

# NASA Utah Round 3 - May 15-17th, 2020

## HPDE Drivers Information Packet

Welcome to our first track event for 2020! We are excited to get back on the track and have some fun! In light of the current situation, as well as rules and regulations of local government, NASA, UMC, and CDC guidelines, we will be modifying standard procedures. Unless stated otherwise, all normal rules and regulations are in place.

**READ THIS PACKET FIRST – YOU ARE RESPONSIBLE FOR DOING THE REQUIRED READING REFERENCED IN THIS BRIEFING. THIS WILL REQUIRE PLANNING AHEAD.**

### Course Configurations & Run Group Combinations:

- Friday: Outer Loop
  - HPDE 2 & 3 will run together, as usual
  - HPDE 4 will run with TT, as usual
- Saturday: Outer Loop
  - HPDE 2 will run alone
  - HPDE 3 & 4 will run together **\*this is unusual and there will be some restrictions that HPDE 4 drivers are not used to!**
- Sunday: East Track
  - HPDE 2 will run alone
  - HPDE 3 & 4 will run together **\*this is unusual and there will be some restrictions that HPDE 4 drivers are not used to!**

Why are we combining run groups this way?

- Good question - we are running this event in conjunction with NASA Rocky Mountain Region, which has led to larger run groups that are different than a typical NASA Utah event.

**Daily Schedule:** [www.nasautah.com](http://www.nasautah.com) - You are responsible for making sure you are where you need to be when you need to be there.

- Be to Grid 10 minutes before your schedule says your run group is scheduled. A sign board adjacent to grid will communicate which group is on track, and which should be in grid!
- We are not responsible if you miss your session.
- We will be able to tech on site if you haven't been able to tech prior to the event. Please bring your completed tech form to registration. Tech will be open at tech garage as well as west paddock near registration.

**The goals for this weekend are**

- Be Safe – car comes home in the same condition it came to the track in – minus some tire and brake pad life
- Have Fun – we come out to have fun and challenge ourselves and our cars.
- Go Fast(er) – we want to improve our car control skills
- Avoid catching Corona – unless it's the beer and the track is cold (after the last session of the day)

This weekend will require teamwork, communication, cooperation, and respect from all drivers in the run groups. This will be different and weird – we ask for your patience and flexibility. If everyone does their part then we will have a great event and we will be able to come back in June.

Other resources:

**Link to CCR** - <https://nasa-assets.s3.amazonaws.com/document/document/282/2020.3.pdf>

**NASA Utah website (for schedule, tech forms, etc.)** - [www.nasautah.com](http://www.nasautah.com)

**Link to update your NASA member info (for ensuring your cell phone number is correct so we can send you SMS alerts)** - [https://nasapracing.com/users/sign\\_in](https://nasapracing.com/users/sign_in)

**Live timing (results are not official)** - <http://www.nasautah.com/timing/>

## Communications - All Groups

In order for effective communication between drivers and NASA Utah staff, the following items are required in order to participate

1. Complete review of this entire document. Due to the complexities of operating a track event, standard operating procedures/rules will be outlined below. Meetings will focus on working out kinks in operations, coaching group performance, etc.
2. Attendance in all **HPDE** Zoom-based meetings
  - a. Times are listed on the weekends schedule
  - b. Links to connect available at [www.nasautah.com/zoom](http://www.nasautah.com/zoom)
3. We have a SMS system in place utilizing a service NASAproracing has prepared. This system relies on drivers entering their mobile device number in their nasaproring account profile. Then the group leaders can message the group as a whole. Please log into your account before the weekend and enter your mobile number. This system could vastly improve communications as we get more familiar with using it.
4. Your HPDE 2, 3, & 4 leaders can be reached during non-meeting times via text or call. Please note that both group leaders also participate or support one or more racing groups and may not be available during those sessions.
  - a. Greg Troester - 801.633.1928
  - b. Steve Friedrich - 801.882.9907
  - c. Blake Troester - 801.633.9221

## General Rules - All Groups

Subject to update from NASA Utah officials, the following restrictions are in-place:

- This is a ZERO spectator event. If you are not a driver, crew member, or NASA staff, you should not attend. Please do not announce this to friends and customers. Our understanding is that all spectator areas will be restricted.
- Nose and Mouth coverings are 100% required. These will need to be worn whenever you are in public areas. You will not need to wear these in your vehicles, or if sitting alone in your paddock space. These can be a homemade mask, a bandana, a balaclava, etc., but they need to be able to stay on your face while you use your hands. You will need to provide these yourselves.

