

NetPoint + GPM
CONFERENCE
May 11 & 12, 2023

Collaborating with NetPoint

To Create Construction Schedules for Pharmaceutical and Manufacturing Projects

Presented by:
Eduardo Nazario

AGENDA



Interactive Planning Sessions

Importance of planning in early stages



Critical Path Analysis

Deep dive analysis of longest path and near critical activities



Schedule Updates

Weekly update of summary schedule to review project progress



Detail Planning

Perform "what-if" scenarios to evaluate risk and mitigation



Independent Schedule Assessment

Review and assess current planning and scheduling strategies



Master Schedule Programs

Review and integrate different schedules from several workstreams on a major program



Schedule Risk Assessments

Create model to be use in Monte Carlo or NetRisk iterations

MEET THE PRESENTER

Eduardo Nazario

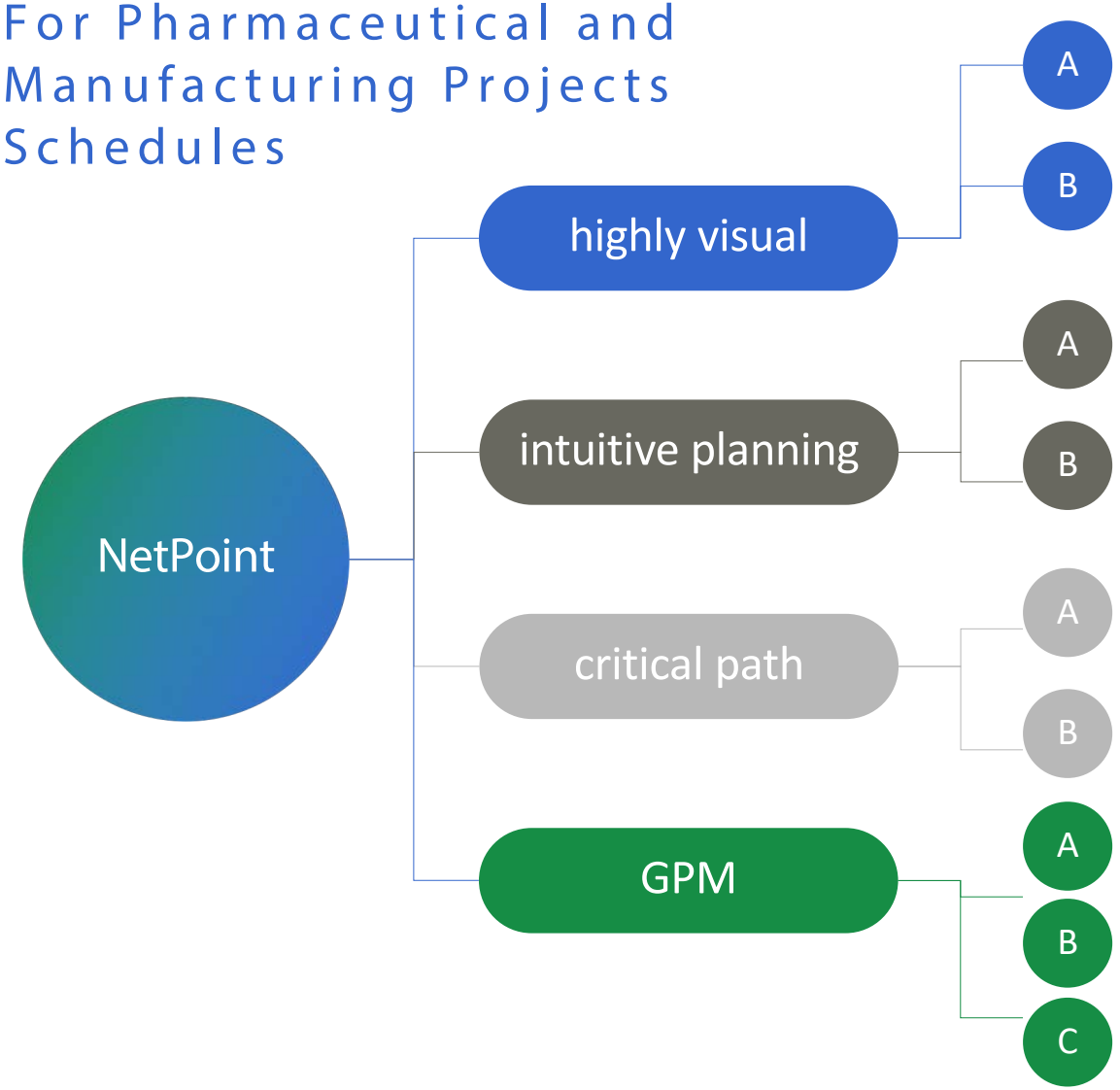
Managing Director

Mr. Eduardo Nazario has extensive experience in capital planning, project management, and project controls for the pharmaceutical industry. He is a proven expert in preparing and updating construction schedules; planning, coordinating, and executing construction activities; supervising subcontractor work; and evaluating vendors and subcontractors. Mr. Nazario's software knowledge includes NetPoint®, Primavera P6, Primavera Enterprise (P3e), Primavera Project Planner (P3), PrimeContract, and Microsoft Project.

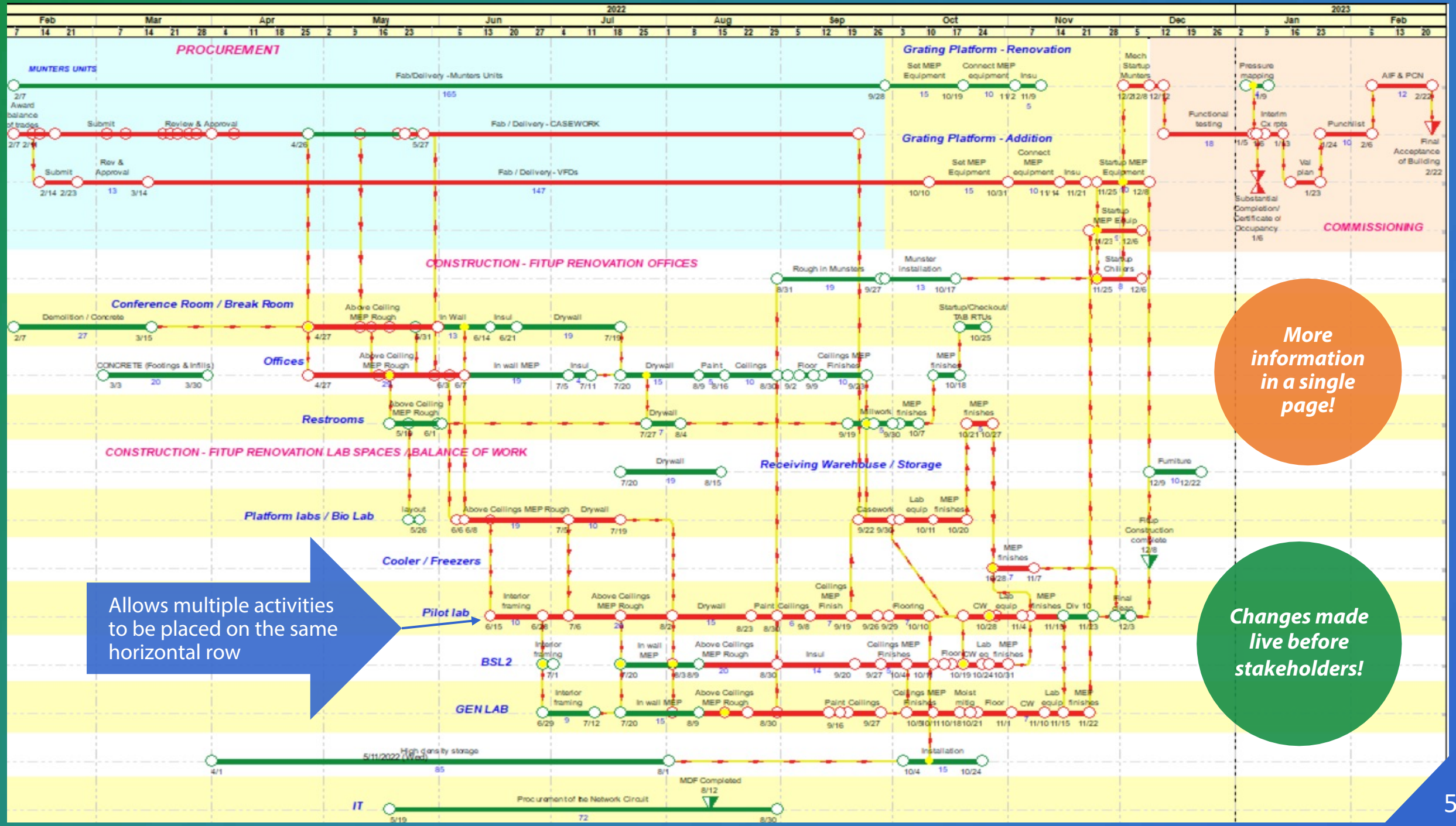


Benefits of NetPoint

For Pharmaceutical and Manufacturing Projects Schedules



- Easy presentation of essential project information
- Highly interactive
- Can perform same calculations as Primavera
- Ideal for Level 1-2 management and executive-level schedule representations
- Easy to convey to stakeholders at all levels of expertise
- Better way to present other near critical paths
- Allows multiple activities to be placed on the same horizontal row
- Permits more schedule information to fit onto a single page
- Especially effective in planning sessions where schedule changes are made live before a group of stakeholders



Allows multiple activities to be placed on the same horizontal row

More information in a single page!

Changes made live before stakeholders!

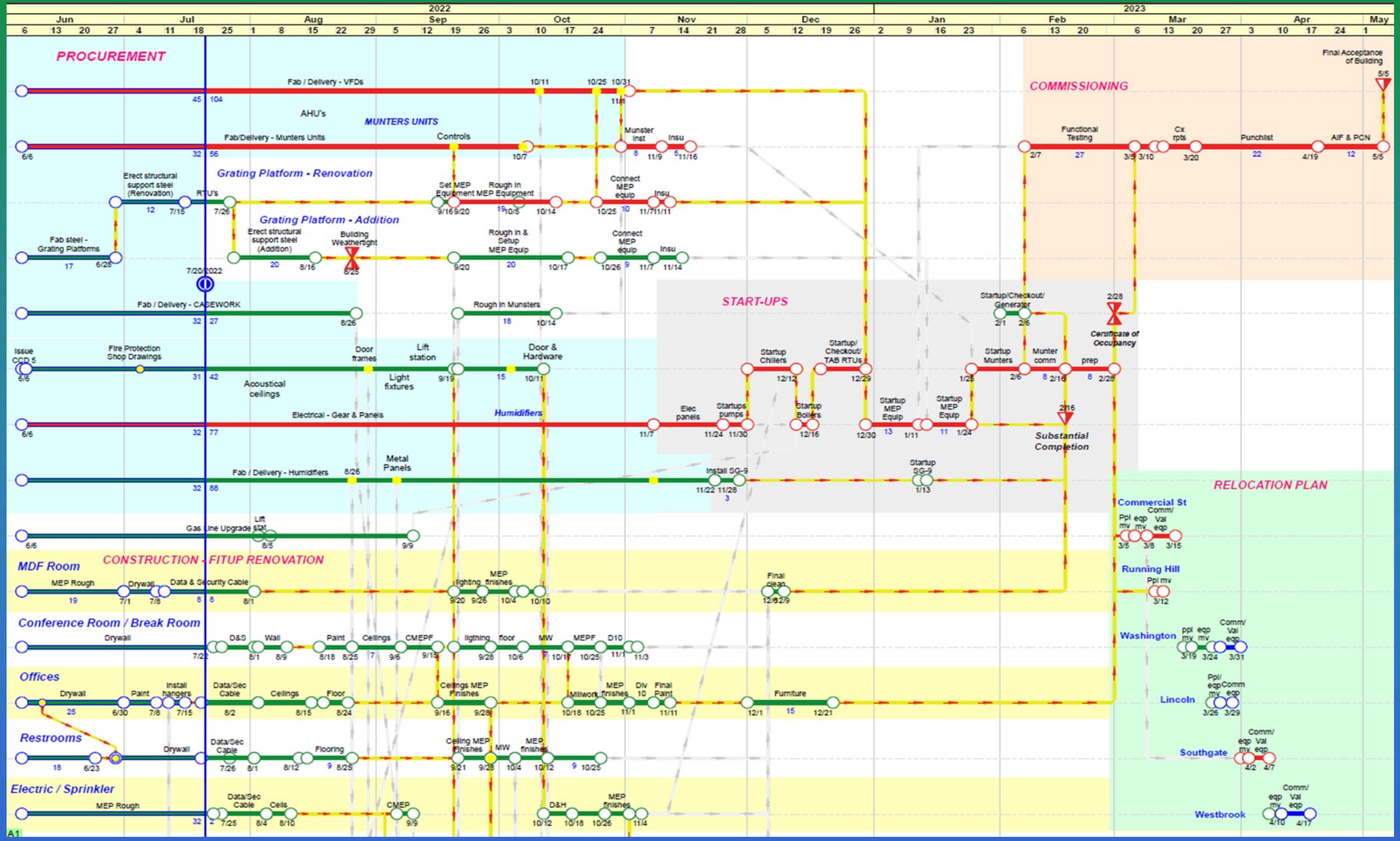
INTERACTIVE PLANNING SESSIONS

importance of planning in early stages

Interactive Planning Sessions

Critical Early Involvement

- Effective project management requires developing and maintaining summary and detailed project schedules for all construction phases.
- Schedule management starts well before construction begins.
- The planning phase is where we schedule each task associated with design, bidding, construction, and commissioning CQV to avoid project delays.
- In the IPS, usually you take an already develop summary schedule and add detail to it based on the feedback from the Project Key Stakeholders.
- Identifies work to be done, in which sequence it is needed, and defines which work is more urgent to ensure targeted completion.


