



# COUNTY OF KENOSHA

January 2013

Department of Public Works & Development Services

## TEMPORARY USE APPLICATION

RECEIVED

MAR 06 2018

Kenosha County  
Planning and Development

Owner: IRVING ONE LLC

Mailing Address: 1222 N. GRANT AVENUE

ODESSA TX 79762

Phone Number(s): 262-203-0210 IUAN

To the Kenosha County Board of Adjustment:

The Kenosha County Board of Adjustments is required to hear and grant temporary uses by the language set forth in section 12.36-5(a)5 of the Kenosha County General Zoning and Shoreland/Floodplain Zoning Ordinance. The owner or assigned agent seeks approval of a temporary use permit.

Parcel Number: 60-4-119-304-0405 Zoning District: A-2

Property Address: 11514 RICHMOND RD. Shoreland: NO

Subdivision: \_\_\_\_\_ Lot(s): \_\_\_\_\_ Block: \_\_\_\_\_

Current Use: VACANT COUNTRY THUNDER GROUNDS

### REQUIRED BY ORDINANCE

Section: VII. B. 12.36-5(a)5 -  
RIGHTS FEST.

Temporary Use being requested:

(Note: petitioner must attach a separate site plan drawing showing the layout of the intended use (stand(s), trailer(s), tent(s), container(s), signage, building(s), etc...) along with a business write-up describing dates of operation, hours of operation, parking, sanitation, employment, safety etc...)

# TEMPORARY USE APPLICATION

The Kenosha County Board of Adjustments is authorized to hear and grant applications for temporary uses, in any district provided that such uses are of a temporary nature, do not involve the erection of a substantial structure, and are compatible with the neighboring uses and the Department of Planning and Development has made a review and recommendation. The permit shall be temporary, revocable, subject to any conditions required by the Board of Adjustment, and shall be issued for a period not to exceed twelve (12) months. Compliance with all other provisions of this Ordinance shall be required.

The burden will be on you as property owner to provide information upon which the board may base its decision. At the hearing, any party may appear in person or may be represented by an agent or attorney. You or your agent must convince the Board to make a ruling in your favor. The board must make its decision based only on the evidence submitted to it at the time of the hearing. The Board will not act on your request unless you or your agent is present.

(1) What would be the effect on this property, the community or neighborhood and the public interest if the temporary use was granted? How can these impacts be mitigated.

*These interests are listed as objectives in the purpose statement of an ordinance and may include: drainage, visual impact, parking and fire safety and building code requirements.*

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*The undersigned hereby attests that the above stated information is true and accurate and further gives permission to Planning & Development staff and Board of Adjustment members to view the premises, in relation to the temporary use request made herein, during reasonable daylight hours.*

Owner's Signature: \_\_\_\_\_

Agent: IVAN DUMBIL Signature: AK

Agents Address: 1741 DAVIS DR GENOA CITY WI 53128

Phone Number(s): 262-203-0210

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THIS MAP IS NEITHER A LEGALLY RECORDED MAP NOR A SURVEY AND IS NOT INTENDED TO BE USED AS ONE. THIS DRAWING IS A COMPILATION OF RECORDS, DATA AND INFORMATION LOCATED IN VARIOUS STATE, COUNTY AND MUNICIPAL OFFICES AND OTHER SOURCES AFFECTING THE AREA SHOWN AND IS TO BE USED FOR REFERENCE PURPOSES ONLY. KENOSHA COUNTY IS NOT RESPONSIBLE FOR ANY INACCURACIES HEREIN CONTAINED. IF DISCREPANCIES ARE FOUND, PLEASE CONTACT KENOSHA COUNTY.

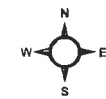
Source: Kenosha County Department of Planning and Development



# Kenosha County

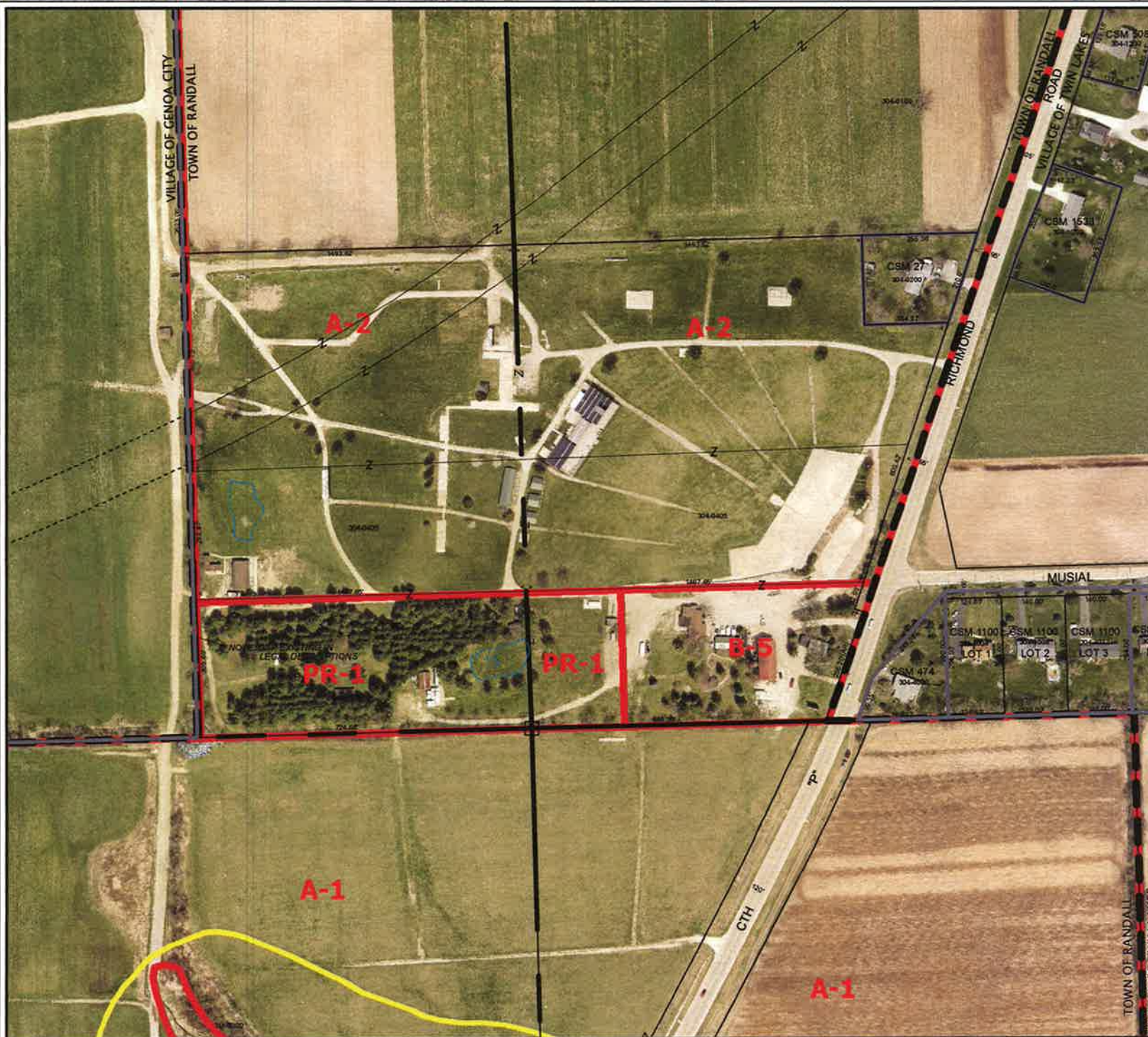


## ZONING MAP



1 inch = 300 feet

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Information Packet

# Country Thunder

Address- 2301-, 2303 Richmond Rd, Twin Lakes, WI 53181

Dates- Sept 22th 2018 & Sept 29th 2018

Expected Attendance- 5,000

Prepared by Vive Events

[info@thelightsfest.com](mailto:info@thelightsfest.com) | [thelightsfest.com](http://thelightsfest.com)

# THE LIGHTS FEST

This family oriented event is the fastest growing festival of its kind in the nation. There are many things that sets our event apart, but the biggest one is the feeling and emotion that comes when seeing the magical sight of the lanterns float into a starlit sky. These moments shared with friends and family are not soon forgotten and last a lifetime. We are proud of the fact that we have a very high percentage of customers who return to experience the event multiple times when we return to their area. Music festivals and races are easy to find, but The Lights Fest has proven to be the most uplifting and magical night families can experience together.

# **Our Company**

What are Special Event  
Lanterns?

Our Mission Statement and  
FAQ's

# OUR UNIQUE SPECIAL EVENTS LANTERNS

*Safety is our number one concern*

As a company, we take great pride in ensuring the safety of our participants. We use non-standard, customized lanterns that stay in the air for a short period of time. In Comparison, Traditional Lanterns often climb to an altitude in excess of one mile, and travel multiple miles away from their original launching point. At The Lights Fest, we have engineered our lanterns to produce a limited flight time **(on average, reaching a height of 250-300 yards and traveling a distance of 300-500 yards from their original launching point)**. Because our lanterns are customized, we are able to ensure that they will land within the designated property, for easy retrieval. They are made from non-flammable and biodegradable materials, aiding in the protection of our participants and the environment. (Upon request, we are willing to provide demonstrations before the event date) Any child under the age of 16 cannot light the lantern without supervision from a parent or guardian. We will never produce or take part in any event without the help of the local fire marshal and fire department. Wind Factors: The Lights Festival will not authorize the launch of lanterns if wind speeds exceed 15 miles-per-hour. If wind speeds don't reduce, The Lights Festival will cancel the Launch and reschedule it for a different date and time. Sustainability: All lanterns are biodegradable (asbestos-free) and Eco-friendly. The Lights Festival uses no metal wiring, nor any materials that could bring harm to the environment.

