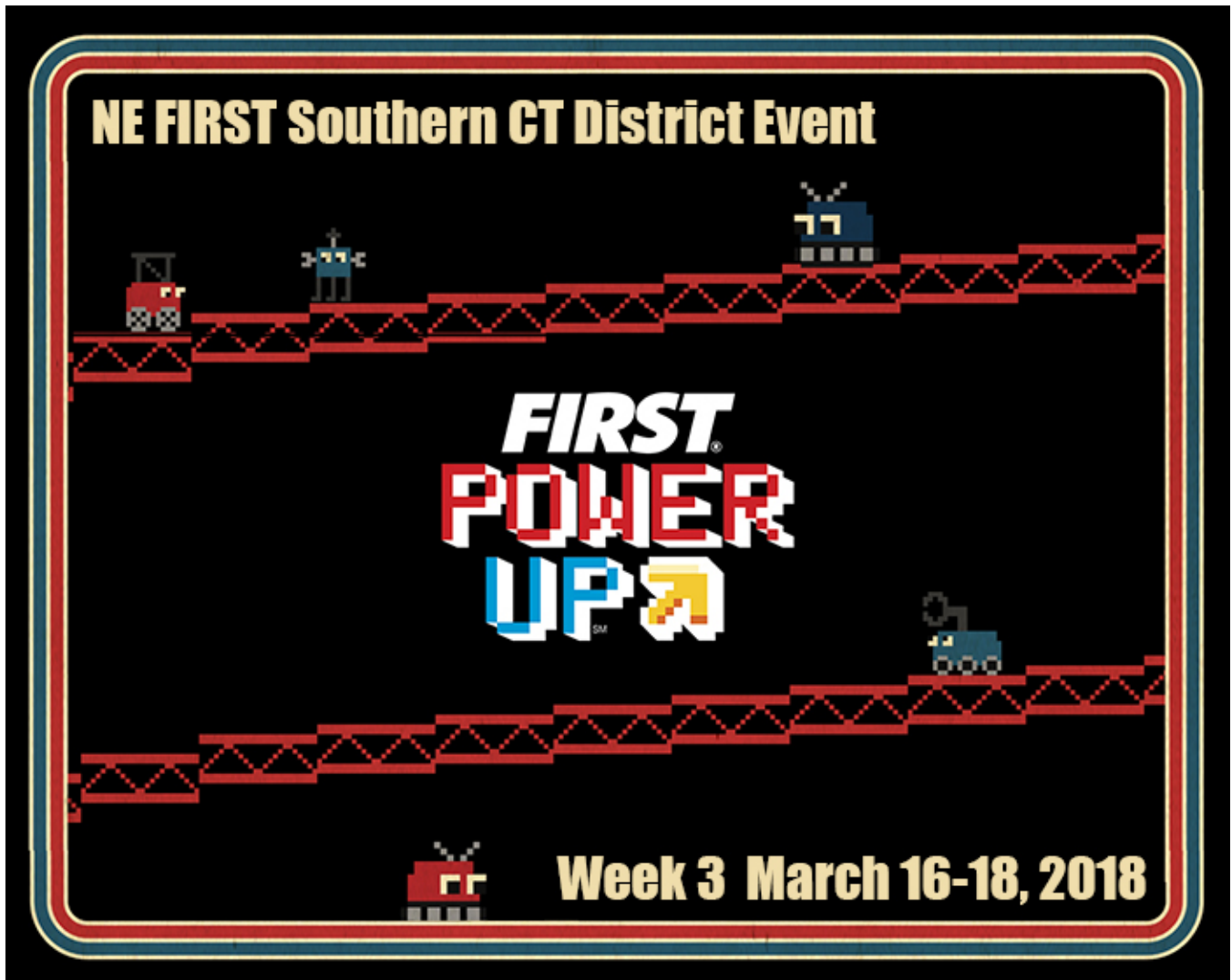




## Team Information Packet





**2018 Southern CT District Event  
Fairfield, Connecticut  
March 16-18, 2018**

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**Welcome Teams!**

On behalf of the 2018 NE FIRST Southern Connecticut District Planning Committee, I would like to welcome you to our event! We are excited to have you at the first ever southern Connecticut event and hope you enjoy your time here!

This year, we're thrilled to host 30 teams from Connecticut, Maine, Massachusetts, and Vermont at Fairfield University on March 16-18, 2018 to compete in "FIRST® POWER UP<sup>SM</sup>."

Our planning committee has been hard at work for many months to prepare a weekend of high-quality, fun-filled, intense team experiences that embody the FIRST Core Values of Gracious Professionalism® and Coopertition®! We hope you meet new friends, achieve your team goals, and have great time while at our event!

As Dean Kamen writes, "FIRST is More Than Robots. FIRST participation is proven to encourage students to pursue education and careers in STEM-related fields, inspire them to become leaders and innovators, and enhance their 21st century work-life skills."

In this packet, you will find a great deal of information specific to the Southern CT event. Please read through this information carefully and share it with your team.

We look forward to seeing you in Fairfield on March 16!

Sincerely,

Caleb Warner  
NE FIRST Southern CT Planning Committee Chair

**NE FIRST District  
Waterbury Event Planning Committee**

Caleb Warner  
Carol Scully  
Roger Bessette  
Matthew Dinnan  
Jeannine Graf  
Alison Hildenbrand

Kathie Kentfield  
Tracy McEvoy  
Ryan Munden  
Julie Tuozolli  
Emily Yale

## 1 General Instructions for Teams

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This document includes **LOAD-IN and Parking maps**, plus special instructions and rules that are specific to the 2018 Southern CT District Event. Please make sure that ALL mentors and team members see, hear, and/or read these instructions.

