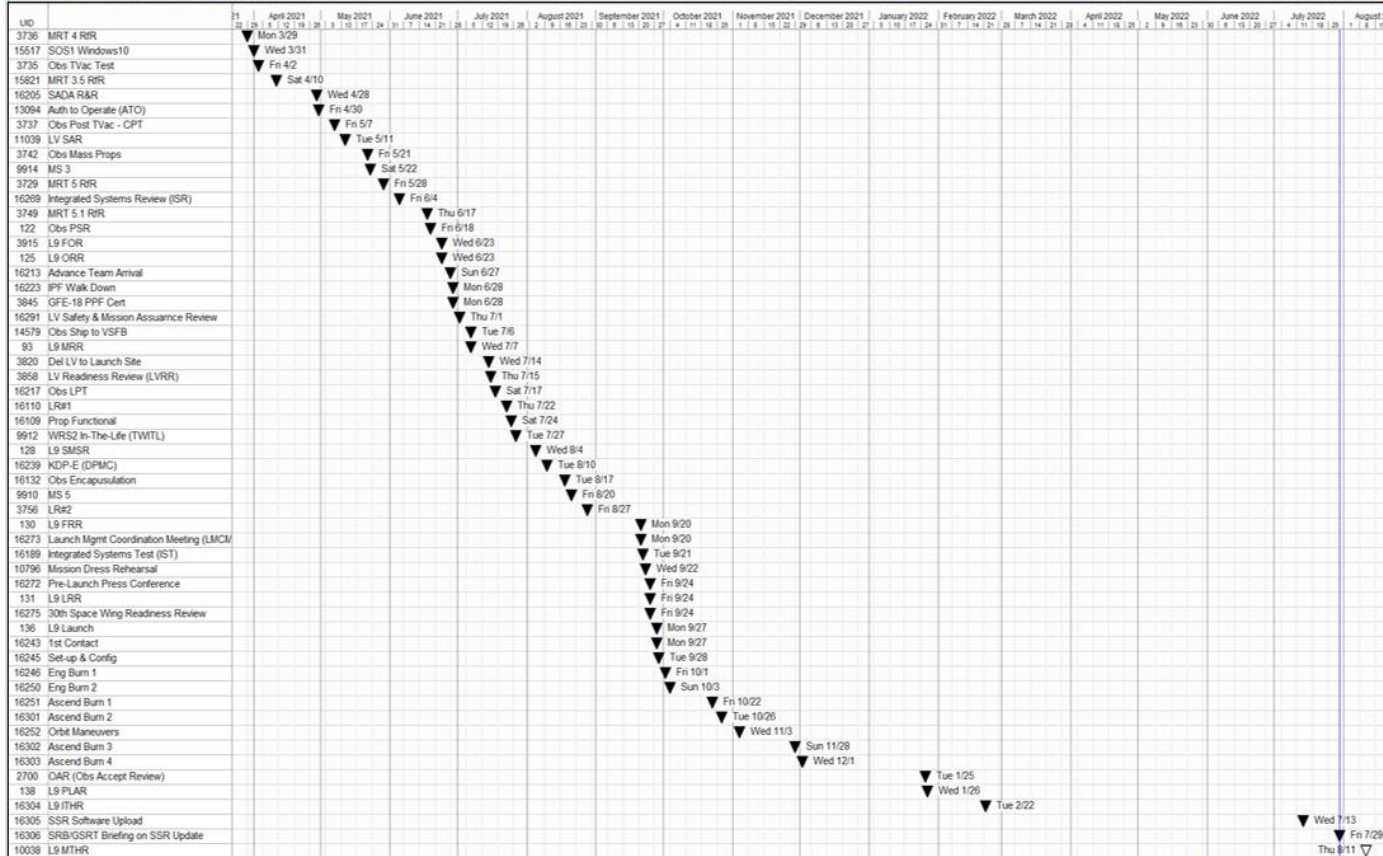
Abracadabra!!!