Special Event Lantern Indoor Test report Video [Click Here](#)

Special Event Lantern Outdoor test Video [Click Here](#)



# MISSION STATEMENT

## Providing a safe family event

Our mission at Viive Events has always been to produce an evening event where friends and families can build life long memories together. We have engineered our lanterns using state of the art safety protocols. Our lanterns are unique and are not available to purchase by the general public. These lanterns have a low burn time, and the improved burn pad lands with zero to little heat. If the burn pad has a flame the lantern is in the air. We take great pride in the time and resources dedicated to the design and manufacturing of our lanterns. However, we know that without an extremely thorough fire protocol and execution we would never feel agree to producing an event. Our Safety and Fire plan is what allows us to produce The Lights Fest at locations where others are unable to do so safely. Our events are located on both public and private properties outside city limits to ensure safety and avoid possible damage. All venues and property owners are familiar with the event and have agreed to host The Lights Festival. No lantern will ever interfere with airports, power lines, city buildings, or neighborhood houses. All lanterns will be cleaned off the property within 24 hours of launch. Clean Up: The Lights Fest is an evening festival that typically happens on a Saturday night. Depending on the number of people, we could produce a festival on a back to back Friday and Saturday night to ensure safety. All lanterns will be cleaned up within 24 hours of them being launched. If the event is a Saturday evening, The Lights Festival crew will have all lanterns retrieved, and the venue and surrounding properties will be cleaned up by Sunday afternoon. Our goal is to maintain long term relationships with our venue and property partners so that we can return year after year to put on our festivals for the local communities.

### **Clean Up**

The Lights Fest is an evening festival that typically happens on a Saturday night. Depending on the number of people, we could produce a festival on a back to back Friday and Saturday night to ensure safety. All lanterns will be cleaned up within 24 to 48 hours of them being launched. If the event is a Saturday evening, The Lights Festival crew will have all lanterns retrieved, and the venue and surrounding properties will be cleaned up by Sunday afternoon. Our goal is to maintain long term relationships with our venue and property partners so that we can return year after year to put on our festivals for the local communities.

# FREQUENTLY ASKED QUESTIONS

## **WHAT IS THE LIGHTS FEST?**

The Lights Fest is an experience where thousands of friends and families gather to listen to live music, fill up on food trucks and light up life by sharing personal wishes, dreams and goals. At the perfect moment, everyone ignites their personalized sky lanterns with Tiki torches and lets them take flight. It creates a surreal ambiance, where time slows down and your single flame rises and joins with thousands of others to Light the Sky.

## **IS THIS SAFE?**

Yes! Even though we utilize extremely safe, custom lanterns, we hire outside fire professionals who specialize in wildfire control throughout the US. These certified personnel help us better understand each individual region, and provide us with customized fire action plans and the onsite resources to combat any situation.

## **HOW DOES THIS EVENT AFFECT THE ENVIRONMENT?**

The Lights Fest is dedicated to leaving a positive impact on everyone who attends our event. We are also dedicated to leaving a positive impact on the environment. We have a dedicated cleanup crew, waiting in the landing zone, whose focus is collecting lanterns after the event. All events are strategically located outside of populated areas where there is open space. We've engineered our lanterns for low flight and landing-site predictability. After the event, we have a large cleaning crew, picking up the lanterns. Our lanterns are 100% biodegradable, so in the rare chance that we miss one, they are designed to quickly disintegrate. Our "Leave No Trace Policy" allows us to make sure that our venues look the same after we leave as they did before we arrived.

## **WHEN AND WHERE CAN I LAUNCH MY SKY LANTERN?**

Due to safety concerns, Lanterns are only permitted to be launched at the authorized time and place. Lanterns are not to be purchased for use outside of the venue. Participants who fail to abide by these rules may be subject to prosecution by local fire authorities and law enforcement.

### **CAN I EXCHANGE MY TICKET FOR A DIFFERENT DATE OR LOCATION?**

Unfortunately, our ticket platform does not allow for tickets to be transferred to a new date or location.

### **REFUNDS AND TRANSFERS**

Though we don't allow refunds, we've made it simple to transfer your purchased ticket into a new name. The new ticket holder will just need to bring their transferred ticket to "Check In", and fill out a new waiver before being admitted into the event.

### **WHAT IF THE EVENT IS CANCELLED?**

In the unlikely occurrence that we cancel an event, our policy is to return to the city within three months of the original date. You will be contacted via email with updates and a new itinerary.

### **ALCOHOL**

Alcohol is not permitted at the event. Venues and their owners may request to serve alcohol. Viive Events, LLC does not provide licensing and permits to serve alcohol on our behalf. Property owners will be required to have all documents and permits before any alcohol can be sold.

### **WHAT TO BRING?**

Make your experience comfortable by bringing collapsible chairs, blankets, etc. If you want to travel light, feel free to purchase these items at our on-site merchandise tent.

### **WHAT'S IN MY SWAG BAG?**

Each adult ticket purchase comes with a Sky Lantern, and a burlap sack containing a marker, key-chain, and flashlight.



## **VIP vs EARLY BIRD REGISTRATION**

The difference between the "VIP" ticket and the "Early Bird" ticket is the price. Those who have managed to save their spot on their city's event page will get VIP access to registration. After VIP tickets are sold out, early bird registration will begin, followed by other pricing tiers.

## **ANIMAL ATTENDEES**

We love your pets! ... but they're not allowed at the event. We do make exceptions for service animals with their current NSAR paperwork. Keep in Mind that loud music and the possibility of fireworks may provide an uncomfortable atmosphere for your service animal.

## **WHY IS THE EVENT NOT LOCATED IN THE ACTUAL CITY LISTED?**

Due to safety regulations, The Lights Fest is unable to hold events within city limits. To ensure we produce a safe and magical evening, Fire Marshals require our events to be held at venues with sufficient acreage and away from homes and businesses.

## **IS THE LIGHTS FEST A CHARITY?**

The Lights Fest is an event produced by Viive Events. We are a for-profit company with a dedication to making a lasting impact in each community we visit. For this reason, we partner with local charities and causes wherever we go. Visit the Events section of our website to see who we have partnered with. Feel free to send us an email at [charities@viiveevents.com](mailto:charities@viiveevents.com) to share your suggestions for ways we can help your community!

## **HOW CAN I CONTACT THE LIGHTS FEST?**

Send us a message on Facebook - <https://www.facebook.com/thelightsfestival/>  
Send us an email at - [info@thelightsfest.com](mailto:info@thelightsfest.com)

# **Event Day Protocol**

Set-up, timeline, and Lantern  
test run

# Event day Lantern Test run

## **FIRE**

The Lights Fest has made Safety the cornerstone of its business practice. Fire personnel are essential to making the event as safe as possible. Even with our extra-safe custom lanterns, we believe having fire professionals at each event is crucial. We have a partnership with the tenured professionals at Timberline Fire LLC. They are a well-known team of professionals who specialize in wildfire control throughout the United States. This group of certified personnel help us better understand each individual region, and provide us with customized fire action plans. As part of our contract with Timberline Fire, they will provide detailed information to any county or state throughout the US and Canada to offer a better understanding of our commitment to each venue and community. Each event will be equipped with two fire professionals, Tender Truck, (or type 6 truck) and the Fire Action Plan.

## **TEST RUN**

Before any participant can light the lantern, we ensure the flight and landing location is marked and the proper fire personnel by running one or more test lanterns. We will have the fire personnel mark the location from the festival area and be ready before the events begin. This process is for precautionary measures and our team of fire personnel will be equipped with all-terrain vehicles, or Razors, as they are commonly known. We equip the fire personnel with fire extinguishers and any other tools needed. We also have dedicated staff from The Lights Fest and our volunteer teams set up and prepared to help in any way possible.



# Set-up and Event Time-Line

## SET-UP

Our set-up process during the event consists of placing Tiki torches around our mobile stage. We start by separating the torches 10 to 15 feet from each other in rows. We use our reusable torches and secure them to the ground with stakes near our participants in preparation for the lantern ceremony.

