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Dear Competitors,

Welcome to the 2015 SAE Baja Oregon Competition! The competition will take place Wednesday through Saturday, May 27-30th. I’m happy to report that the competition sold out in less than 10 minutes with 100 teams and was the second fastest to sell out of all 11 SAE student competitions. Teams are traveling from the USA, Mexico, Canada, South Korea, Venezuela, UAE, and India. This will be the largest SAE Oregon we have hosted and it certainly will be one of the most competitive.

I would like to start with a special thanks to the SAE Oregon Chapter for hosting the event. This is now our 5th time hosting this event, following competitions in 2004, 2006, 2009, and 2012. Many of us on the Baja SAE Oregon committee have been involved in all five SAE Oregon events, plus several other SAE events as competitors or volunteers. We are all volunteers and we have been working very hard to make this the best competition yet.

Some things are distinctly different for this year:

- We are switching to a 4 day competition format. Day 1 will be located at the Holiday Inn Portland Airport. Days 2, 3, and 4 will take place at Washougal Motocross Course.
- Sales Presentations and Registration have been shifted to Day 1. Briggs Engine Check will also be available on Day 1 for teams that have their car ready, limited to 40 teams.
- Tech Inspection and Design Judging are now the only competition events on Day 2. Dynamic events will be Day 3, and Endurance will be Day 4.
- Competition has been changed to much later in the year. The SAE Oregon competition is now 3rd on the calendar of the Baja SAE events.
- Washougal has changed their track maintenance system. Instead of a “soak and scrape” system, they have switched to a “compact and drain” system to make the track competition ready earlier in the season. We plan on using the track for a portion of the endurance course.
- The banquet will directly follow the endurance event at Washougal.
- We will have live scoring posted at Washougal via Wi-Fi.
- We have arranged a special room rate of $89.00 a night for competitors at Holiday Inn Portland Airport.

Some things will stay the same:

- The four dynamic events will be Rock Crawl, Acceleration, Maneuverability, and Hill Climb.
• We have selected a Wednesday, Thursday, Friday, Saturday format. This allows volunteers and committee members to clean up on Sunday so we can all return to our day jobs on Monday. It also allows more teams to attend. If you are shipping your car and/or flying in, you will need to arrange your own transportation for you and your car. More details for engine shipment and drayage are available in this competitor packet.

Please bookmark and check our website [http://bajasaeoregon.org/] frequently for updates. Good luck completing your entries, and on behalf of the Baja SAE Oregon Committee, we look forward to another exciting event!

Best Regards,

Steven D. Hyde, P.E.
Chairman
Baja SAE Oregon 2015
1 COMMITTEE COORDINATORS

The SAE Baja Oregon Committee is made up of volunteers from the Oregon Section SAE. These professionals have dedicated countless hours to making this a successful event.

BAJA SAE OREGON
2015 Organization Chart

2 SAE STAFF

The SAE Baja Oregon Committee would like recognize the national SAE staff for their hard work and dedication throughout the year to make these events happen.

Sam Barill, Manager, Collegiate Programs (Baja SAE, Aero Design)
The 2015 Baja SAE Oregon competition will be held May 27-30 in Portland, Oregon.

3.1 Hotels

The Holiday Inn Portland Airport is serving as our Day 1 venue for the 2015 Baja SAE Oregon. Be aware that parking is at your own risk; please make provisions to secure all vehicles, tools, etc.

For convenience, we have arranged a special rate of $89.00 USD/night for teams to stay at Holiday Inn Portland Airport. You may make reservations through the website at www.hiportlandairport.com. The Group Reservation Code is “BAJ”. By phone, call toll free at 855.642.6271 or the hotel directly at 503.256.5000 and refer to the Group name: Baja SAE Oregon.

Other hotels are available in the area, but Holiday Inn is the only one set up with special pricing.

3.2 Washougal MX Park Information

Days 2, 3, & 4 events will be held at Washougal MX Park east of Portland. Be aware that parking is at your own risk; please make provisions to secure all vehicles, tools, etc.

Washougal MX Park also observes a posted quiet time at 8:00 PM every night. All teams will need to exit from Washougal MX Park by 8:00 PM Saturday night after the conclusion of the competition, including all cars being prepped for return shipment.

The design presentations and technical inspections on Thursday will be held in the banquet tents at the Washougal property.

The dynamic events on Friday will be held near the main motocross track portion of the Washougal property. There will be a planned walk-thru of the entire endurance course both Friday afternoon and Saturday morning. Other than during the four dynamic events, the endurance event, brake check, and in the designated practice area, all vehicles are to be escorted at a walking pace by a team member. Failure to comply will result in point penalties and/or team disqualification.

