Regulations

Tyler Coffey
2021-02-19
Presenter Information

- Raced in 2008
  - Aero design & build
  - Strategy
  - Chase driver

- Staff 2011-present
  - Driver/Driver Ops Inspector
  - Track Steward
  - Regs Manager since January 2020

- Day Job
  - Integrated Test Operations Engineer for Blue Origin
  - Software Engineer at Weyerhaeuser
  - Flight Test Engineer at Boeing
  - Flight Test/Software at DoD
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Things the inspectors think about

- We want more teams making it through inspections and the qualifier
- We think the best way of doing this is encouraging teams to show up with finished, tested cars
- We can’t sit in your shop and make sure you’re meeting your (overly optimistic) schedule
- Testing is the #1 thing you can do to make your car reliable
- Testing is the last thing in the schedule, and the first thing to go out the window when you’re behind schedule
Current State

- Teams that build for WSC and ASC
  - Build a car for WSC (odd year)
  - Modify that car, fix the broken things, then bring that car to ASC (even year)
  - Build deadline is ~1 year prior to ASC
- Teams that build for ASC and FSGP
  - Build a car for ASC (even year)
  - Fix all the broken things, then bring that car to FSGP (odd year)
  - Build deadline is day 3 of qualifying
  - If you miss that deadline, you miss ASC
Going Forward

- ASC 2022 regulations will be substantially the same as ASC 2020/2021
- A new set of regulations will be released by January 2022 (hopefully earlier)
  - These will cover FSGP 2023 and ASC 2024
  - They will be harmonized with the WSC 2021/2023 regulations to the extent possible
- Teams that build for WSC and ASC
  - Build a car for WSC (2023)
  - Modify that car, fix the broken things, then bring that car to ASC (2024)
  - No change to your build cycle
- Teams that build for ASC and FSGP
  - Build a car for FSGP (2023)
  - Fix all the broken things, then bring that car to ASC (2024)
  - If you don’t finish your car on time, you miss FSGP, but have a year to finish AND TEST your car before ASC
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Questions/Feedback

- Unfortunately not available on a set schedule for 1:1 or office hours this week
- Hanging out in the Regulations Chat voice channel as much as possible
- I’ll monitor and respond to #regulations-questions and #regulations-general
- As always, ascregs@americansolarchallenge.org is the official place to send regs questions