



**2023 WORLD ADVANCED AEROBATIC
CHAMPIONSHIPS**

FLIPBOOK

**JEAN AIRPORT - LAS VEGAS, NEVADA
OCTOBER 24- NOVEMBER 3, 2023**

22 JULY 2022



Revisions

Rev	Release Date	Description of Change	Approved
-	Xx July 2022	Initial Release	<hr/> D. Koerbel <hr/> D.J Molny <hr/> Bob Freeman <hr/> CD <hr/> Air Boss <hr/> Ground Boss
	TBD		<hr/>



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List of Acronyms

Acronym	Description
SB	Service Bulletin
CG	Center of Gravity

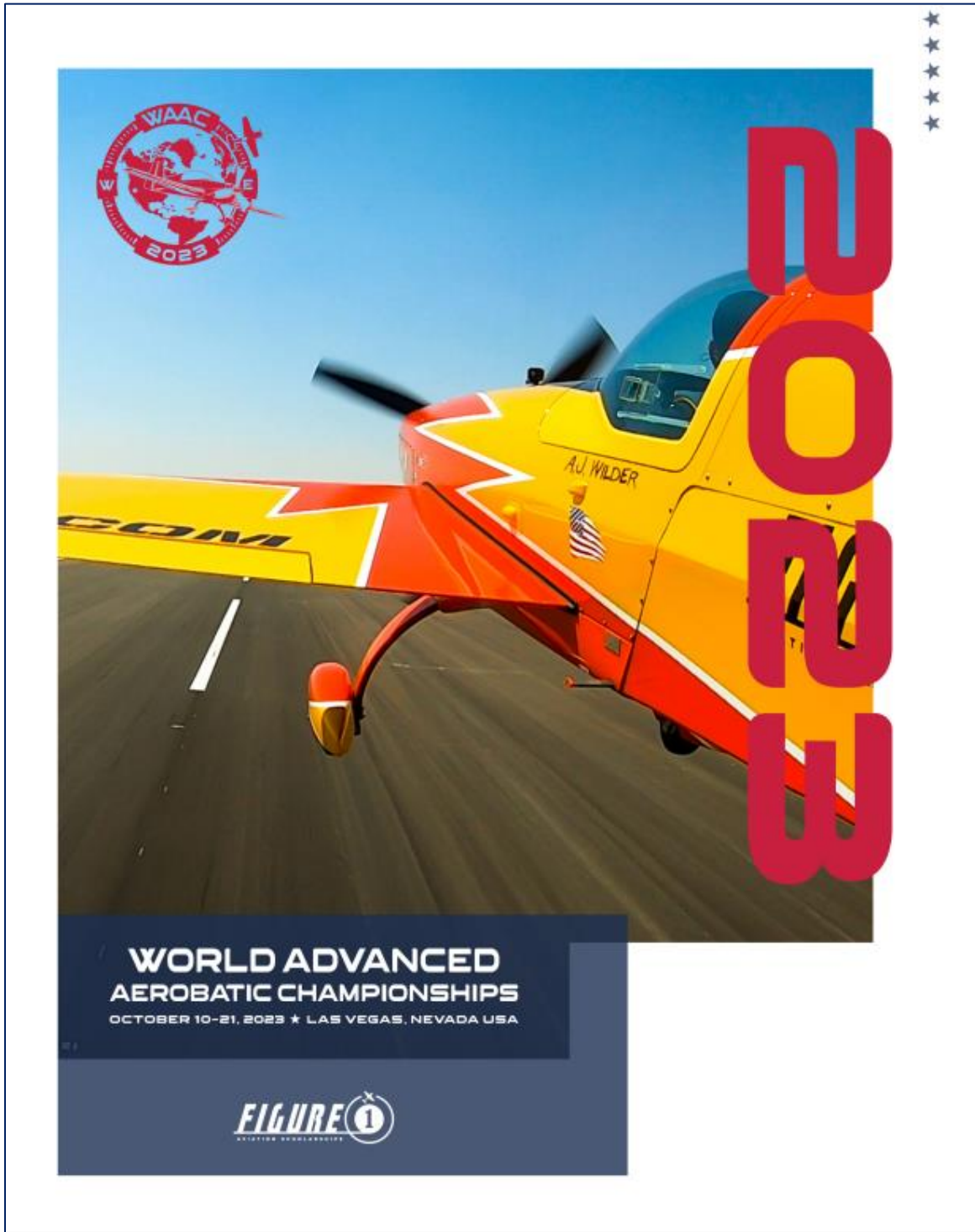


WAAC 2023 FLIPBOOK





List of References





1.0 Flip Book Introduction

1.1 Background

This flip book is compiled to outline the end-to-end plan on how to organize and execute the World Advanced Aerobatic Championships in Las Vegas Nevada. Ideally, any issue at hand can be flipped to in the book. Guidance on what is required, scope, timing, and budget is provided.