Road To Schedules

Road to ITHR/MTHR Executive Summary

Status: 7/31/22



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

Save your time and use the MS project tool

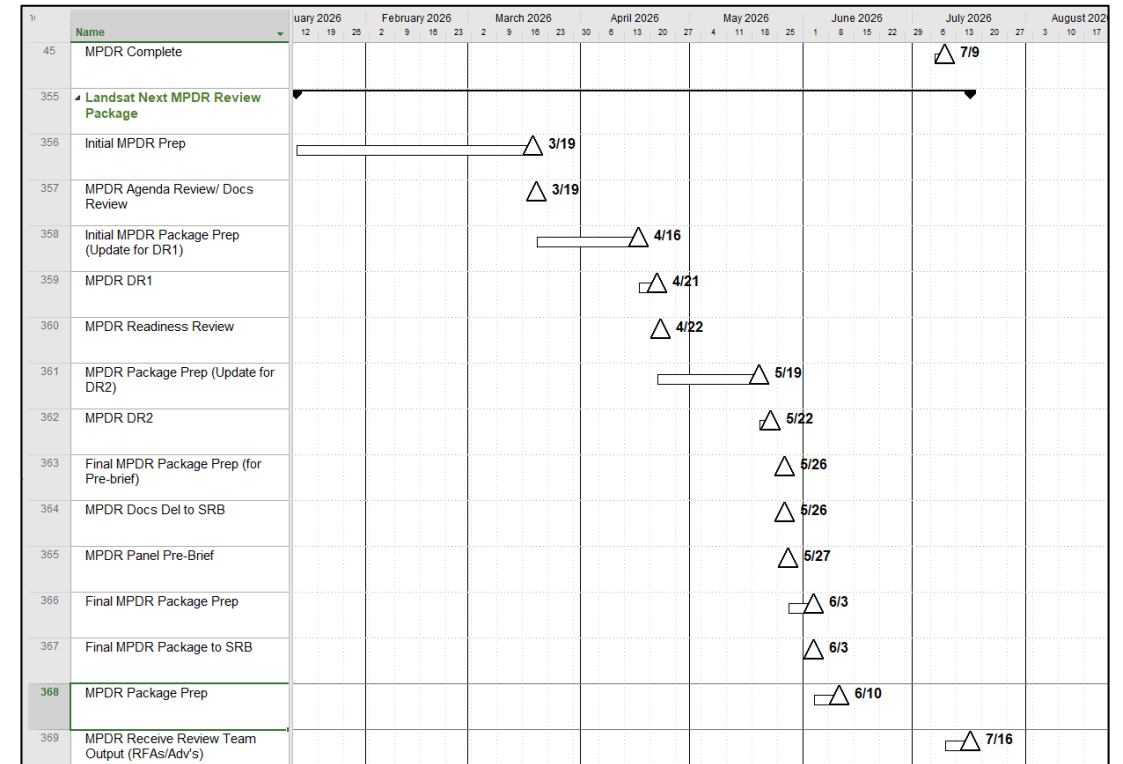
Hand created by a scheduler after DPM rushes in with a special request.

- 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)