2022
2023
Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May
PROCUREMENT
Fab / Delivery - VFDs
AHU's
MUNTERS UNITS
Fab/Delivery - Munters Units
Controls
Munster Inst
Insu
Grating Platform - Renovation
Erect structural support steel (Renovation)
RTU's
Set MEP Equipment
Rough In MEP Equipment
Connect MEP equip
Grating Platform - Addition
Fab steel - Grating Platforms
Erect structural support steel (Addition)
Building Weathertight
Rough In & Setup MEP Equip
7/20/2022
Fab / Delivery - CASEWORK
Rough In Munsters
Issue CCD 5
Fire Protection Shop Drawings
Door frames
Lift station
Door & Hardware
Acoustical ceilings
Light fixtures
Electrical - Gear & Panels
Humidifiers
Fab / Delivery - Humidifiers
Metal Panels
Gas Line Upgrade
Lift stat
CONSTRUCTION - FITUP RENOVATION
MDF Room
MEP Rough
Drywall
Data & Security Cable
lighting
MEP finishes
Conference Room / Break Room
D&S
Wall
Paint
Ceilings
CMEPF
lighting
floor
MW
MEPF
D10
Offices
Install hangers
Data/Sec Cable
Floor
Ceilings MEP Finishes
Millwork
MEP finishes
Div 10
Final Paint
Furniture
Restrooms
Flooring
Ceiling MEP Finishes
Electric / Sprinkler
Cells
CMEP
D&H
START-UPS
Startup Chillers
Startup/ Checkout/ TAB RTUs
Elec panels
Startups pumps
Startup Boilers
Startup MEP Equip
Startup/Checkout/ Generator
Startup Munters
Munter comm
prep
Certificate of Occupancy
Substantial Completion
Install SG-9
Startup SG-9
COMMISSIONING
Functional Testing
Cx rpts
Punchlist
AIF & PCN
Final Acceptance of Building
RELOCATION PLAN
Commercial St
Running Hill
Washington
Lincoln
Southgate
Westbrook
Ppl mv
eqp mv
Comm/ Val eqp

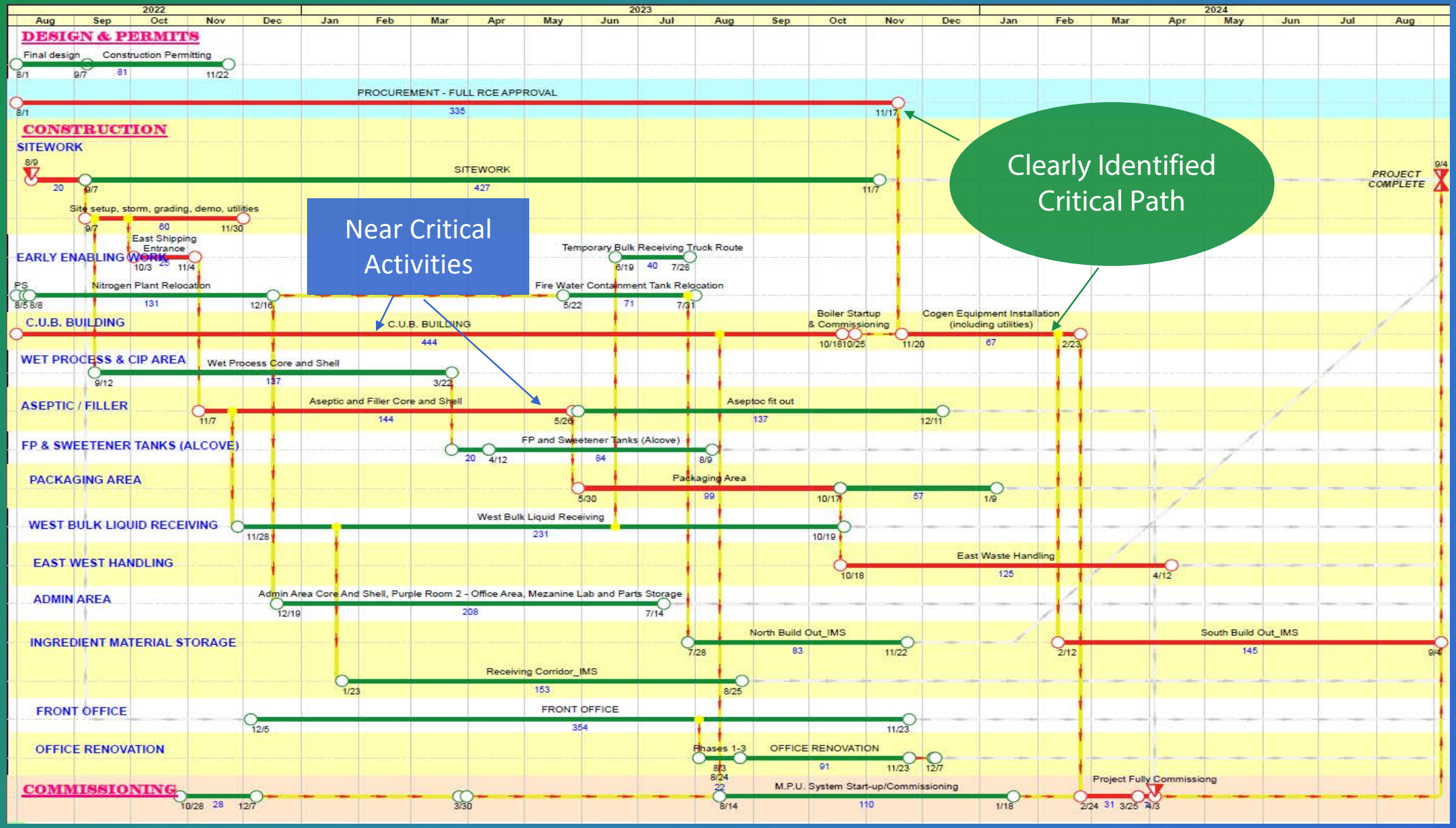
CRITICAL PATH ANALYSIS

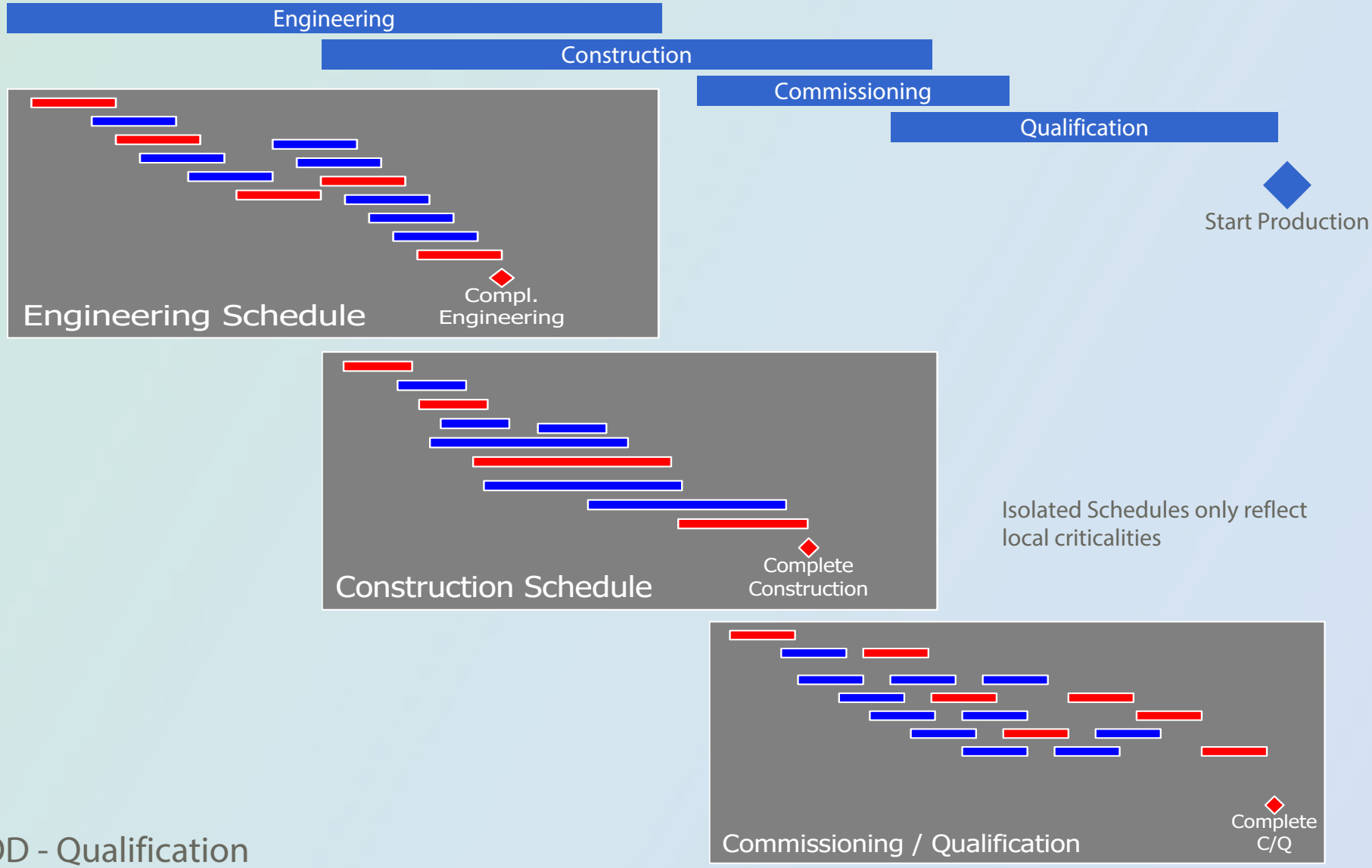
deep dive analysis of longest path and
near critical activities

Critical Path Analysis

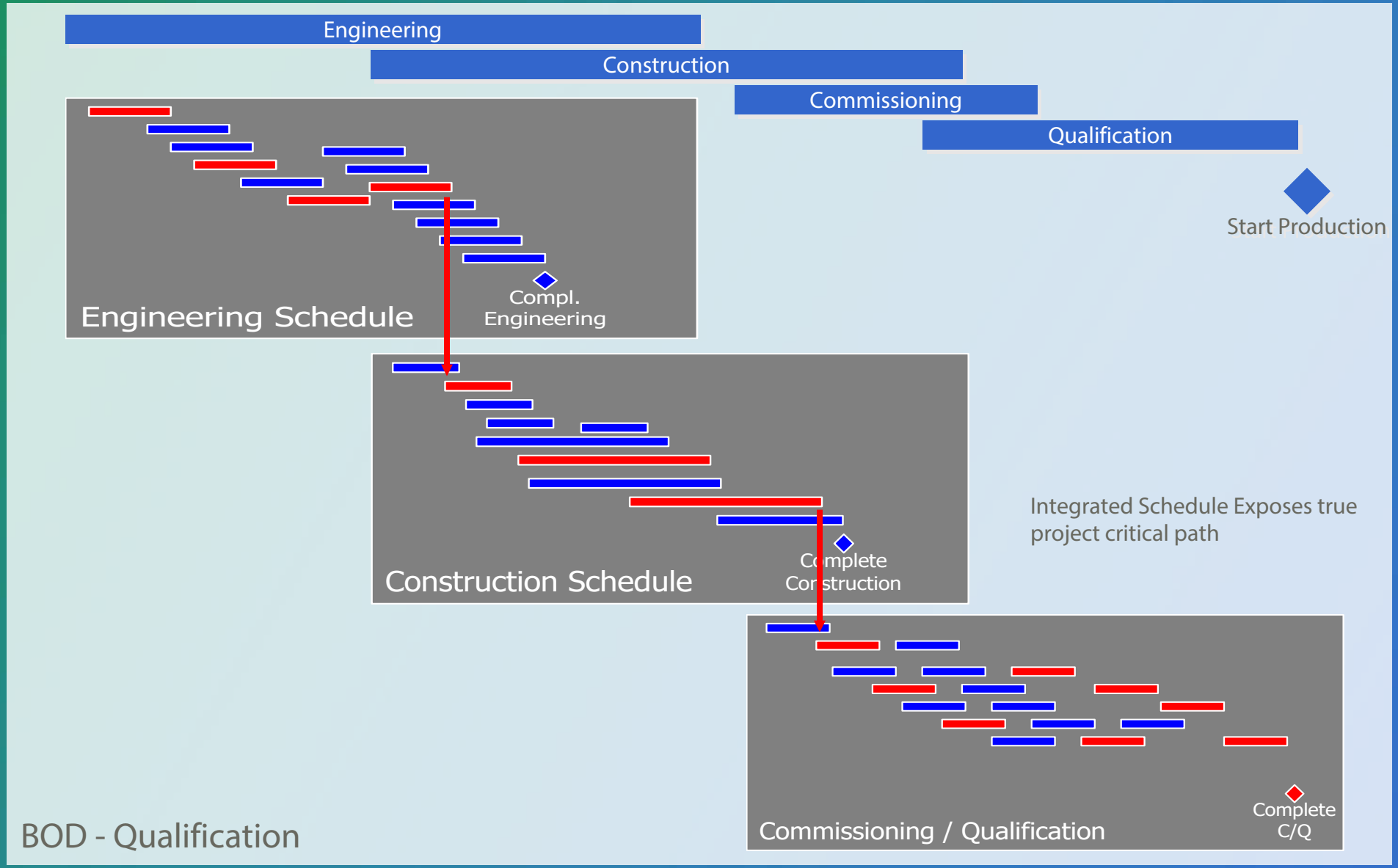
Critical Early Involvement

- First: deep dive analysis of longest path and near critical activities
- Monitor progress on critical path and sub- or near critical paths.
- Identify lowest float path and trace flow activities on this path and see if it is “normal”: in a bar chart, it would be a continuous, cascading flow of work from data date to end milestone and all activities on the path make sense.
- Near-critical work: all sequences with float less than 5% to 10% of remaining duration of the overall schedule.
- Sequences with high float values: may be indication of missing logic.
- Inappropriate or overuse of constraints limits use of total float as an indicator of how much flexibility exists in schedule.


2022
2023
2024
Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug
DESIGN & PERMITS
Final design
Construction Permitting
8/1 9/7 81 11/22
PROCUREMENT - FULL RCE APPROVAL
8/1 335 11/17
CONSTRUCTION
SITEWORK
8/9 20 9/7
SITEWORK
427 11/7
PROJECT COMPLETE 9/4
Site setup, storm, grading, demo, utilities
9/7 60 11/30
East Shipping Entrance
10/3 25 11/4
EARLY ENABLING WORK
Temporary Bulk Receiving Truck Route
6/19 40 7/28
PS
8/5 8/8
Nitrogen Plant Relocation
131 12/16
Fire Water Containment Tank Relocation
5/22 71 7/31
C.U.B. BUILDING
C.U.B. BUILDING
444
Boiler Startup & Commissioning
10/18 10/25
Cogen Equipment Installation (including utilities)
11/20 67 2/23
WET PROCESS & CIP AREA
Wet Process Core and Shell
9/12 137 3/22
ASEPTIC / FILLER
Aseptic and Filler Core and Shell
11/7 144 5/26
Aseptoc fit out
137 12/11
FP & SWEETENER TANKS (ALCOVE)
FP and Sweetener Tanks (Alcove)
20 4/12 84 8/9
PACKAGING AREA
Packaging Area
5/30 99 10/17 57 1/9
WEST BULK LIQUID RECEIVING
West Bulk Liquid Receiving
11/28 231 10/19
EAST WEST HANDLING
East Waste Handling
10/18 125 4/12
ADMIN AREA
Admin Area Core And Shell, Purple Room 2 - Office Area, Mezanine Lab and Parts Storage
12/19 208 7/14
INGREDIENT MATERIAL STORAGE
North Build Out_IMS
7/28 83 11/22
South Build Out_IMS
2/12 145 9/4
Receiving Corridor_IMS
1/23 153 8/25
FRONT OFFICE
FRONT OFFICE
12/5 354 11/23
OFFICE RENOVATION
Phases 1-3
8/3 8/24 22
OFFICE RENOVATION
91 11/23 12/7
COMMISSIONING
10/28 28 12/7
3/30
M.P.U. System Start-up/Commissioning
8/14 110 1/18
Project Fully Commissioning
2/24 31 3/25 4/3
Near Critical Activities
Clearly Identified Critical Path