- Thursday 9:00 am - Parking Manager arrives at venue to finalize traffic signage and traffic flow.
- Friday 9:00 am - Viive Events team of employees (6 to 8 typically), arrive for set-up of festival area. Additional worker (4 to 6) will be hired locally to assist with set-up. Point of contact will be our on-site event manager. TBA.
- Saturday 9:00 am - Finish with additional set-up.
- Saturday 2:00 pm first wave of participants arrive. 2:30 and 3:00 pm are the final scheduled times for parking arrival times.
- Saturday 7:30 pm Scheduled time for Event lantern Launch. Fire personnel will be on location at landing zone of lanterns. Test lantern will be launched at 7:20 pm for expected landing location and winds speed assessments.
- Saturday 3:30 pm to 8:45 pm end of event. Participants will have parking groups that will be announced to better control the flow of traffic. Every 15 to 20 mins our MC will announce the three parking group names. Each participant will have group names on receipt/ticket.
- Saturday 9:00 pm Cleaning and break-down as begun. Music will end shortly after 9:00 to 10:00 pm.

## EVENT TIME

At nightfall, the participants have been instructed by the on-stage team the steps to safely light the lantern and when to let go. We instruct the crowd to wait for our countdown to better control lantern flight. This allows us to monitor the wind and other environmental factors and time the actual launch at the safest moment possible for everyone to enjoy the launch and minimize any potential risks. Launch time varies from city to city and time of the year.

### **Event day timetable**

- Event Day: Sept 16th & Sept 30th 2017- Check-in Opens at 3:30 pm
- Music Acoustic live (30 mins) 5:30 pm - 6:00
- Kids Dance off / Misc entertainment (30 mins) 6:00 pm - 6:30 pm
- Music Acoustic live (30 mins) 6:30 pm - 7:00 pm
- Ceremony Event Lanterns 7:30 pm - 8:00 pm
- End of event 8:30 pm

Note: Postponed event, due to weather or wind, will be planned for the next day (Sunday).

20 mins of DJ/MCEE stage time will be used to make safety announcements and inform the participants of Lantern use and safety.

# Clean-up Plan

## Bullet points of our cleaning process

- Cleaning will begin at the end of the Lantern Ceremony. Times vary depending on night fall. Cleaning can begin as early as 9:00 to 10:00.
- Temp workers (4 total) will begin clean up process after event.
- Focused areas will be landing area of our Special Event Lanterns and Festival area
- Cleaning crew (8 to to 10 total), and event managers return Sunday at 9:00 am to 5:00 pm. All areas from Lantern landing location and festival area are cleaned to ensure completion.
- Monday will be included for cleaning day. Our over-night Manager will be in charge to have cleaning completed.
- Saturday cleaning times: 9:00 pm to 10:00 pm.
- Sunday cleaning times: 9:00 am to 5:00 pm.
- Monday cleaning times: 9:00 am to 2:00 pm (may vary depending on needs).
- Over-night cleaning Manager will be announced



# **County Departments**

Essential services and  
requirements

# Fire Department

## *Role and Safety*

The Lights Fest has made Safety the cornerstone of its business practice. Fire personnel are essential to making the event as safe as possible. Even with our extra-safe custom lanterns, we believe having fire professionals at each event is crucial. We have a partnership with the tenured professionals at Timberline Fire LLC. They are a well-known team of professionals who specialize in wildfire control throughout the United States. This group of certified personnel help us better understand each individual region, and provide us with customized fire action plans. As part of our contract with Timberline Fire, they will provide detailed information to any county or state throughout the US and Canada to offer a better understanding of our commitment to each venue and community. Each event will be equipped with at least two fire professionals. Depending on the needs and requirements, we can provide such equipment as, Tender Truck, (or type 6 truck) and the Fire Action Plan or Fire Assessment plan.

Fire Assessment plans will be provided for each venue. This assessment outlines the fuel types, moisture levels, and overall safety of the area. This Document provides us with key information about the area.

# EMERGENCY MANAGEMENT

## *Traffic control plan, site map, and emergency plan*

Keeping the safety of participants is the most important factor in any public event. We follow the same guidelines that many counties and townships require. Here is the list of essential services we hire and account for at each event:

- copy of the medical contract
- copy of the security contract
- copy of the Fire Department's contract
- Contact person of who will be working the event.
- Medical Plan: Indicating the number medical personnel on the application and provide a copy of the contract.
- Indicate the location of the medical station and dedicated emergency medical/fire ingress and egress route(s).

**Maps:** Site map(s) of the event indicating the following:

- Parking plan: parking area(s) and ingress/egress routes
- Property lines
- Adjacent roads



- Food and event booths
- Restrooms • Medical station
- Medical/fire ingress/egress routes
- Existing structures, including any fencing
- Temporary structures (e.g., tents, stage(s), bleachers, etc.) • Location for security command post

# POLICE

## *Providing Security, and traffic control*

Police play a key role in safety of our participants. From the moment they arrive to the event the Police will help with traffic control on major intersections and provide us with their knowledge of where we need to pay more attention to helping participants arrive safe and on time. Having police at the festival area helps to ensure the standard of keeping the event a family safe event. Items that we can provide:

- Contact, coordinate and schedule officers
- Hire State or Local Police troopers for event (average of two to three depending on venue).
- We will provide copy of the contract/letter of Security Company working this event.
- Ensure approval through the Sheriff's Office

# PUBLIC HEALTH

## *Restrooms, and Medical assistance*

Health of the people at our events is something that we go above and beyond the call of duty to ensure. The correct minimum number of restrooms, medical personnel with ambulance, and the health of others at top concern is crucial to returning. Some of the things that may need to provide:

contract signed by applicant and the provider. If there is no formal contract, we would need a letter or email from the provider.

- Will need to provide Medical Personnel with contract or invoice
- Scheduled the correct number of Restrooms and Handicap restrooms

# PUBLIC WORKS

## *Department of Transportation*

We partner with Public Works to make sure we have the best Traffic Control Plan. The insight they provide help make our event run smooth from the moment participants arrive to park their vehicle. Public Works help by pointing out any areas that need police or parking assistance. Commonly needed items to provide Public Works Division:

- Provide any "DOT" permit that is required
- Provide traffic control plan and a map showing the setup of traffic control, and where all the signs and cones will be located.
- Show handicap parking

# RISK MANAGEMENT

## *Certificate of Insurance (COI)*

Insurance is a must for any large public event. As we plan for a safe event we know we must have Insurance. The "COI" will be provided for every event. We will provide 2 million General Aggregate and 1 million Occurrence. We'll provide your department with any, if not more, from the list below:

- We will provide the needed Insurance certificate
- City or Country will be named as additional insured on certificate (located on the lower left hand corner of the insurance certificate)



# ENVIRONMENTAL HEALTH AND FOOD

## *Food Trucks and permits to sell*

The Lights Fest strives for the safest in food vending. We provide the Health and Food department with certifications, and permits for each of our food vendors. They must comply with local laws to sell food at our events. Typically, we hire 10 to 18 food trucks. This depends on total number of expected participants. Requirements typically needed:

- Require list of all participating food trucks and food vendors.
- All Vendors provide county or city permit requirements.
- Providing the list of vendors will be submitted to county or city

### **Clean Up**

The Lights Fest is an evening festival that typically happens on a Saturday night. Depending on the number of people, we could produce a festival on a back to back Friday and Saturday night to ensure safety. All lanterns will be cleaned up within 24 to 48 hours of them being launched. If the event is a Saturday evening, The Lights Festival crew will have all lanterns retrieved, and the venue and surrounding properties will be cleaned up by Sunday afternoon. Our goal is to maintain long term relationships with our venue and property partners so that we can return year after year to put on our festivals for the local communities.

# BUILDING SAFETY

*Necessary site plan, stage location, parking, generates, etc*

The Lights Festival will provide your department with the necessary site plan, showing location of stage, parking, and booths. Any specs needed about our mobile stage can be provided. If the department needs building permit completed, we can provide that with the additional information above. By having a clear understanding of the map layout, both parties can ensure a smooth and safe event.

- Building Permit
- Site plan, showing location of stage, generators, parking and booths
- Specs and information regarding the stage
- Identify ADA parking on site plan

# **Important Documents**

Insurance, MSDS, Testing and  
Videos

THE

LIGHTS

# ENVIRONMENTAL TEST REPORT

PO #: C.C.  
Quote #: ICGR170118LJ  
Test #: ICGR170118  
REV000

## IC Group

February 28, 2017





# IC GROUP

## Floating Lantern Testing

### APPROVALS

Approved By: Todd Patterson Date: 2/28/2017  
Supervisor

Written By: Aleisha Spenst Date: 2/28/2017  
Operations Assistant

*This report shall not be reproduced without the prior  
written consent of Rocky Mountain Testing Solutions, LLC*

## **1.0 PURPOSE**

The purpose of this report is to present the test procedures used and the test results obtained during the performance of an environmental test program. The results included in this report relate only to the items tested. The objective of the test was for (50) Lanterns to undergo testing according to RMTS quote # ICGR170118LJ.

## **2.0 REFERENCES**

- 2.1 RMTS Quote No: ICGR170118LJ
- 2.2 Test Parts: 50 Floating Lanterns: 35 cm x 35 cm x 75 cm
- 2.3 The article tested was (50) Lanterns hereafter referred to as "product." The product was tested by Rocky Mountain Testing Solutions, LLC located in Pleasant View, Utah to the requirements listed in References 2.1.
- 2.4 TEST No: ICGR170118

## **3.0 TEST CONDITIONS AND TEST EQUIPMENT**

### **3.1 TEST CONDITIONS**

Unless otherwise specified herein, all tests were performed at room ambient conditions defined as a temperature of  $73^{\circ} \pm 18^{\circ} \text{ F}$  ( $23^{\circ} \pm 10^{\circ} \text{ C}$ ), with a relative humidity of  $40\% \pm 30\%$ .