All final event decisions are made by NE *FIRST*, with Carol Scully, Regional Director, as point of contact.

## 2 Visitors and Community Outreach

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We love visitors at our events! But we also want them to be safe!

- ⚡ All event attendees must wear closed-toe and closed-back shoes as well as safety glasses when visiting the pits. All long hair should be tied back.
- ⚡ Safety glasses are limited in supply so if you have extra glasses, bring them for your visitors.
- ⚡ Children under age 12 must be accompanied by an adult at all times!
- ⚡ Inform visitors that “robots have the right of way” in our pits – and to be aware of their surroundings.
- ⚡ Explain FIRST’s credos of Gracious Professionalism® and Coopertition® to your visitors.

If you know of people interested in starting a team in any of our four *FIRST* programs, please send their name and contact information to Carol Scully, Regional Director, [cscully@nefirst.org](mailto:cscully@nefirst.org), so that we can connect with them and arrange for tours at the event and schedule our mandatory training sessions this spring. Let us know if you are interested in mentoring a team.

## 3 Venue

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The 2018 Southern CT District Event will be held at:

Fairfield University, Alumni Hall  
1073 N. Benson Road  
Fairfield, CT 06824

### 3.1 Directions to the Venue

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The event will take place at Alumni Hall Sports Arena, Fairfield University. These are general directions to the University. **Note directions for Load-in and Parking, below.**

**From New York via Connecticut Turnpike (I-95):**

Take exit 22 in Connecticut - Round Hill Road. Continue straight through the stop sign at the end of the ramp. At the traffic light, take a left onto North Benson Road (Rt. 135) and continue straight.

**From Providence and New Haven via Connecticut Turnpike (I-95):**

Take exit 22 in Connecticut - North Benson Road. Turn right at the end of the ramp onto North Benson Rd. (Rte. 135).

**From Hartford or Vermont via I-91:**

Take I-91 South to I-95 South in New Haven. Take exit 22 in Connecticut - North Benson Road. Turn right at the end of the ramp onto North Benson Rd. (Rte. 135).

**From New York via Merritt Parkway (Rt. 15):**

Take exit 44. Turn left off the ramp, and turn right onto Black Rock Tpke. (Rt. 58) at the light. Proceed 2 miles to Stillson Rd. (Rt. 135) and turn right. Bear left, at the second light, onto North Benson Road.

**From Hartford and New Haven via Merritt Parkway (Rt. 15):**

Take exit 44, take a quick left off the ramp, then take another quick left onto Black Rock Tpke. (Rt. 58), proceed 2 miles to Stillson Rd. (Rt. 135) and turn right. Bear left, at the second light, onto North Benson Road.

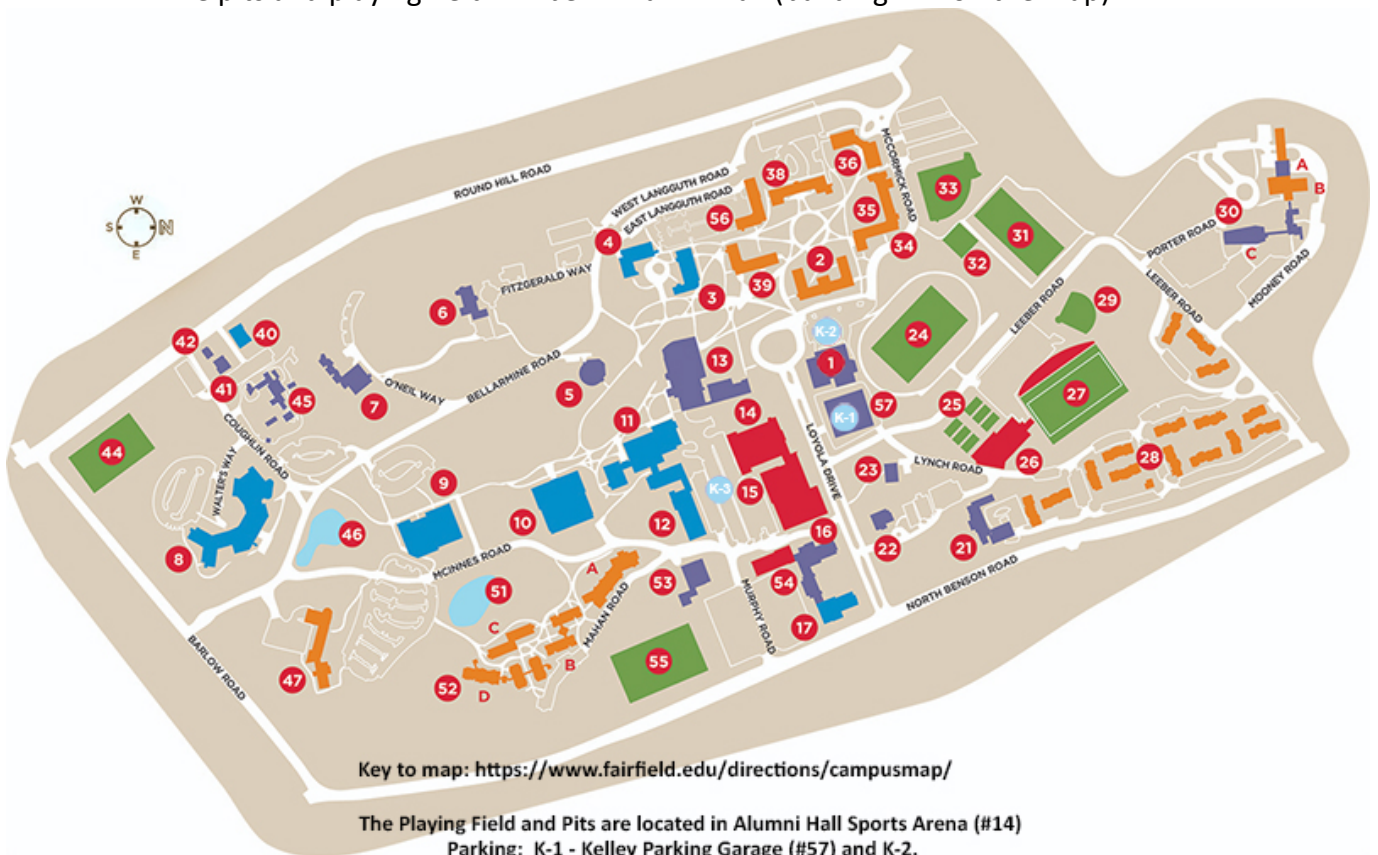
**From Boston/New Hampshire and North:**

