



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. All fees are listed in Appendix F.
- 1.2 No driver or crewmember may drive on the east track at Thunderhill Raceway from November 13th through November 29th, inclusively. Any vehicle that is driven on the east track at Thunderhill Raceway during the dates above 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: 530-934-5588 x 103 or 112. A new approved testing day has been added November 23rd, 2018.
- 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 1st at 5:00PM.
- 1.7 No registrations will be accepted after November 20th.
- 1.8 Adding or changing drivers at the track will incur an extra fee.
- 1.9 Additional crew credentials at the track may be obtained from registration and will be charged an additional fee.
- 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 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 available in these octanes: 91, 100, 110.
- 1.15 Teams not able to meet the fuel purchase requirement must pay a drop fee to Thunderhill. 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
- 1.20 The appeals process described in section 10.0
- 1.21 All forms, such as Body Contact, Appeals, Request for Action, and Protest (mechanical items) are located on the first floor of the main building.
- 1.22 The second, third, and fourth floors of the main building are generally off limits. This does not apply if instructed to report to one of these locations.

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
- 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/>
- 3.3 All vehicles are required to display their race class (e.g. GTS3, AI, CMC, SE30, etc.), as well as their mapped endurance class (e.g. E3, E2, etc) in three (3) inch tall letters and numbers on



each side of the vehicle.

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 marked “2016 Light Mounting Rules”)
 - 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, POC, PCA, ICSCC, and CASC. Each team must inform the NASA administration of the class for their vehicle. Teams must provide a current rulebook for that class proving that the vehicle 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. Flashing headlights is permitted under a separate section in this publication.
- 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 A single 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). The container must be constructed of aluminum or stainless steel, with threaded fittings to stainless steel braided fuel hoses. It must be separated from the driver's compartment by a separate bulkhead. Any container over 1.5 liters (0.4 gallons) is considered to be another fuel cell and subject to fuel cell requirements.

4.13 Any vehicle may install an optional rain light for better visibility. The rain light shall be red and rear facing. It may be used at the discretion of the driver, however if used, it must only be used in solid red mode. The light must be an FIA approved rain light.

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. 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 Full Course Yellow (supersedes section 5.8 of the NASA Endurance Racing Regulations)
The pits are "closed" during full course yellows. Once the Turn 14 flagger displays the double yellow flags (or by any other defined indication), the pit lane will then be "closed." If a vehicle enters the pit



lane during a full course yellow situation, the driver has two options:

- 5.9.1 Park in the team's pit space and do nothing until the green flag is displayed at the starters' stand. The driver may not exit the vehicle (unless due to an emergency or instructed to do so by an official) and the team shall not work on the vehicle.
- 5.9.2 Continue through the pit lane and rejoin the field at the discretion of the re-entry marshal based on safe-release conditions.
- 5.10 The option of going back paddock after pitting under double yellow is not permitted.
- 5.11 Vehicles may not be "parked" in a pit space or in the pit lane (except while 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.
- 5.12 Platforms and Observation Decks (or Carts)
 - 5.12.1 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 and comply with rule 5.12.8. The setup / installation and use must be in accordance to the manufacturer's instructions.
 - 5.12.2 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.
 - 5.12.3 Platforms are unregulated providing that the structure is secure and stable.
 - 5.12.4 No platform shall protrude past the pit wall into the hot pit lane, however it may cover the top of the pit wall.
 - 5.12.5 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.
 - 5.12.6 Observation decks must not exceed eight (8) feet in height, measured from the ground to the floor.
 - 5.12.7 Observation decks must be secured and stable.
 - 5.12.8 No observation deck shall protrude past the pit wall into the hot pit lane, however it may cover the top of the pit wall.
 - 5.12.9 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-commercially-made observation deck.
- 5.13 All drivers entering the paddock during the race must drive to at least the main road before entering their paddock space. This prevents "fast stops" using the end spaces. This rule only applies to E0, E1, E2, and E3.
- 5.14 The north ramp and center ramps between the pitlane and paddock are two-way traffic. The medical ramp (south most) is one-way from the pitlane to go back paddock.

