
Phase Gate Reference

A Document to track major project decisions and milestones

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Revision History

Issue	Date	Author	Description
0.1	17 Mar 2026	Sam GV	Initial document creation.

1 Locked Decision Register

Decisions recorded here are closed. They are not revisited unless a Phase Gate review surfaces a hard conflict.

1.1 Online Collaborative Environment

The 3DEXperience platform will be used for most CAD, simulation work and PLM that pertains to this project.

1.2 RC Car Scale

The chosen scale for this project is 1:5, as this was deemed the to be the most appropriate balance between size, cost and feasibility.

1.3 Technical Regulations

The aerodynamic, and other select areas, of this project will follow “FIA 2026 F1 Regulations - Section C [Technical] - Iss 15 - 2025-12-10”.

NOTE: The regulations will be scaled down to the selected 1:5 before design work begins, not the other way around.

1.4 Power Unit

Since the Power train technical regulations cant be followed (for obvious reasons), the following will be locked in for this project:

1. A 2-stroke 1-cylinder ICE
2. An MGU-K Hybrid system

A fixed power ratio of 53/47 ICE/MGU-K will be set, with a max power output of 2.8kW.

2 Phase Structure

Phase Gate Rules

2.1 Entering a new phase

No phase is entered until the previous phase is fully complete.

2.2 Deliverables

All deliverables must be version controlled on the 3DExperience platform's PLM system.

2.3 Decision Register Changes

The Locked Decision Register in Section 1 is append-only. Reopening a locked decision requires a documented conflict from a phase gate review.

Phase 0 — Programme Setup

#	Deliverable	Description	Status
0.1	Decision Log	Running log of architectural decisions with their respective rationale; locked decisions migrate to the register above	Not Started
0.2	Regulatory Compliance Matrix	A map of applicable regulations, with approximations made where official FIA CAD assets are unavailable	Not Started
0.3	Engineering Standard	A standard to control CAD methodology, naming conventions, skeleton hierarchy rules etc.	In Progress
0.4	Project Infrastructure	3DExperience project setup	In Progress

Phase 1 — Concept Exploration

Phase 2 — System Architecture & Interface Definition

Phase 3 — Feasibility Study & Modelling

Phase 4 — Detailed Systems Design & V&V

Phase 5 — Integration Planning & Test Rig Design

Phase 6 — Prototype Readiness Review