Take the Mass Pike (Route 90) West to I-84 West (exit 9). Merge onto I-91 South. I-91 merges into I-95 South in New Haven. Take exit 22 - North Benson Road. Turn right at the end of the ramp onto North Benson Rd. (Rte. 135). Go straight.

### 3.2 Campus Map

The Fairfield University Campus Map can be found here:  
<https://www.fairfield.edu/directions/campusmap/>

⚡ The pits and playing field will be in Alumni Hall (building #14 on the map).



Key to map: <https://www.fairfield.edu/directions/campusmap/>

The Playing Field and Pits are located in Alumni Hall Sports Arena (#14)  
 Parking: K-1 - Kelley Parking Garage (#57) and K-2.  
 Lot K-3 reserved for volunteers. Lot 17 for busses and trailers.

Vendor	Location	Food Category	Hours - Friday	Hours - Saturday	Hours - Sunday
<a href="#">John's Best Pizza @ The Levee</a>	The Levee, located directly across from the main entrance to the Aloysius P. Kelley Center (#23 on map)	Pizza, Italian	11 a.m. – 8 p.m.	11 a.m. – 9 p.m.	11 a.m. – 8 p.m.
<a href="#">Einstein Bros. Bagels</a>	Barone Campus Center 3rd Floor (#13)	Coffee, pastry, bagels, sandwiches		7 a.m. – 2 p.m.	7 a.m. – 2 p.m.
<a href="#">The Star Snack Bar</a>	Barone Campus Center 3rd floor (#13)	Grilled food, sandwiches, drinks		11 a.m. – 4 p.m.	11 a.m. – 6 p.m.
Hot Dog Truck	Alumni Hall Entrance (#14)	Hot Dogs		11 a.m. – 3 p.m.	
Taco Loco Truck	Alumni Hall Entrance (#14)	Mexican		11 a.m. – 3 p.m.	
Meatball Truck	Alumni Hall Entrance (#14)	Meatballs		11 a.m. – 3 p.m.	

### 3.3 Parking

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NOTE: The Parking Information below is subject to change. You may be directed by campus personnel to park in other places.

View the Parking map here:

[https://www.fairfield.edu/media/fairfielduniversitywebsite/documents/student/ps\\_parking\\_map\\_13.pdf](https://www.fairfield.edu/media/fairfielduniversitywebsite/documents/student/ps_parking_map_13.pdf)

**Teams and visitors** should park in the Kelley Parking Garage K-1 (across Loyola Drive from Alumni Hall – note: the garage is new and does not show up in Google Maps!); or lot K-2 (west of the Kelley Center).

**Team Trailers and buses** should park in the Fairfield College Preparatory School parking lots off Murphy Road (see directions below).

**Volunteers** should park in lot K-3 behind Alumni Hall.

Parking at Fairfield University is at your own risk. Fairfield University is not responsible for the theft and/or damage of vehicles and/or personal property.