BOD - Qualification



BOD - Qualification

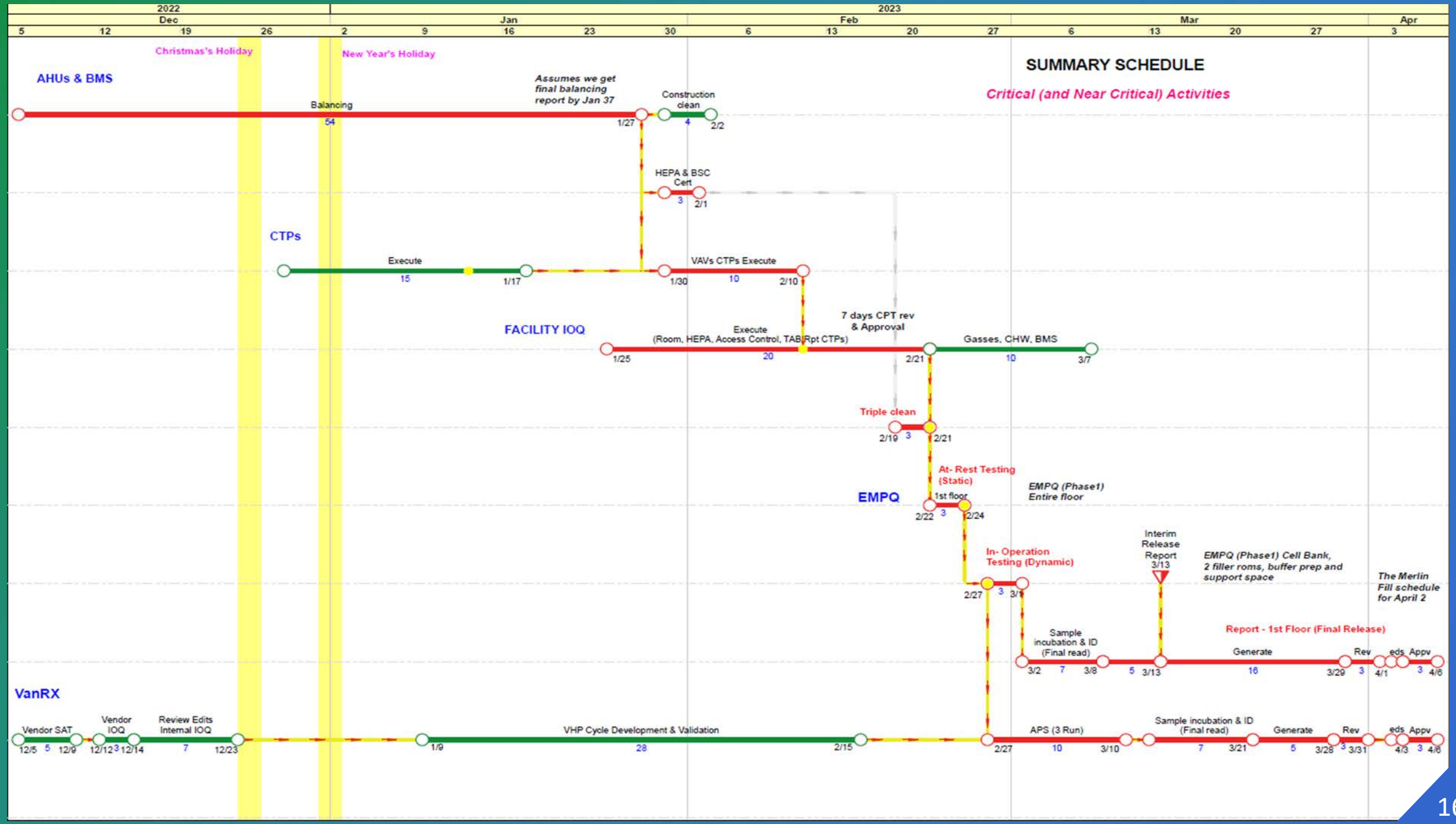
SCHEDULE UPDATES (WEEKLY)

update of summary schedule
to review project progress

Schedule Updates

Project Progress Review

- NetPoint helps to effectively capture the project progress.
- Updates:
  - ✓ Weekly, Bi-Weekly or Monthly
  - ✓ 2, 4, or 6 week lookahead
  - ✓ Identify critical path for a specific building
- Data collection on actual performance:
  - ✓ Direct observation (site visits, walks)
  - ✓ Quantity Surveying
  - ✓ Update from PM, site resources (superintendents & engineers)
  - ✓ Contractor reports
- For activities in progress, need to establish actual start date, actual finish date & interim progress completion (if not finished).
- During a weekly meeting, when the discussing the progress, the actual data can be modified live and helps to make the decision quicker.
- Schedule variances checks:
  - ✓ Are interim milestones or completion dates significantly different than previously scheduled?
  - ✓ Have the critical path or float values changed?
  - ✓ Which activities were worked out-of-sequence?


2022
Dec
5
12
19
26
2023
Jan
2
9
16
23
30
Feb
6
13
20
27
Mar
6
13
20
27
Apr
3
Christmas's Holiday
New Year's Holiday
SUMMARY SCHEDULE
Critical (and Near Critical) Activities
AHUs & BMS
Balancing
54
Assumes we get final balancing report by Jan 37
1/27
Construction clean
4
2/2
HEPA & BSC Cert
3
2/1
CTPs
Execute
15
1/17
VAVs CTPs Execute
1/30
10
2/10
FACILITY IOQ
Execute (Room, HEPA, Access Control, TAB Rpt CTPs)
1/25
20
7 days CPT rev & Approval
2/21
Gasses, CHW, BMS
10
3/7
Triple clean
2/19
3
2/21
EMPQ
At- Rest Testing (Static)
1st floor
2/22
3
2/24
EMPQ (Phase1) Entire floor
In- Operation Testing (Dynamic)
2/27
3
3/1
Interim Release Report
3/13
EMPQ (Phase1) Cell Bank, 2 filler roms, buffer prep and support space
The Merlin Fill schedule for April 2
Report - 1st Floor (Final Release)
Sample incubation & ID (Final read)
3/2
7
3/8
5
3/13
Generate
16
3/29
Rev
3
4/1
eds
Appv
3
4/6
VanRX
Vendor SAT
12/5
5
12/9
Vendor IOQ
12/12
3
12/14
Review Edits Internal IOQ
7
12/23
VHP Cycle Development & Validation
1/9
28
2/15
APS (3 Run)
2/27
10
3/10
Sample incubation & ID (Final read)
7
3/21
Generate
5
3/28
Rev
3
3/31
eds
Appv
3
4/6

DETAIL PLANNING

perform "what-if" scenarios to
evaluate risk and mitigation

Detail Planning

"what-if" scenarios

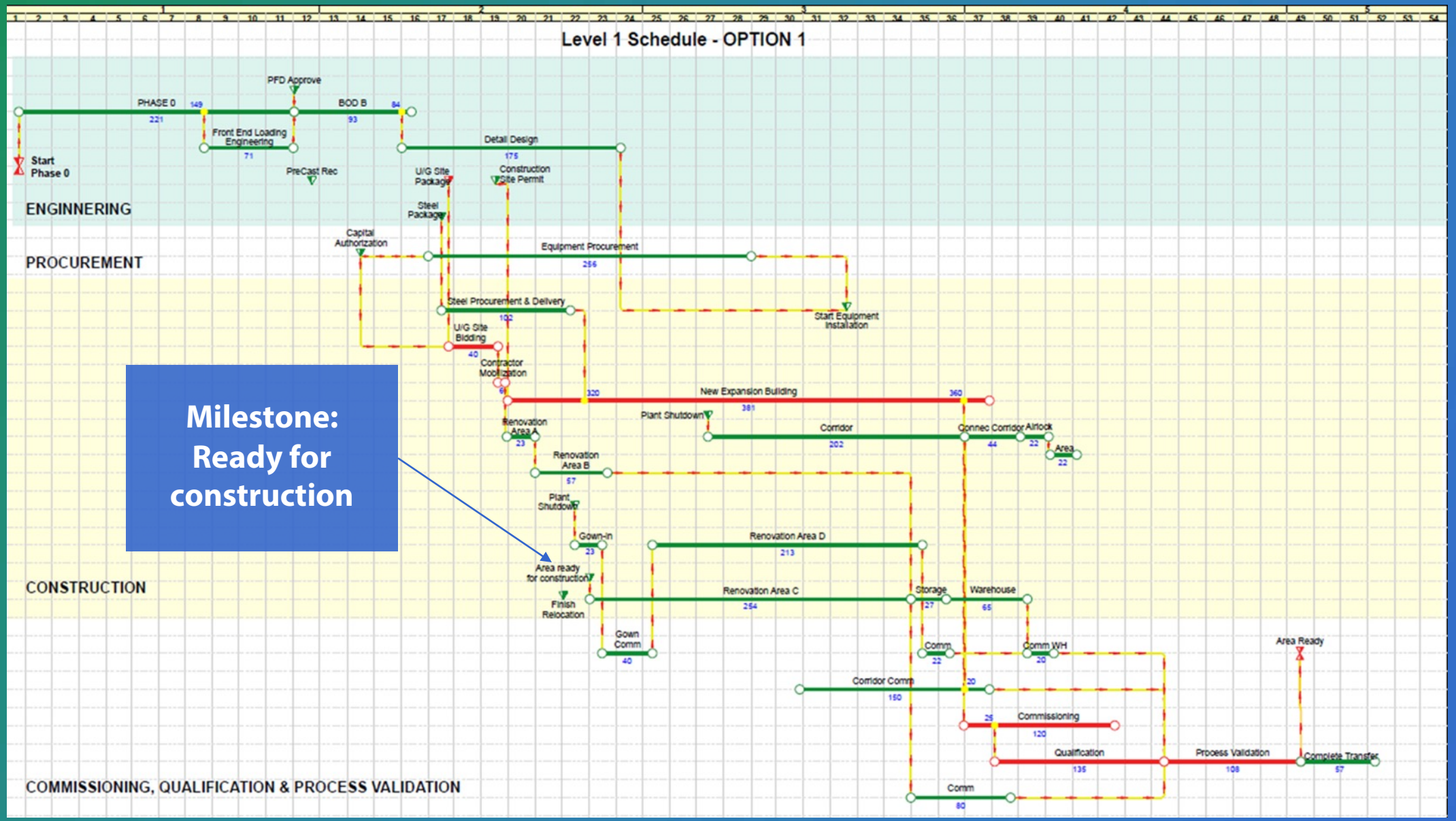


Using detail Level 2 NetPoint schedule, project team is able to determine overall impact (if any) to integrated schedule if an activity in a near critical path is delayed

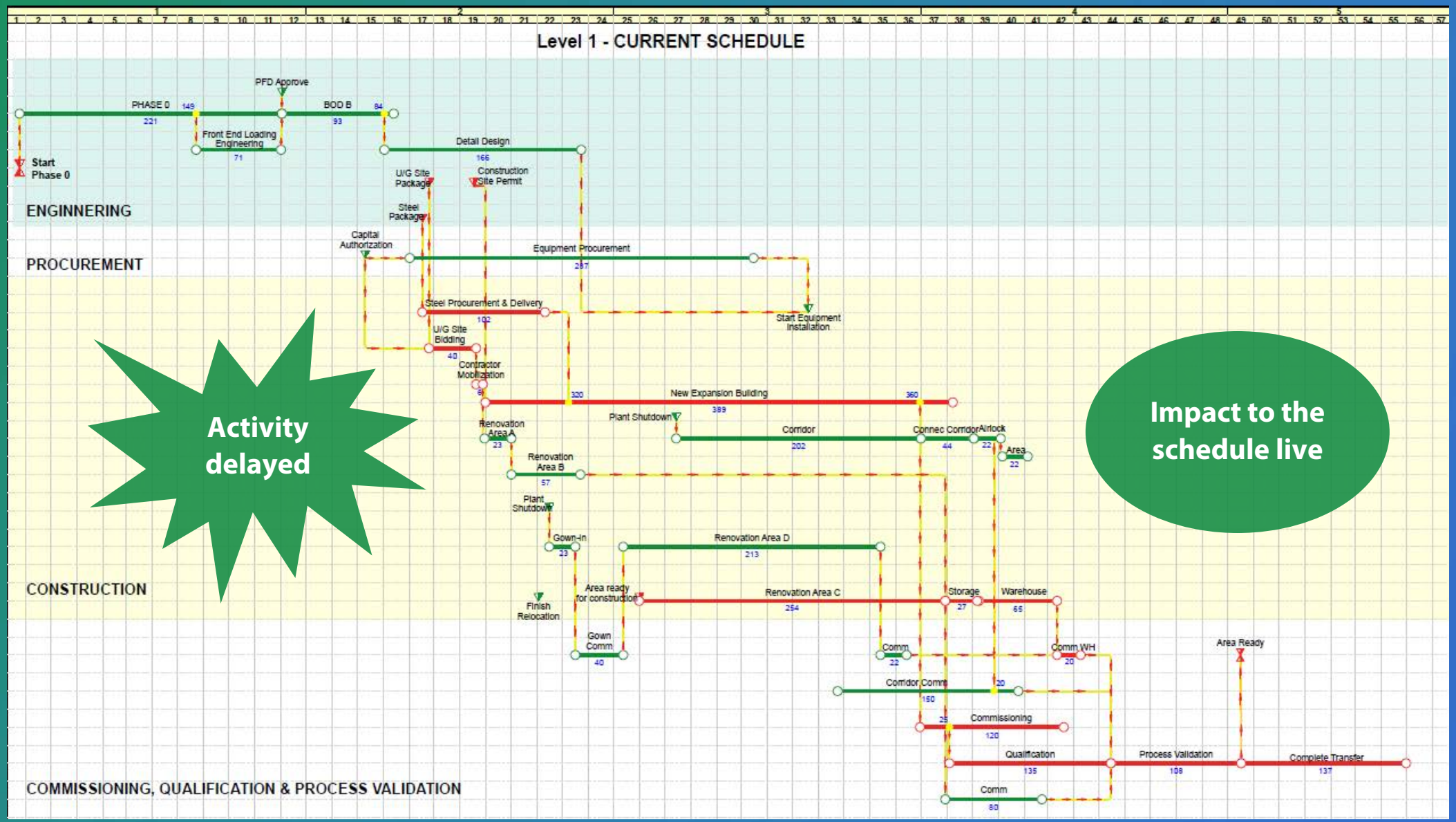


Multiple scenarios presented side by side to allow stakeholders to easily understand different aspects and issues

Scenario 1


Level 1 Schedule - OPTION 1
ENGINNERING
PROCUREMENT
CONSTRUCTION
COMMISSIONING, QUALIFICATION & PROCESS VALIDATION
Milestone: Ready for construction
PFD Approve
PHASE 0
BOD B
Front End Loading Engineering
Detail Design
Start Phase 0
PreCast Rec
U/G Site Package
Construction Site Permit
Steel Package
Capital Authorization
Equipment Procurement
Steel Procurement & Delivery
Start Equipment Installation
U/G Site Bidding
Contractor Mobilization
New Expansion Building
Plant Shutdown
Renovation Area A
Corridor
Connec Corridor
Airlock
Area
Renovation Area B
Plant Shutdown
Gown-in
Renovation Area D
Area ready for construction
Finish Relocation
Renovation Area C
Storage
Warehouse
Gown Comm
Comm
Comm WH
Area Ready
Corridor Comm
Commissioning
Qualification
Process Validation
Complete Transfer
Comm

Scenario 2


Level 1 - CURRENT SCHEDULE
PFD Approve
PHASE 0
149
221
BOD B
84
93
Front End Loading Engineering
71
Detail Design
166
Start Phase 0
U/G Site Package
Construction Site Permit
Steel Package
ENGINNERING
Capital Authorization
Equipment Procurement
287
PROCUREMENT
Steel Procurement & Delivery
192
Start Equipment Installation
U/G Site Bidding
40
Contractor Mobilization
8
320
New Expansion Building
360
389
Plant Shutdown
Renovation Area A
23
Corridor
202
Connec Corridor
44
Airlock
22
Area
22
Renovation Area B
57
Plant Shutdown
Gown-in
23
Renovation Area D
213
Area ready for construction
Renovation Area C
254
Storage
27
Warehouse
65
Finish Relocation
Gown Comm
40
CONSTRUCTION
Comm
22
Comm WH
20
Area Ready
Corridor Comm
150
20
25
Commissioning
120
Qualification
135
Process Validation
108
Complete Transfer
137
Comm
80
COMMISSIONING, QUALIFICATION & PROCESS VALIDATION
Activity delayed
Impact to the schedule live