Figure 1 Jean Airport, OL7



The event is similar to any USA IAC event. Key differences are that there are four flights. Flight one is a known. Flight 2-4 are new unknowns. FAI CIVA officials appoint a three person contest jury. The Chief Judge and the seven line judges and their respective assistants are also appointed by the FAI CIVA. CIVA use Acro instead of Jasper. CIVA judging rules apply. Each competitor has a ten-minute time limit from takeoff to end of sequence.

CONTEST AIRFIELD - JEAN AIRPORT 0L7



Runways	Aerobatic Box Floor & Ceiling
02L-20R 4,600 ft. [1,402m]	3,491 MSL (656 AGL)
02R-20L 3,700 ft. [1,127m]	6,444 MSL (3,609 AG)

Field Altitude 2,835 ft. / 864m MSL US West Open Championship held 2019 to establish protocol with FAA and airport management

2023 World Aerobatic Championships/angler RFP

Figure 2 Jean Airspace

1.2 Schedule

The official contest schedule is shown in Figure 2. Teams and entrants may arrive ahead of the contest and use the airfield at their own risk. A practice waiver will be available for practice flying.

Accommodations, lodging travel, etc. are defined in detail in the flip book for the official schedule. Where practical, activities outside of the schedule are addressed.



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Schedule	Comments
Ramp Set Up: October 19-20-21 (THUR/FRI/SAT)	Opening Inspection - Set up tension fabric hangars, power, portable potties, judge's lines and box markers. Pilots will be able to fly but it is not part of working contest hours. Will make sure air space is waived and appropriately managed
Official Training Days, Arrival Registration: October 22-23-24 (SUN/MON/TUES)	Ramp is clean & clear – official scheduled practice times – get competitors into the rhythm
Last Official Training Day: October 24 (TUES) <ul style="list-style-type: none"> • Registration • Opening Pilot Briefing • Opening Ceremony and Celebration 	Cut off at 2:00 pm for flying and registration Opening Ceremonies 3:00 PM
Competition Days (5): October 25-26-27-28-29 (WED/THU/FRI/SAT/SIN)	Competition Flying 8:30 AM to 4:45 PM [Sunset is 5:52 PM]
Competition Days (5): Oct 30-31 Nov 1-2-3 (MON/TUE/WED/THU/FRI)	Competition Flying 8:30 AM to 4:45 PM [Sunset is 5:42 PM]
Friday Night November 3 Awards & Celebration	Location TBD in Las Vegas
Departure: November 4 (SAT)	Departure
Ramp Tear Down: November 5 & 6	Clean up – Closing Inspection