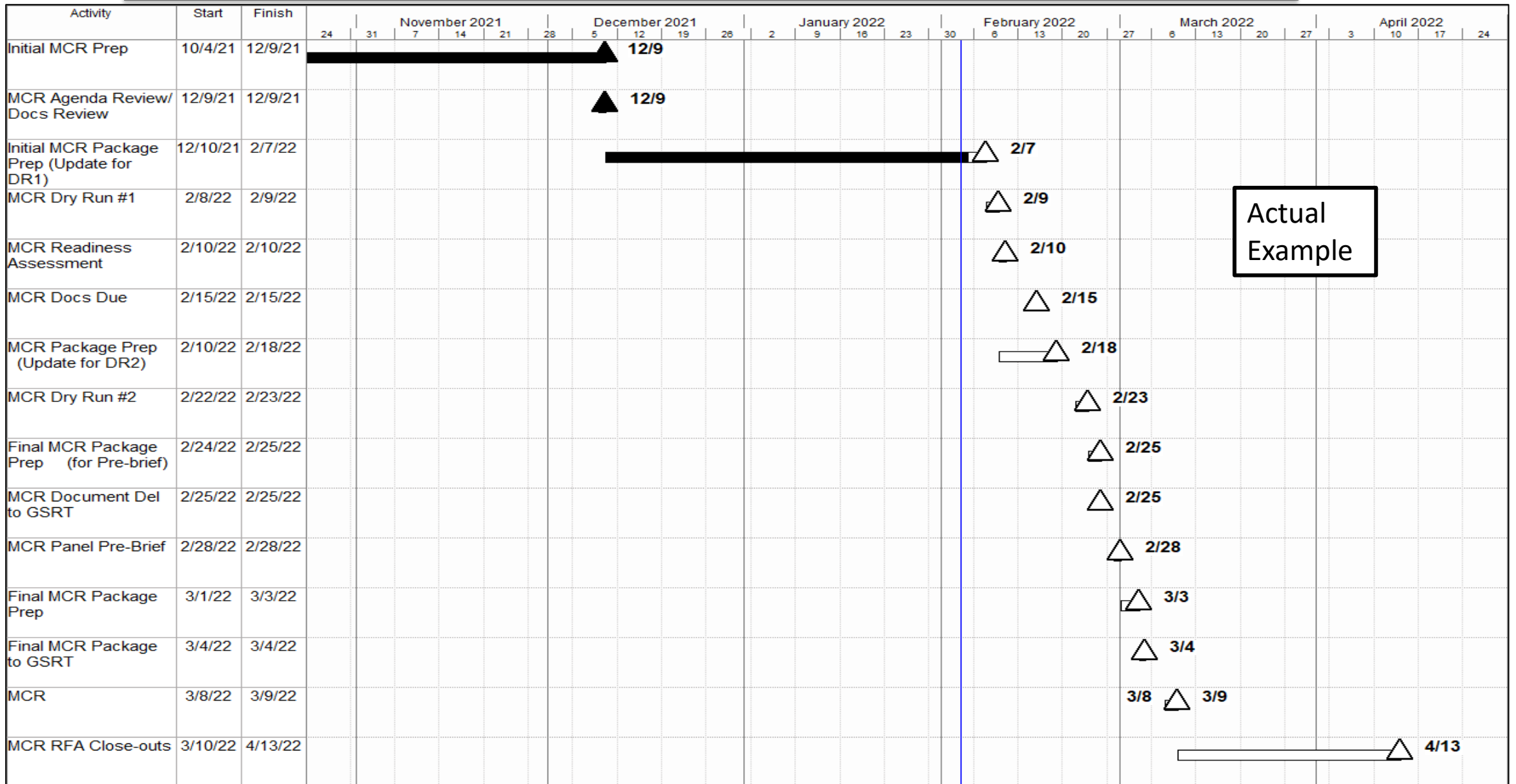
Takes a life of its own

Status Date: July 6, 2017

Item No.	Task Name	Start Date	Finish Date	2017			
				June	July	August	September
1	Chart Kickoff	7/6/17	7/6/17		▲ 7/6		
2	Chart Development	7/6/17	8/30/17	▲ 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 8.0: 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			▲ 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	▲ Chart Kickoff/Due date		▲ 8/15	
20	SC Dry Run	8/17/17	8/17/17	◆ Dry Run Date		◆ 8/17	
21	Semi Dress Rehearsal	8/22/17	8/24/17	▲ Semi Dress Rehearsal		▲ 8/24	
22	Final/Current Status Update/Due COB	8/30/17	8/30/17	▲ Final Chart Update		▲ 8/30	
23	Chart Proof/Review	8/31/17	8/31/17	▲ Internal Actions		▲ 8/31	
24	Charts to SRB	9/1/17	9/1/17	▲ Readiness 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