Maps and directions for Washougal are provided in Appendix A.
3.2.1 Liability Waiver

For entrance to Washougal MX Park, all team members and advisors must fill out and sign a liability waiver. To expedite this process, the liability form is provided in Appendix B and as part of the registration process on Day 1. Once the form is filled out, please print it out, and make sure every name has a valid signature.

The liability form accepts up to 16 names on it. If your team is larger than 16 members, please fill out additional forms. To speed up entry into Washougal MX Park, the liability waiver form must be turned into SAE Staff when your team registers on Day 1.

3.3 Photography

We are planning on taking several pictures of the competition and will be posting them to the Baja SAE Oregon Facebook event page after the competition. If you capture some good action, please friend us on Facebook and share your photographs.

3.4 Food

Teams are responsible for their lunches on Day 1. The Holiday Inn has food service available onsite in addition to several options for food in the local area.

Teams should plan ahead for food and water needs on Days 2, 3, and 4 as Washougal MX Park is a considerable distance from the city. Honda R&D Americas is graciously sponsoring lunch on Day 3 for competitors.

The competitor’s banquet will be held after the endurance event at Washougal MX Park. Additional details are forthcoming.

Food vendors will also be set up at Washougal for Day 2, 3, and 4 to meet the needs of competitors, volunteers, and spectators.

3.5 Shipping

3.5.1 Shipped Engines

If your team elected to have your engines shipped direct to Portland, please pick them up between 8AM and 2PM M-F at the following address:

ESCO Distribution Center
2300 NW 26th Ave
Portland, OR 97210
Ask for Griffin Gilliland upon arrival and he can locate your engine. If you need your engine before May 22nd, please contact Steven Hyde (steven.hyde@escocorp.com or (503) 778-6224) to arrange a special pickup.

### 3.5.2 International Drayage/ Local Shipping

For teams that are shipping their cars to Portland, please use Pacific Exposition Decoration Company (PEDCO). PEDCO will take care of receiving and delivering your vehicles to a desired pickup location. Many teams may choose to have the drayage company deliver their car to Holiday Inn Portland Airport on the morning of Day 1 or to Washougal MX track the morning of Day 2. If you cannot transport your own vehicle and need vehicle transportation assistance while at the competition, please contact PEDCO directly.

Pacific Exposition Decorating Company  
330 SE Division Place  
Portland, OR 97202  
(866) 99-PEDCO  

An alternate for drayage is:

L.D. Tonsager & Sons, Inc.  
PO Box 55517  
Portland Oregon 97238-5517  
Tel (503) 907-0670  
Fax (503) 907-0667

Preferred Contact:  
Eric Tonsager: etonsager@tonsager.com

### 3.6 Fuel

No specific location is required for acquiring fuel. However, all rules related to fuel type found in the 2015 Baja SAE rules must be met. Since Washougal MX Park is approximately 9 miles from the city of Washougal, WA and the closest gas station, your team should plan to bring plenty of fuel. Additional locations to purchase fuel are available in Appendix C.

### 3.7 Local Shops

There are several local shops throughout the metro region. Information regarding shop locations, distances from events, and contact information can be located Appendix D.
3.8 Spectators

Spectators are encouraged to attend all events during the 2015 Baja SAE Oregon event. During the dynamic events, spectators will be allowed to watch each event from pre-defined viewing locations. During the endurance event, spectators will be allowed to roam around the track in identified areas protected either by cyclone or snow fencing.

Spectators will not be allowed in the main refueling area during the event. Where spectators will be allowed will be clearly marked. If an area is not marked as spectator safe, they should rule on the side of caution, and not enter.

All spectators will need to register (for free) and sign the Washougal MX Park liability waiver (Appendix B).

3.9 Camping

The SAE Oregon Committee is examining options for camping at Washougal for Days 2 and 3 (Thursday and Friday nights only). More information is forthcoming, but at this stage please organize accommodation other than camping at Washougal.

4 EVENT SCHEDULE

It is your responsibility to manage timing each day. Events will close at 5 pm each day regardless of team completion.

4.1 Day 1 Events

4.1.1 Registration

The Holiday Inn Portland Airport is serving as our Day 1 Event site for the 2015 Baja SAE Oregon. Competitor registration will be available from 9:00 AM to 5:00 PM. Directions are available in Appendix A.

4.1.2 Captain/Advisor Meeting

A mandatory Captain and Advisor meeting will be held on Day 1 at the Holiday Inn at 6:00 PM in the lower level of the hotel. The meeting room will be announced closer to the competition date.