### **3.2 TEST EQUIPMENT**

The required test equipment was calibrated in accordance with established standards set by Rocky Mountain Testing Solutions, LLC.

## **4.0 TEST PROCEDURES AND TEST RESULTS**

### **4.1 Conditioning**

- Reference 2.1
- Reference 2.2, (50) Lanterns

Date Commenced: February 28, 2017

Date Completed: February 28, 2017

4.1.1. The test product was placed in an environmental chamber at 18°C (+/-3 °) and 20% RH (+/-5%) for the duration of the test. The test set-up photographs are shown in Appendix B.

4.1.2. Refer to Appendix C for the temperature test plot.

### **4.2 Test Description**

- Reference 2.1
- Reference 2.2, (50) Lanterns

Date Commenced: February 28, 2017

Date Completed: February 28, 2017

4.2.1 The test product was removed from packaging, filled with ambient air, then placed on the test fixture with fuel cell side down. The test product was tethered to test fixture to allow approximately 12" of altitude after takeoff.

4.2.2 The test product fuel cell was ignited at each of four corners and a timer was then started.

4.2.3 The test product was observed during start of fuel cell burn, liftoff, flight, descent, flame burn out, and ember burn out.

4.2.4 Event times were recorded for the following:

- 4.2.4.1 Start of burn. (timer started)
- 4.2.4.2 Liftoff.
- 4.2.4.3 Start of descent.
- 4.2.4.4 Flame out.
- 4.2.4.5 Ember out.

#### 4.2.5 Test result averages:

Seconds from ignition to flight	26
Seconds from ignition to start descent	83
Seconds from ignition to flame out	102
Seconds from ignition to ember out	277
Seconds from liftoff to start of descent	57
Seconds from liftoff to ember out	251

#### 4.2.6 Test result data sheets can be found in Appendix D

#### 4.3 This concludes testing of the IC Group product.

### **APPENDIX LISTING**

APPENDIX A (Page 8)	Equipment List
APPENDIX B (Pages 10 - 13)	Photographs
APPENDIX C (Page 15)	Temperature Plot
APPENDIX D (Pages 17, 18)	Test Record Plots



# **APPENDIX A**

## **EQUIPMENT LIST**

## ENVIRONMENTAL LAB EQUIPMENT LIST

Instrument	Temperature Humidity Chamber	TL-005
Manufacturer	Blue M	
Model Number	FRC-27F	
Serial Number	FRC-130	
<i>No Calibration Required</i>		

Instrument	Controller	TL-005
Manufacturer	WATLOW	
Model Number	F4	
Serial Number	015282	
Calibration Date	11/7/2016	
Calibration Due Date	11/7/2017	

# **APPENDIX B**

## **Photographs**



**Photograph 1.** Pre-Ignition



**Photograph 2.** Fuel Cell Ignition



**Photograph 3. Liftoff**



**Photograph 4. Airborne**

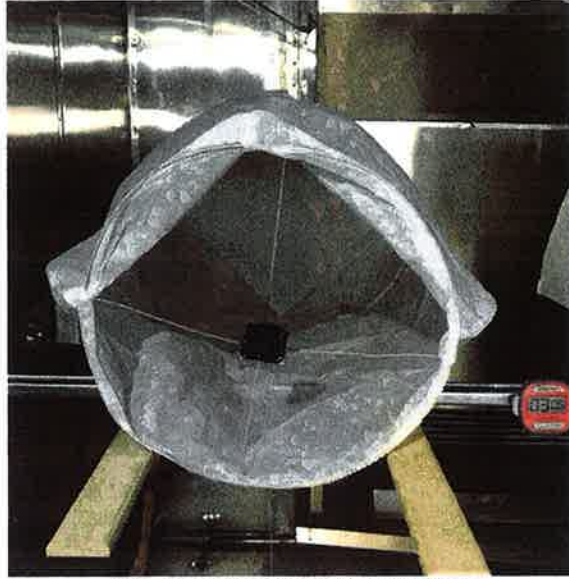




**Photograph 5. Descent**



**Photograph 6. Fuel Cell Burnout**

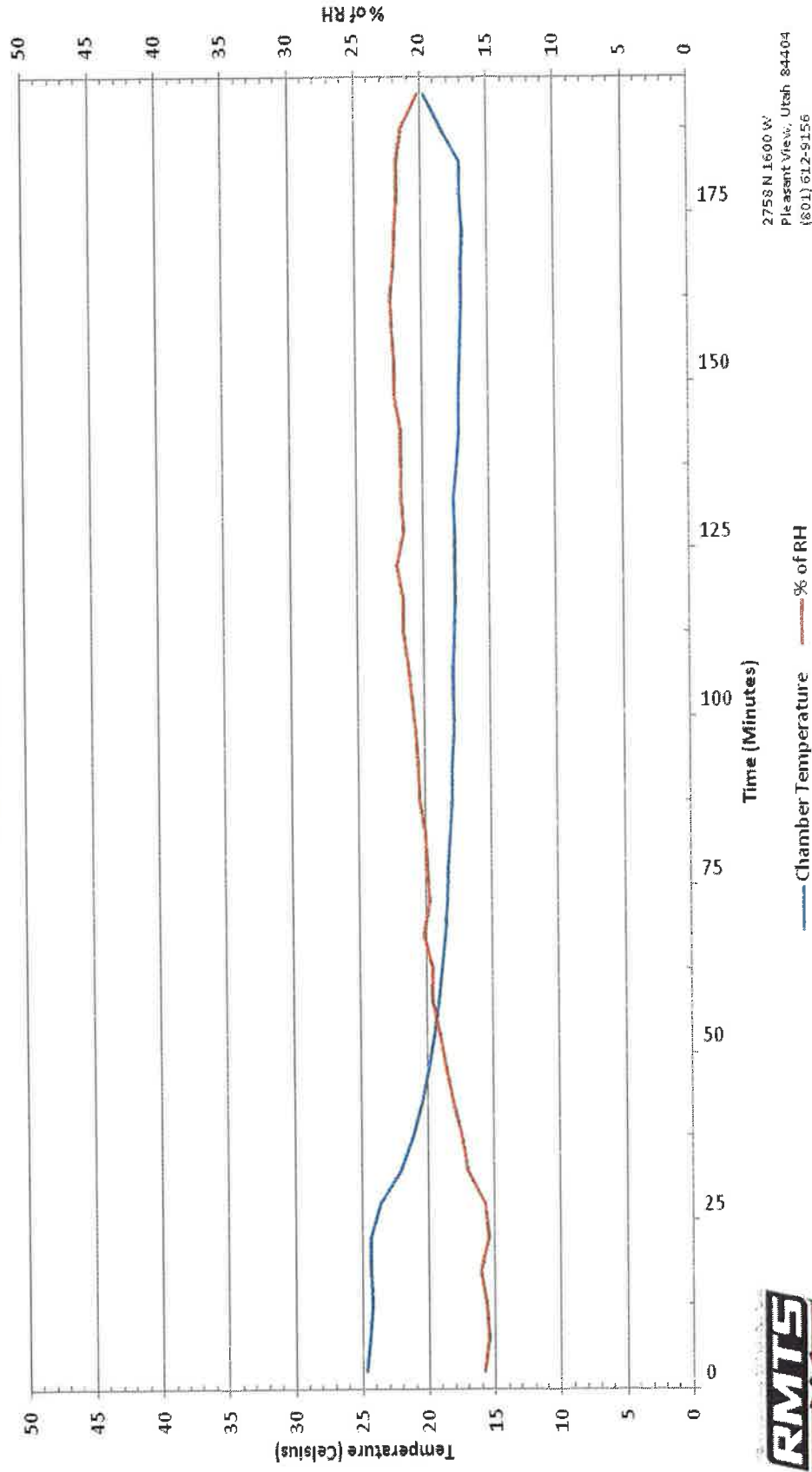


**Photograph 7. Fuel Cell Ember**

# **APPENDIX C**

## **Temperature Plot**

IC Group  
Test No: ICGR170118  
Floating Lantern Burn Test  
February 28, 2017



# **APPENDIX D**

## **Test Records**

# LABORATORY LOG SHEET

<b>TEST:</b>	Lantern Burn Test					<b>Quote #:</b>	ICGR170118
<b>CUSTOMER:</b>	IC Group					<b>Date:</b>	2/28/2017
<b>TEST ITEM:</b>	50 Test Units					<b>Photos Taken?</b>	Yes
<b>SPEC</b>	See Quote					<b>Test Number</b>	ICGR170118
<b>TIME ELAPSED, RECORDED IN SECONDS</b>							
<b>Time</b>	<b>Sample #</b>	<b>Flight</b>	<b>Descent</b>	<b>Flame Out</b>	<b>Ember Out</b>		<b>Initials</b>
9:08	1	45	94	124	235		KH
9:25	2	17	79	100	322		KH
9:25	3	42	90	124	300		KH
9:29	4	14	68	88	266		KH
9:35	5	35	90	126	290		KH
9:36	6	33	73	128	230		KH
9:37	7	54	76	111	270		KH
9:45	8	12	70	83	306		KH
9:46	9	25	77	84	282		KH
9:47	10	32	100	90	289		KH
9:48	11	31	83	126	283		KH
9:56	12	25	94	124	253		KH
9:57	13	14	64	78	236		KH
10:07	14	20	69	79	235		KH
10:08	15	27	87	113	290		KH
10:08	16	15	78	95	279		KH
10:16	17	25	83	100	315		KH
11:55	18	20	84	103	375		KH
10:17	19	25	80	98	301		KH
10:24	20	20	84	96	295		KH
10:25	21	31	85	113	244		KH
10:26	22	42	89	113	276		KH
10:31	23	32	88	111	300		KH
10:33	24	43	89	112	289		KH
10:33	25	38	97	127	260		KH
<b>Equipment Use</b>	<b>Asset #</b>	<b>Cal Due</b>		<b>Asset #</b>	<b>Cal Due</b>		
	TL-008						
<b>PAGE: 1</b>	<b>OF: 2</b>						