Road to MCR



Actual Example

Helping the Project with Custom Charts

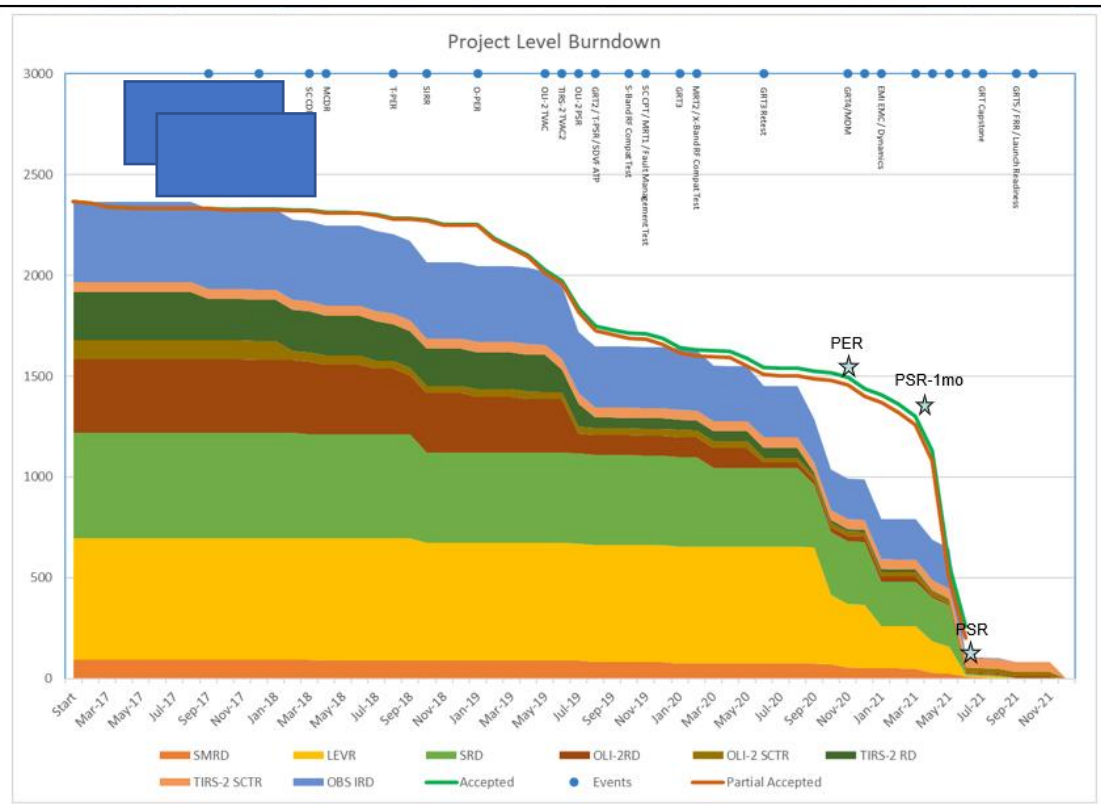


Project Sys Eng - Verification Team

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

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.

