



# SUPPLEMENTAL RULES AND REGULATIONS

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## 1.0 Administration

- 1.1 This event is governed by (listed in order of hierarchy, lowest to highest, where conflicting) Club Codes and Regulations, Endurance Racing Series, 25 Hour Supplemental Rules, and rules announced at the driver's meeting.
- 1.2 No driver or crewmember may drive on the east track at Thunderhill Raceway for (TBD) days prior to the date of the start of the race. **Any vehicle that is driven** on the east track at Thunderhill Raceway in the (TBD) days prior to the event is ineligible for entry. **Officials working the NASA Teen Clinic are exempt from this rule on the day of the teen clinic in November.** The track offers testing on Thursday and Friday before the event. Please contact the track regarding testing: 530-934-4455 x 103 or 112
- 1.3 All teams must check in with NASA Registration. Registration will open at 12:00 noon on Friday at Thunderhill Raceway and is located on the first floor of the main building. Registration closes at 8:00PM on Friday. Any team failing to pick up their registration package by 8:00PM will be excluded from the event.
- 1.4 Crew credentials are enclosed in the registration packages.
- 1.5 Spectators will be charged admission starting on Saturday at 9:00AM. Those displaying event credentials at the gate upon entry will not be charged.
- 1.6 Pre-registration closes November 1<sup>st</sup> at 5:00PM.
- 1.7 No registrations will be accepted after November 20<sup>th</sup>.
- 1.8 Adding or changing drivers at the track will incur an extra \$50 fee.
- 1.9 Additional crew credentials at the track may be obtained from registration and will be charged an additional \$35.
- 1.10 Drivers that do not possess a NASA competition license, but possess a valid license from another sanctioning body approved by NASA, that register at the track must submit all applicable paperwork and fees for a NASA license, plus an additional \$25 fee.
- 1.11 All vehicles and trailers that do not fit into the team's assigned paddock area must be parked on the skid pad at the south end of the paddock.
- 1.12 "Rookies" are not permitted to drive in this event, except during the daylight hours. A "Rookie" is a driver with less than eight (8) road races with NASA or another recognized sanctioning body, or a combination thereof.
- 1.13 Teams / drivers have 30 minutes, from the time of incident, to present the Race Director with a Body Contact or Request For Action form.
- 1.14 All fuel must be purchased at Thunderhill Raceway via the gas pumps. The following Sunoco Racing Gas is currently priced at:
  - 91 Octane Unleaded at \$TBA
  - 100 Octane Unleaded at \$TBA
  - 110 Octane Leaded at \$TBA
- 1.15 Teams not able to meet the fuel purchase requirement must pay a drop fee of \$50 per barrel.



This arrangement and payment must be made through the track directly. 530-934-5588 x 103.

- 1.16 All teams must notify NASA of their estimated fuel usage in terms of gallons and octane. Teams are not obligated to purchase the amount of fuel specified. This rule ensures that Thunderhill Raceway will order enough fuel for the event.
- 1.17 Penalties will be served by the “timed” method as outlined in the Endurance Racing Regulations.
- 1.18 Drivers must report directly to reentry to serve penalties.
- 1.19 All entries using the mapping of the NASA Performance Touring (PT) will be accepted by invitation only. Any team entering a Spec Miata using PTE does not need an invitation. To request an invitation, please send an email to the Event Director, Jerry Kunzman.  
[jerry@drivenasa.com](mailto:jerry@drivenasa.com)
- 1.20 The appeals process described in section 10.0

## 2.0 Safety

- 2.1 All drivers must be utilizing a head and neck restraint device carrying an FIA 8858-2002 (or higher) certification or and unexpired SFI 38.1 or certification.
- 2.2 Minors are not permitted in the pitlane (cold or hot) without prior written consent of the Event Director, Jerry Kunzman. [jerry@drivenasa.com](mailto:jerry@drivenasa.com)
- 2.3 A team declaring a vintage class must ensure their vehicle has modern safety equipment.
- 2.4 JAWS lighting
  - 2.4.1 All teams must install and use the Jacques Andres Warning System (JAWS) light manufactured by I/O Port Racing Supplies ([part number JAWS15](#)).
  - 2.4.2 The use of JAWS is only permitted for vehicles stopped on, or close to, the course, or in an impact area, to warn other drivers.
  - 2.4.3 The hardwired version of JAWS must be wired directly to the battery, bypassing the main shutoff switch.