INDEPENDENT SCHEDULE ASSESSMENT

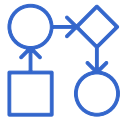
review and assess current planning and scheduling strategies

Independent Schedule Assessment

Provide Schedule Health Feedback



Review and assess current planning and scheduling strategies



Independent view on overall cycle time to develop and execute projects



Schedule complies with contract-mandated times or desired completion dates



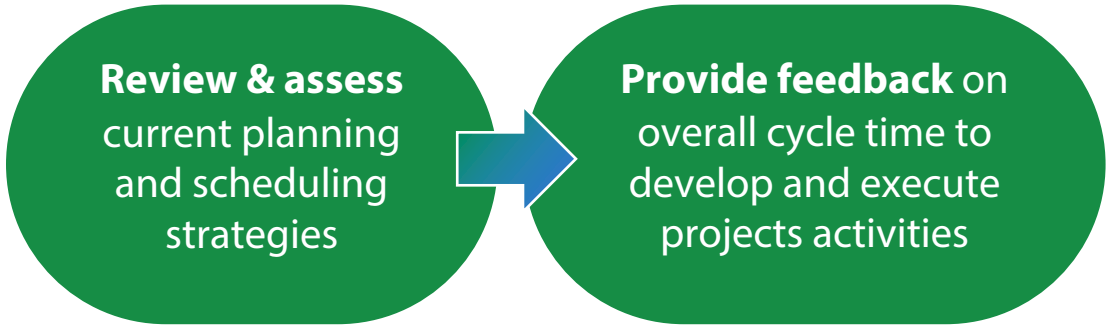
Schedule includes and identifies appropriate contingencies and what they should be used for



Identify use of constraints in schedule: should be minimized and may create “negative float," which needs to be reviewed and changed

Independence Schedule Assessments

Third party review and comparison with the industries benchmarks



01. **Scope Completeness**

02. **Schedule Basis & Assumptions**

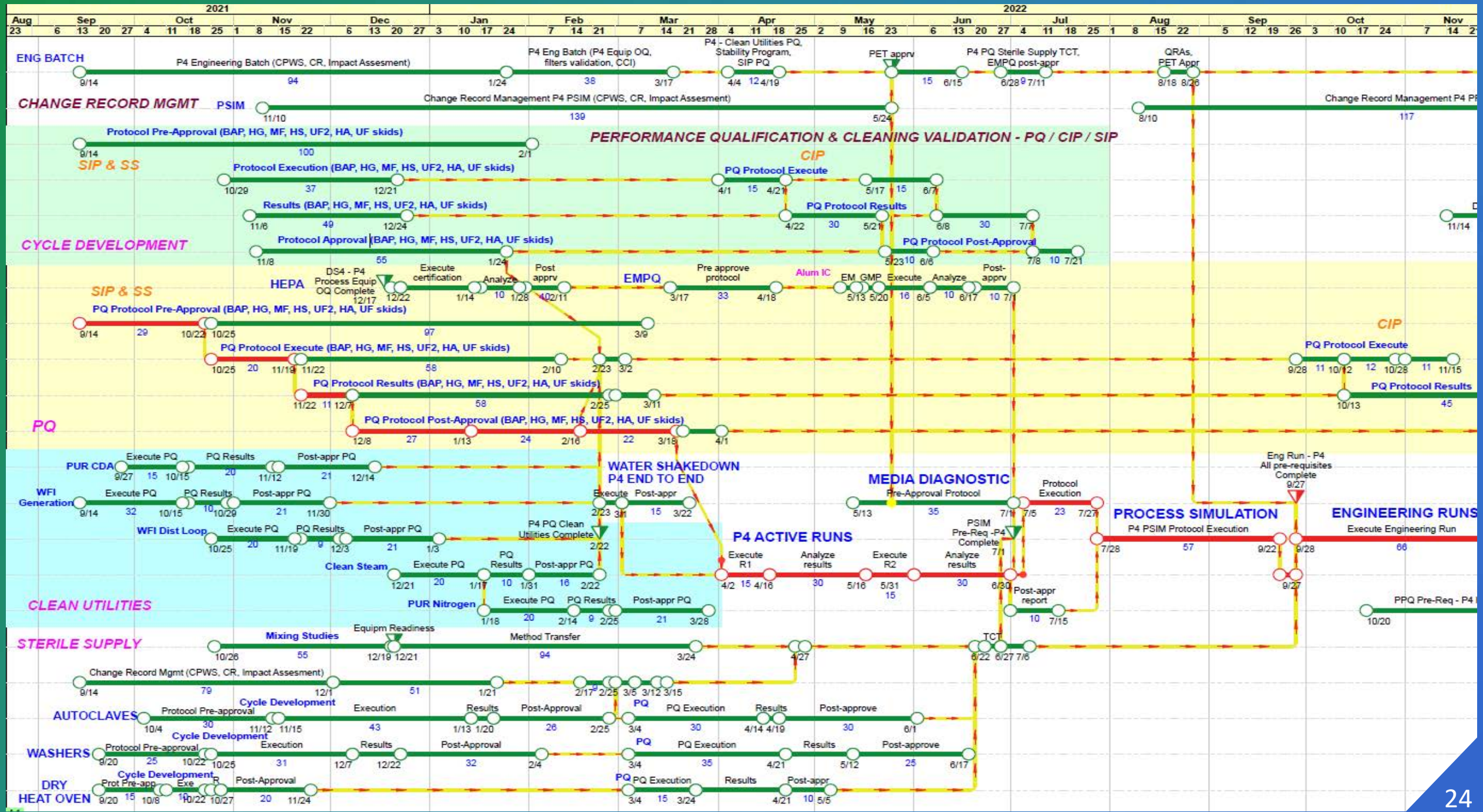
Consistency with execution plans
Schedule basis documents

03. **CPM Integrity**

Identified minor “clean-up” of logic deficiencies

04. **Reasonableness of Critical Path**

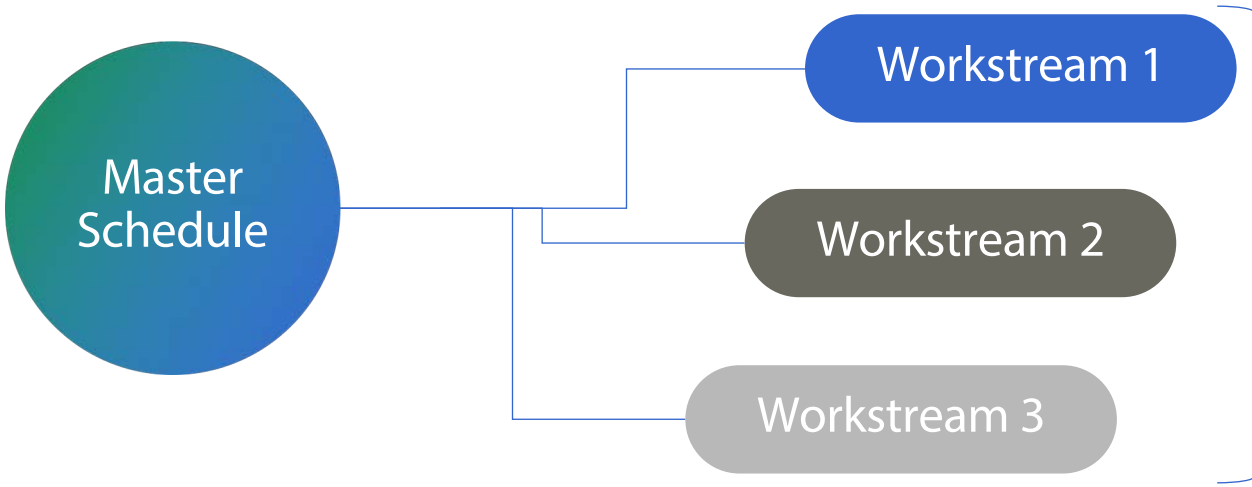
05. **Readiness as Schedule Control Tool**


2021
2022
Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov
ENG BATCH
P4 Engineering Batch (CPWS, CR, Impact Assesment)
P4 Eng Batch (P4 Equip OQ, filters validation, CCI)
P4 - Clean Utilities PQ, Stability Program, SIP PQ
PET apprv
P4 PQ Sterile Supply TCT, EMPQ post-appr
QRAs, PET Appr
CHANGE RECORD MGMT
PSIM
Change Record Management P4 PSIM (CPWS, CR, Impact Assesment)
Change Record Management P4 PF
PERFORMANCE QUALIFICATION & CLEANING VALIDATION - PQ / CIP / SIP
SIP & SS
Protocol Pre-Approval (BAP, HG, MF, HS, UF2, HA, UF skids)
Protocol Execution (BAP, HG, MF, HS, UF2, HA, UF skids)
Results (BAP, HG, MF, HS, UF2, HA, UF skids)
CIP
PQ Protocol Execute
PQ Protocol Results
CYCLE DEVELOPMENT
Protocol Approval (BAP, HG, MF, HS, UF2, HA, UF skids)
PQ Protocol Post-Approval
HEPA
DS4 - P4 Process Equip OQ Complete
Execute certification
Analyze
Post apprv
EMPQ
Pre approve protocol
Alum IC
EM GMP Execute
Analyze
Post-apprv
SIP & SS
PQ Protocol Pre-Approval (BAP, HG, MF, HS, UF2, HA, UF skids)
CIP
PQ Protocol Execute (BAP, HG, MF, HS, UF2, HA, UF skids)
PQ Protocol Execute
PQ Protocol Results (BAP, HG, MF, HS, UF2, HA, UF skids)
PQ Protocol Results
PQ
PQ Protocol Post-Approval (BAP, HG, MF, HS, UF2, HA, UF skids)
PUR CDA
Execute PQ
PQ Results
Post-appr PQ
WATER SHAKEDOWN P4 END TO END
MEDIA DIAGNOSTIC
Pre-Approval Protocol
Protocol Execution
Eng Run - P4 All pre-requisites Complete
WFI Generation
Execute
Post-appr
WFI Dist Loop
P4 PQ Clean Utilities Complete
P4 ACTIVE RUNS
PSIM Pre-Req -P4 Complete
PROCESS SIMULATION
P4 PSIM Protocol Execution
ENGINEERING RUNS
Execute Engineering Run
Clean Steam
Execute R1
Analyze results
Execute R2
Analyze results
CLEAN UTILITIES
PUR Nitrogen
Post-appr report
PPQ Pre-Req - P4
STERILE SUPPLY
Mixing Studies
Equipm Readiness
Method Transfer
TCT
Change Record Mgmt (CPWS, CR, Impact Assesment)
AUTOCLAVES
WASHERS
DRY HEAT OVEN
Cycle Development
Protocol Pre-approval
Execution
Results
Post-Approval
PQ
PQ Execution
Post-approve
Prot Pre-app
Exe
Post-appr

MASTER SCHEDULE - PROGRAMS

review and integrate different schedules from several workstreams on a major program

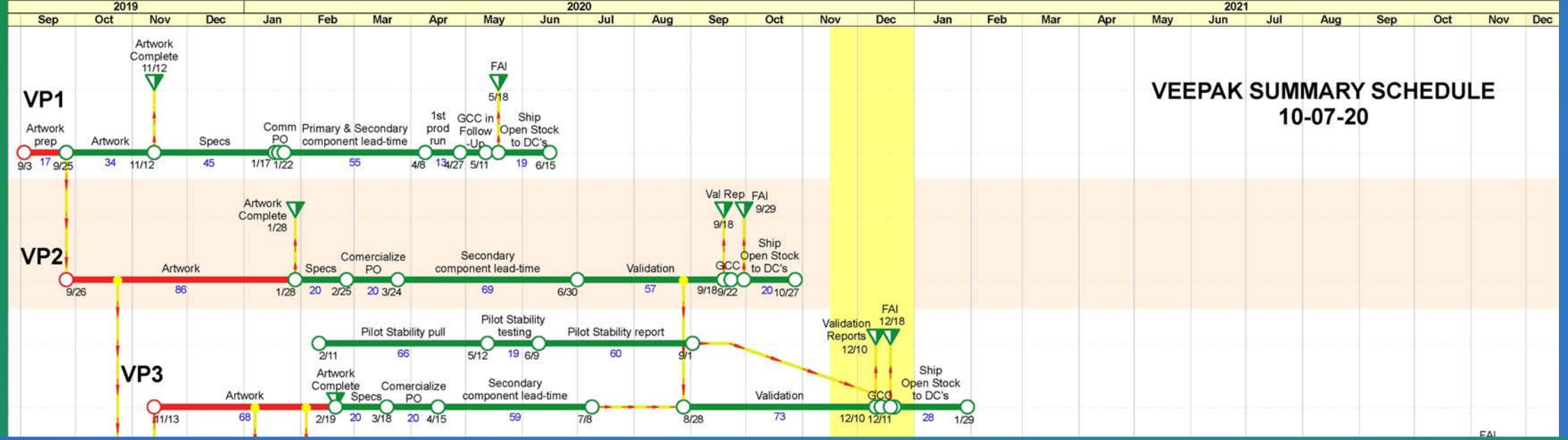
Integrated Schedule Overview for a Program