# LABORATORY LOG SHEET

<b>TEST:</b>	Lantern Burn Test					<b>Quote #:</b>	ICGR170118
<b>CUSTOMER:</b>	IC Group					<b>Date:</b>	2/28/2017
<b>TEST ITEM:</b>	50 Test Units					<b>Photos Taken?</b>	Yes
<b>SPEC:</b>	See Quote					<b>Test Number</b>	ICGR170118
<b>TIME ELAPSED, RECORDED IN SECONDS</b>							
<b>Time</b>	<b>Sample #</b>	<b>Flight</b>	<b>Descent</b>	<b>Flame Out</b>	<b>Ember Out</b>		<b>Initials</b>
10:41	26	29	90	116	233		KH
10:42	27	22	85	95	255		KH
10:43	28	19	98	110	268		KH
10:50	29	22	83	95	243		KH
10:51	30	21	87	94	283		KH
10:52	31	21	70	79	258		KH
10:58	32	25	86	116	218		KH
10:59	33	25	97	118	290		KH
11:00	34	24	82	108	270		KH
11:06	35	22	82	93	257		KH
11:07	36	30	79	115	293		KH
11:08	37	27	91	109	230		KH
11:16	38	28	82	90	288		KH
11:17	39	24	75	85	298		KH
11:18	40	22	69	81	298		KH
11:24	41	23	72	84	275		KH
11:25	42	25	80	96	290		KH
11:26	43	27	76	89	279		KH
11:39	44	20	97	105	297		KH
11:40	45	22	92	105	357		KH
11:41	46	26	89	110	328		KH
11:47	47	34	91	105	330		KH
11:48	48	13	67	80	206		KH
11:49	49	25	93	103	235		KH
11:55	50	20	76	92	274		KH
<b>Equipment Use</b>	<b>Asset #</b>	<b>Cal Due</b>		<b>Asset #</b>	<b>Cal Due</b>		
	TL-008						
<b>PAGE: 1</b>	<b>OF: 2</b>						

**ROCKY MOUNTAIN TESTING SOLUTIONS, LLC**  
**2758 N 1600 W**  
**Pleasant View, UT 84404**  
**801-612-9156**  
**877-899-7687**



# Sky Lantern

## Safety Data Sheet

### SECTION 1: Identification

#### 1.1. Identification

Product name : Sky Lantern

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Consumer use

#### 1.3. Details of the supplier of the safety data sheet

IC Group  
4060 S. 500 W., Suite 3  
Salt Lake City, UT 84123

#### 1.4. Emergency telephone number

Emergency number : 310-579-5062

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

GHS-US classification

Not classified

#### 2.2. Label elements

GHS-US labeling

No labeling applicable

#### 2.3. Other hazards

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

This product is comprised of fire-retardant paper and rope, bamboo ring and wax.

Name	Product identifier	%	GHS-US classification
<b>Fire-retardant paper</b>			
Pulp	None	Trade Secret	Not classified
21H,23H-Porphine, 5,10,15,20-tetraphenyl-	(CAS No) 917-23-7	Trade Secret	Not classified
<b>Bamboo ring</b>			
Bamboo cellulose	None	Trade Secret	Not classified
Lignin	None	Trade Secret	Not classified
Pentosan	None	Trade Secret	Not classified
<b>Fire-retardant rope</b>			
Silica, amorphous	(CAS No) 7631-86-9	Trade Secret	Not classified
<b>Wax</b>			
Paraffin waxes and Hydrocarbon waxes	(CAS No) 8002-74-2	Trade Secret	Eye Irrit. 2B, H320
Cotton cloth	None	Trade Secret	Not classified
Biodegradable paper	None	Trade Secret	Not classified

Full text of classification categories and H statements : see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures after inhalation : No specific first aid necessary for this route of exposure.  
First-aid measures after skin contact : No specific first aid necessary for this route of exposure.

# Sky Lantern

## Safety Data Sheet

First-aid measures after eye contact	: Flush with plenty of water for at least 15 minutes. Seek medical advice if irritation develops or persists.
First-aid measures after ingestion	: If the material is swallowed, get immediate medical attention or advice. DO NOT induce vomiting unless directed to do so by medical personnel.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation	: None under normal use.
Symptoms/injuries after skin contact	: None under normal use.
Symptoms/injuries after eye contact	: None under normal use.
Symptoms/injuries after ingestion	: None under normal use.

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: None.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard	: None known.
Explosion hazard	: None known.

### 5.3. Advice for firefighters

Protection during firefighting	: Firefighters should wear full protective gear.
--------------------------------	--

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

No additional information available

#### 6.1.2. For emergency responders

No additional information available

### 6.2. Environmental precautions

None.

### 6.3. Methods and material for containment and cleaning up

For containment	: No special measures required.
Methods for cleaning up	: Collect spillage. Attempt to reclaim the product, if this is possible.

### 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling	: No special handling required.
-------------------------------	---------------------------------

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: No special storage conditions required.
--------------------	---

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Non Hazardous Ingredients

Not applicable

#### 21H,23H-Porphine, 5,10,15,20-tetraphenyl- (917-23-7)

Not applicable

#### Paraffin waxes and Hydrocarbon waxes (8002-74-2)

ACGIH	ACGIH TWA (mg/m³)	2 mg/m³ (fume)
NIOSH	NIOSH REL (TWA) (mg/m³)	2 mg/m³ (fume)

# Sky Lantern

## Safety Data Sheet

Silica, amorphous (7631-86-9)		
IDLH	US IDLH (mg/m³)	3000 mg/m³
NIOSH	NIOSH REL (TWA) (mg/m³)	6 mg/m³

### 8.2. Exposure controls

Appropriate engineering controls	: None required under normal product handling conditions.
Hand protection	: None required under normal product handling conditions.
Eye protection	: None required under normal product handling conditions.
Skin and body protection	: None required under normal product handling conditions.
Respiratory protection	: None required under normal product handling conditions.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Odor	: Odorless
Odor threshold	: No data available
pH	: No data available
Melting point	: 50 - 57 °C (Paraffin wax)
Freezing point	: No data available
Boiling point	: >35°C
Flash point	: 199°C (Paraffin wax)
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Specific gravity / density	: No data available
Solubility	: Insoluble.
Log Pow	: No data available
Auto-ignition temperature	: >100°C (Paraffin wax)
Decomposition temperature	: >100°C (Paraffin wax)
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

The product is stable at normal handling and storage conditions.

### 10.3. Possibility of hazardous reactions

Will not occur.

### 10.4. Conditions to avoid

Heat, flame, and sparks.

### 10.5. Incompatible materials

Active metal, alcohols, aldehydes, carbon disulfide, carbon, sulfur, phosphorus, boron, reducing agents, metallic acetylenes and metallic carbonates.

### 10.6. Hazardous decomposition products

Not determined.