Figure 3 WAAC 2023 Daily Schedule



2.0 WAAC 2023 Event Organization Team (EOT)

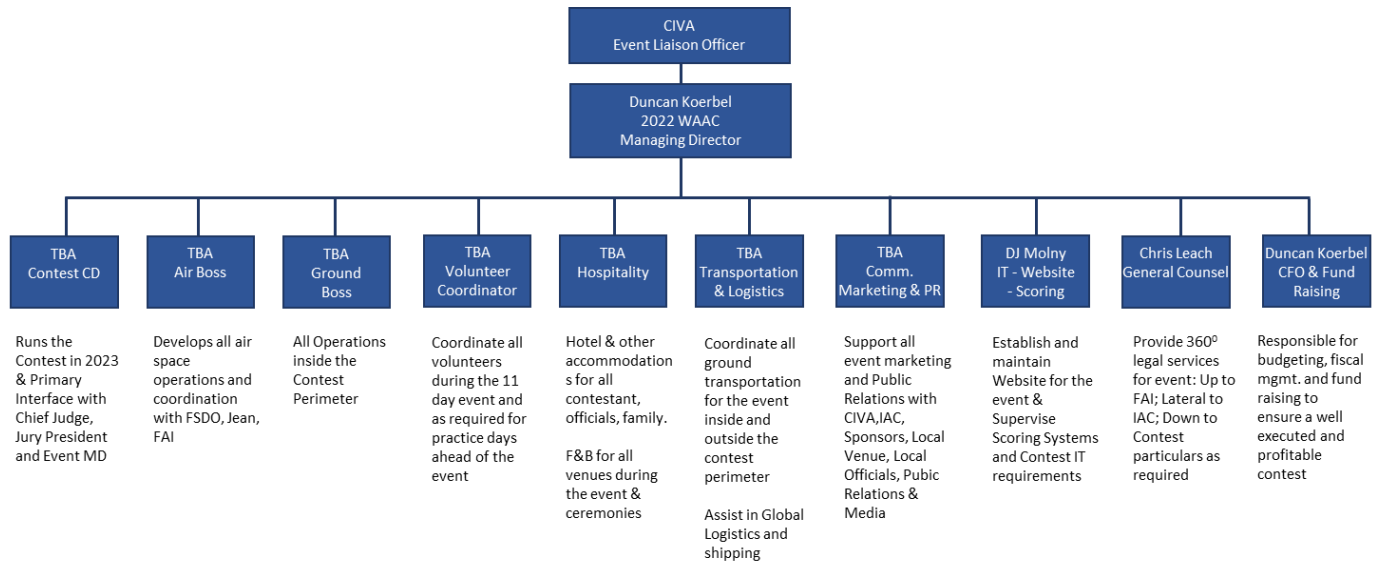


Figure 4 Event Organization Team (EOT) Organization Chart

2.1 Organization Overview

The WAAC 2023 is an all-volunteer organization. The structure of the event is outlined above in the Event Organization Team (EOT) chart. There is no compensation for any positron. For key roles, some budget will be provided to cover travel or lodging. The organization chart is shown in Figure 2. Key rolls are discussed below

2.2 Managing Director

The WAAC 2023 Managing Director is Duncan Koerbel. Mr. Koerbel carries the overall responsibility for all aspects of the championship organization and operations, land-side and air-side. He can be reached at all times on +1 720 250 8442. He will also have a ground radio walkie talkie during the event. Mr. Koerbel is the Event organizer and the named sponsor in the CIVA Organizing Document. He will oversee the end-to-end event. The MD will work very closely with the CD during the event. The MD will also work closely with the Air Boss and Ground Boss and the EOT for in the planning of the event.

CIVA will provide several officials. There will be a three person international jury with a jury president. The jury president also serves as the official CIVA Event Liaison Officer or ELO. The MD and ELO will be the leading points of contact for both organizations.

CIVA will also provide the Chief Judge and his or her assistant. Seven line judges and their assistants will also be selected by CIVA to judge the WAAC 2023.



2.3 Contest Director

Working hand in hand with the Managing Director, the contest director will be they daily director of the contest and contestant flying at the site from 25 October through 3 November. Given the length of the contest and its all-volunteer nature, the WAAC 2023 is seeking Co-Contest Directors. The two leading candidates served recently as the Chief Judge for the IAC US Nationals.

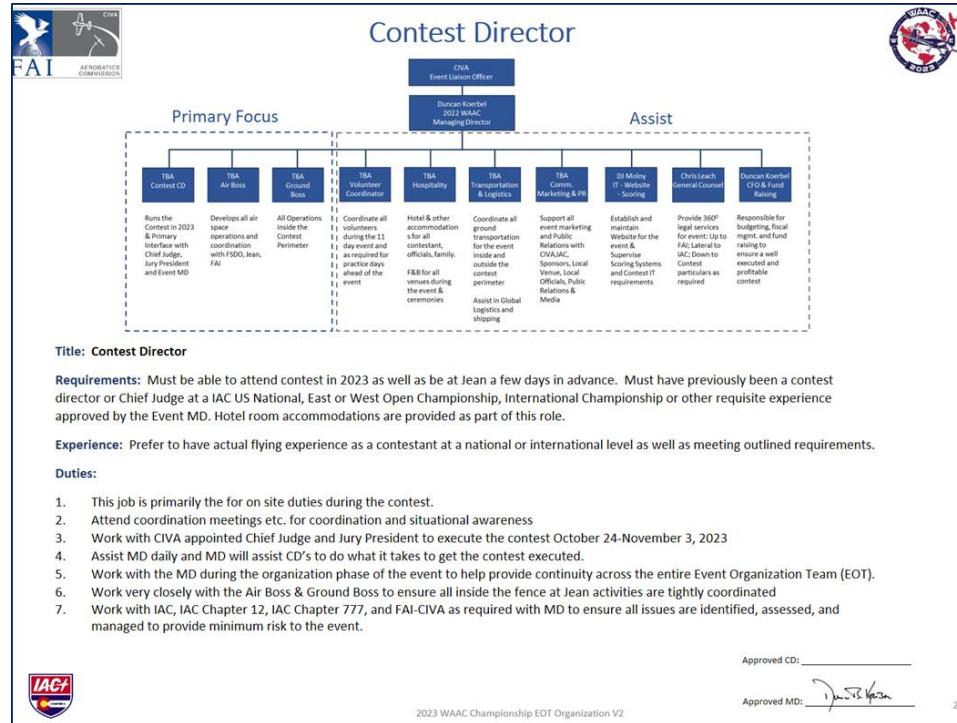



Figure 5 CD Job Description

The CD will work closely with the CIVA provided Chief Judge during the event to execute the contest in the most fair and honorable fashion possible. The CD will be at the judge's line to assist as required in a multitude of roles. The MD is there it eliminate all other distractions from the CD and Chief Judge. The CD and the MD will also work very closely together each day for all Air Boss and Ground Boss coordination.