### 3.4 Bus and Team Trailer Unloading and Parking

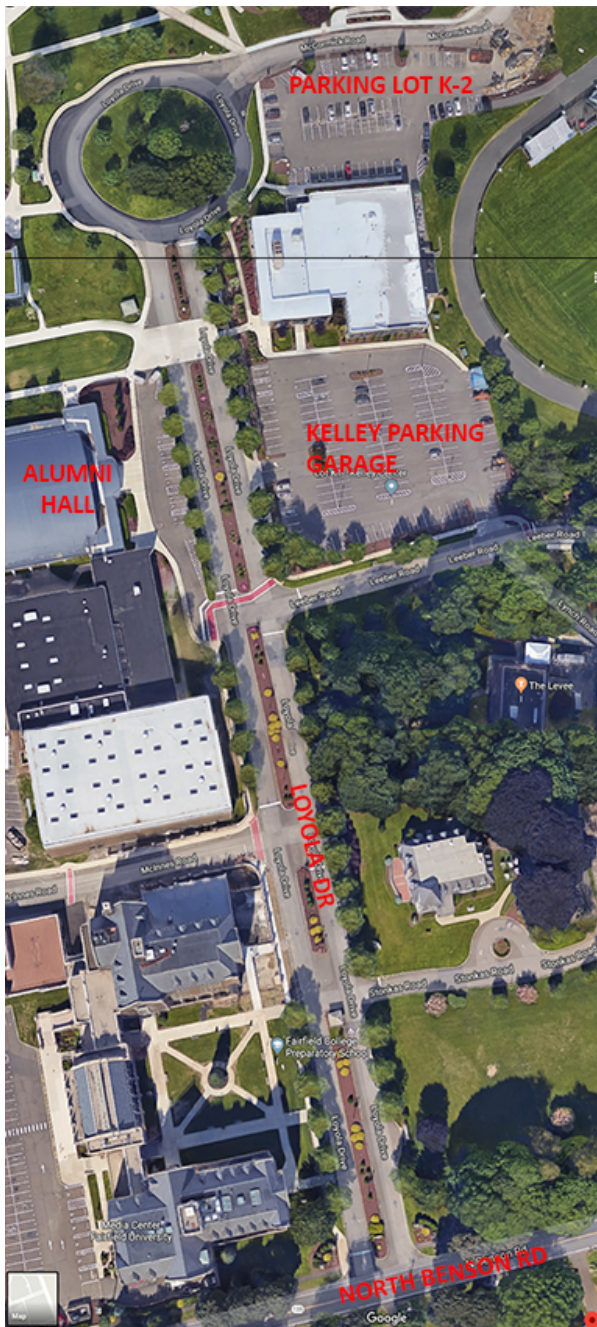
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Buses and Team Vehicles with Trailers should enter the campus from North Benson Road by turning into Murphy Road behind Fairfield Prep. Go straight. At the stop sign, turn right onto McInnes Road and make an immediate left into the parking lot (designated as K-3 in the campus map). Alumni Hall (the venue) will be the domed building at the end of the parking lot. You will enter via the back side of Alumni Hall. Team personnel and trailer items should be dropped off in that vicinity. Vehicles will make a u-turn and head back through the parking lot exit back out onto McInnes Road. Make a right onto McInnes Road and an immediate left back onto Murphy Road. Parking will be in the lots by Fairfield Prep School at the end of Murphy Road, before you get to North Benson Road. Do not park buses or team trailers in parking lot K-3 unless directed by campus personnel; it is our designated volunteer parking lot! (See map below.)



### 3.5 Team Vehicles and Spectator Parking

Teams arriving in vehicles (not buses) without trailers should enter the campus at the main entrance off North Benson Road (Loyola Drive). They may park in the Kelley Garage (Parking K-1 or 57 on the campus map) or in Lot K-2. (The Kelley Garage is new and does not show up in Google maps.) Do not park in lot K-3 unless directed by campus personnel; it is our designated volunteer parking lot! You will enter Alumni Hall via the front entrance. (See map below.)





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## 4 Load-In and Load-Out

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On Day 0 the event committee will be working to set up all areas of the event. Along with this, it is possible we will have some work to complete in the pits while teams are arriving. Therefore we are asking ahead of time for your consideration and patience. **Although entire teams are allowed to attend Day 0 per the rules, you may wish to only bring essential personnel to the Friday check in and inspection.** Teams will not be allowed in areas still undergoing setup unless directed by event personnel. **Day 0 Load-in is required. If you have a hardship please contact Carol Scully, [cscully@nefirst.org](mailto:cscully@nefirst.org), prior to the event.**

### 4.1 Bag and Tag Rules

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- ⚡ You must bring your own bagged, tagged, and sealed robot into the venue through the designated robot entrance.
- ⚡ Teams will NOT have access to a loading dock or forklift; we recommend bringing a rolling cart or dolly to facilitate the load-in.
- ⚡ Bags may not be opened until they have been checked, approved by an on-site inspector, and the pits have officially been opened for robot work. Teams may load in at 5 p.m. on Day 0.
- ⚡ **Please be sure to bring an additional tag for resealing your robot after the event so it can be properly transferred to another competition.**

### 4.2 Load-In - Day 0 (Friday)

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- ⚡ **Teams are expected to bring their robot on Day 0 to check in and begin inspection.** While we hope to offer practice matches as early as possible on Day 0, there is no guarantee that teams will be afforded practice time.
- ⚡ Starting at 5 p.m. on Day 0, teams may begin unloading their robots and pit equipment. You may enter without wearing safety glasses, but please use caution. Unpacking and donning safety glasses should be a priority.
- ⚡ Robot drop-off traffic:
  - ⚡ See map in Sect. 3.3. for directions to unload and park.
  - ⚡ Team vehicles must queue in the parking lot and will be directed to the unloading area by event staff.
  - ⚡ **During load-in, vehicles may NOT be left unattended in the drop-off zone.**

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### 4.3 Load-Out - Day 2 (Sunday)

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- ⚡ After alliance selection, the top 8 robots that were not picked will remain as backup robots. (see <https://firstfrc.blob.core.windows.net/frc2018/Manual/Sections/10-Tournaments.pdf> sections 10.5.1 and 10.5.2)
- ⚡ Other teams may start loading out immediately.
  - ⚡ Team vehicles must queue in the parking lot and will be directed to the unloading area by event staff.
  - ⚡ **During load-out, vehicles may NOT be left unattended.**
- ⚡ In the spirit of Gracious Professionalism®, teams are expected to remain in attendance through elimination matches and the final awards ceremony.

### 4.4 Tips

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- ⚡ Please plan ahead for traffic approaching Fairfield, especially on Friday afternoon and evening.
- ⚡ Prepare for bad weather. We encourage teams to prepare a team-based system for coordinating emergency information, including changes to the event schedule due to weather. Changes to the event schedule, etc. will be communicated via text message. Anyone may sign up to receive text messages about the NE FIRST Southern CT District Event by texting the keyword **powerupsouthernct** to 84483.
- ⚡ Transport team materials in closed container.