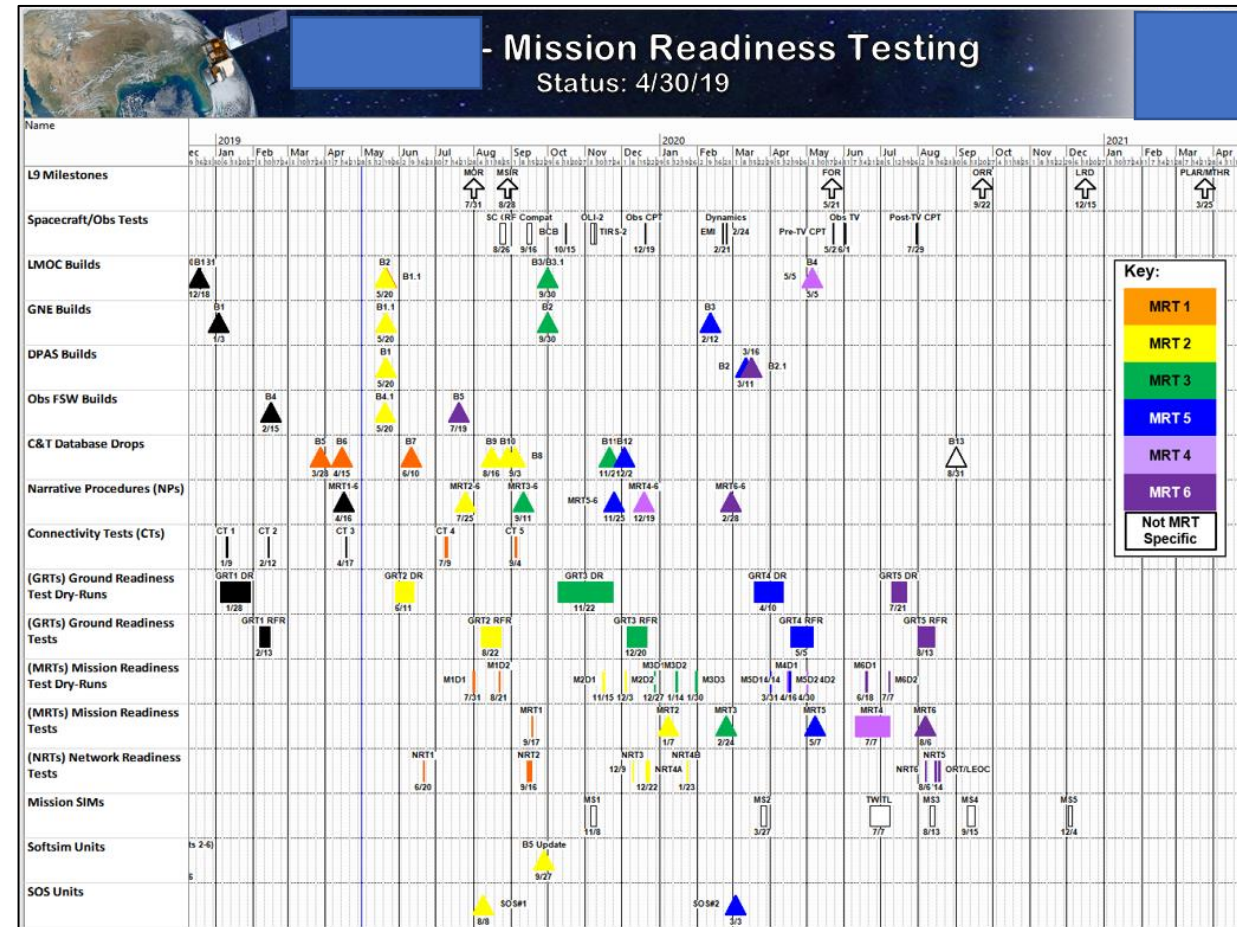
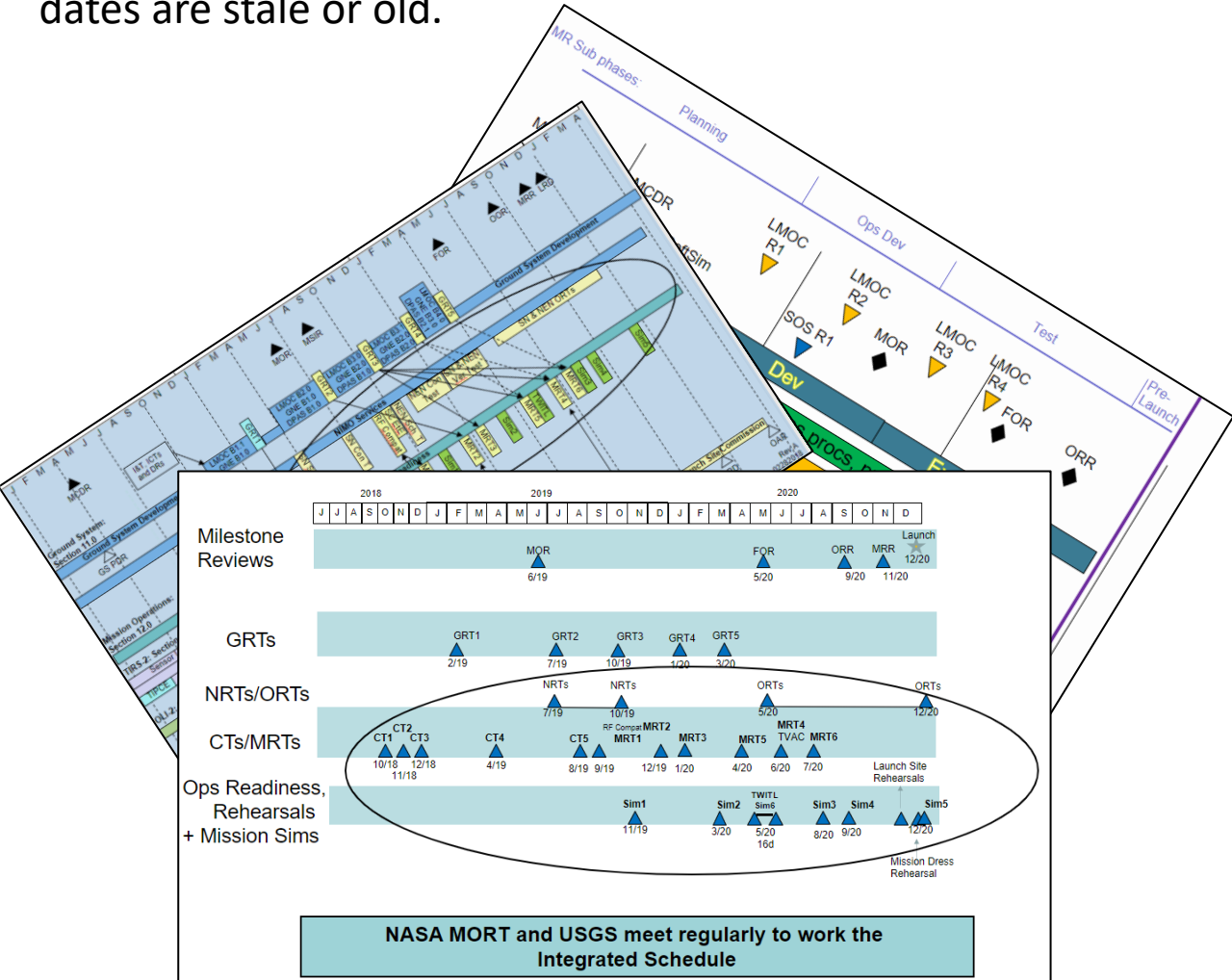