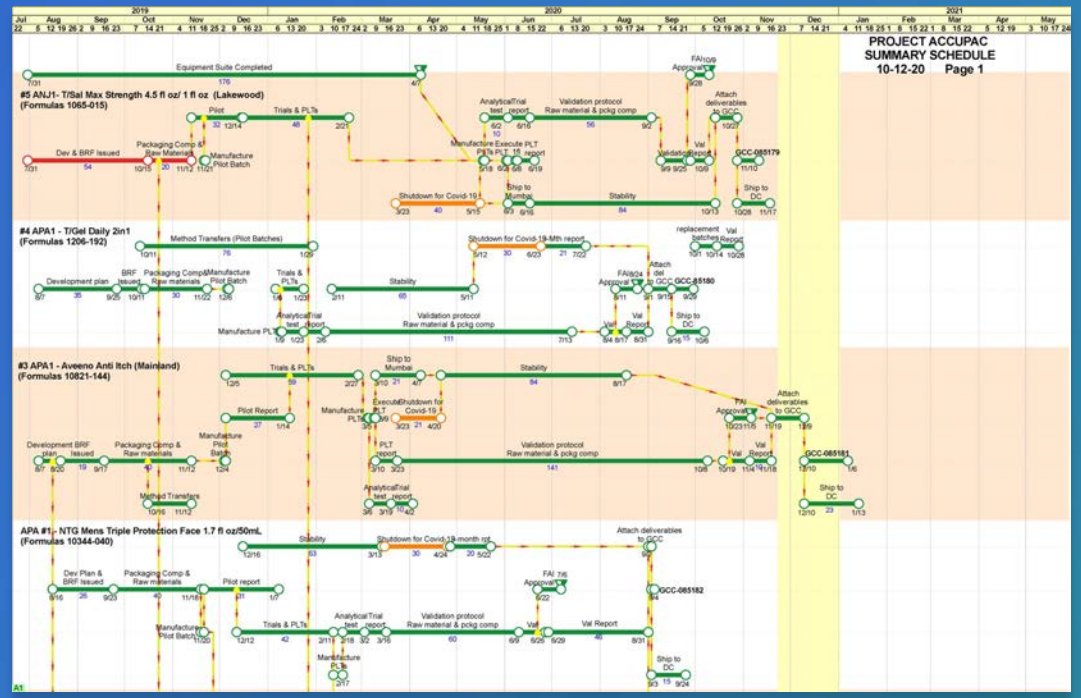


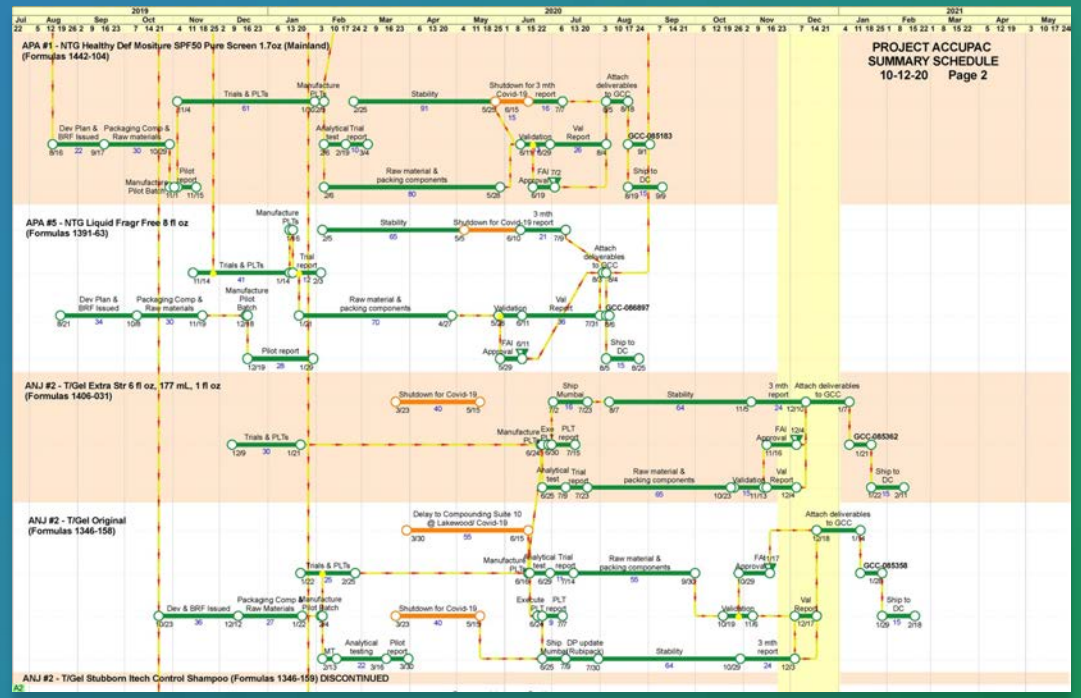
Contains activities that ALL have predecessors and successors (i.e. good logic and quality, minimal use of constraints).

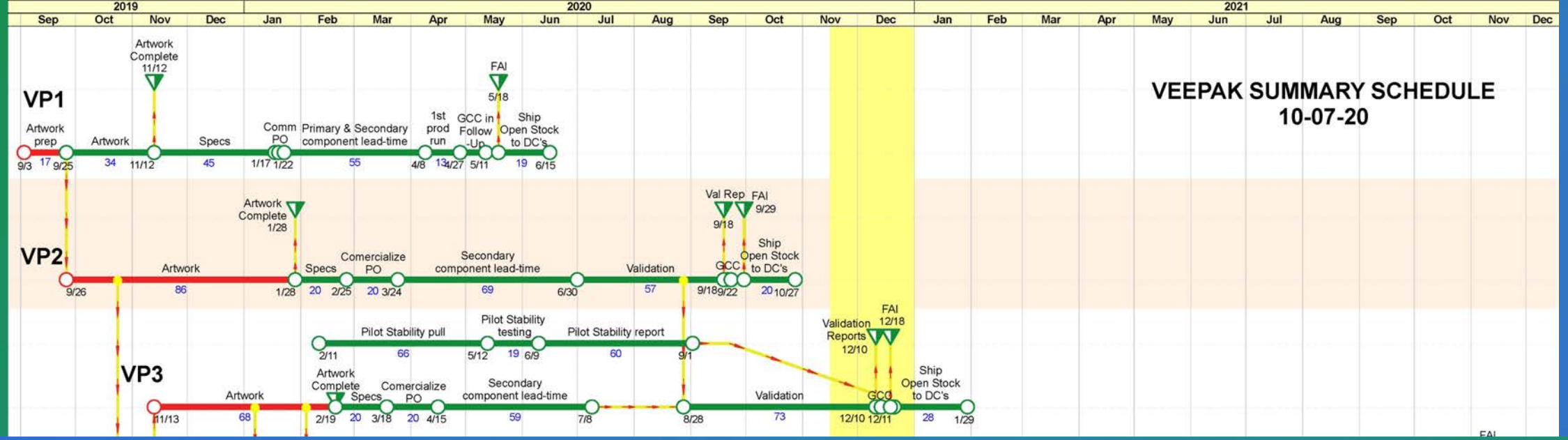
Workstream schedules would remain under ownership of workstream leads, who would maintain responsibility for execution.

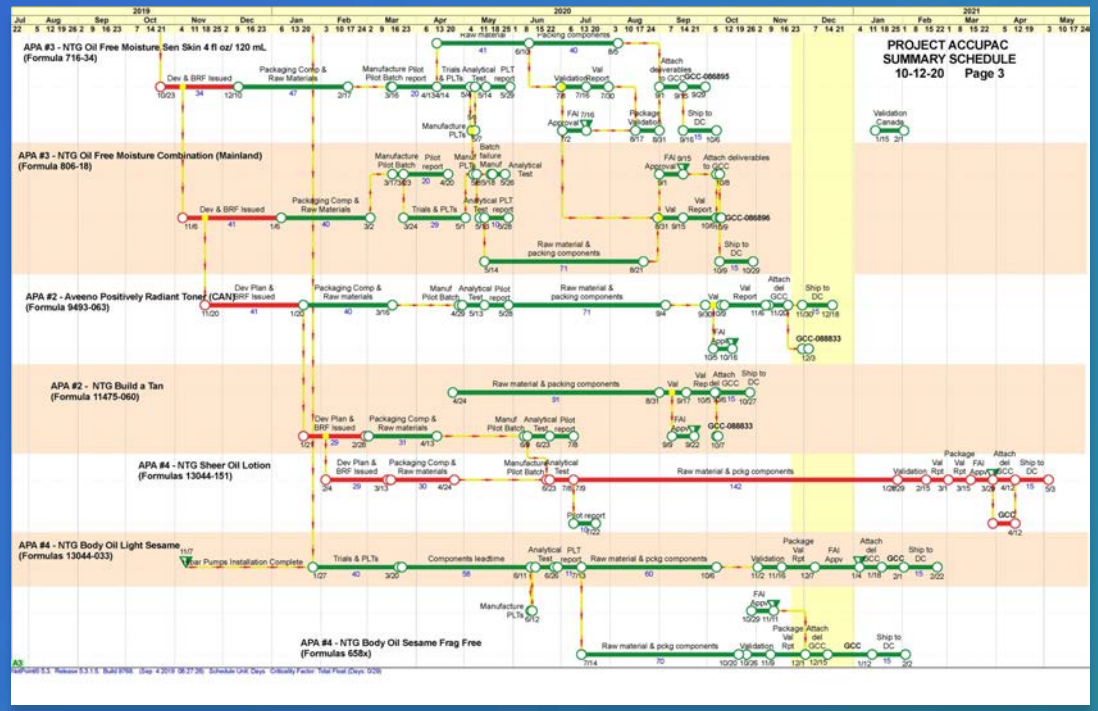
- Captures key data and interdependencies between workstreams.
- "Handshake" milestones identified between various workstream sub-schedules.
- Master schedule includes basic outline activities/logic/milestones for other remaining workstreams.
- Aligns with program milestones.

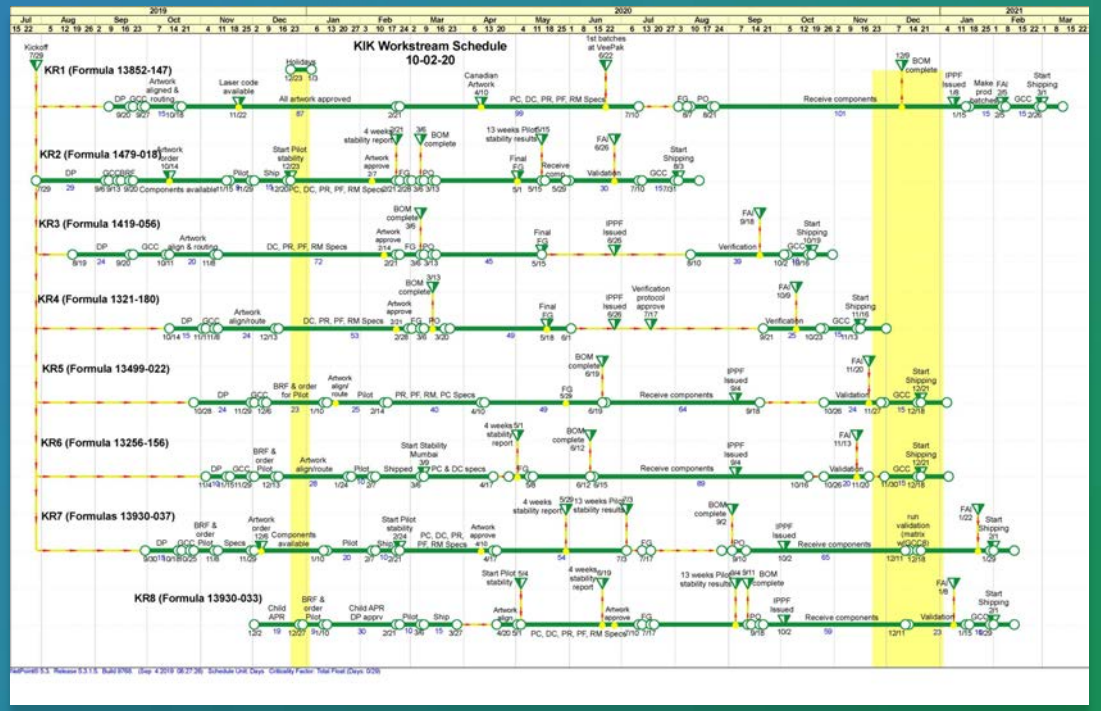

2019
2020
2021
Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec
VEEPAK SUMMARY SCHEDULE
10-07-20
VP1
Artwork prep 9/3 17 9/25
Artwork 34 11/12
Artwork Complete 11/12
Specs 45
Comm PO 1/17 1/22
Primary & Secondary component lead-time 55
1st prod run 4/8 13 4/27
GCC in Follow -Up 5/11
FAI 5/18
Ship Open Stock to DC's 19 6/15
VP2
Artwork 9/26 86 1/28
Artwork Complete 1/28
Specs 20 2/25
Comercialize PO 20 3/24
Secondary component lead-time 69 6/30
Validation 57
Val Rep 9/18
FAI 9/29
GCC 9/18 9/22
Ship Open Stock to DC's 20 10/27
VP3
Artwork 11/13 68
Artwork Complete 2/19
Specs 20 3/18
Comercialize PO 20 4/15
Secondary component lead-time 59 7/8
Pilot Stability pull 2/11 66
Pilot Stability testing 5/12 19 6/9
Pilot Stability report 60 9/1
Validation 73 8/28
Validation Reports 12/10
FAI 12/18
GCC 12/10 12/11
Ship Open Stock to DC's 28 1/29

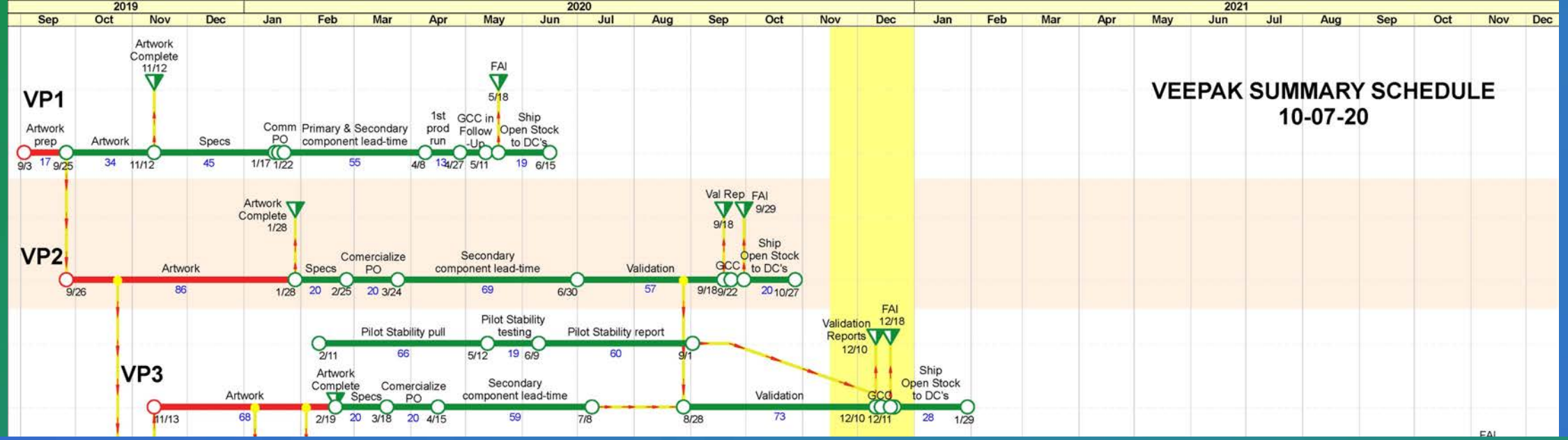

PROJECT ACCUPAC
SUMMARY SCHEDULE
10-12-20 Page 1
#5 ANJ1- T/Sal Max Strength 4.5 fl oz/ 1 fl oz (Lakewood)
(Formulas 1065-015)
#4 APA1 - T/Gel Daily 2in1
(Formulas 1206-192)
#3 APA1 - Aveeno Anti Itch (Mainland)
(Formulas 10821-144)
APA #1 - NTG Mens Triple Protection Face 1.7 fl oz/50mL
(Formulas 10344-040)

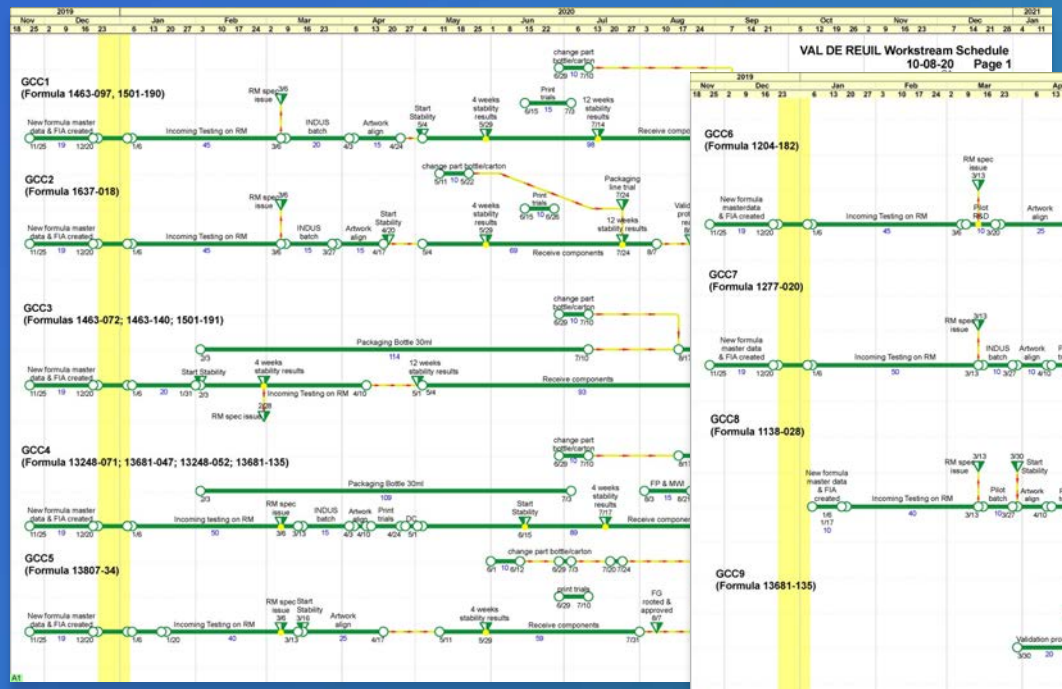

PROJECT ACCUPAC
SUMMARY SCHEDULE
10-12-20 Page 2
APA #1 - NTG Healthy Def Moisture SPF50 Pure Screen 1.7oz (Mainland)
(Formulas 1442-104)
APA #5 - NTG Liquid Fragr Free 8 fl oz
(Formulas 1391-63)
ANJ #2 - T/Gel Extra Str 6 fl oz, 177 mL, 1 fl oz
(Formulas 1406-031)
ANJ #2 - T/Gel Original
(Formulas 1346-158)
ANJ #2 - T/Gel Stubborn Itech Control Shampoo (Formulas 1346-159) DISCONTINUED

