STO
INTELLIGENCE

STO·SAR
SCHEDULE ASSURANCE REVIEW

Data-driven. Field-proven.

Is your critical path real, and does it reach the startup you promised?

The execution schedule is the one artifact your whole turnaround rides on. STO·SAR works it in full with a calendar-aware CPM engine and hands your team a prioritized correction plan before baseline lock, while the logic can still be fixed.

- Deep analysis in. A short, prioritized plan out.

ASSURANCE SCORE — ILLUSTRATIVE

72 / 100

- Quality: Developing
- Readiness: Conditional

THE PROBLEM

Most schedules get approved because they look complete.

A schedule with broken logic is a paper map in a nice frame: it shows the route but cannot tell you the bridge ahead is out. Most execution schedules are baselined without anyone stress-testing the logic underneath, and the failures that move a restart date hide there in plain sight.

PATH THAT MISSES THE FINISH
The critical path dead-ends in demob, not the promised startup

HIDDEN DRIVER
Leveling reshapes the dates and no one can say what governs

ASSUMED CONTINGENCY
Reserve everyone counts on that the schedule never carried

A CPM ENGINE, NOT A CHECKLIST

01 · LEVELING
What really drives the date
Leveling state determined forensically, then how much of the duration is logic versus resource limits.

02 · LONGEST PATH
Reach to the startup
The driving chain traced back from the business startup milestone, and how far it reaches through real work.

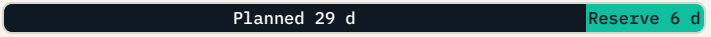
03 · CONTINGENCY
Reserve, measured
Planned duration separated from the real reserve to the date you committed to.

T-0 Feed out → CLEAR Isolation & blind → EXECUTE Reactor internals → RESTORE Reinstate & test → GATE PSSR → BUSINESS PROMISE Startup at rate

We trace the driving chain backward from the **startup milestone you committed to**, not the network's latest bar. Illustrative: the path reaches the promised startup and spans 96% of the execution window. When it dead-ends in demob or level-of-effort instead, the critical path is not real, and we flag it.

Where the duration comes from — Illustrative

Reserve to the committed date — Illustrative



WHAT YOU GET

IN **Your P6 schedule** → ENGINE **CPM + 25 checks** → OUT **Correction plan + workbook**

A prioritized correction plan, each finding mapped to its fix, plus the line-by-line repair workbook, handed over before baseline lock. Runs standalone or as the schedule engine inside a STOAR3 gate review.

EVERY CHECK WE RUN · 25 ELEMENTS, 6 CATEGORIES, 3 GATES

	Check	What it catches
Configuration & integrity		10 of 100 points
A1	Scheduling settings	The P6 options are set so the forward and backward pass can be trusted.
A2	Calendars	Work patterns are real, and no calendar is quietly set to run more hours than its name implies.
A3	File & status integrity	One data date, clean actuals, nothing corrupting the calculation.
Network logic		35 of 100 points
B1	Open ends	Every activity has something driving it, so a slip actually propagates.
B2	Dangling logic	No activity tied on only one side, hiding its true impact on the finish.
B3	Relationship types	Finish-to-start dominant; overlaps modeled honestly, not by convenience.
B4	Lags	Delays built into the logic are justified, not padding the plan.
B5	Leads / negative lags	No negative lags papering over missing sequence detail.
B6	Hard constraints	Dates are driven by logic, not pinned by constraints that mask the real risk.
B7	Redundant & circular logic	No loops or duplicate ties distorting the calculated path.
Float & critical path		22 of 100 points
C1	Negative float	The plan is achievable as drawn, not already behind on day one.
C2	Unexplained high float	No activity floating longer than the entire event with no reason it should.
C3	Critical-path validity & reach	The critical path is continuous, real, and reaches the startup you promised.
C4	Near-critical & merge exposure	The paths about to become critical, and the points where many converge, are visible.
C5	Float distribution	The criticality profile is sane, not a network with no real spine.
Durations & milestones		10 of 100 points
D1	Activity durations	No oversized activities hiding sequence, detail, and risk.
D2	Level of effort	Hammocks and LOE are bounded, not silently inflating the critical path.
D3	Milestones	Feed-out, handover, and startup milestones are structured and tied on both sides.
Resources, leveling & density		12 of 100 points
E0	Leveling state	Whether the schedule was resource-leveled, determined forensically from the file.
E1	Resource loading	The work that should carry crews and hours actually does.
E2	Assignment integrity	No broken, zero-unit, or impossible resource assignments.
E3	Leveling coherence	The leveled dates and the underlying logic agree with each other.
E4	Resource density	The manpower curve is physically achievable, not a wall of parallel work.
Coding & traceability		11 of 100 points
F1	Code completeness	Phase, unit, system, and discipline coding present, so the plan can be sliced and audited.
F2	WBS structure	A clean, meaningful hierarchy, not empty scaffolding.
F3	Traceability	Activities tie back to work orders and carry unique, legible names.

Gate 1 · Configuration
Engine settings valid, so the dates can be trusted.

Gate 2 · Real critical path
Continuous, real work, reaches the promised startup.

Gate 3 · Status integrity
One data date, clean actuals.

TWO ANSWERS, NEVER BLENDED INTO ONE

QUALITY · HOW WELL IT IS BUILT (0 TO 100)

READINESS · SAFE TO SANCTION

- Clear – ready to sanction
- Conditional – fix the named items first
- Failing – a structural showstopper
- Not Assessable – basis must be corrected

Run an independent engine over your schedule.

Send us the P6 file for the event you are planning now. We will show you what to fix before you lock the baseline.

Book a call

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