## 3.0 Timing and Scoring

- 3.1 Each vehicle is required to have two working AMB transponders. Transponders must be mounted at least four feet apart. Transponders may be purchased or rented from [I/O Port Racing Supplies](#). Note- limited number of rentals available.
- 3.2 The live timing feed is accessible at <https://racehero.io/orgs/nasa-norcal> on your phone, tablet, or computer. It will also be posted on the website at <http://www.nasa25hour.com/live-timing/>

## 4.0 Vehicle Requirements

- 4.1 All vehicles must display four (4) NASA decals while on track. Decals from other sanctioning

bodies are prohibited.

- 4.2 All vehicles must not exceed 99 dBA measured at 75 feet from the center of the track at all times, including testing days. Note- this is equivalent to 101 dBA at 50 feet.
- 4.3 Headlights (see Appendix D for diagram)
  - 4.3.1 Headlights includes auxiliary forward-facing lights meant to improve visibility, including “corner lights.”
  - 4.3.2 Headlight mounting is limited to the outer 12 inches of the vehicle corners. The measurement is taken from the outside edge of the front fender.
  - 4.3.3 No headlight shall be mounted higher than the base of the windshield.
  - 4.3.4 OEM headlight assemblies are not affected by this rule providing the light source remains an OEM part, a direct replacement part, and/or upgraded replacement part, manufactured for the make and model of the vehicle and installed without modification.
  - 4.3.5 All ES and ESR vehicles shall run amber tinted headlights.
- 4.4 Changing of the uni-body or chassis is not permitted.
- 4.5 All vehicles must conform to its class’ safety and preparation rules. Class rules from these organizations may be allowed: NASA, SCCA, JAF, BMW Club, FIA, IMSA, Grand Am, POC, PCA, ICSCC, and CASCC. Each team must inform the NASA administration of the class for their vehicle. Teams must provide a current rulebook for that class proving that their car meets those rules.
- 4.6 Using colored lights to identify a team’s vehicle is permitted.
- 4.7 Flashing or blinking lights are not permitted, except as mandated.
- 4.8 Blue lighting at, or near, the roofline is not permitted.
- 4.9 Vehicle numbers must be unique and must not be three digits. Vehicle number assignment is in order of received. Reflective and lighted numbers are encouraged.
- 4.10 Teams are permitted to modify their vehicles to accommodate faster and/or safer refueling even if their class rules do not permit it, as long as all modifications are legal within the rule sets enumerated in Rule #1.1 of this publication.
- 4.11 All vehicles must have at least one working headlight, taillight, and brake light.
- 4.12 **The following requirements apply to E0, E1, E2, and E3.**
  - 4.12.1 **The term “filler hose(s)” in this section refers to those attached to the vehicle.**
  - 4.12.2 **Filler hoses must be secured at each connection point with either a threaded connection or double hose clamps.**
  - 4.12.3 **Filler hoses must take the most direct path between the tank opening and the filler neck.**
  - 4.12.4 **The OEM fuel tank must be removed if a fuel cell is installed.**

4.12.5 Only one fill point is permitted on the vehicle.

4.12.6 Only one five-gallon can may be used to refuel the vehicle through the single fill point, at any given time.

4.12.7 Only one external (to the fuel tank or fuel cell) container that fuel is stored in, or moves through, (e.g. swirl pots, vent cans, surge tanks, etc) may be used, and that container shall not have a capacity greater than 1.5 liter (0.4 gallons). Any container over 1.5 liters (0.4 gallons) is considered to be another fuel cell and subject to fuel cell requirements.