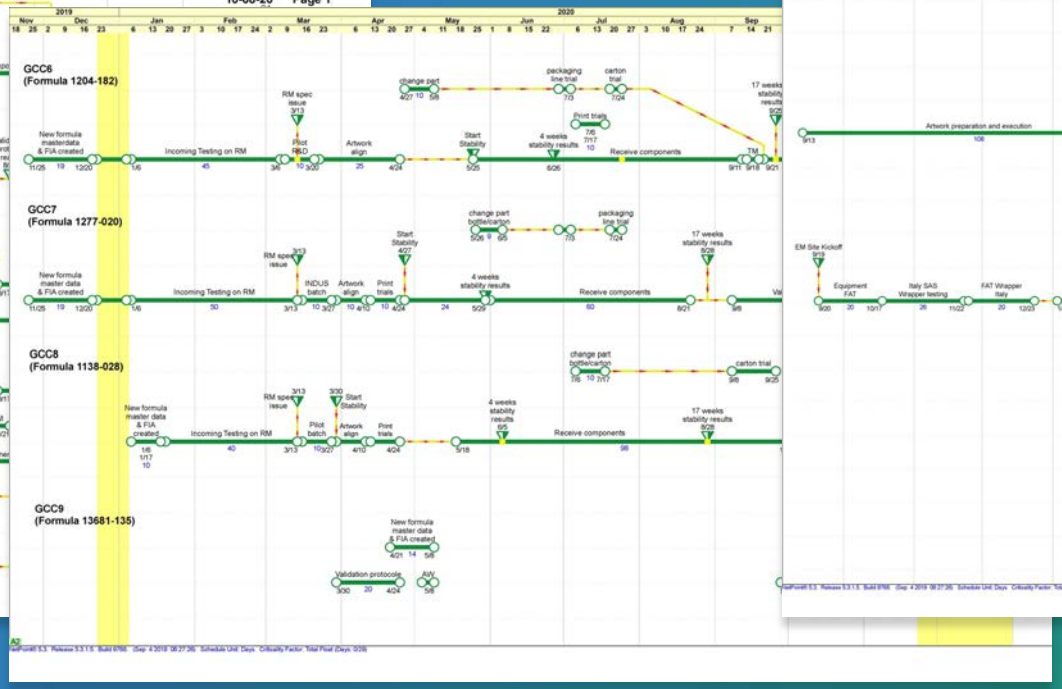

2019
2020
2021
Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec
VEEPAK SUMMARY SCHEDULE
10-07-20
VP1
Artwork prep 9/3 17 9/25
Artwork 34 11/12
Artwork Complete 11/12
Specs 45 1/17 1/22
Comm PO
Primary & Secondary component lead-time 55 4/8 13 4/27
1st prod run
GCC in Follow -Up 5/11
FAI 5/18
Ship Open Stock to DC's 19 6/15
VP2
Artwork 86 1/28
Artwork Complete 1/28
Specs 20 2/25
Comercialize PO 20 3/24
Secondary component lead-time 69 6/30
Validation 57 9/18
Val Rep 9/18
FAI 9/29
GCC 9/22
Ship Open Stock to DC's 20 10/27
VP3
Artwork 68 11/13
Artwork Complete 2/19
Specs 20
Comercialize PO 20 3/18 4/15
Secondary component lead-time 59 7/8
Pilot Stability pull 66 2/11
Pilot Stability testing 19 5/12 6/9
Pilot Stability report 60 9/1
Validation 73 8/28
Validation Reports 12/10
FAI 12/18
GCC 12/10 12/11
Ship Open Stock to DC's 28 1/29

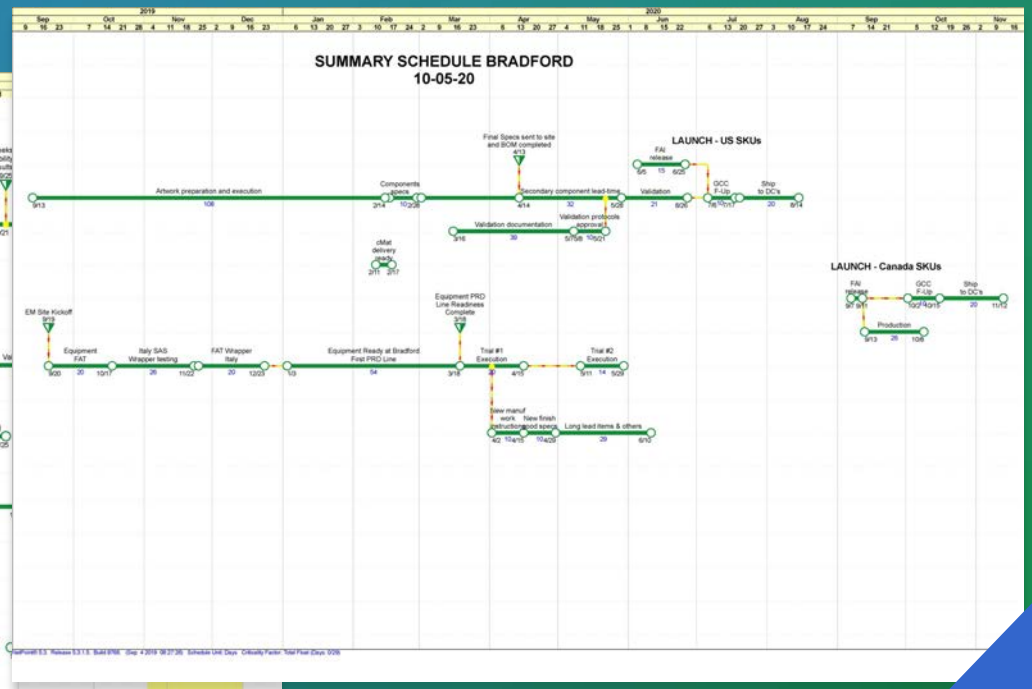

PROJECT ACCUPAC
SUMMARY SCHEDULE
10-12-20 Page 3
APA #3 - NTG Oil Free Moisture Sen Skin 4 fl oz/ 120 mL
(Formula 716-34)
APA #3 - NTG Oil Free Moisture Combination (Mainland)
(Formula 806-18)
APA #2 - Aveeno Positively Radiant Toner (CAN)
(Formula 9493-063)
APA #2 - NTG Build a Tan
(Formula 11475-060)
APA #4 - NTG Sheer Oil Lotion
(Formulas 13044-151)
APA #4 - NTG Body Oil Light Sesame
(Formulas 13044-033)
APA #4 - NTG Body Oil Sesame Frag Free
(Formulas 658x)

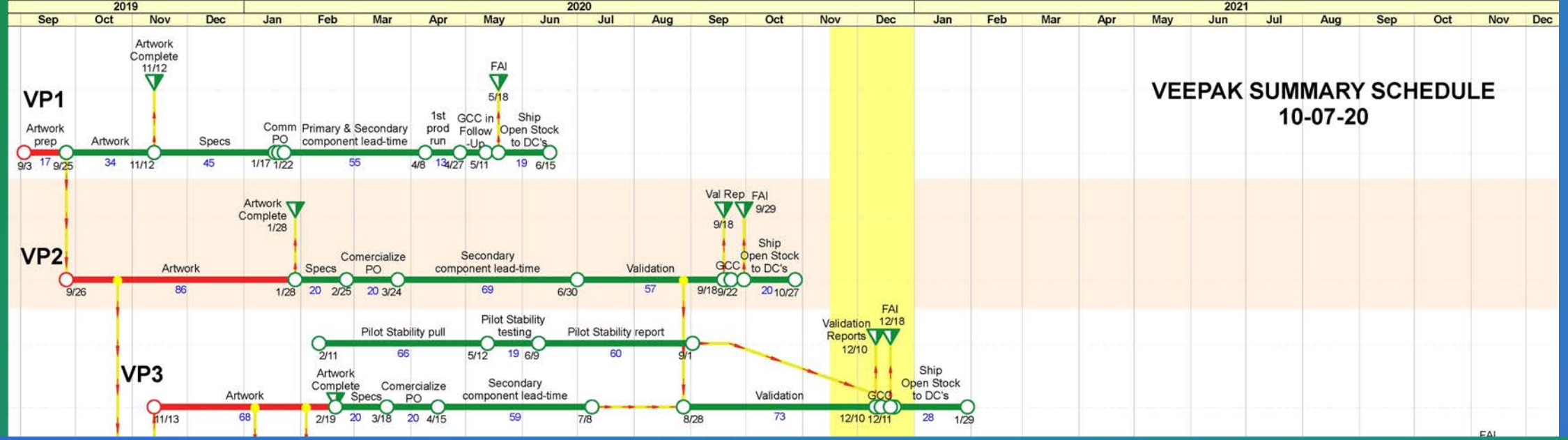

KIK Workstream Schedule
10-02-20
KR1 (Formula 13852-147)
KR2 (Formula 1479-018)
KR3 (Formula 1419-056)
KR4 (Formula 1321-180)
KR5 (Formula 13499-022)
KR6 (Formula 13256-156)
KR7 (Formulas 13930-037)
KR8 (Formula 13930-033)

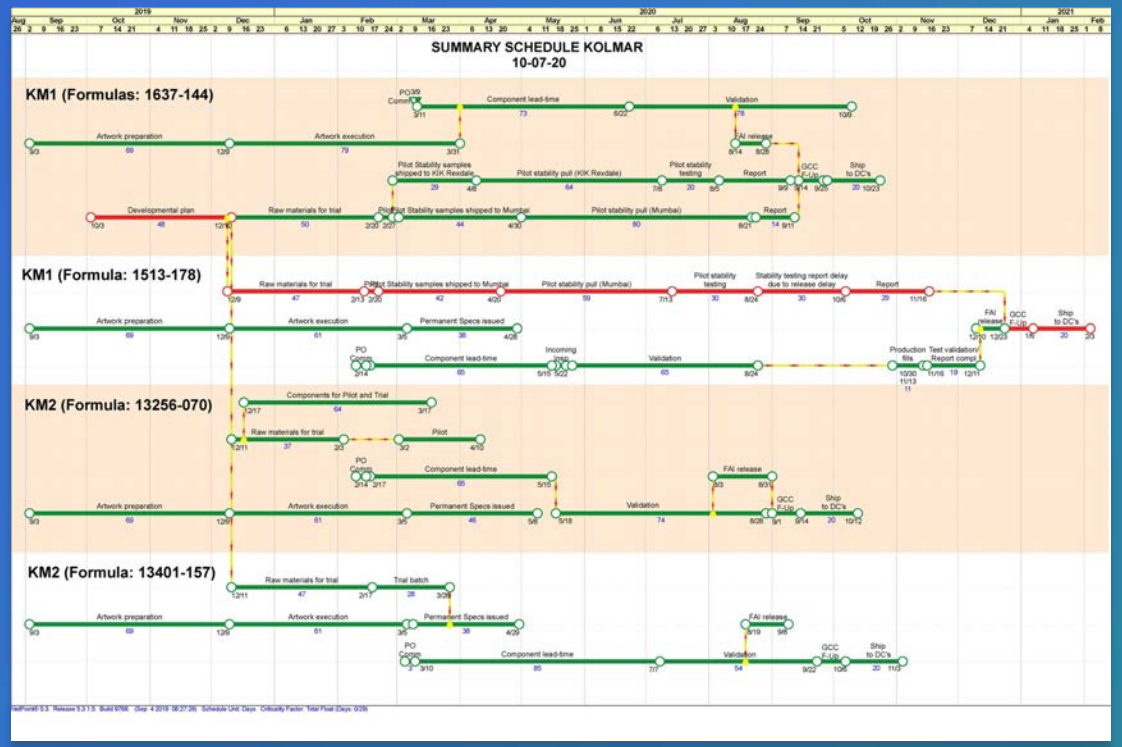

2019
2020
2021
Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec
VEEPAK SUMMARY SCHEDULE
10-07-20
VP1
Artwork prep
9/3
17
9/25
Artwork
34
Artwork Complete 11/12
11/12
Specs
45
Comm PO
1/17 1/22
Primary & Secondary component lead-time
55
1st prod run
4/8
13
GCC in Follow -Up
4/27 5/11
FAI 5/18
Ship Open Stock to DC's
19
6/15
VP2
9/26
Artwork
86
Artwork Complete 1/28
1/28
Specs
20
Comercialize PO
2/25 20 3/24
Secondary component lead-time
69
6/30
Validation
57
Val Rep 9/18
FAI 9/29
GCC
9/18 9/22
Ship Open Stock to DC's
20 10/27
VP3
11/13
Artwork
68
Artwork Complete
2/19
Specs
20
Comercialize PO
3/18 20 4/15
Secondary component lead-time
59
7/8
Pilot Stability pull
2/11
66
5/12
Pilot Stability testing
19 6/9
Pilot Stability report
60
9/1
8/28
Validation
73
Validation Reports 12/10
FAI 12/18
GCC
12/10 12/11
Ship Open Stock to DC's
28
1/29