**\*\* BEST MASK CONTEST \*\*** We'll be giving a NASA Utah T-shirt away to our favorite mask!

- UMC is requiring temperature to be taken at the front gate to enter the facility. This will happen each time you enter the gate.
- All participants will need to practice social distancing, and all paddock parking will need to be done with this in mind.
- Day garages will only be allowed to house 1 vehicle (parked in the middle. GP garages will only be allowed to house 2 vehicles (nose to tail)
- We will not be able to provide HPDE 1 at this event.
- No ride-alongs, no exceptions
- No Media
- Registration by credit/debit card only. No cash
- No BBQ and Awards ceremony
- [Read the NASA National Policy](#) – Some of our policies will be more restrictive because of Utah State, and UMC guidelines.
- Vulnerable individuals to COVID-19 (those greater than 74 years old, and those with serious underlying medical problems such as hypertension, diabetes, obesity, chronic lung disease and asthma, or immunocompromised state) should neither participate in nor attend events and should shelter in place at home until Phase 3, as outlined at <https://www.whitehouse.gov/openingamerica/>. Non-vulnerable participants need to understand that there is risk of bringing the virus home from any event and should take extra caution to isolate from vulnerable individuals once back home.
- Participants who are sick or coughing should not go to the event and will be required to leave.

# HPDE On-Track Rules - All Groups\*

\*see notes in each section for specifics to your run group for the day

In HPDE 2, 3 & 4, we have drivers that vary in pace, experience, car preparation, and seat-time. When we run mixed run groups, we will default to the rules that apply to the **most restricted group**. This is to ensure that all drivers can effectively comply with the rules and have a fun, safe track day.

- Passing (see map below)
  - **Read the HPDE Course conduct section in the CCR – Page 20 section 6.0 - [link](#)**
  - Point-bys
    - HPDE 2 - **required** (Saturday and Sunday only)
    - HPDE 2 & 3 - **optional, but encouraged** (Friday)
    - HPDE 3 & 4 - **optional, but encouraged** (Saturday & Sunday)
  - Passing Zones - varies by day & group
    - There are several passing zone maps - read the titles carefully and don't pick the wrong one for your day/run group!
    - HPDE 2 - NEVER in the middle of a corner
    - HPDE 3 - will have some expanded passing zones on Saturday & Sunday, when running with HPDE 4 (see map!)
    - HPDE 4 -
      - Friday - unlimited, but you know that in-corner passing is SLOW :)
      - Saturday & Sunday - see map! There are some restrictions
  - Dive-bombs will not be tolerated
  - **No cars side-by-side in corners**
    - One exception - HPDE 4, you may do this while running on Friday with TT, though it is the slow way around the track :)
  - If you are having a mechanical issue and are exiting track, maintain one side of the track, provide the 'exiting course' hand signal (fist in the air, out of window), maintain slower pace and be predictable.
- First Lap of Session
  - Unless yellow flags are present, passing is allowed as soon as you enter track. Use caution and prudence.
  - Spread out, get space, get warmed up.
- Last Lap of Session
  - Passing is still allowed in passing zones, but keep in mind that you should begin a cool-down lap at the half-way point through your final lap.
  - Checkered flag will be thrown at:
    - Start/Finish tower or wall -or- Turn 1 (East Track only)
    - Turn 10 (Tooele Turn)
    - Turn W5 (Black Rock, Outer Loop only)
- Exiting Course