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 permitted once per vehicle per pass.
- 6.9 The driver of a stopped vehicle may flash the headlights to indicate that towing is needed.
- 6.10 All vehicles must use a working smart phone, running the free app called "TrackFlag." The phone only has to have wifi and need not have any cell service. This allows teams to utilize old, inexpensive phones that are plentiful. The phone shall be mounted within the driver's view and must be hardwired for power. This system displays the state of the flags around the track and should aid the drivers in seeing flags.

7.0 Format

- 7.1 An open practice session offered on Friday between 4:45pm and 5:15p.
- 7.2 A qualifying session will be held on Friday between 5:15pm and 5:45pm.
- 7.3 All participants must conform to the time schedule shown in Appendix A.
- 7.4 The grid will be posted by row number. Row one will consist of the pole sitter and the second fastest qualifier, for example.
- 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 warm-up 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 shall fall into formation between Turns 12 and 14.

- 7.6 The race clock 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#7.11
- 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 (including any warm-up laps), 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 is permitted.
- 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 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 encouraged 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 checkered flag is displayed will exit the track and park in the pitlane. Working on, or altering the vehicle, in the pitlane after the checkered flag is prohibited. An official will notify each team whether they should report to impound. ES and ESR vehicles may return to the paddock without going through 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, or as permitted by the

Endurance Racing Regulations.

- 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. Fire extinguishers are not considered refueling equipment.
- 9.5 Refueling begins as soon as any refueling device crosses over the 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. The vehicle must be stopped before any refueling item may be brought over the wall, or taken from the wall, into the hot pit lane.
- 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 parameters of all applicable rules.
 - 9.7.1 All four tires must be in contact with the ground while refueling.
 - 9.7.2 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.
 - 9.7.3 Tightening / loosening lug nuts, including a center nut and/ or "knockoffs" is prohibited while refueling.
 - 9.7.4 No more than eight (8) personnel may be over the wall during refueling including any drivers. Once all refueling equipment is behind the pit wall, any number of needed personnel may be over the wall.
- 9.8 All refueling during a pit stop must be performed as the first task in that stop. If a team works on the vehicle then wishes to add fuel, they must complete a lap, then pit for fuel.
- 9.9 All E0-E3 NASA approved refueling cans must use a clear filler hose. When "full" the fuel may be in the neck of the can, but not above the filler neck (e.g. not showing in the hose).

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. Failure to report in the prescribed time will result in the penalty standing.
- 10.6 The appeal fee is \$50 and is refundable if appeal is won or modified in the appellant's favor.



10.7 Once the race director hears an appeal, the race director's decision is final and cannot be appealed further.

10.8 Penalties, if any, will be served immediately if possible. Time penalties, lap penalties, fines, and other forms of penalties may be applied after the race, if warranted as determined by the race director.

11.0 Additional Classes

11.1 The Toyo Tires GT Challenge is open to those Cayman GT4 cars meeting these rules with the exceptions listed below <http://www.competentmotorsport.com/index.php/regulations/>

11.2 Additionally, teams are permitted to modify the exhaust system, including, but not limited to, modifications to meet sound requirements.

11.3 Vehicles must run on Toyo Tires, model R888R in the following sizes:

11.3.1 275/35R18 on 9" x18" rims for the front

11.3.2 305/35ZR18 on 10.5" x 18" rims for the rear

11.3.3 The R888R and/or R888 in 245/40ZR18 and 275/40ZR18 may be used for wet conditions.

11.4 ES fueling and tire change rules are permitted.

Appendix A

Schedule

Wednesday:

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

Thursday:

From 7:00am until midnight teams are allowed access to all areas of the paddock. It is the teams' responsibility to setup properly, in their proper location. Those teams that not properly setup may be ordered to move or make changes. Tentatively early technical inspection may be offered.

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

Friday:

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

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

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

5:15pm – 5:45pm 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.

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

9:00am – 9:30am Officials and Flaggers meeting at the Thunderhill Grill.

9:00am – 9:30am Pit Marshal meeting on the 1st floor of the main building.

9:30am – 10:30am Mandatory Pre-Grid. Any car not gridded on track by 10:30am will start last.

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

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

10:55am Five-minute board.

11:00am Pace car takes the track.

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

Sunday:

Approximately 12:10pm (see section 7.6) - Checkered flag.