## 5.0 Pitlane

5.1 All drivers and crew must display a racing license or a crew credential at all times.

5.2 Drivers must turn off their headlights in the pitlane.

5.3 The pitlane speed limit is 25 MPH. Cones on entry and exit to the pitlane delineate the speed limit area.

5.4 NASA administration assigns pit spaces. Special requests can be made starting **October 15th**. Assignments will be published one week before event. Teams making special requests must complete the Pit Space Request Form and send it to Louise Sousoures. [norcaltiming@gmail.com](mailto:norcaltiming@gmail.com). Pit Space Request Forms are sent to each team at the appropriate time.

5.5 There will be a 25-hour countdown clock mounted in a viewable location. This countdown clock is a close estimate and is not the official clock for the event.

5.6 All teams are required to display their vehicle number in their pit stall so that the marshals in the pitlane can see it. Teams are required to remove such markings before leaving the facility.

5.7 A team representative must be present in the pit stall at all times when the team's vehicle is on course.

5.8 The use of anything to raise the vehicle in the pitlane other than a manual jack or a manually operated hydraulic jack is prohibited in E0, E1, E2, and E3 classes.

5.9 **Vehicles may not be "parked" in a pit space or in the pit lane (except while serving penalties or waiting for the track to go green on a restart). There must be work being performed on the vehicle while it is in its pit space.**

5.10 **Platforms and Observation Decks (or Carts)**

5.10.1 Pit spaces for ES, ESR, and ENP entries are exempt from this section providing that any observation decks are a commercially made product by a company with product liability insurance. The setup / installation and use must be in accordance to the manufacturer's instructions.

5.10.2 A "platform" is any structure with a floor raised from ground level to a maximum height of two (2) inches above the top of the cold pit wall, including the thickness of the structure.



- 5.10.3 Platforms are unregulated providing that the structure is secure and stable.
- 5.10.4 No platform shall protrude past the pit wall into the hot pit lane, however it may cover the top of the pit wall.
- 5.10.5 An "observation deck is any structure with a floor raised from ground level higher than (2) inches above the top of the cold pit wall, including the thickness of the structure.
- 5.10.6 Observation decks must not exceed eight (8) feet in height, measured from the ground to the floor.
- 5.10.7 Observation decks must be secured and stable.
- 5.10.8 No observation deck shall protrude past the pit wall into the hot pit lane, however it may cover the top of the pit wall.
- 5.10.9 A race director, event director, or their assigns, have the authority to require modifications and/or disallow any platform or observation deck deemed to be insufficient and/or unstable. No more than three (3) persons may occupy a non-commercial observation deck.

## **6.0 Communication**

- 6.1 Each team must have radio contact with the driver.
- 6.2 Each team is required to have a working cell phone in their assigned pit area that will be monitored during the entire event. Teams must ensure that NASA Registration has that cell phone number on file.
- 6.3 For convenience, teams may contact Race Control by telephone: 530-934-8793
- 6.4 Each manned flag station will use a solid yellow light to indicate a standing yellow during hours of darkness. A flashing yellow light will indicate a waving yellow during hours of darkness. All stations displaying solid yellow lights during hours of darkness indicates a full course yellow condition.
- 6.5 The flag station in Turn 14 may display a green light to correspond to a green flag.
- 6.6 The flag station in Turn 14 may display a red light to indicate when the pitlane is closed.
- 6.7 There may be a red light displayed on or under the bridge leading to Turn 14 to indicate when the pitlane is closed.
- 6.8 Flashing of headlights or other forward-facing lights to indicate an intention to pass is allowed once per vehicle per pass.
- 6.9 The driver of a stopped vehicle may flash the headlights if they need towing.

## **7.0 Format**

- 7.1 An open practice session offered on Friday between 4:45PM and 5:15PM.