- Left hand out window at a right angle – either closed fist or fingers pointing to the sky
- Roll down hotpit lane and follow the direction of the corner worker to exit
  - **25mph speed limit in Hot Pit**
- For further info, read the CCR page 24 section 8.1
- Flags - see addendum at end of this document for standard flag explanations. (will attached pages 22-23 of NASA CCRs - [link](#))
  - Black flag station will be manned, but communication will be limited as described above. Get stopped, take a breath, and wait for instructions. We will communicate somehow and get you back on track/
- Grid
  - Enter grid through the large cones by the day garages. **Never drive counter-grid! No backing up in grid unless a grid marshall is directing you.**
  - First come, first served. Please arrive early and grid yourselves according to your relative pace. This will become clear as the day moves on, so it is suggested that HPDE 4 drivers take the first row, while HPDE 3 drivers begin at the midpoint of the second row.
    - HPDE 4 - when running with TT, you may be restricted to a particular grid row if TT is gridding by time. This is TBD.
  - Please get to grid 10 minutes early
  - Helmets on, seatbelts buckled, front windows down
  - Please remain in your vehicle and keep staff/support to a minimum.
- Instruction / Instructors / Passengers
  - No in-car instruction will be provided
  - No passengers - no exceptions. This includes pro coaches, shop coaches, stage coaches, or your dog Skippy :)
  - We are happy to provide feedback and answer questions through our Zoom meetings and/or via cell! We have a good view of most of the track from the tower and will do the best that we can to help our drivers progress.
  - **Lead follows can be arranged with instructors via your group leaders. This will be on a limited basis. Instructor cars are marked with a yellow X on the back.**

# Flags (source: NASA National CCR)

## HIGH PERFORMANCE DRIVING AND TIME TRIALS

### 7.0 HPDE, SCHOOL, AND OPEN TRACK FLAGS

Flags are the MOST IMPORTANT form of communication the Officials have with the drivers while they are on the track. Therefore, it is imperative that drivers know what each flag means.

Note: Flags listed in this section are simplified from the Competition Flags, for the purposes of HPDE Program. Competition License Candidates are held responsible for the information contained in the "FLAGS, SIGNALS, AND COMMUNICATION" section #19.0 of the CCR.

#### 7.1 Green Flag



Session is open.

#### 7.2 Yellow Flag - Motionless



Slow down. Danger ahead. **ABSOLUTELY NO PASSING** is permitted, until completely past the incident, or until past next manned flag station that is not displaying any Yellow Flag(s), whichever comes first. There may be one (1) yellow flag covering more than one incident. There may be several yellow flags before reaching the emergency area. The requirements are still the same, "SLOW DOWN, NO PASSING." [Ref:(25.4.1)]

#### 7.3 Yellow Flag - Waving



Great danger, slow down. Be prepared to stop. **ABSOLUTELY NO PASSING** is permitted, until completely past the incident, or until past the next manned flag station that is not displaying any Yellow Flag(s), whichever comes first. Note: There may be one (1) yellow flag covering more than one incident. [Ref:(25.4.1)]

#### 7.4 Double Yellow Flags



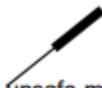
Full course yellow condition exists. Be prepared to encounter a Pace Car and/or emergency vehicles. Drivers should not significantly slow down. Be prepared to encounter a slow moving pack and other local flag conditions. Always obey the local flag conditions (e.g. waving yellow). **ABSOLUTELY NO PASSING** is permitted, until the Pace Car (if on track) has pulled off AND the driver has passed the next manned flag station that is not displaying any Yellow Flag(s). [Ref:(25.4.1)]

#### 7.5 Black Flag - Open



Track Officials want to talk to you. Complete current lap and pull into the pits for consultation.

#### 7.6 Black Flag - Furred



Warning. You are driving in an unsafe manner or you did something wrong. If you continue to do so, an open black flag will be shown to you.

#### 7.7 Black Flag All - Waving



All manned flag stations will display waving black flags during this condition. Some flag stations might display a sign with the word "ALL." All cars proceed slowly to the hot pits. No passing.

(continues below)

## HIGH PERFORMANCE DRIVING AND TIME TRIALS

### 7.8 **Checkered Flag**

Session is over. Complete current lap cautiously and exit via pit lane or otherwise designated end-of-session track exit point. Passing rules remain the same during the checkered flag lap as during the session.

### 7.9 **Red Flag**

Emergency. Come to an immediate and controlled stop on the side of the track in a safe location.

### 7.10 **Blue Flag** (with diagonal yellow stripe)

Another vehicle is following very closely and may attempt a pass. The driver receiving the Blue Flag should consider giving a passing signal.

### 7.11 **Debris Flag** (yellow and red stripes)

Caution. To be displayed motionless. Oil or debris may be present on the track surface or a slippery condition may be present. This flag will be taken down after several laps, but that does not mean that the condition has resolved, just that the driver should now be taking it into account

### 7.12 **White Flag**

Emergency vehicle or slow moving vehicle is on course.

### 7.13 **Emergency Vehicle Flag** (white flag with a red cross)

There is an emergency vehicle on course. Pass with extreme caution.