## 5 Venue Rules

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See FIRST General Rules: <http://www.firstinspires.org/resource-library/frc/event-experience>

#### PLEASE DO:

- ⚡ Distribute team pins and similar promotional items for teams and spectators.
- ⚡ Bring enough safety glasses for your team and visitors.
- ⚡ Wear safety glasses at all times in the PIT and on/around the playing field. During the event you will not be allowed into the pit without safety glasses, even to retrieve safety glasses. Be sure all team members have their safety glasses with them when entering the venue! Our safety glasses are for loan to our visitors and not to our teams. This will be strictly enforced.
- ⚡ Hang your team banners on the wall behind the bleachers using non-marking tape. Be FRIENDLY and use Gracious Professionalism with other teams and spectators while sharing

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the stands.

- ⚡ Be sure that your team mascots can see clearly and have an escort at all times if wearing a costume, and that they respect the personal space and boundaries of spectators.

**PLEASE DON'T:**

- ⚡ Attempt to deliver or ship robots, pit setups, tools, and/or materials directly to the site. Everything must be carried in during load in.
- ⚡ Sell any products such as food, hats, shirts, or any promotional products.
- ⚡ Distribute out any free food products, such as candy, water, soft drinks, fruit.
- ⚡ Use noisy devices, such as floor stompers, whistles, and/or air horns.
- ⚡ Invite or bring live bands to play in the audience.
- ⚡ Play loud music in the Pit because it interferes with important announcements.
- ⚡ Arrange for Internet access on the site.
- ⚡ Use walkie-talkies as they interfere with the wireless radios used by event service providers as well as the district event volunteers.
- ⚡ Wear open-toed or open-backed shoes in the Pits or on the playing field. This includes “clog” and “mule” style shoes, such as Crocs. New this year: Rule E02-2. All team members must tie back long hair.

If event staff deems something or someone to be unsafe or against Southern CT or *FIRST* standards, they will work with the person(s) to correct the situation. If the situation cannot be corrected, the item will be removed or the person(s) will be asked to leave. Finally, please respect the event staff as we are attempting to run a smooth event and keep everyone safe.

## 5.1 Seating in the Arena

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Ample bleacher style seating is available for teams with great views of the competition field. Please do not try and save seats as it is not permitted per [Rule E03](#). Teams are encouraged to share seats with each other and accommodate for spectators. Please do not sit in the top row of the bleachers – this area is reserved for persons with special needs.

## 5.2 Media Pass

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Southern CT DE teams will receive one Media Pass Button upon check-in at Pit Admin on Day 0. The button grants access to one person from your team to take photos or videos from a special designated seating area field-side at this event only. Your media person will be allowed access to that seating **ONLY** during your team’s matches. The FTA and/or Head Referee may rule that there

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are too many people field-side at any time, or abuse of the pass has been made, and revocation of this benefit is at their discretion.

### 5.3 Machine Shop Information/Rules

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General Rules and Process for machine shop work requests:

- ⚡ Any onsite work will be done by certified operators.
- ⚡ You must supply any material that is needed for repairs. The machine shop cannot provide scrap material.
- ⚡ One team representative must initially accompany their request to the shop request table, but may leave after providing any needed explanations.

## 6 Emergencies

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### IN CASE OF EMERGENCY:

Notify personnel at the Pit Admin table or the Scorekeeping table of the emergency. They will notify the emergency responders on duty at the event as well as the Event Coordinator.

We encourage teams to identify a meeting place away from the building (i.e. the team bus) where team members will meet if a building evacuation is necessary.

## 7 Building Layout

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The "Layout" schematic in the Appendix shows the location of all rooms to be used during the competition. Please share this with your team.

## 8 The Pits

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- ⚡ A proposed pit map is included in the Appendix. **It is subject to change.** Teams will receive a final pit map when they register at the Pit Administration table on Day 0.
- ⚡ Each team's pit will have a 6ft table and 1 power outlet and is approximately 9' X 9' so plan accordingly.
- ⚡ Due to safety and regulations, teams cannot build any structure that supports people or items for storage above the work area in their pit space.
- ⚡ No structures should be higher than 10 feet above the floor and must safely support any

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signs or displays mounted to the structure.

⚡ As a special reminder, don't forget:

⚡ A 25ft heavy duty extension cord and a power strip.

⚡ A small cart to transport your heavy robot from the Pit to the playing field.

⚡ Safety glasses for everyone on your team and your guests that will be visiting the pits.

⚡ Review the *FIRST* Suggested Items to Bring list:

[https://www.firstinspires.org/sites/default/files/uploads/resource\\_library/frc/game-and-season-info/competition-manual/2017/suggested-items-to-bring-to-events.pdf](https://www.firstinspires.org/sites/default/files/uploads/resource_library/frc/game-and-season-info/competition-manual/2017/suggested-items-to-bring-to-events.pdf)

## 9 Event Schedule

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The schedule is in the Appendix and is subject to change without notice. All times are estimated based on the flow of rounds.

Please see Pit Administration for updated match times. Match schedules will be released as soon as possible on Day 1. We recommend you post your match schedule in your pit for team members and visitors.

## 10 Consent and Release Forms

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We strongly encourage all team members and mentors submit their Consent and Release forms electronically. Mentors registered in TIMS may complete the electronic Consent and Release form in TIMS, and student team members/parents may complete their Consent and Release forms electronically via the *FIRST* Youth Team Member Registration (STIMS), for both the *FIRST* and the NE *FIRST* Consent and Release Forms. It will show in their dashboard as a task they need to do until they are both electronically signed.

When a mentor prints a team roster there is a column for consent & release forms. If it is checked there is no need for print copies. If it is x'd, then signed, printed copies of the forms must be turned in at each *FIRST* event you attend this season.

## 11 Inclement Weather

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In the event of inclement weather please check your email and the event's Facebook (<https://www.facebook.com/events/1417377061650050/>) and Twitter (@NE\_SouthCT) for updates. We suggest you create a plan for notifying team members in case of a change of

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schedule. Changes to the event schedule, etc. will be communicated via text message. Anyone may sign up to receive text messages about the NE FIRST Southern CT District Event by texting the keyword **powerupsouthernct** to 84483.