4.1.3 Presentation Schedule

Sales presentations are scheduled for each team. The sales presentation schedule is available in Appendix E.
4.1.4 Engine Check

Briggs and Stratton will be set up outside of the Holiday Inn to perform engine checks on Day 1 for a limited number of teams. Hours and Day 1 Engine Check sign up details will be provided closer to the event date. Vehicles engines are only to be operated for the Briggs & Stratton Engine Test on the Holiday Inn grounds. Point penalties will be assigned for infraction with a no-tolerance policy.

4.2 Day 2 Events

A detailed rotation schedule has been developed with events operating on a first come, first served basis. The vehicle inspection must occur in the following order: Briggs & Stratton Engine Check, Technical Inspection (including Fuel Spill Check), and finally Brake Check.

4.2.1 Engine Check

Briggs & Stratton will be set up at Washougal to perform engine checks. Engine check will be available throughout the day.

4.2.2 Design Judging Schedule

Teams must be in the staging area before their scheduled time or the forfeit their scheduled design judge time. Please refer to Appendix F to determine your scheduled time.

4.2.2.1 Design Change Report

No teams are required to submit design change reports this year.

4.3 Day 3 Events

The dynamic events on Friday will be held near the main motocross track portion of the Washougal property as shown in Appendix A.

4.3.1 Acceleration

Each vehicle may make two (2) runs with the best time counting for score. Vehicles will be timed from a stopped position at the start of the course to the end of the course using optical timing equipment. Teams will be allowed to walk through the course prior to the event.

4.3.2 Hill Climb

Each vehicle may make two (2) runs with the best time including penalties, counting for score. Vehicles will be timed from a stopped position at the start of the course to the end of the course using optical timing equipment. Vehicles that do not complete the hill climb course will be measured where the vehicle stops forward progress. Teams will be allowed to walk through the course prior to the event.
4.3.3 Maneuverability

Each vehicle may make two (2) runs with the best time including penalties, counting for score. Vehicles will be timed from a stopped position at the start of the course to the end of the course using optical timing equipment. Teams will be allowed to walk through the course prior to the event.

4.3.4 Rock Crawl

Each vehicle may make two (2) runs with the best time including penalties, counting for score. Vehicles will be timed from a stopped position at the start of the course to the end of the course using optical timing equipment. Vehicles that do not complete the rock crawl will be measured where the vehicle stops forward progress. Teams will be allowed to walk through the course prior to the event.

Reversing is allowed without penalty.

A spotter may be used to guide the driver though the course, but cannot touch the car or move any rocks/obstacle on the course.

4.3.4.1 Stopped Vehicles

Vehicles are declared stopped and their distance is measured for score if:

- Vehicle is stuck in place for 20 or more seconds
- If the vehicle leaves the course
- Vehicle will be considered stopped at point of roll over
- Any external assistance

4.3.4.2 Penalties

Penalties will be assessed at the following rates:

<table>
<thead>
<tr>
<th>Infraction</th>
<th>Penalty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Obstacle/Pylon moved</td>
<td>-5 seconds or 5 feet</td>
</tr>
<tr>
<td>Missed Gate (two or more wheels outside the gate)</td>
<td>-10 seconds or 10 feet</td>
</tr>
<tr>
<td>First False Start</td>
<td>Rerun at the end of the line</td>
</tr>
<tr>
<td>Second False Start</td>
<td>Run DNS</td>
</tr>
</tbody>
</table>

4.3.4.3 Scoring

Scoring for the rock crawl event will be implemented as outlined below.
If any team finishes the course the scoring is as follows:

**Group 1 – Completed course**

Score = 75 x (T fastest / T yours)

**Group 2 – Failed to complete course**

Score = ((Lowest score from Group 1) - 5) x (Distance traveled / Total course distance)

If no competitors complete the course:

Score = 75 x [(D your – D short)/(D longest – D shortest)]

### 4.4 Day 4 Events

Penalties during the endurance event will be strictly enforced to maintain a fair and safe event. All penalties will be radioed ahead to the penalty box, where cars will be black-flagged the appropriate time penalty. Please refer to D5.7 of the 2015 Baja SAE rules for times.

In the event of a course change during the endurance event, the entire course will be red flagged (stopped) until the section to be bypassed is clear. Once the original course is clear and the bypass is open, the entire course will be simultaneously restarted. The clock will continue to countdown throughout this process. Vehicles not capable of progressing through the course without assistance will be considered for a black flagging for the remainder of the endurance event. All ruling by the event coordinators is absolute and final.