### 7.14 **Mechanical Black Flag** (with orange ball in center)

(*a.k.a. meatball flag*) There appears to be something mechanically wrong with your car. Proceed to the pits at reduced speed.

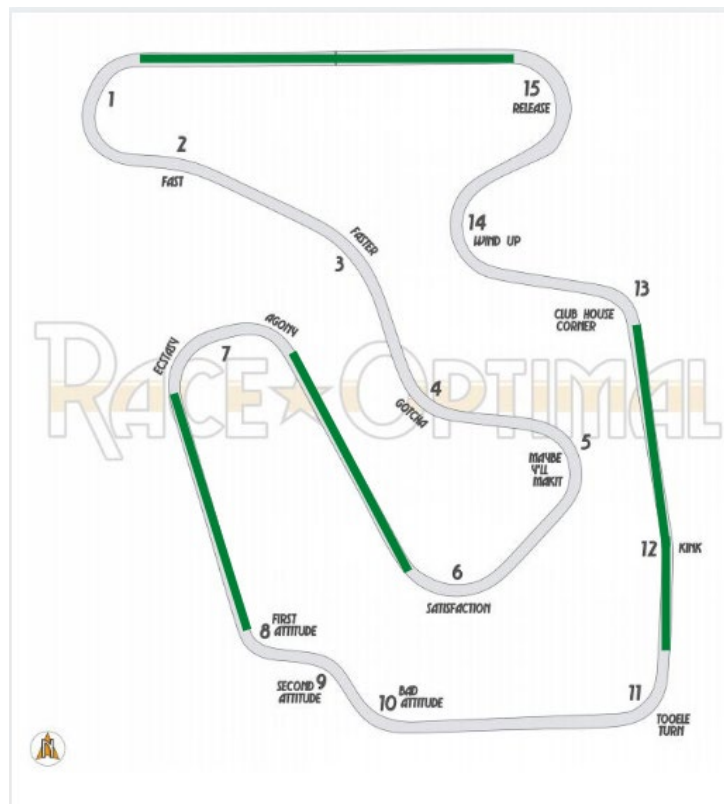
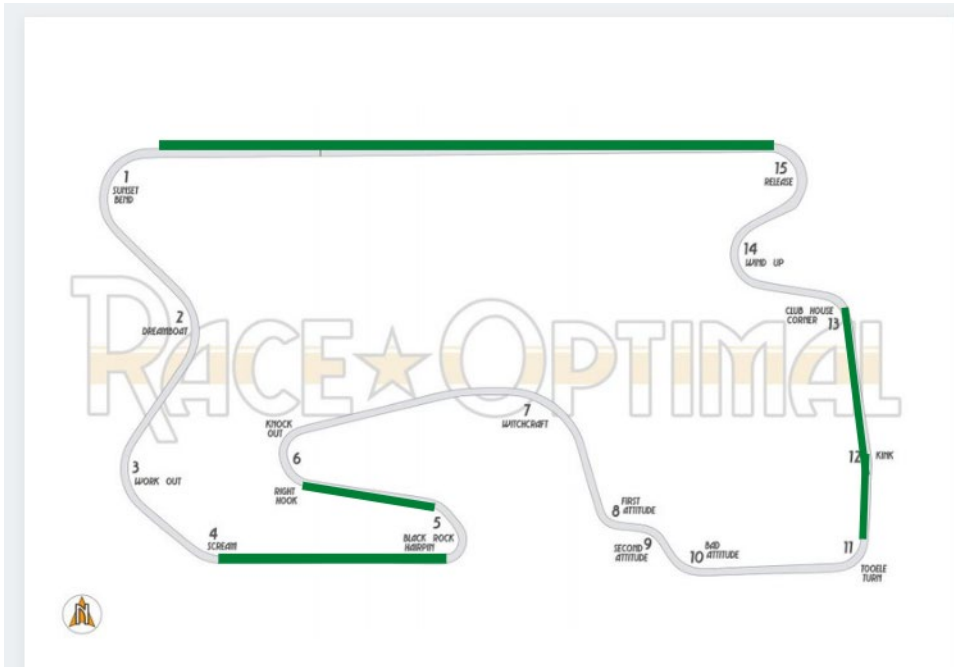
### 7.15 **Pace Car (with lights on)**

Follow the Pace Car at about the same speed. Do not pass the Pace Car unless instructed to do so by the Pace Car personnel. Passing is only allowed after the Pace Car has pulled off AND the driver has passed the next manned flag station that is not displaying a yellow flag.