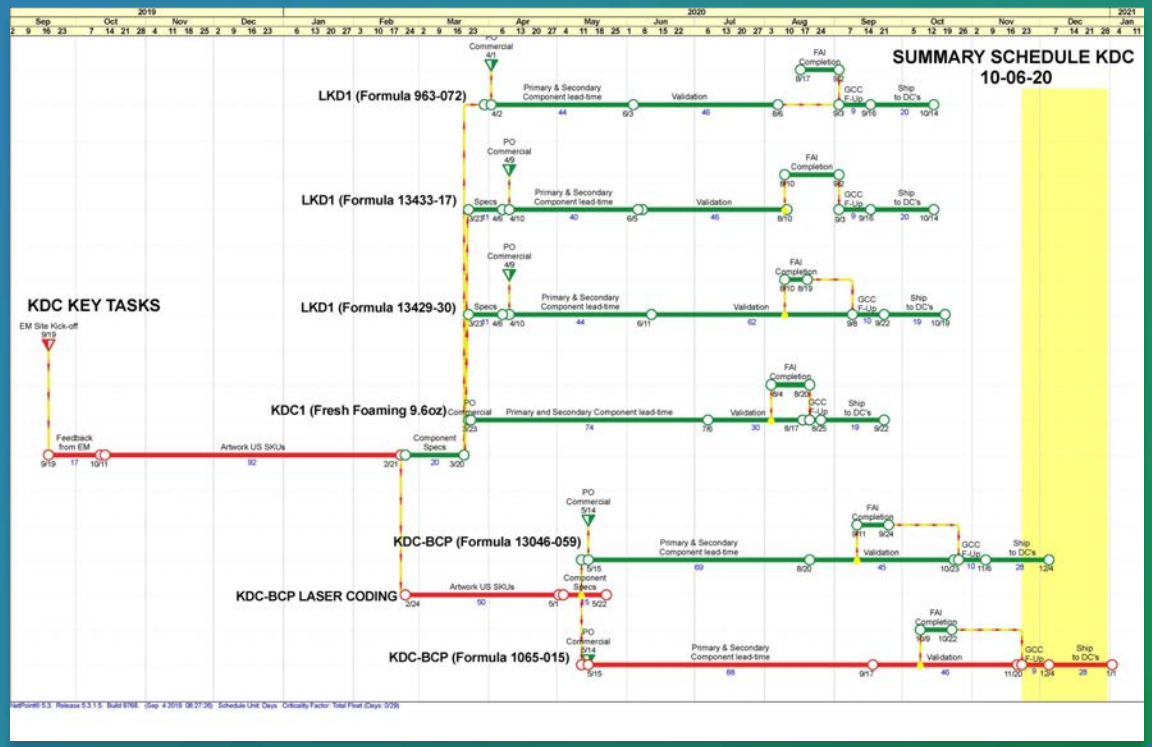

GCC1
(Formula 1463-097, 1501-190)
GCC2
(Formula 1637-018)
GCC3
(Formulas 1463-072; 1463-140; 1501-191)
GCC4
(Formula 13248-071; 13681-047; 13248-052; 13681-135)
GCC5
(Formula 13807-34)

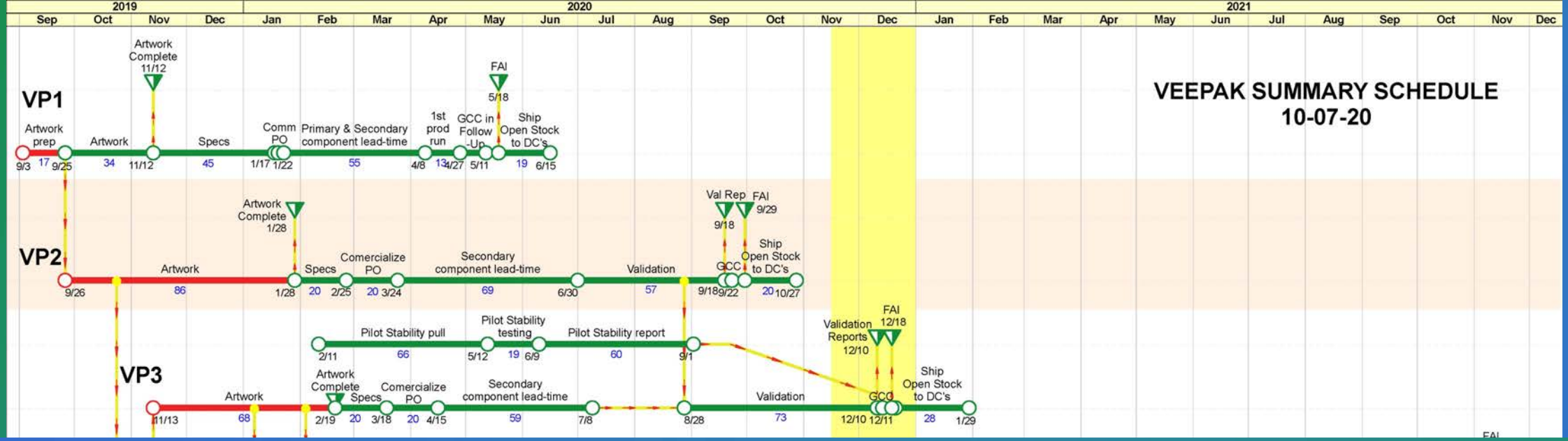

VAL DE REUIL Workstream Schedule
10-08-20 Page 1
GCC6
(Formula 1204-182)
GCC7
(Formula 1277-020)
GCC8
(Formula 1138-028)
GCC9
(Formula 13681-135)

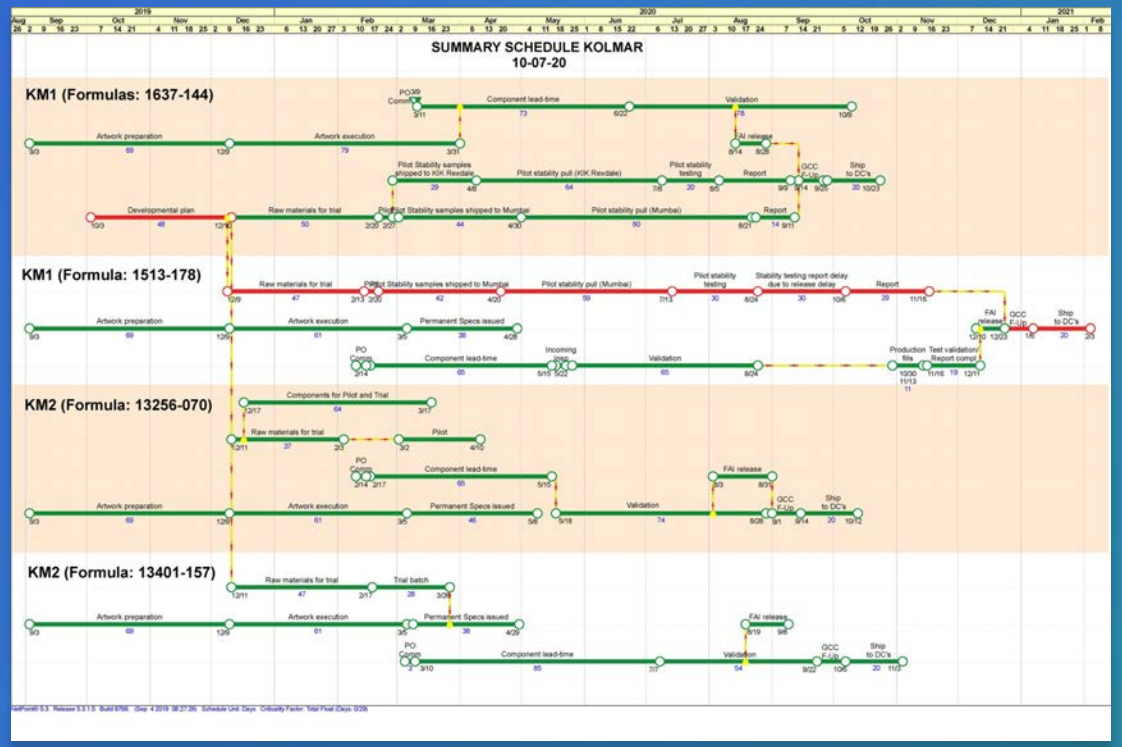

SUMMARY SCHEDULE BRADFORD
10-05-20
LAUNCH - US SKUs
LAUNCH - Canada SKUs

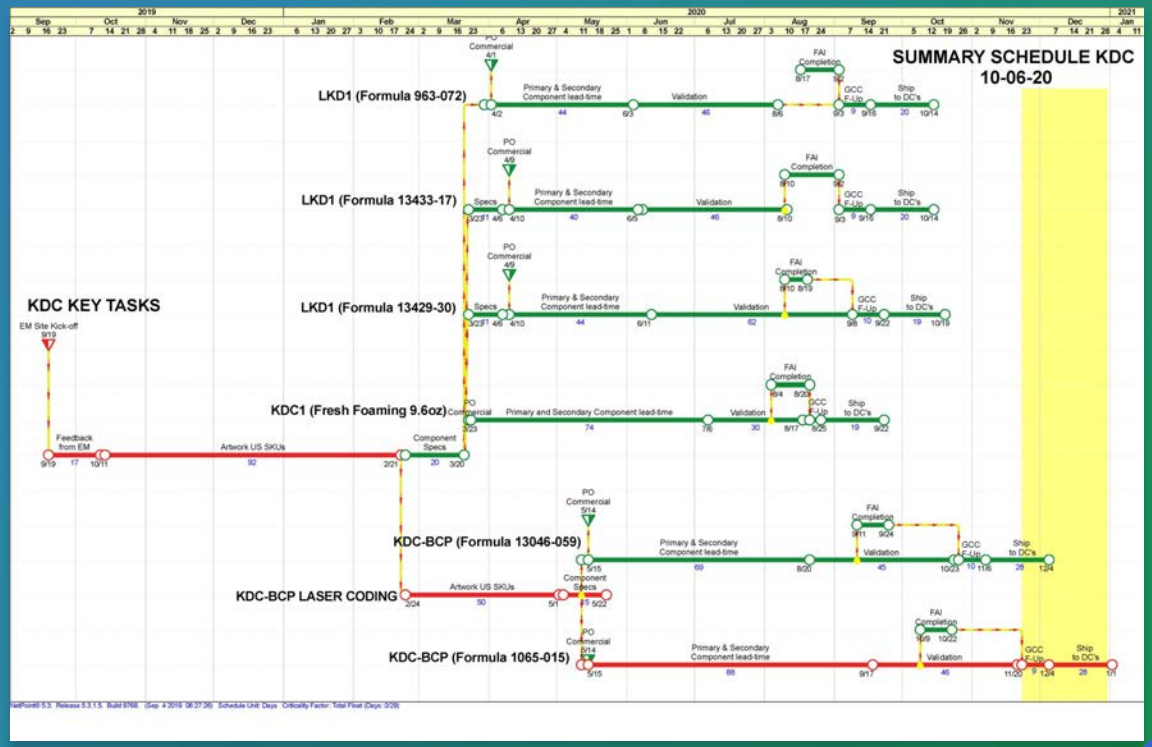

2019
2020
2021
Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec
VEEPAK SUMMARY SCHEDULE
10-07-20
VP1
Artwork prep
Artwork
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Specs
Comm PO
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GCC in Follow -Up
FAI 5/18
Ship Open Stock to DC's
9/3 17 9/25 34 11/12 45 1/17 1/22 55 4/8 13 4/27 5/11 19 6/15
VP2
Artwork
Artwork Complete 1/28
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Comercialize PO
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Ship Open Stock to DC's
9/26 86 1/28 20 2/25 20 3/24 69 6/30 57 9/18 9/22 20 10/27
VP3
Pilot Stability pull
Pilot Stability testing
Pilot Stability report
Validation Reports 12/10
FAI 12/18
Artwork
Artwork Complete
Specs
Comercialize PO
Secondary component lead-time
Validation
GCC
Ship Open Stock to DC's
2/11 66 5/12 19 6/9 60 9/1
11/13 68 2/19 20 3/18 20 4/15 59 7/8 8/28 73 12/10 12/11 28 1/29

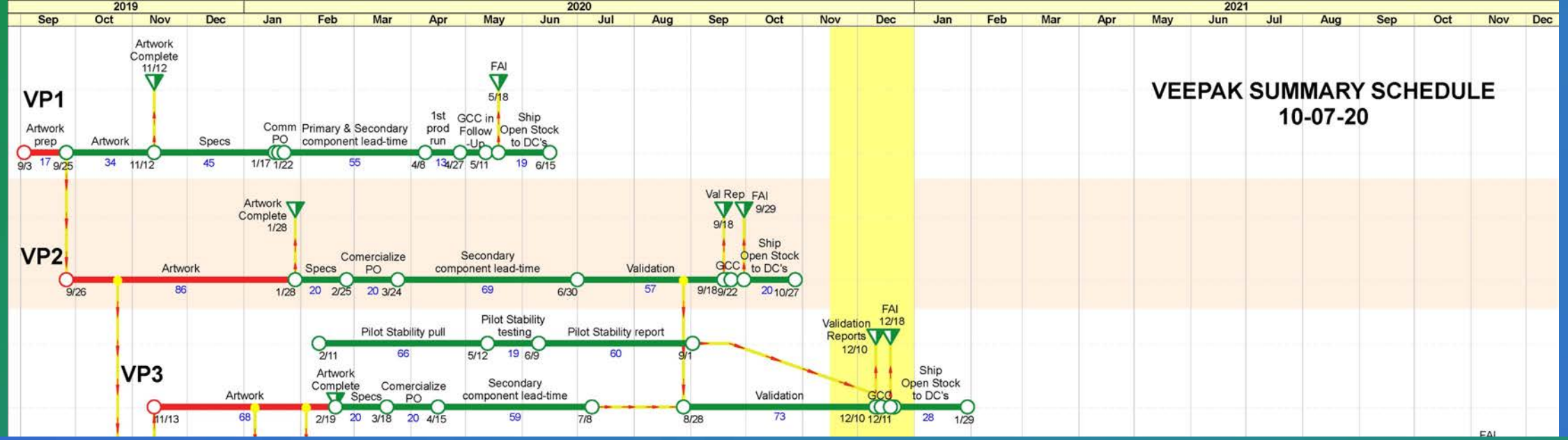

SUMMARY SCHEDULE KOLMAR
10-07-20
KM1 (Formulas: 1637-144)
KM1 (Formula: 1513-178)
KM2 (Formula: 13256-070)
KM2 (Formula: 13401-157)

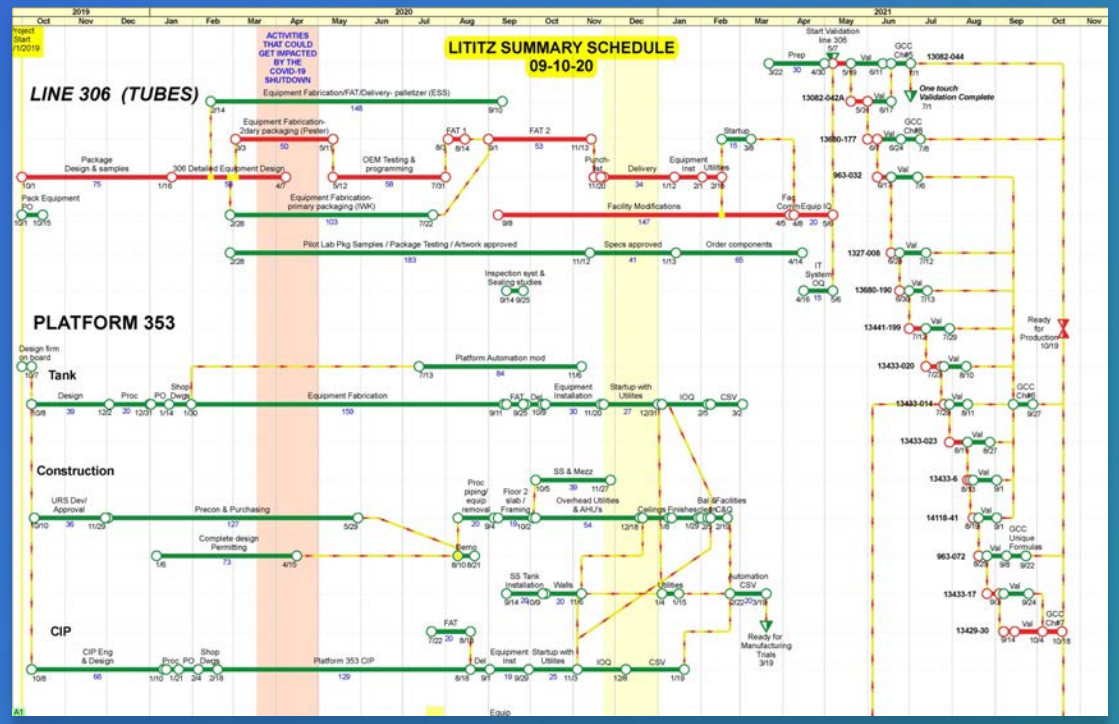

SUMMARY SCHEDULE KDC
10-06-20
KDC KEY TASKS
LKD1 (Formula 963-072)
LKD1 (Formula 13433-17)
LKD1 (Formula 13429-30)
KDC1 (Fresh Foaming 9.6oz)
KDC-BCP (Formula 13046-059)
KDC-BCP LASER CODING
KDC-BCP (Formula 1065-015)