- 7.2 A qualifying session will be held on Friday between 5:15 PM and 5:45 PM.
- 7.3 All participants must conform to the time schedule shown in Appendix A.
- 7.4 The grid will be posted by row number.
- 7.5 Parade Lap / Pace Lap
  - 7.5.1 The first lap out is considered the parade lap. Drivers will remain single file for a lap and then drive through the hot pit lane at 25 MPH. The pace car will set the speed at 25 MPH.
  - 7.5.2 The second lap will be faster and serve as the pace lap. If no issues or incidents present themselves, the pace car will extinguish its lights exiting Turn 12, signifying the intent to go green.
  - 7.5.3 The field will take a double file formation according to grid positions.
- 7.6 **The race starts when the initial green flag is displayed.**
- 7.7 **The race ends after 25 hours have elapsed and the overall lead vehicle on track receives a checkered flag. Exception - see Rule#7.9**
- 7.8 The start of the race is double file.
- 7.9 All restarts are single file.
- 7.10 The clock will continue to run, even during red flags, except for a red flag due to fog.
- 7.11 If the race is stopped due to fog, the entire field will be parked on the track. This action will stop the clock. When the race resumes, the clock will start again and continue until 25 hours has elapsed since the initial green flag or 3:00PM Sunday is reached. Under these conditions, only driver gear, cameras, and radios may be removed from the vehicle. A car cover may be placed over the car. No other work may be performed.
- 7.12 After all vehicles have exited the track the overall winner may demonstrate over zealous driving at the start / finish line, after which he or she will park the vehicle in front of the main building.
- 7.13 **The driver must take the green flag (cross the start / finish line under green) before making his or her first fuel stop.**

## **8.0 Technical Inspection / Impound**

- 8.1 Tech location is located near the registration building under the permanent awning.
- 8.2 All teams shall present their vehicle's logbook to a NASA tech inspector before Friday at 6:00PM.
- 8.3 Current valid logbooks from other recognized organizations will be accepted.
- 8.4 Teams entering a vehicle that uses rules based on horsepower are encourage to dyno before the event. See Appendix C for dyno contact information.
- 8.5 All E0, E1, E2, E3, and ENP vehicles on track when the checked flag is displayed will exit the





track and park in the pitlane. An official will notify the each team whether they should report to impound.

8.6 All MX-5 Cup Cars may run with the hardtop installed.

## 9.0 Fuel and Refueling

9.1 **Methanol fuel is not permitted.**

9.2 Teams are permitted one (1) 55-gallon drum in their paddock space at any given time. Additional barrels of fuel may be stored in the area designated by track personnel.

9.3 Fuel storage in the cold pitlane is prohibited, except for refueling rigs.

9.4 A standard carpet mat made for wiping shoes when entering a building is not considered a refueling device. **It may be placed on the ground before the vehicle enters the pit box, but must be removed after the vehicle leaves.**

9.5 **Refueling begins as soon as any refueling device crosses over the hot pit wall. Items for refueling may be placed on the pit wall (or on the flooring covering the pit wall) once the vehicle enters the pitlane.**

9.6 **Refueling has ended when all implements of fuel handling (cans, jugs, hoses, catch/vent cans, or spill trays, etc.) are behind the cold pit wall.**

9.7 **Teams are permitted to perform any work on the vehicle during refueling providing that work falls within the legal parameter of all applicable rules.**

9.8 **All four tires must be in contact with the ground while refueling.**

9.9 **Use of power tools that exert mechanical or physical force, pressure, energy, etc. are prohibited during refueling. Examples of prohibited tools: electric and air powered drills, saws, impact guns, etc. Examples of what is permitted: tire pyrometers, hand tools, radios, electronics, etc.**

9.10 **Loosening lug nuts, including a center nut and/ or “knockoffs” is prohibited while refueling.**

9.11 **No more than eight (8) personnel may be over the wall during refueling including any drivers.**

## 10.0 Appeals for Black Flag Penalties

10.1 A team may appeal any official’s decision/penalty.

10.2 A pit marshal will notify the team of a pending penalty.

10.3 If the team would like to appeal the decision the team must inform the pit marshal immediately.

10.4 Once a pit marshal is informed of the team’s decision to appeal, the pit marshal will notify race control.

10.5 Once the team informs the pit marshal of the intent to appeal the team’s driver, crew and/or representative will have ten (10) minutes to appear before a race director.