Approximately 1:00pm (may be delayed due to impound inspection) Awards ceremony on the first floor of the main building. In the case of a pending place change, photos of awards may be taken with drivers in the penalty-pending order as well.



Appendix B

Credentials

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 \$250 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 printed by the NASA office in advance of the event. Crew Credentials will be inside the registration packs.

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



Appendix C

Services and Side Programs

NASA made arrangements with the follow support services for the event. NASA is not responsible for their services, quality of work, or prices.

MCE Dyno – Open

- Friday 12:00pm – 6:00pm
- Saturday 9:00am – 6:00pm
- Sunday 9:00am – 3:00pm

Three consecutive pulls are \$80 total.

Outside of the first three pulls, tuning is \$150 per hour.

Note- Dyno is a two wheel drive Dynojet

Tire Service

Thursday 7:00am – 7:00pm

Friday 7:00am – 7:00pm

Saturday 7:00am – 12:00pm.

Thunderhill Grill

Hours:

- Thursday 7:00am – 4:00pm (prearranged catered dinners after 4:00pm)
- Friday 7:00am – 5:00pm (prearranged catered dinners after 5:00pm)
- Saturday 7:00am through the Awards Ceremony on Sunday.

For Catering contact Jim Thompson 530-519-2201 jim@thunderhill.com

Team Fundraiser for Fire Victims

As most of you know, the deadliest fire in California history, the Camp Fire, struck the community of Paradise and surrounding towns just about 30 miles from the track in the Sierra Nevada foothills. Most of the residents of the town of Paradise will be living in shelters through the holidays. At the time of this writing more than 80 people were confirmed dead and more than 870 are still missing. All of the homes in Paradise were destroyed and people have pretty much lost everything.

As we celebrate another year of competition at this event, a number of racers have indicated their interest in helping the victims of this tragedy. Proposals range from a dollar a lap to throwing a \$100 in in a bucket in the drivers lounge. Anything we give helps and sends a great message about our racing community to the people who let us run our cars in their backyard.

We will have a pledge sheet in the drivers lounge as well a secure donation spot for cash and checks. NASA will handle the distribution of the funds. If you have any questions or ideas about how we can make this a successful donation effort please contact Ethan Stone at 805-451-8495 or ethansb1@gmail.com. Note- checks should be made out to "NASA."

Norma's Last Chance Gives Back

FlatOut Racing and Bulldog Motorsports have joined forces once again to run the Honda powered

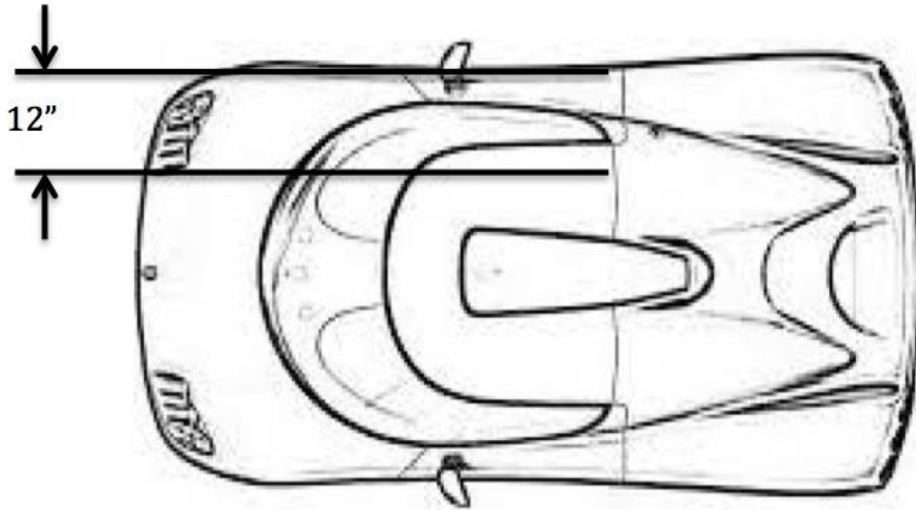


Norma M20FC. The two teams joined together for the first time in 2017 to run the car in the 25 hours of Thunderhill. This year, Norma's Last Chance would like to give back to the volunteers that dedicated so much time, energy, and effort. We will donate one dollar for every lap we turn in the 25 hours of Thunder hill. We would like to welcome any other teams to join our campaign **#laps4workers.**

TENTATIVE

Appendix D

NASA USAF 25 Hours of Thunderhill 2016 Light Mounting Areas



Appendix E

25 Hours of Thunderhill Penalties

The listed penalties supersede, or in addition to (as applicable), the penalties listed the Endurance Racing Regulations.