Line#	Sched Code	UID	Name	%	Dur	Start	Finish
2874	L9Verif,PCMS	2592	Telescope Focus Test 1-3 Stray Light & Eval	100%	52d	9/7/17	11/21/17
843	L9Verif,PCMS	727	FSW - FQT	100%	3d	12/4/17	12/6/17
2879	L9Verif,PCMS	10457	TVac Testing	100%	10d	1/26/18	2/4/18
5162	L9Verif,PCMS	9537	OPS-2: On-Orbit Commissioning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

Mission Readiness Schedules

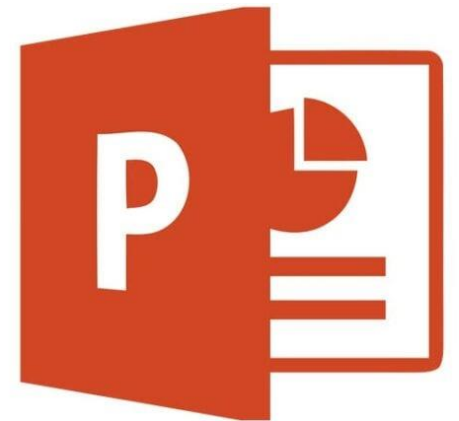
Various Subsystem Teams – Will hand draw schedules for various reviews and often time the dates are stale or old.

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





Inserting Graphics onto PowerPoint Slides



Inserting Graphics onto PowerPoint Slides

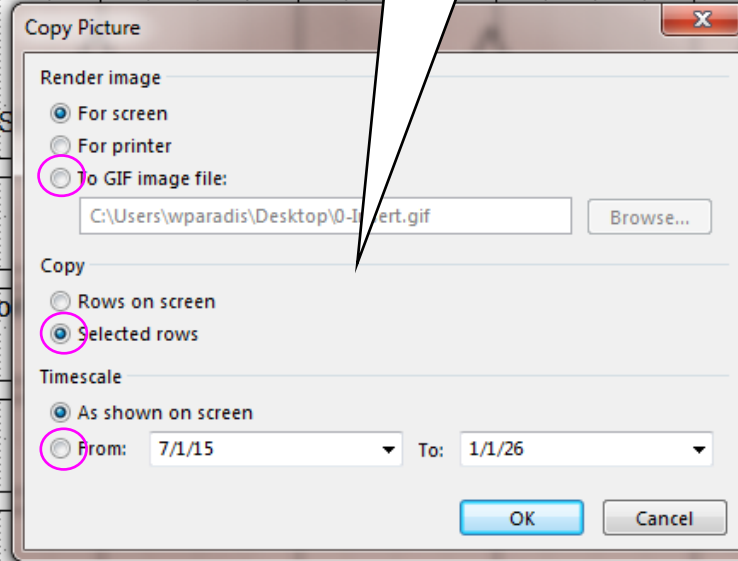
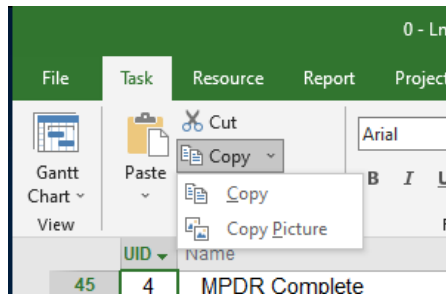
Create a “gif” file that you will always use and store it in an easy place to re-use.
“0-Insert.gif”