10.6 The race director's decision is final and cannot be appealed further.

10.7 Penalties, if any, will be served immediately.

TELENTATIVE



## Appendix A

# Schedule

**EXPECTED TO BE CLEANED UP AND REWRITTEN – JK 03/06/17**

### Wednesday:

Paddock access and setup from 8:00am-9:00pm. No entry after 9:00pm. No race engines after 6:00pm. Gate closes at midnight.

### Thursday :

Paddock access 7:00am. From 7:00am until midnight teams are allowed access to all areas of the paddock. It is the teams' responsibility to setup properly, in a proper location, and obtain approval from the event staff. Those teams that setup without approval may be ordered to move or make changes. Tentative early technical inspection may be offered.

For testing information please contact Thunderhill Raceway: 530-934-5588 x 103 or 112.

### Friday:

For testing information please contact Thunderhill Raceway: 530-934-5588 x 103 or 112.

12:00 PM – 9:00 PM NASA Tech opens and Registration opens.

4:45 PM – 5:15 PM warm-up / practice (99 dBA @ 75')

5:15 PM – 5:45 PM qualifying. (99dBA @ 75') [No race engines after 6pm.]

Open practice/qualifying sessions at no charge from 4:45pm until 5:45pm for all teams. Qualifying is between 5:15pm and 5:45pm. There is no break between practice and qualifying. The timing starts at 5:15pm.

6:30 PM – Drivers and Officials meeting at Race Central. **Mandatory** for at least the team owner or authorized representative. Driver attendance recommended.

Registration closed at 8PM and will not reopen. Teams failing to pickup up the Registration Packs by 8PM will be excluded from the event.

### Saturday:

9:00 – 9:30 AM Officials and Flaggers meeting at Race Central. (ANYONE may attend; driver's encouraged)

9:00 – 9:30 Pit Marshal meeting on the 1<sup>st</sup> floor of the main building.

9:30 – 10:30 AM Mandatory Pre-Grid. Any car not gridded by 10:30 AM will start in the rear.

10:40 – 10:50 AM All personnel to stand near their cars. No working on cars. Military announcements, demonstrations, etc. will take place.

10:50 – 10:55 AM Drivers belt in and prepare. Resume warming engines.

10:55 AM Five-minute board.

11:00 AM Pace car takes the track.

5:00 PM Sound limit warnings end and black flagging begins.

5:00 PM Checkered Flag for 6-Hour drivers.

### Sunday:

12:00 noon Checkered flag.

1:00 PM Awards ceremony on the first floor of the main building. Water, beer, and wine will be provided. Note- awards times may be delayed due to tech-impound tear downs. If there is a significant delay, photos may be taken of award winners in various positions. This will speed things



up and we will still have the correct photos no matter what.

Appendix B

## Credentials

**TO BE REWRITTEN** – JK 03/01/2017

~~**Media Credentials:** All Media Credentials must be issued by the NASA office in advance of the event. Deadline to submit a media pass form is Thanksgiving Day. All forms received after that day will be denied.~~

~~1) Qualifications:~~

- ~~a. Must have experience in photography of road racing events.~~
- ~~b. Must be contracted by, or employed by, an approved publication, or~~
- ~~c. May be "freelance," however must show evidence of published works.~~

~~2) Fees: There is a \$200 per ID fee. This may be waived for major magazine or television coverage / news stations, at NASA's discretion. This does apply to all freelancers, and those shooting online publications.~~

~~Media Credentials shall allow free access to the paddock, pitlane, and most off limits / restricted areas of the track. Media Credential Applications are found here <http://www.nasa25hour.com>. Media Credential holders are required to attend the Media Orientation and pick up an Event Media Vest.~~

**Crew Credentials:** All Crew Credentials must be issued by the NASA office in advance of the event. Crew Credentials are \$30. Crewmembers added after the posted deadline will be \$35 each..