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 (safety scene) – 30 minutes minimum, expect to be increased by Race Director.

Overdriving waving yellow – 5 minutes.

Overdriving 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.

No jack stand(s) under the vehicle while crew (s) are under the vehicle – 1 minute.

Violation of the tire changing / rotating rule(s) in the hot pits – 2 minutes per tire.

Failure to pit after receiving a black or mechanical flag 5 minutes per lap.

Going back paddock after entering the hot pits under full course yellow – 15 minutes.

Illegally working on the vehicle – at Race Director's discretion and in relative proportion to the amount of work performed illegally.

Other violations – at Race Director's discretion.

Key:

PUSY = Passing under single standing yellow.

PUWY = Passing under waving yellow.

PUDY = Passing under double yellow.



Appendix F

25 Hours of Thunderhill Fee Schedule

Deposit	\$95
Entry (includes deposit)	\$2195
Extra Drivers (over four)	\$400
Driver Adds or Changes (<Nov 12)	\$55
Crew Credential	\$60
Media Credential	\$250
Spectators	\$20
Late Entry	\$350
Late Crew	\$65
RV Rental Pad (Camping)	\$249
Fuel Barrel Drop (per barrel)	\$50
Appeal	\$50



Appendix G

Meeting Notes

Recognition

- Hawk Performance Products is the presenting sponsor of the 25 Hours of Thunderill
- Mazda for year round support
- USAF
- Toyo Tires
- Winding Road Racing
- David Vodden and track staff

Visit the USAF Display

Thank any military member you see for their service.

Contact Rules

Please review in endurance rules. Not the same as NASA or SCCA sprint racing rules.

Time limit for reporting 30 mins

You have 30 minutes to report body contact or file a request for action.

Lights on turns T14

Green light mirrors start tower. Red light means pits are closed. Review- pitting under FCY.

Mark Pit stalls

Imperative to put car number on wall and remove before leaving.

Speeding on Hwy 162

CHP monitors that highway closely.

Start/Finish Line location

The finish line is not at the start tower. It's in front of the main building.

Shutoff lights – pitlane

Please remember to be courteous and shut off your forward facing lights when entering the pitlane.

Hot Tows / Flags

Remember that we sometimes do hot tows. That means people on the ground. Pay deep respect to those people by really slowing down through the yellow / red cross flag set.

Stop sign at entry

There is a stop sign at the guard shack both coming and going. Please obey both.

Blend line

The "blend line" is meaningless for this event. Completely ignore it.

Base Class

Make sure that we have your "base class." That is the regular sprint racing class that your vehicle was built for.

Use headlights to signal for tow

You may flash your headlights when stopped to indicate you need a tow. That could get you towed faster.

JAWS

Jacque Andres Warning System should only be used in emergency when you are stopped or moving very slowly.

Small Injuries

Please use the medical services as needed. But if it's something small and you can take care of it yourself, or have someone drive you to the hospital, it won't tie up advanced life support equipment and personnel.



Keeping up under yellow

Please do not significantly slow for a double yellow. If there is an issue at a turn, that turn will have a single yellow. Please catch the pack and keep up. No slackers.

FM Radio Frequency

We are broadcasting the corner station communications on an FM channel so that each team may hear flag conditions, locations of safety trucks, etc. It is not mandatory that you monitor this channel, but it could be helpful. The channel is pending and will be announced at the drivers' meeting.

Clearing the paddock

Make sure you're out of the facility by 7pm on Sunday.

Refueling

All refueling during a pit stop must be performed as the first task in that stop.

Gas Pump

No thick metal cards such as black Amex.

Third Floor

Strictly off limits.

Packages

All packages will be in the building at the front gate. Anything left after the event will sold and money will go to the NASA Teen School 501c(3) charity.

TENTATIVE