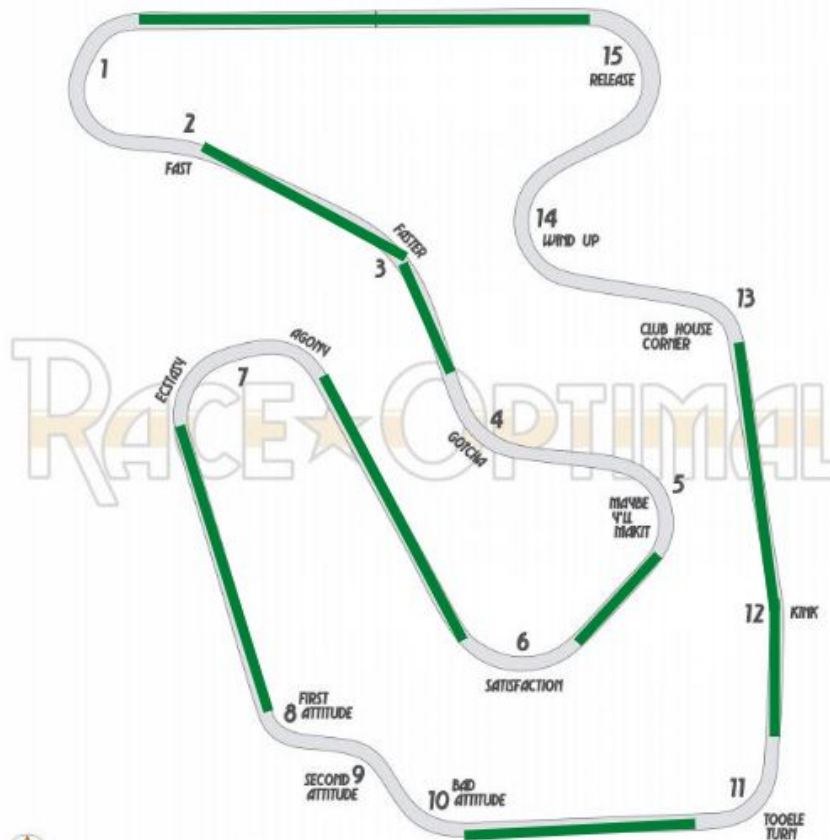
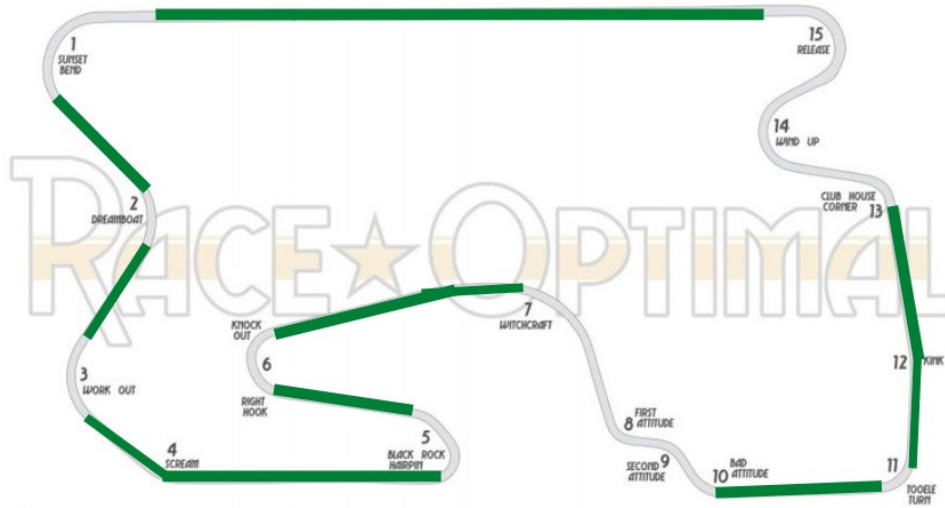


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### Passing Zones - HPDE 2 & 3 (Friday Only)



# Passing Zones - HPDE 3/4 (Saturday & Sunday)



# Passing Zones - HPDE 2 (Saturday & Sunday)