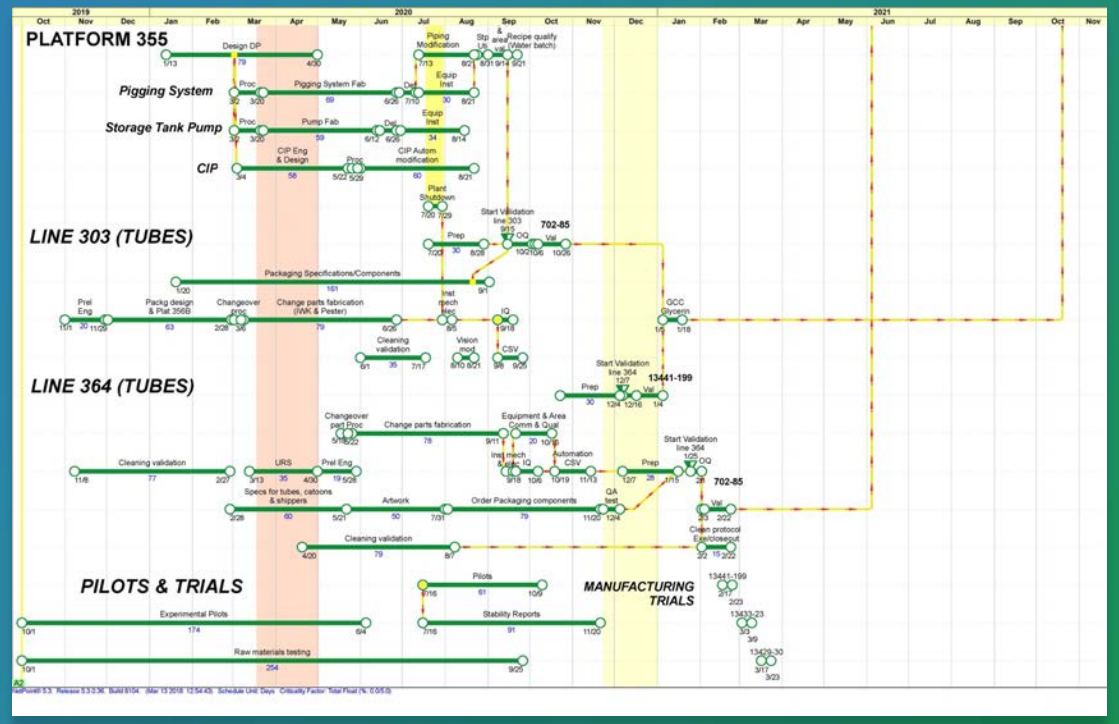

2019
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SUMMARY SCHEDULE KOLMAR
10-07-20
KM1 (Formulas: 1637-144)
KM1 (Formula: 1513-178)
KM2 (Formula: 13256-070)
KM2 (Formula: 13401-157)


SUMMARY SCHEDULE KDC
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KDC-BCP LASER CODING
KDC-BCP (Formula 1065-015)


VEEPAK SUMMARY SCHEDULE
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LITITZ SUMMARY SCHEDULE
09-10-20
LINE 306 (TUBES)
PLATFORM 353
Tank
Construction
CIP


PLATFORM 355
Pigging System
Storage Tank Pump
CIP
LINE 303 (TUBES)
LINE 364 (TUBES)
PILOTS & TRIALS
MANUFACTURING TRIALS

SCHEDULE RISK ASSESSMENT

create the model to be used in Monte Carlos or NetRisk iterations



Schedule Risk Assessment

Schedule Model

- Obtain project most current integrated schedule.
- Analyze critical path and near critical activities to understand project logic.
- Develop schedule model (no more than 200 activities) that captures drivers of integrated schedule.
- Apply all major risk items (from risk register) to an activity in SRA schedule model.

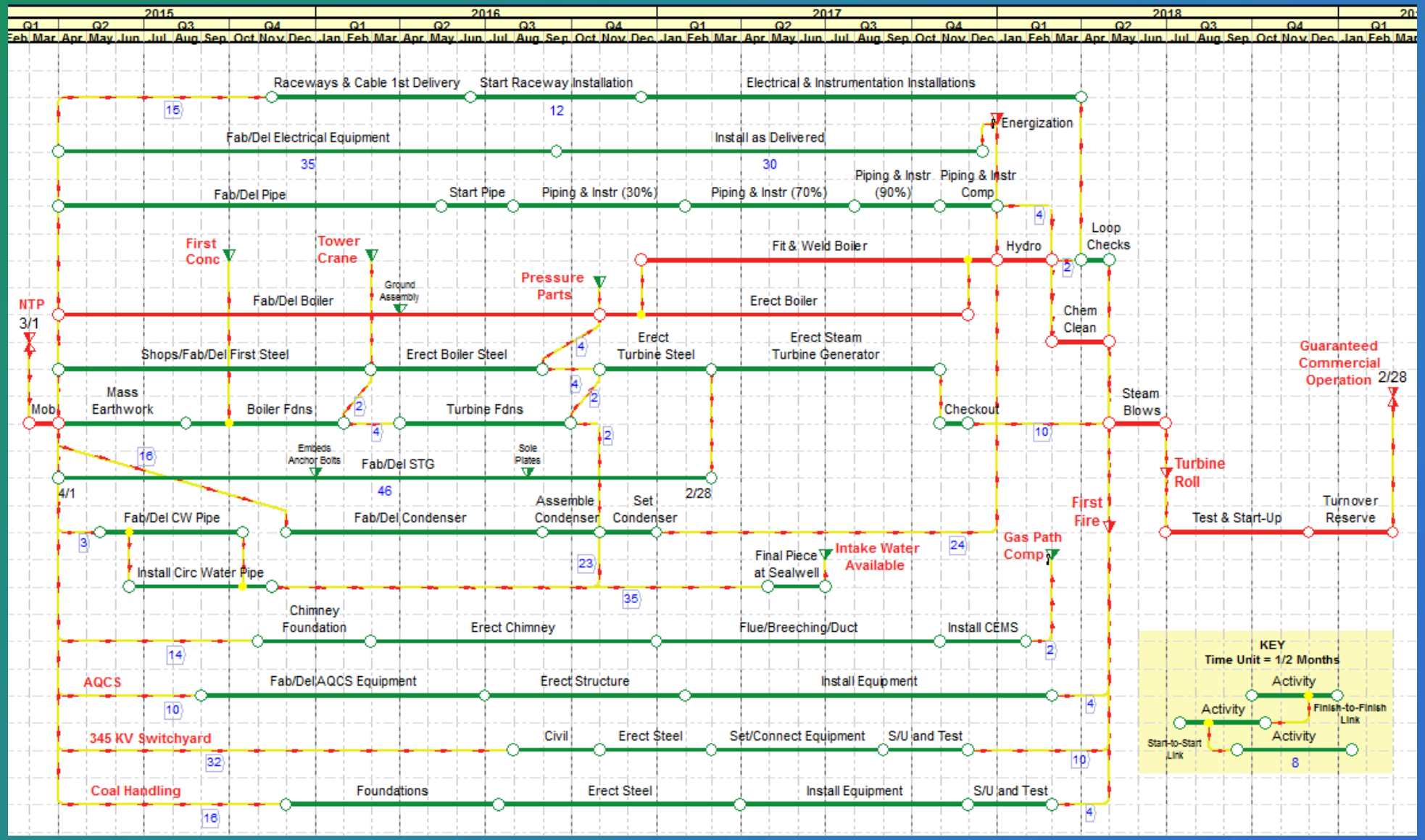
Schedule Risk Assessment



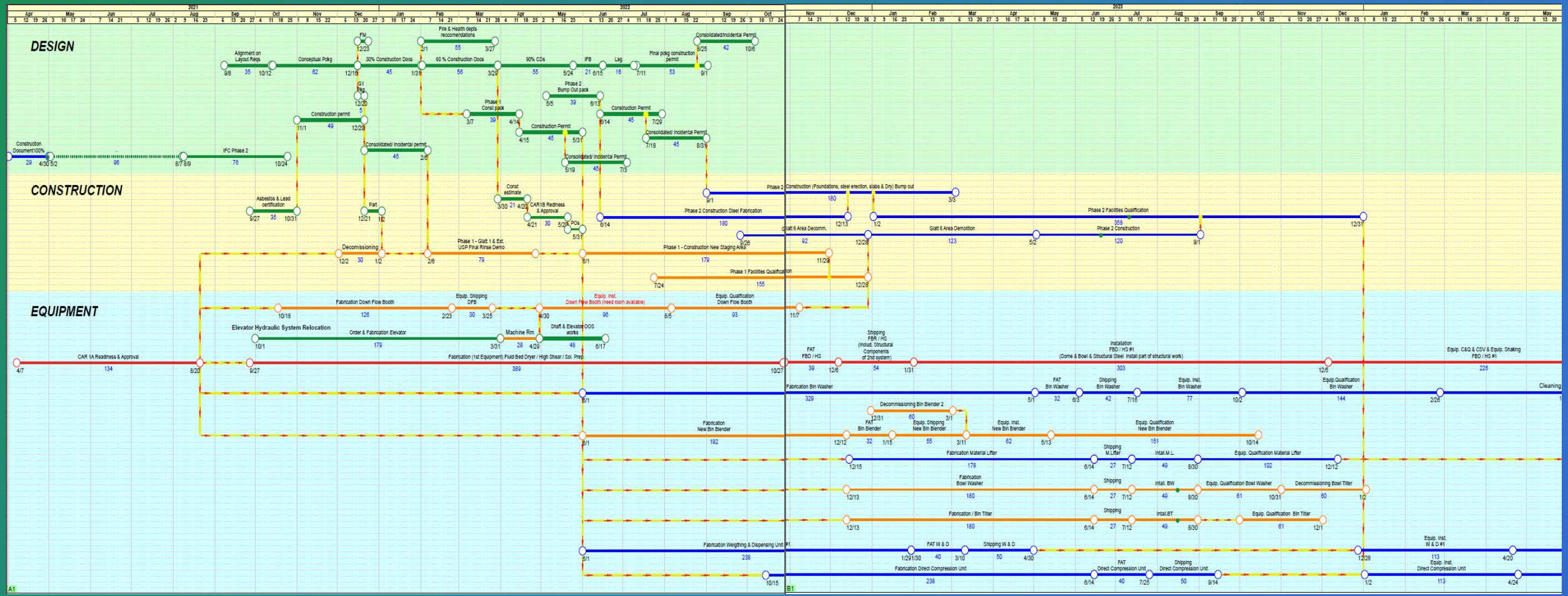
Commonly Used **6-Step Process** for Analysis

Review	Identify	Model	Range	Simulate	Summarize
Project Scope, Project Assumptions, CPM Schedules, Estimates Execution Plans & Strategy	Critical & "Risk Sensitive" Sequences Project Risks & Uncertainty	Summary Sequences Probabilistic Branching	Durations of Critical Activities	PertMaster™ NetRisk	Reports, Graphics, Options to Mitigate Risks

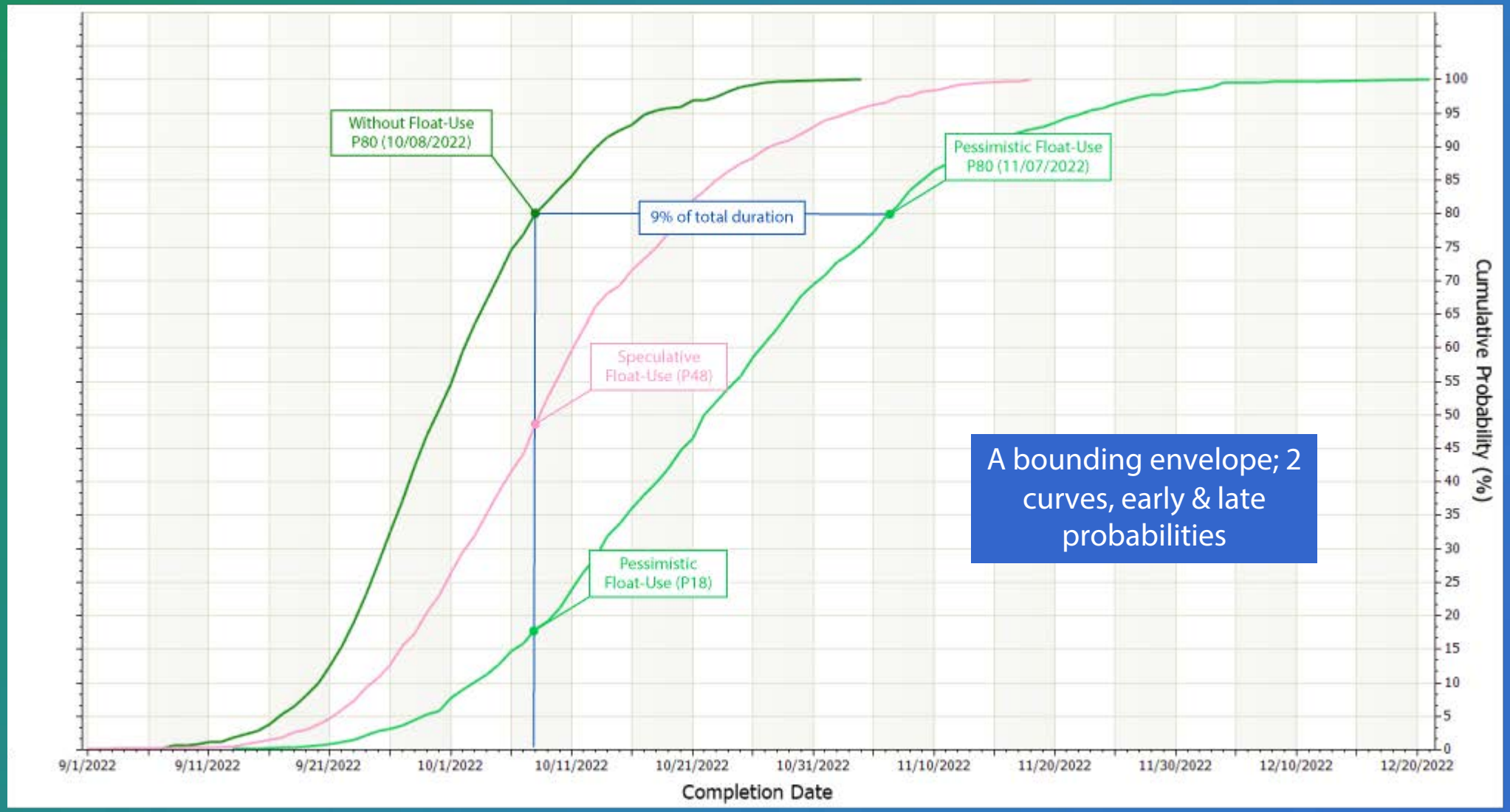
Schedule Risk Assessment



Schedule Risk Assessment



Schedule Risk Assessment



Q & A TIME

please add your questions to the Q&A



NetPoint + GPM CONFERENCE

May 11 & 12, 2023

Eduardo Nazario

Managing Director, PMA Consultants

787.224.2226

enazario@pmaconsultants.com

THANK YOU

we hope you enjoyed this session!