**VIP Credentials:** All VIP Credentials must be issued by the NASA office. Deadline to submit a media pass form is Thanksgiving Day. All forms received after that may be denied at NASA discretion. VIP Credentials will allow the holder to gain access to the paddock free of charge, as well as, the pitlane and upper floors of the tower. VIP credentials must be approved. For approval, email your name, company, and your purpose to Jerry Kunzman [jerry@drivenasa.com](mailto:jerry@drivenasa.com)

**Race Control:** All Race Control Credentials must be issued by the NASA office. Deadline to notify the office for the need of a Race Control Credential is Thanksgiving Day. All NASA officials needing regular access to the Race Control tower will need to have one of these credentials. There is no charge for this. For approval contact Robert Kinley [Robert@drivenasa.com](mailto:Robert@drivenasa.com)

**Minor Credentials:** All minors with legitimate positions on a team, needing access to the pitlane, must get specific approval from Nor Cal Regional Director, Jerry Kunzman. Anyone under 18 years of age is considered a minor and must obtain a Minor Credential in addition to a Crew Credential. There is no additional cost for this credential. Please contact Jerry Kunzman [jerry@drivenasa.com](mailto:jerry@drivenasa.com).



## Appendix C

# Services

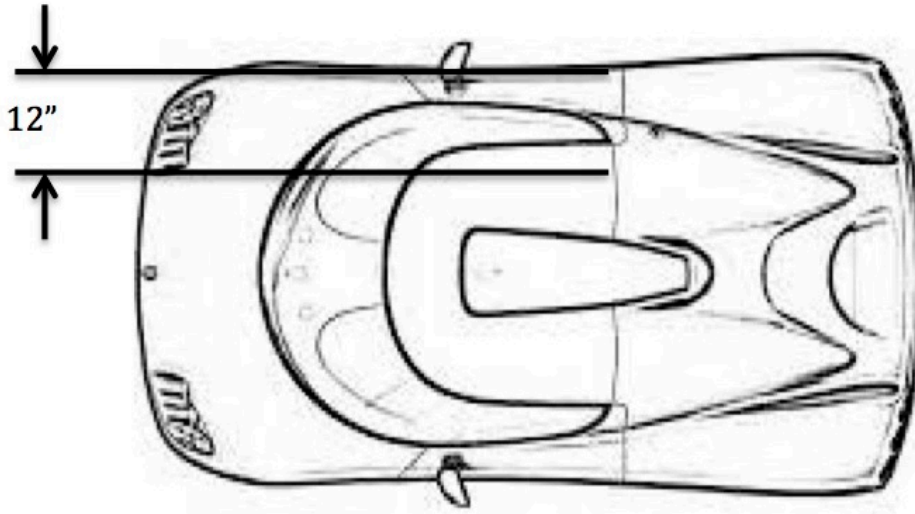
NASA has contracted with or made arrangements with the follow support services for the event. NASA is not responsible for their services, quality of work, or prices. We are simply arranges these to help the teams when possible.

Thunderhill Grill – TBA  
MCE Dyno – TBA  
AIM Tires – TBA

TELENTATIVE

Appendix D

# NASA USAF 25 Hours of Thunderhill 2016 Light Mounting Areas



## Appendix E

NASA 25hr Penalties: These supersede, or are in addition to, penalties in the Endurance Racing rules, Section 9.

**TO BE REWRITTEN** – JK 03/01/2017

~~PUSY—passing under single yellow flag—5 minutes~~

~~PUDY—passing under double yellow flag—1 minute~~

~~PUWY—passing under waving yellow flag—10 minutes minimum, can be increased by Race Director~~

~~PUWY with Red Cross flag—30 minutes minimum, expect to be increased by Race Director~~

~~Over-driving waving yellow—5 minutes~~

~~Over-driving waving yellow with Safety on scene—30 minute minimum, expect to be increased by Race Director. Driver expulsion from event may be warranted; mandatory on second offense.~~

~~Fuel spill—5 minutes~~

~~Refueling outside of hot pits—10 minutes~~

~~No boards under loaded jack stands—1 minute per stand~~

~~Change or rotate more than 1 tire in the hot pits (not applicable to ES, ESR, and NP01 vehicles)—2 minutes per tire~~

~~Skipping black or mechanical flag, per lap, after the first lap after the pit crew has been informed. 5 minutes per lap.~~