GIF

GIF

GIF

Copy Picture icon or Task – Clipboard – Copy – Copy Picture



GIF

GIF

GIF



Inserting Graphics onto PowerPoint Slides

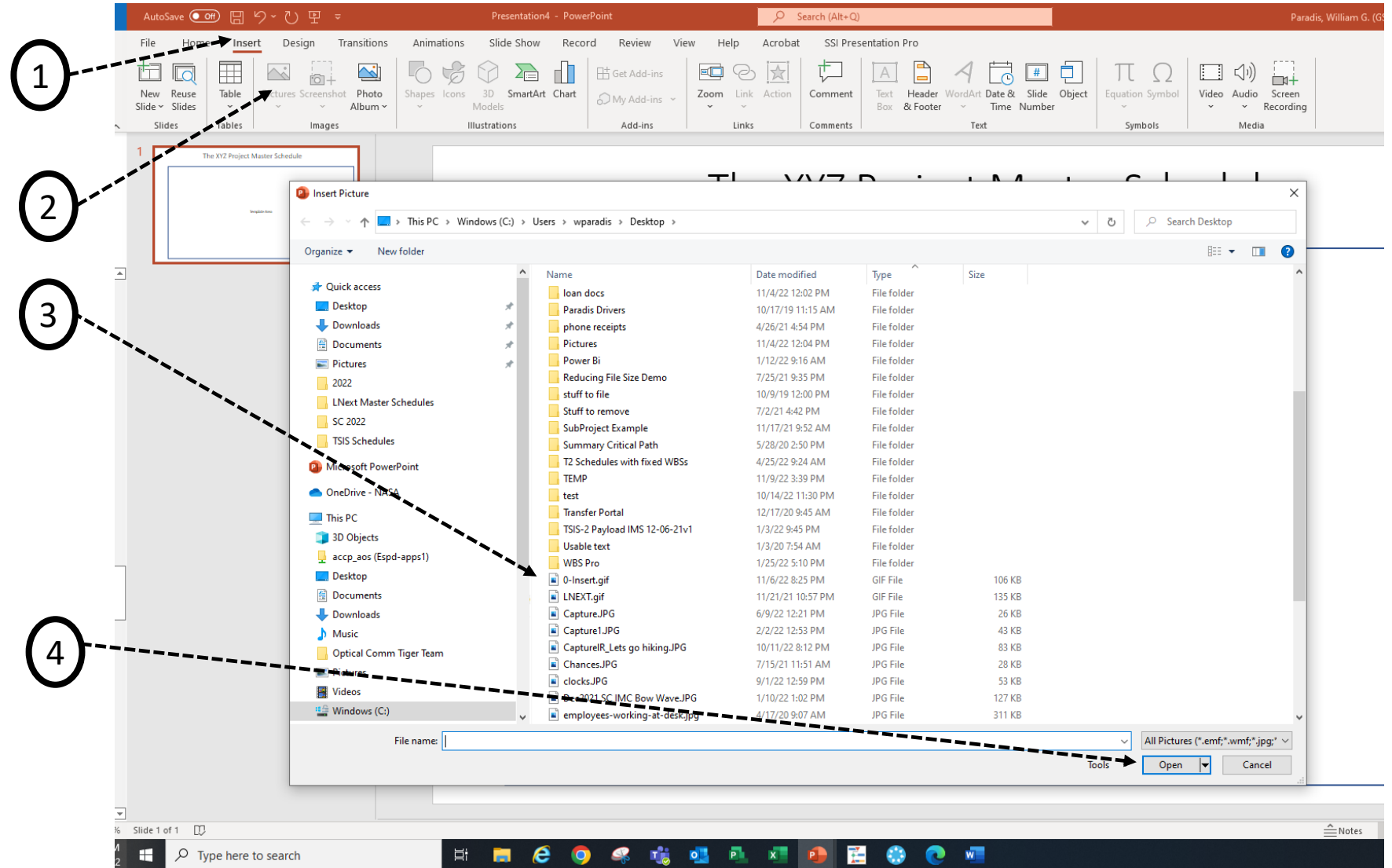
The XYZ Project Master Schedule

Steps:

1. Insert
2. Picture
3. Select 0-Insert.gif
4. Open

Template Area

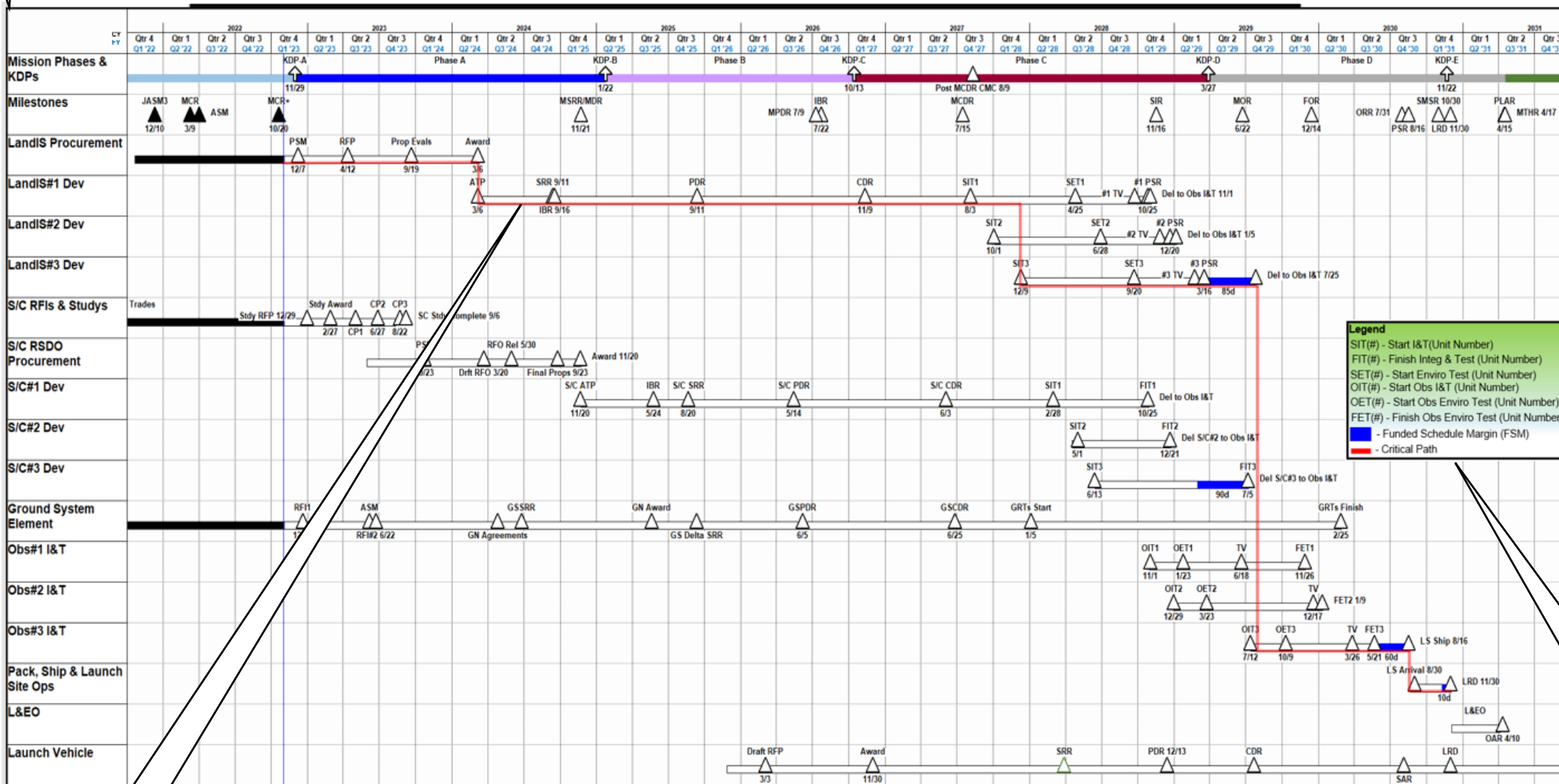
Its not Copy and Paste!!



Resize to Suit

Inserting Graphics onto PowerPoint Slides

The XYZ Project Master Schedule



Add Critical Path Lines etc

Add legend & notes if desired

Questions & Comments



“Getting More”
Out of the MS Project IMS

The End