Work on vehicles must be completed within the team paddocks only; Polaris quads will be available to tow disabled vehicles to the to the team paddocks. Working on cars in the refueling pit is not allowed. Failure to comply with this policy may result in event disqualification. Teams are NOT allowed to work on the vehicle outside of the team paddocks. This rule is meant to maintain safety of both competitors and volunteers.

### 4.5 Scoring

Results from each event are collected and submitted to the SAE National Scorekeepers at the close of each event. Scores will be made available by SAE National Scorekeepers.

### 4.6 Protests

Any question about scoring, judging, policy, or any official action must be brought before the Event Chairman and Collegiate Program Manager for an informal review. If resolution is not satisfactory, a written protest must be filed within one half hour of the event closure with the Event Chairman and Collegiate Program Manager. A 25-point protest bond is required which will be forfeited if a protest is rejected. Please refer to the 2015 Baja SAE Rules for protest information.
5 AWARDS & RECOGNITION BANQUET

The awards banquet will be at the Washougal MX after the endurance event.

5.1 Banquet Admission

Up to eight tickets are reserved for each team. Additional tickets for team members, family, and friends can be purchased during registration or at the Banquet as you enter. Please note, additional tickets will be available in limited quantities, and on a first come, first served basis. It is highly recommended to purchase tickets during registration.

5.2 Awards and Recognition

All teams are encouraged to attend the banquet in congratulations for successfully attending the Baja SAE Oregon competition. All teams will be recognized with a participation plaque. For those teams that did exceptionally well, special awards will be given as detailed in Appendix G.

6 SPONSORS

The Baja SAE Oregon Committee and the Oregon Section of SAE would like to recognize the donors who made this event possible. Without their financial support, the Baja SAE event would not be the premier collegiate design competition that it is.

To recognize our Platinum Sponsors, we will be including decals at registration. Please reserve a 12”x12” area on your vehicle near the top of the firewall for these in addition to the Briggs & Stratton technical inspection stickers.

6.1 National Sponsors

We’d like to thank the following National Sponsors who make this competition possible each year.
6.2 Local Sponsors

It is with the support of our local sponsors that we have been able to host the 2015 Baja Competition.
Day 1: Holiday Inn Portland Airport

The Holiday Inn Portland Airport (8439 NE Columbia Blvd, Portland, OR) is conveniently located off I-205. When returning to the Holiday Inn from Washougal, take HWY 14 west to I-205, then south on I-205 to Exit 23B. Please refer to the below detailed map. There is plenty of free parking, yet be aware that parking is at your own risk; please make provisions to secure all vehicles, tools, etc.

Figure A1: Holiday Inn Portland Airport Location
Day 2, 3, & 4: Washougal MX Park

The Washougal MX Park is located just north of Washougal, Washington at 40205 NE Borin Rd.

Washougal is approximately 20 miles East of Portland on Highway 14. HW 14 is accessible from either I-5 or I-205 coming from Oregon. Take 15th Street North off HWY 14 approximately 6.5 miles (Green Line), turning left on Hughes Rd (Blue Line). Please note competitor vehicles (truck/trailer combos) should use SE 412th/Alder for easier access (Red Line). Refer to below detailed map for a listing of the colors.

![Figure A2: Washougal MX Park Location](image-url)
Spectators and all non-competitors must use the main entrance (Blue). Only competitors can use the truck/trailer entrance (Red).

Figure A3: Washougal MX Park Access
The liability waiver will be provided prior to the event.
Washougal fuel locations will be provided prior to the event.
A list of local shops will be provided prior to the event.
The sales presentation schedule will be provided prior to the event.
The design judging schedule will be provided prior to the event.
APPENDIX G
AWARDS & RECOGNITION
BRIGGS & STRATTON OVERALL PERFORMANCE AWARD
1st
2nd
3rd

SAE INTERNATIONAL OVERALL PERFORMANCE
4th
5th
6th
7th
8th
9th
10th

HONDA OVERALL DYNAMIC AWARD
1st
2nd
3rd

HONDA ENDURANCE AWARD
1st
2nd
3rd

MAGNAPOWERTRAIN MANEUVERABILITY AWARD
1st
2nd
3rd

POLARIS DESIGN AWARD
1st
2nd
3rd

ACCELERATION AWARD
1st
2nd
3rd

HILL CLIMB AWARD
1st
2nd
3rd

ROCK CRAWL AWARD
1st
2nd
3rd

SAE INTERNATIONAL COST AWARD
1st
2nd
3rd

SALES PRESENTATION AWARD
1st
2nd
3rd