## 12 The Competitors

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A team list appears in the Appendix. Thirty teams from Connecticut, Massachusetts, Maine and Vermont will be competing at our event!

## 13 Chairman's Award Presentations

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Eligible teams that submitted for the Chairman's Award will need to sign up at pit admin and provide a Chairman's Award Video Consent Form in order to be interviewed by the Judges at the event. If a team does not sign up for an interview slot, they will be considered ineligible to earn the Chairman's Award at that event. Be sure to come prepared with your Chairman's Video, Video Consent Form and Judge Feedback Form if you wish to receive feedback. To receive feedback, teams submitting for Chairman's Award must fill out their Team Number and Team Name on the Chairman's Award [feedback form](#) and provide it to the Judges at the beginning of their Chairman's Award interview. **To ensure that ALL teams get their feedback forms back, please ALSO include a stamped self-addressed envelope with the feedback form.** For additional information visit the FIRST website: <http://www.firstinspires.org/resource-library/frc/submitted-awards>

## 14 Photos

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Immediately following the conclusion of the awards ceremony on Sunday evening the playing field will be available for 20 minutes for the Chairman's Award and Winning Alliance teams to pose for photos. Please plan accordingly.

## 15 Additional Activities at the Venue

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Plan to visit the various tables and booths set-up in the entrance lobby. FIRST will have a table with information about the four FIRST programs in case you are interested in starting a team, or know someone who wants to! Be sure to visit Scholarship Row for information about FIRST scholarships. A Competition Advancement Meeting will be held on Day 2 at 10 a.m. in the Mentor Lounge. Regional Director Carol Scully will discuss details about advancing to District Championships in Boston. Each team should send one mentor.

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## 16 Food

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Concessions will be available for teams and guests throughout our event (see Appendix). Teams may also bring food into the venue from outside, but there is no place to store coolers, etc. inside. Teams are prohibited from eating in the pits. Teams may bring food into, and eat in, the adjacent Barone Campus Center, Building #13 on the Campus Map.

## 17 Social Media – Make it Loud!

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-  Facebook: <https://www.facebook.com/events/1417377061650050/>
-  Twitter: @NE\_SouthCT  
Hashtags: #NESouthCT #WeAreNE #omgrobots #MakeThingsBetter

## 18 FIRST Tiara/Silly Hat/Favorite Hat Day

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It is a *FIRST* tradition for the Championships Volunteers to wear a tiara or silly hat or favorite hat one day at Champs. We are continuing the tradition at our District Event on Day 1, Saturday. We encourage teams to join our Volunteers and wear their favorite tiara/silly hat/favorite hat!

## 19 Website

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<https://nefirst.org/event/ne-district-southern-ct-district-event/>

## 20 Resources

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Competition Manuals: <http://www.firstinspires.org/resource-library/frc/competition-manual-ga-system>

*FIRST* POWER UP one-page game description: available in the Appendix – print a copy for your visitors!

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## **21 Contacts**

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Got any last-minute questions? Email Kathie Kentfield, Team Liaison at [kentfieldk@gmail.com](mailto:kentfieldk@gmail.com).

Are you running late? Call and let us know your status!

- ☎ Carol Scully, Event Coordinator: 860.989.1688
- ☎ Kathie Kentfield, Team Liaison: 860.416.9148



# APPENDIX

## FOOD

Fairfield University will be on Spring Break. However, teams will be able to obtain food from the following vendors during our event:

Vendor	Location	Food Category	Hours - Friday	Hours - Saturday	Hours - Sunday
<a href="#">John's Best Pizza @ The Levee</a>	The Levee (#23 on map)	Pizza, Italian (View the menu <a href="#">here</a> .)	11 a.m. – 8 p.m.	11 a.m. – 9 p.m.	11 a.m. – 8 p.m.
<a href="#">Einstein Bros. Bagels</a>	Barone Campus Center 3rd Floor (#13)	Coffee, pastry, bagels, sandwiches		7 a.m. – 2 p.m.	7 a.m. – 2 p.m.
<a href="#">The Stag Snack Bar</a>	Barone Campus Center 3rd floor (#13)	Grilled food, sandwiches, drinks		11 a.m. – 4 p.m.	11 a.m. – 6 p.m.
<a href="#">Super Duper Weenie Hot Dog Truck</a>	Alumni Hall Entrance (#14)	Hot Dogs		11 a.m. – 3 p.m.	
<a href="#">Taco Loco Truck</a>	Alumni Hall Entrance (#14)	Mexican		11 a.m. – 3 p.m.	
<a href="#">The Local Meatball Truck</a>	Alumni Hall Entrance (#14)	Meatballs		11 a.m. – 3 p.m.	