# Sky Lantern

## Safety Data Sheet

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

Paraffin waxes and Hydrocarbon waxes (8002-74-2)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 3600 mg/kg
Silica, amorphous (7631-86-9)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 2.2 mg/l (Exposure time: 1 h)
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

Silica, amorphous (7631-86-9)	
IARC group	3 - Not classifiable

Reproductive toxicity : Not classified  
Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

### SECTION 12: Ecological information

#### 12.1. Toxicity

Silica, amorphous (7631-86-9)	
LC50 fish 1	5000 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])
EC50 Daphnia 1	7600 mg/l (Exposure time: 48 h - Species: Ceriodaphnia dubia)

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

Silica, amorphous (7631-86-9)	
BCF fish 1	(no bioaccumulation expected)

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Effect on ozone layer : No additional information available  
Effect on the global warming : No known effects from this product.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

No additional information available

# Sky Lantern

## Safety Data Sheet

### SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not applicable

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

##### 21H,23H-Porphine, 5,10,15,20-tetraphenyl- (917-23-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

##### Paraffin waxes and Hydrocarbon waxes (8002-74-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

##### Silica, amorphous (7631-86-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 15.2. US State regulations

##### Paraffin waxes and Hydrocarbon waxes (8002-74-2)

U.S. - Massachusetts - Right To Know List  
U.S. - Minnesota - Hazardous Substance List  
U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List

##### Silica, amorphous (7631-86-9)

U.S. - Massachusetts - Right To Know List  
U.S. - Minnesota - Hazardous Substance List  
U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List

### SECTION 16: Other information

Full text of H-phrases:

Eye Irrit. 2B	Serious eye damage/eye irritation Category 2B
H320	Causes eye irritation

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*

# Country Thunder WI- Chicago Event-

Untitled layer



Parking



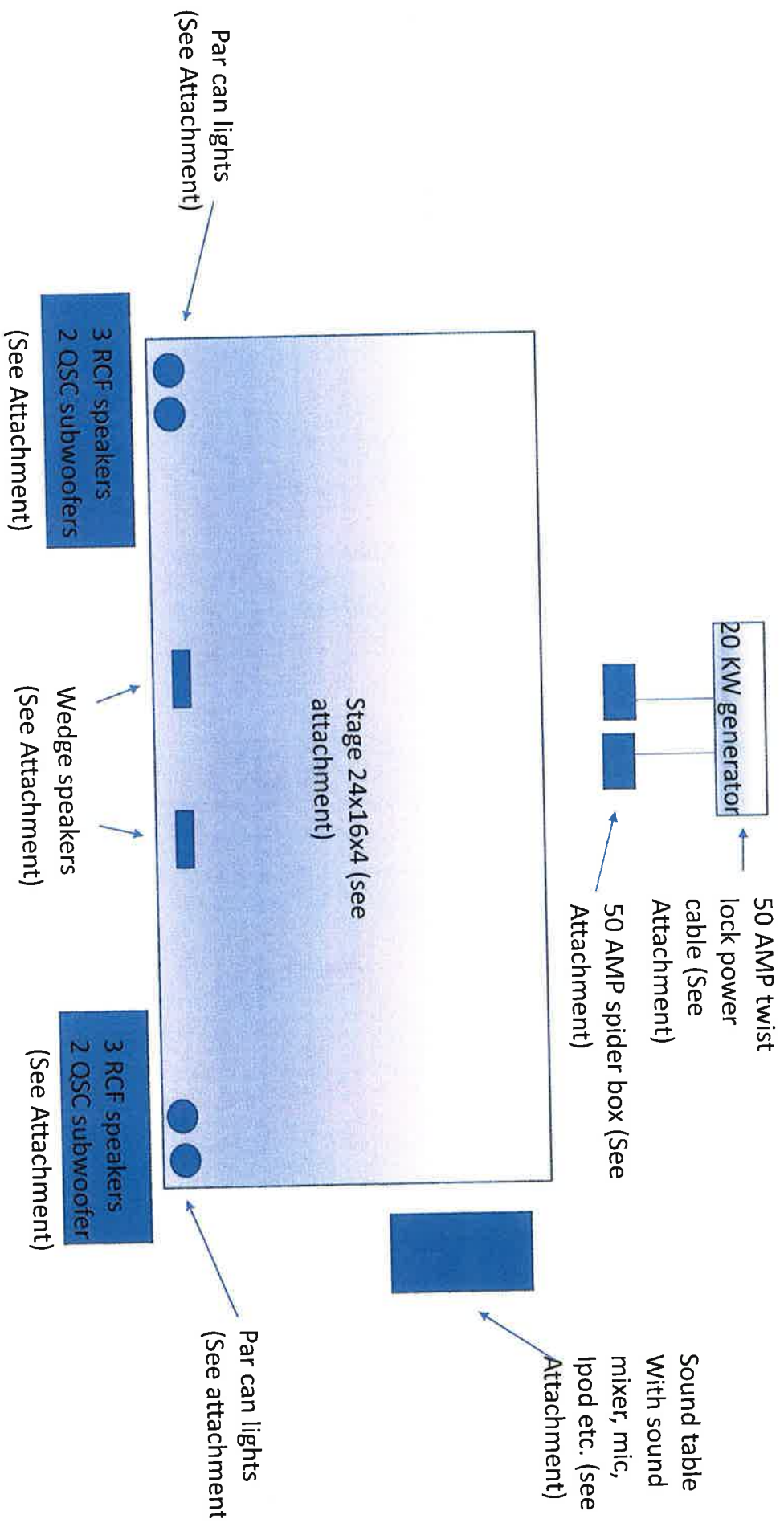
Parking

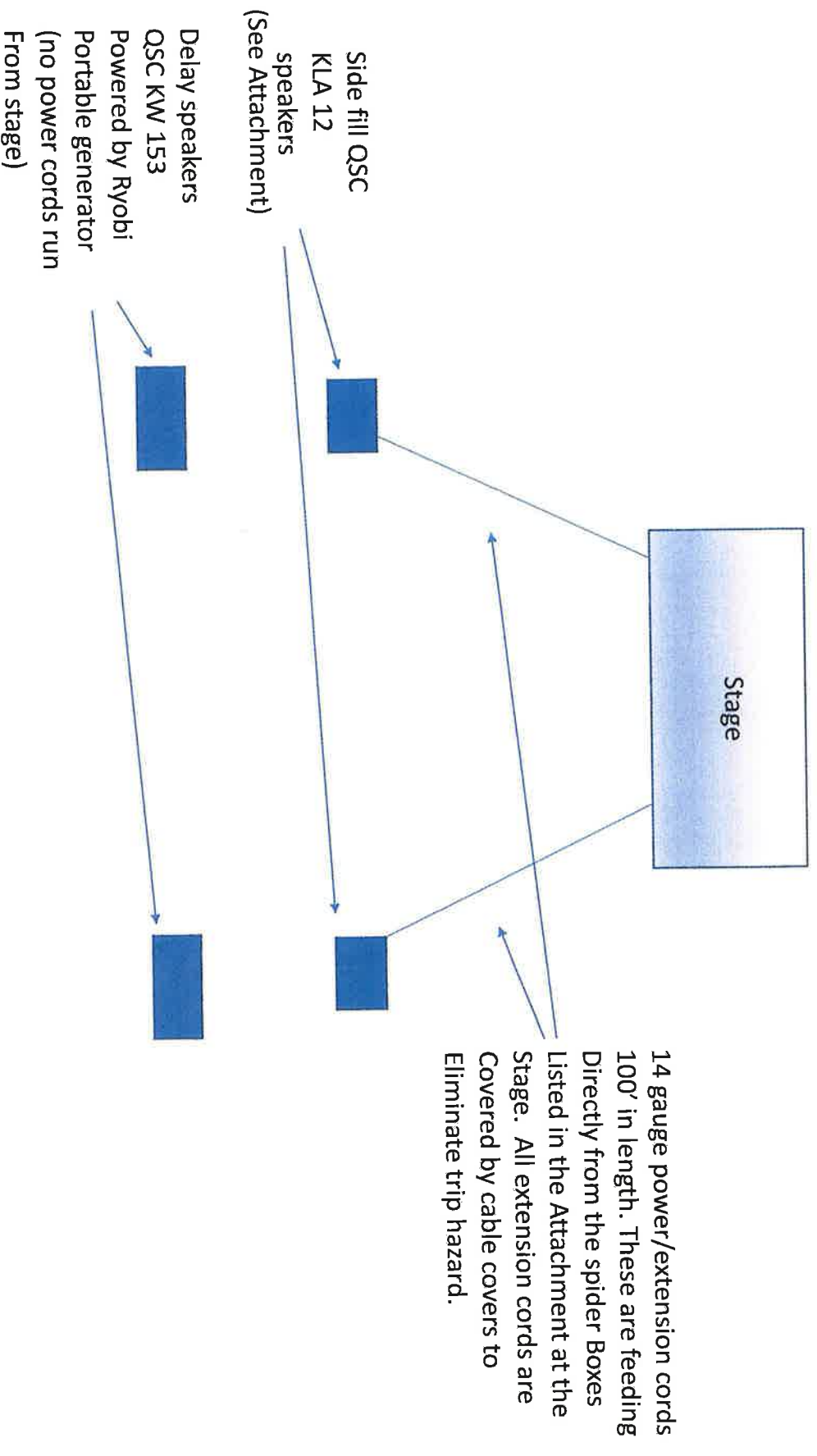


Festival Area



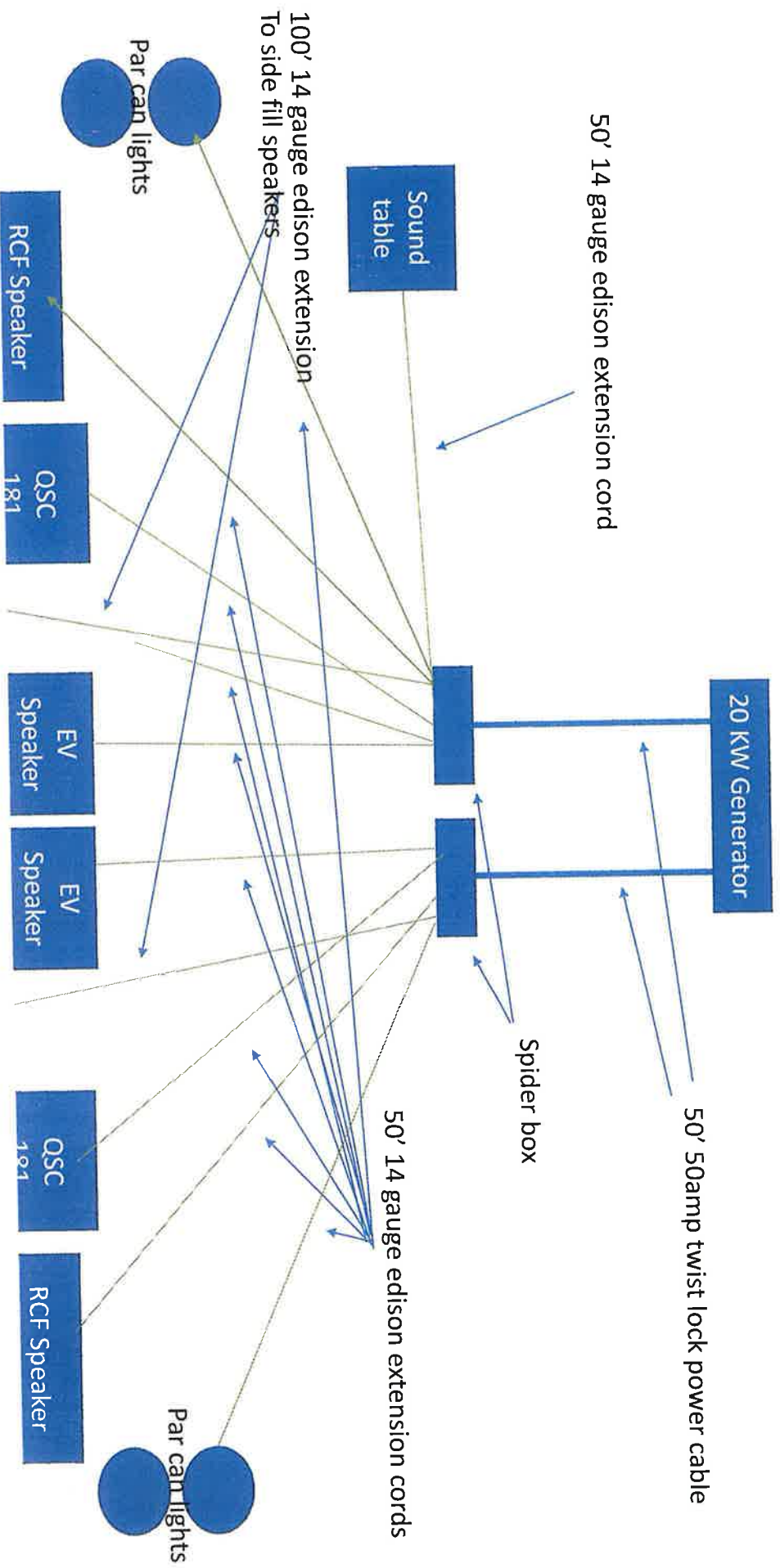








# Electrical Cable Routing





All power is by a 20KW diesel generator. This will be a rented generator from a local vendor. The power is then feed through 2-50 AMP twist lock feeder cables into 2-50 AMP spider boxes for power distribution. The Distribution boxes are manufactured by Indu-Electric located out of California and the model # is **FB-F5-PT-03. (PLEASE SEE THE SPIDER BOX ATTACHMENT FOR SPECS)** Power is then connected to all speakers and lights using 14 gauge power cables, including the side fill speakers.

Please see all the attachments for Equipment specs and for electrical cable routing.

50' 50 amp feeder cable with twist lock.

We use 2 of these from the 20 kw Diesel generator into  
The spider boxes for Edison distribution.



## 50 AMP Power Distribution boxes

We use 2 of these connected with the 50 AMP  
Twist lock cable from the generator.

### FB-F5-PT-03

<b>Input Device:</b>	50A 120/240V 3 Pole 4 Wire Twist-Lock 1 Pass Through
<b>Output Device:</b>	6- 20A 120V Duplex Outlets
<b>Protected By:</b>	6- 20A 1P Breaker
<b>Model-Nr.:</b>	FB-F5-PT-03
<b>Dimensions:</b>	11"L x 8"W x 8.75"H



This is the 14 gauge extension cords we use from the spider box.





At the sound table we power the Mixer, mics, and a delay box with a standard surge protector





For Lighting we use 4 standard Par 64 can lights. 2 Per side. We will run 2 per 20 amp Edison circuit



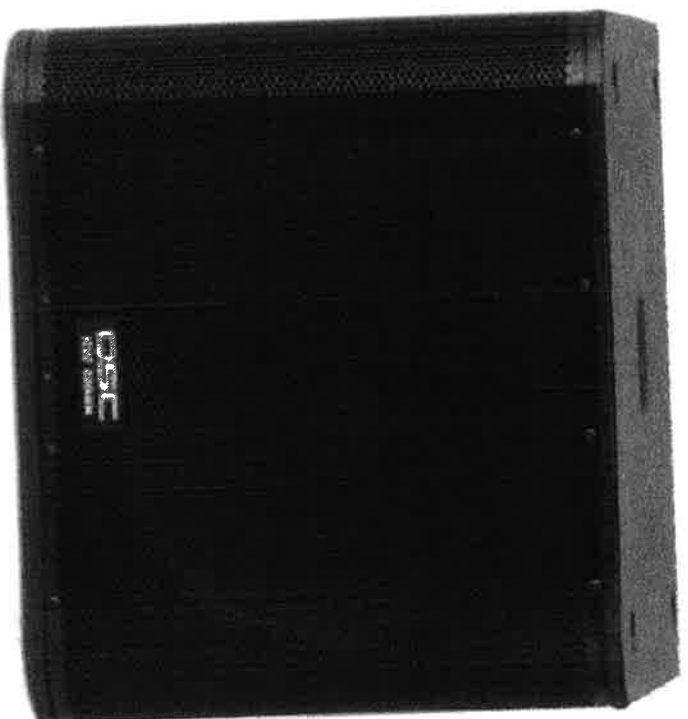
For Front of House we use 6 (3 per side) RCF HDL 20A array speakers. Each speaker is powered by a powercon to Edison plug. Each speaker draws 2.8 AMPS, and are daisy chained together. We run 4 speakers per 20 AMP circuit.



For Side fill speakers we use 8 QSC K1A 12 speaker (4 per side). These use PowerCON to Edison cables and are daisy chained together. These speakers draw 2.3 amps. We run 4 speakers on 1-20 amp circuit.



These are the QSC 181 Subwoofer. These are used at the stage and are powered by a standard Edison plug. They draw 2.3 amps. No more then 2 speakers are on 1-20 AMP circuit.



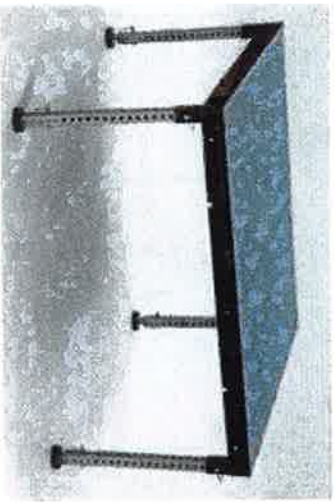
These are the flood wedge monitors Used they are the EV XLA 12. The draw 2.1 AMPS and only 2 are used on 1-20 AMP circuit.



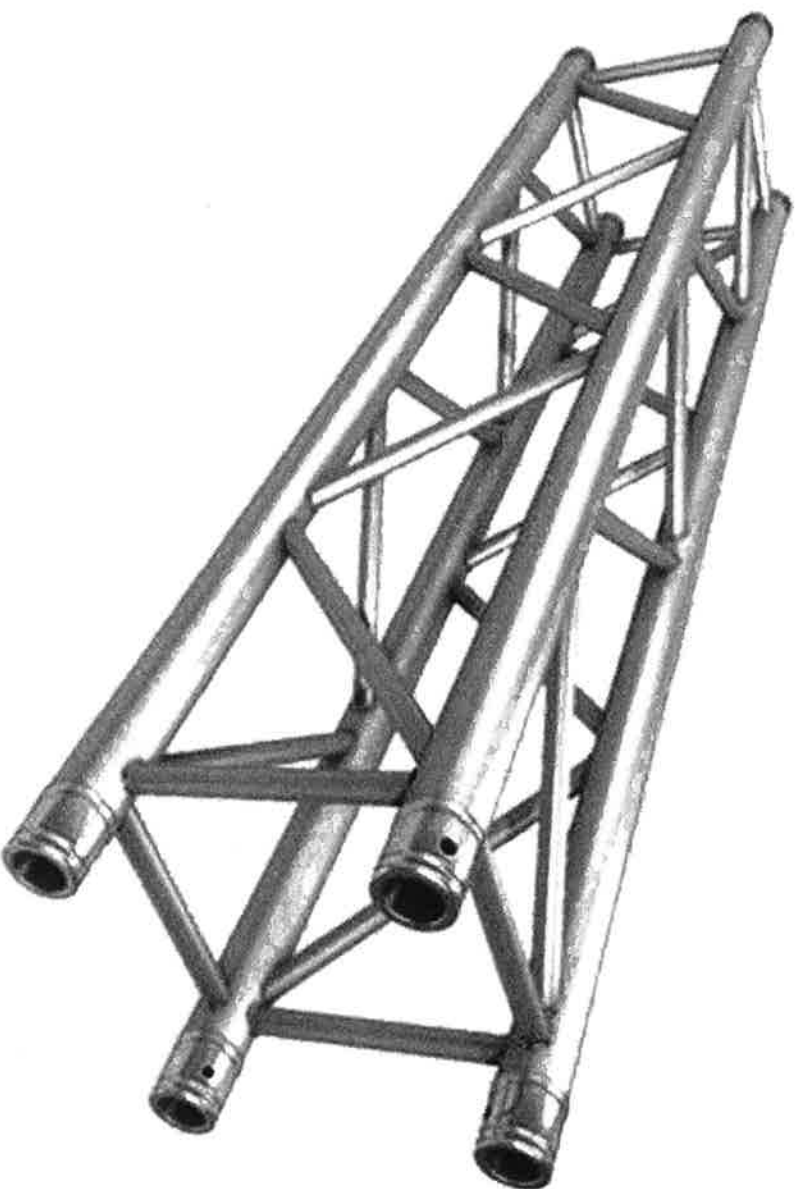
This is the QSC KW 153 used for the delay speakers. These speakers draw 2.3 AMPS and only three are powered  
By the small Ryobi Generator.