View the Campus Map for locations here: <https://www.fairfield.edu/directions/campusmap/>

## 2018 DISTRICT SCHEDULE

### Day 0 – Friday, March 9, 2018

5:00 p.m. – 10:00 p.m. Pits Open for Load-In; Robots are Inspected

### Day 1 – Saturday, March 10, 2018

8:00 a.m.	Pits Open; Practice Rounds; Remaining Inspections
10:30 a.m.	Opening Ceremonies
11:00 a.m.	Qualification Matches Begin
1:00 p.m. – 2:00 p.m.	Lunch
2:00 p.m. – 7:00 p.m.	Qualification Matches
*8:00 p.m.	Pits Close

### Day 2 – Sunday, March 11, 2018

8:00 a.m.	Pits Open
9:00 a.m.	Opening Ceremonies
9:30 a.m.	Qualification Matches Begin
12:30 p.m. - 1:00 p.m.	Alliance Selections
1:00 p.m. – 2:00 p.m.	Lunch
2:00 p.m. – 5:00 p.m.	Final Rounds
5:00 p.m. – 6:30 p.m.	Awards Ceremony
*7:00 p.m.	Pits Close

*\*Schedule subject to change. All times are estimated based on flow of rounds.*

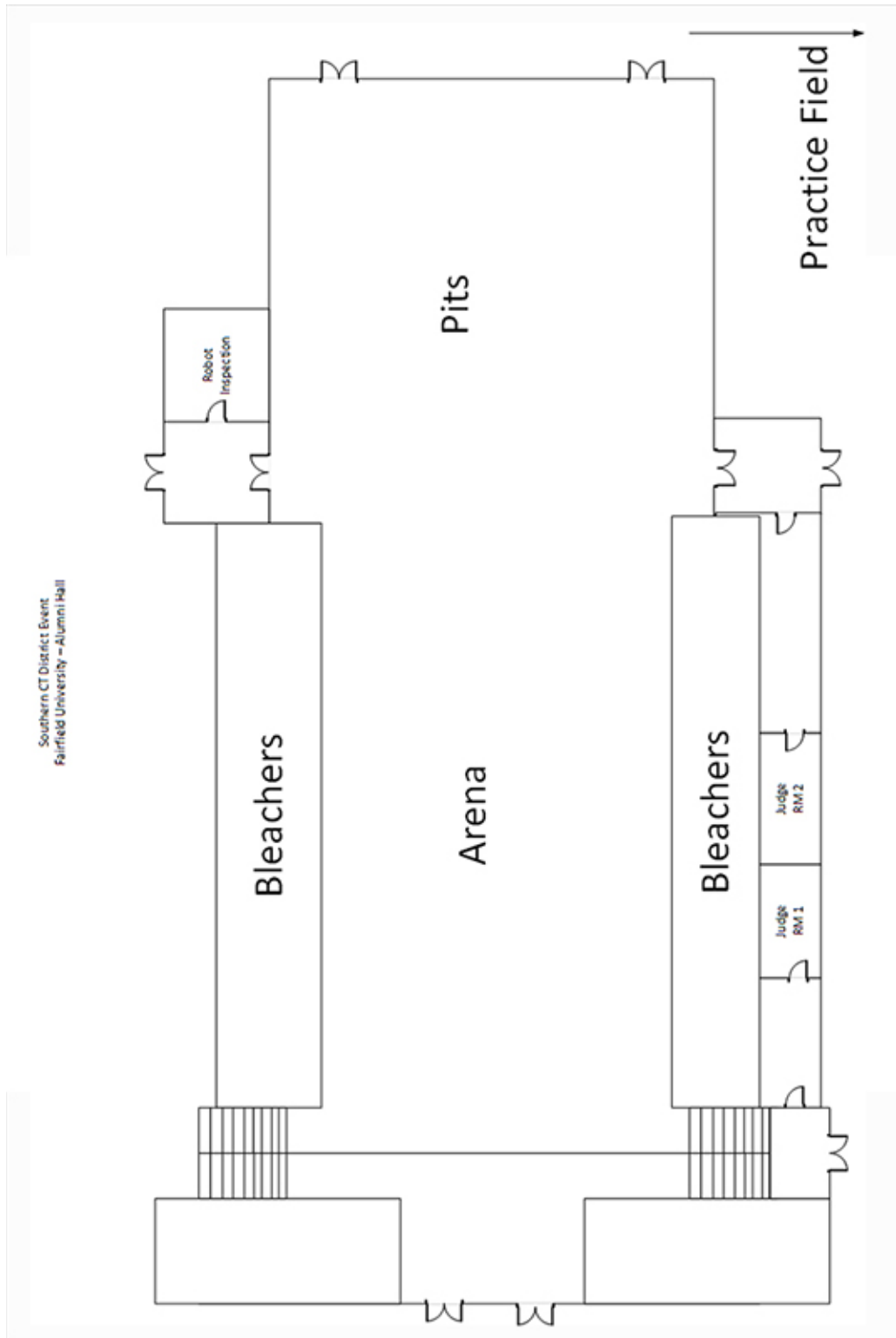
*See Pit Administration table for updated times.*