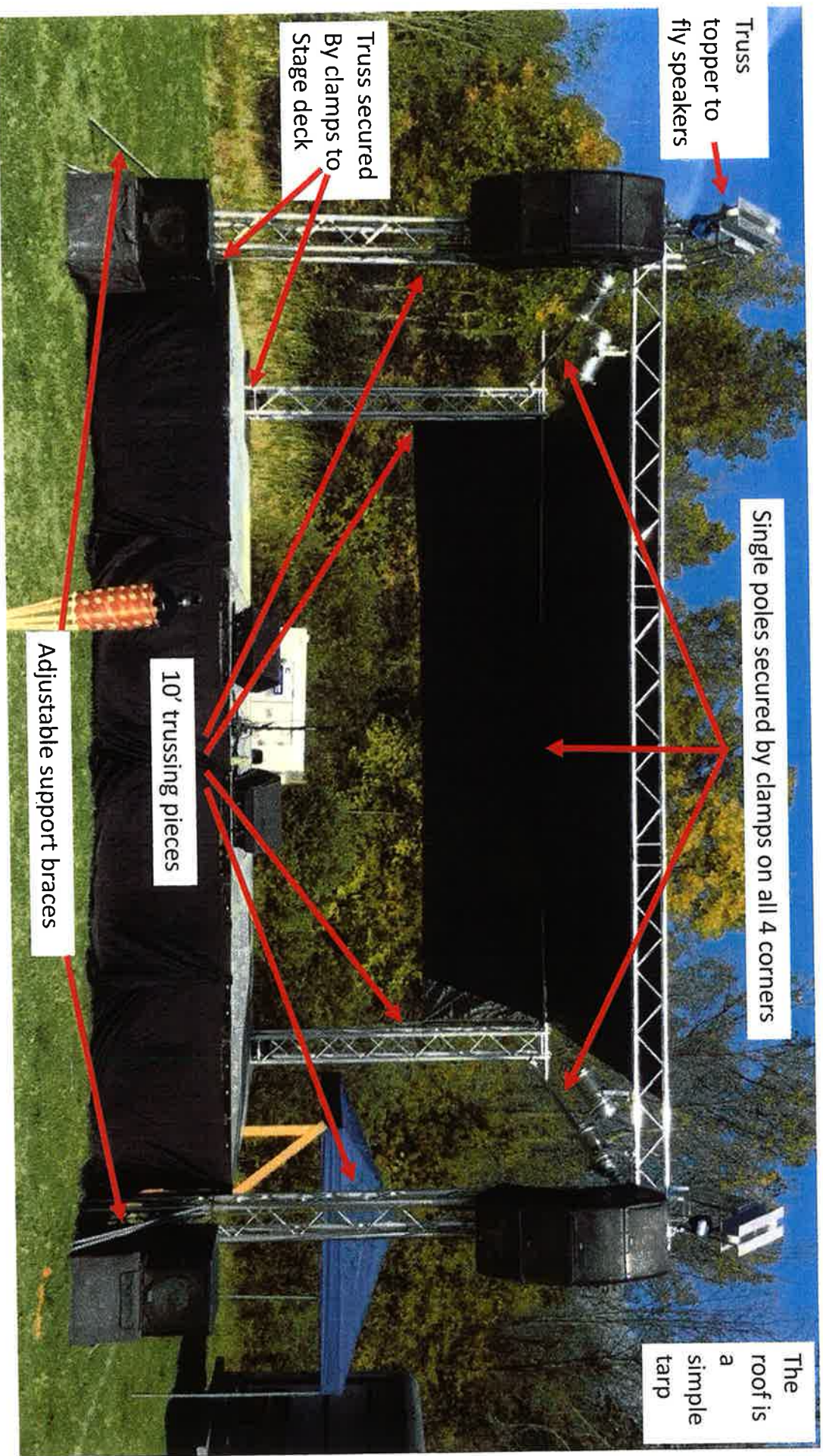
This is the BIL JAX stage we use. They are in 4x4 panels. We use 24 decks for our set up. Making the stage 24x16x4. Please see the specs of the stage attached.



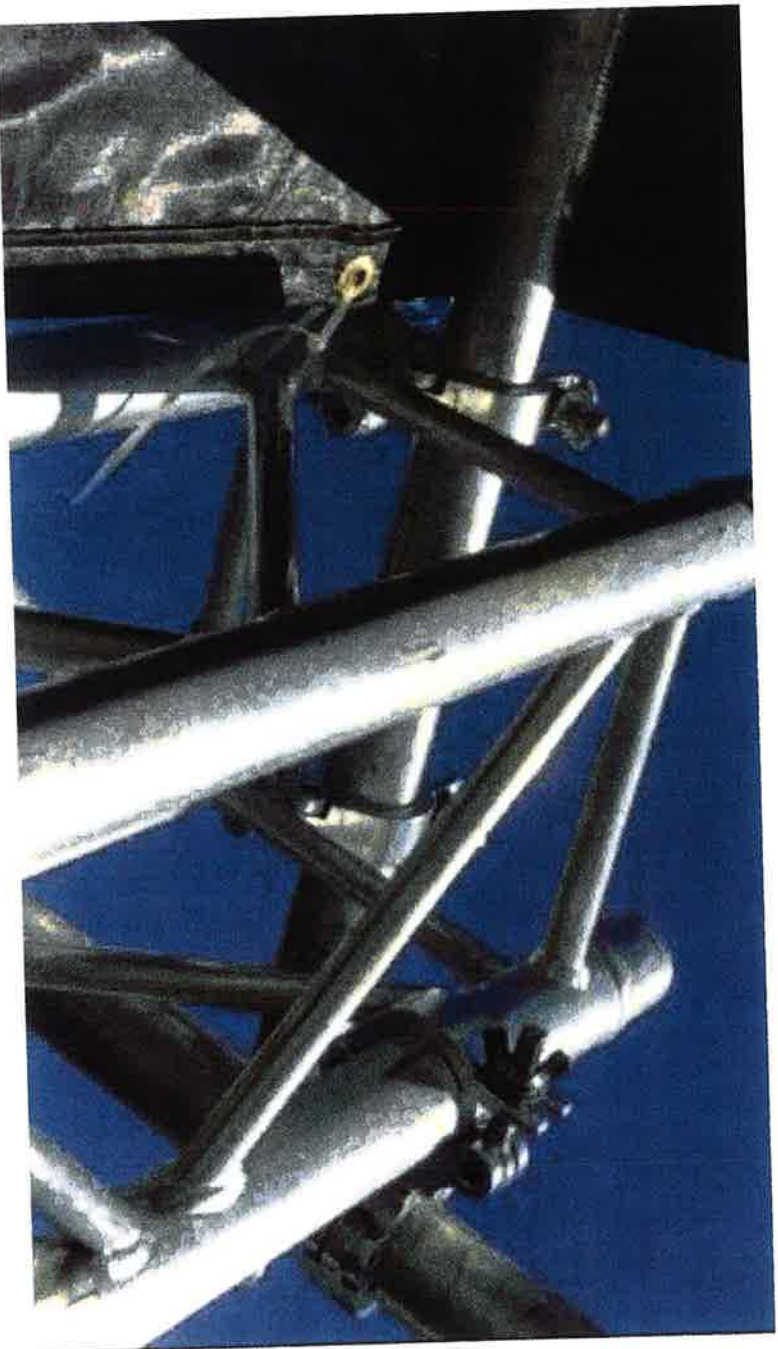
Here is the trussing used around the stage. This trussing is manufactured by Global Truss. Please see the diagram on the following page for reference on how we use the trussing.







This shows the clamps used to secure the single truss poles to each other and to the stage.





Here is the side fill speakers and the tower used to fly them.

90 degree corner

3' trussing

10' trussing

3' base plate

10' stability foot