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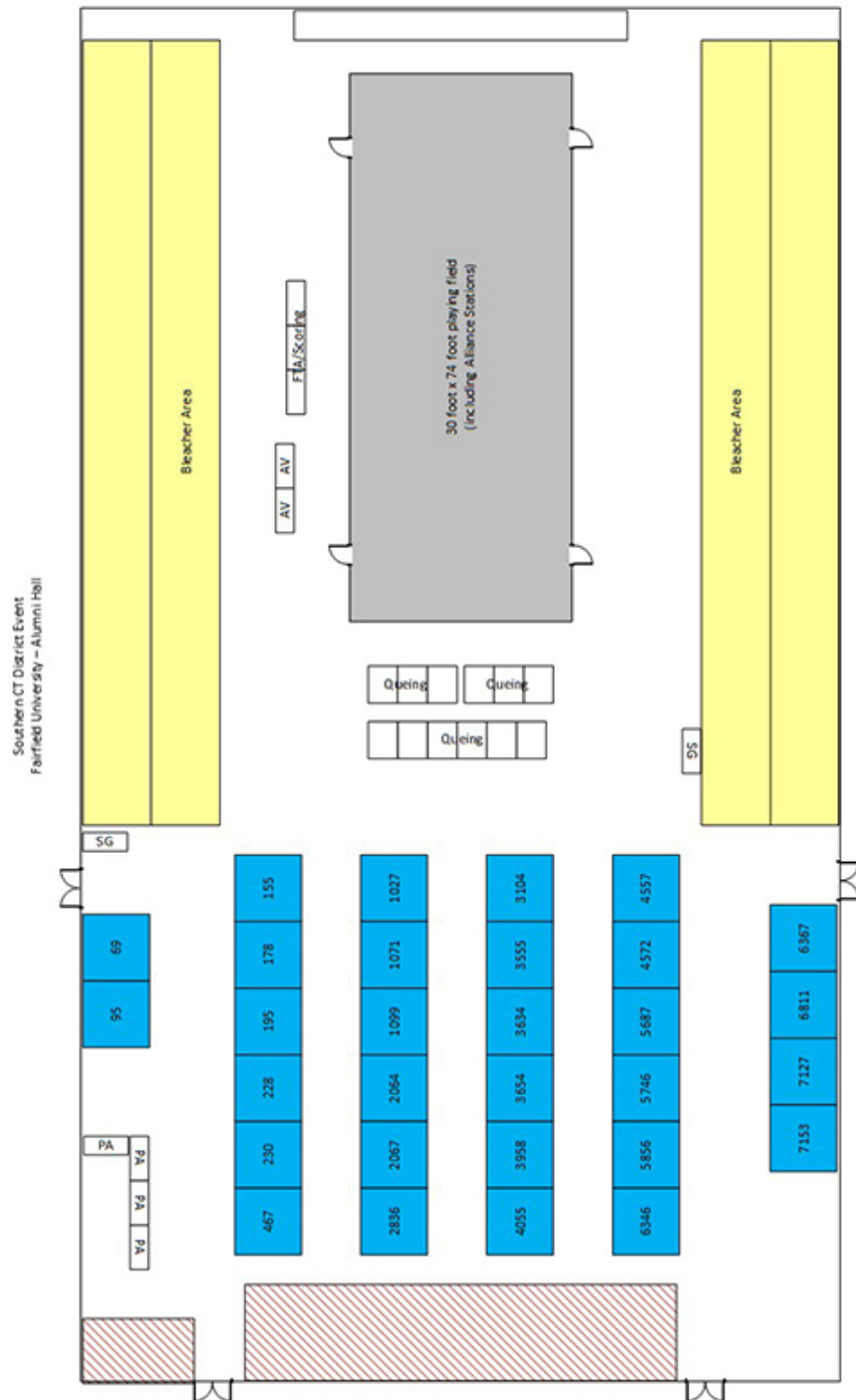
### TEAM LIST

Team#	Team Nickname	City	ST
69	HYPER	Quincy	MA
95	Grasshoppers	White River Junction	VT
155	The Technonuts	Berlin	CT
178	The 2nd Law Enforcers	Farmington	CT
195	CyberKnights	Southington	CT
228	GUS Robotics	Meriden	CT
230	Gaelhawks	Shelton	CT
467	The Colonials	Shrewsbury	MA
1027	Project Jabberwocky	West Springfield	MA
1071	Team Max	Wolcott	CT
1099	DiscoTechs	Brookfield	CT
2064	The Panther Project	Southbury / Middlebury	CT
2067	Apple Pi	Guilford	CT
2836	Team Beta	Woodbury	CT
3104	The Cyber Rams	Stamford	CT
3555	Aluminati	Storrs Mansfield	CT
3634	Spark City	Bridgeport	CT
3654	TechTigers	Middletown	CT
3958	Schrodinger's Cat	Boston	MA
4055	NRG	Winchester	CT
4557	FullMetal Falcons	Middletown	CT
4572	BARlow RobAutics	Redding	CT
5687	The Outliers	Portland	ME
5746	Human Error	Deep River	CT
5856	Bullbots	Waterbury	CT
6346	Norwalk High School Robotics	Norwalk	CT
6367	The ElectroLights	Boston	MA
6811	Gunnery Gears	Washington	CT
7127	LongMetal Robotics 7127	Longmeadow	MA
7153	Aetos Dios	Manchester	CT

**LAYOUT**



**PIT MAP**  
 (Subject to Change)



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**Bangor Savings Bank**

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**Texas Instruments Inc.**

**Worcester Polytechnic Institute**

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**Pfizer Inc.**

**The Peter and Carmen Lucia Buck Foundation**

## FIRST® Robotics Competition Game

FIRST® POWER UP™ the 2018 FIRST® Robotics Competition game, finds our teams trapped in an 8bit video game! Teams use power cubes to defeat the boss.

### Each three-team alliance has three ways to help defeat the boss:

1. **Owning the scale or their switch.**  
Ownership occurs when the scale or alliance's switch is tipped in their favor. Robots collect and deliver power cubes to gain ownership.
2. **Playing power ups.** Alliances exchange power cubes for power ups. Power ups provide a timed advantage during the match. There are three power ups that can be played: Force, Boost, and Levitate.
3. **Climbing the scale tower.** Robots work together to climb the scale tower to face the boss.

### Autonomous Period:

Robots operate independently following preprogrammed instructions for the first fifteen seconds of the match.

- Alliances score points by:
- Reaching their own autonomous line
  - Gaining ownership of the scale or their switch

### Teleoperated Period:

Operators take control for the final two minutes and fifteen seconds of the match.

Alliances continue to score points by:

- Gaining ownership of the scale or their switch
- Delivering power cubes to the alliance's vault
- Using power ups for a timed advantage
- Parking on the scale platform or climbing the scale to face the boss

**The alliance with the highest score at the end of the match defeats the boss and wins.**