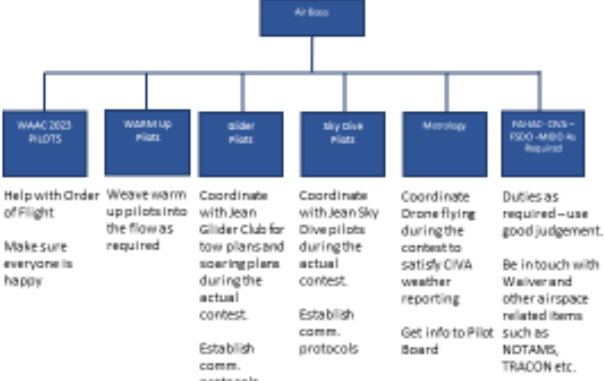
2.4 Air Operations or Air Boss

The air boss will oversee all planning efforts associated with the 2023 WAAC that involve aircraft and flying.



Air Operations





Approved CD: _____

Approved MD: _____

Title: Air Boss


Requirements: Must be able to attend contest in 2023 to provide real time support and liaison with CIVA/FAA/Jean operations. Must have previously help managed or been a contest director at a US National Event


Experience: Prefer ATP background with extensive planning or operations experience with major airline or military.

Duties:

1. Establish and Enforce all safety operations and procedures for aircraft with running engines during the contest and practice sessions
2. Define contest box and practice boxes in concert with CD & MD
3. Apply for and secure all waivers in concert with MD
4. Work with local FSDO to ensure coordination with FAA and Class B airspace
5. Develop takeoff and landing procedures for all active runaway possibilities
6. Establish Box frequency and other radio operations considerations
7. Assist in contest require wind measuring system, drones, etc.. Ensure drone operations are approved
8. Mange contest weather briefings and forecasts
9. Support established emergency response procedures in the event of an accident or declared emergency. Use 2019 IAC West Open Template
10. Develop Sterile Operations
11. Develop starter, flagman, and timer operations for contestant flights
12. Liaison with CIVA Chief Judge & MD as required and other leadership as required to plan and run the event

Approved CD: _____

Approved MD: 




2023 WAAC Championship EOT Organization V2

Figure 6 Air Boss Job Description





2.5 Ground Boss

The ground boss will oversee all planning efforts associated with the 2023 WAAC that involve contest operations on the ground at the airfield.



Ground Operations






Ground Operations

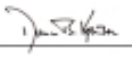
- Safety**
Credentials such as neck lanyards, wrist bands, signage, Crowd management, First Responders, Security during the contest and ~3 days ahead of time
- Contest Ground Operations**
Fuel wranglers, Starter, Flagman, Pilot Board, Site Maintenance Power, Transportation of people inside of Jean – primarily judges line. Ensure judges line move with the sun and wind as required. Bed down each night
- Radio & Cell Phone Communications**
Develop contest wide radio Comms plan for all key personnel throughout the contest and as required daily for volunteers, drivers, etc. Radio wranglers
- Contest Ground Facilities**
Briefing tent, judges stations, hospitality tents, CD tents, Utility tent, Flags and flag poles, all other none flying hardware and infrastructure at Jean
- F&B Support**
Support catering with F&B director as required

Title: Ground Boss
Requirements: Must be able to attend contest in 2023 to provide real time support and liaison with CIVA /FAA/Jean operations. Must have previously help managed or been a contest director at a US National Event, WAAC, WAC
Experience: Prefer extensive experience with multiple contests.
Duties: Run the contest inside the contest perimeter for everything that is not flying or have a spinning engine. Establish detailed plan for daily operations. Planning includes but is not limited to:

1. Safety & Contest credentials, safety barriers, crowd control
2. Tent management & Ramp management
3. Daily briefing prep in concert with CD & CIVA Chief Judge
4. Pilot Board, Flagman operations & equipment and schedule working with VC
5. Starter operations & equipment and schedule working with VC
6. Develop box markers for the contest and deploy and recover
7. Fuel wranglers, light maintenance support, oil support
8. Inside perimeter transportation operations
 - o Judges line set up in accordance with direction of flight/sun
 - o Transportation to and from judges line
 - o Boundary judges -?
9. Sterile area mgmt.
10. Coordination of onsite catering in concert with F&B director
11. Misc inside perimeter transportation – 4 x 4's
12. Management and liaison with safety teams, EMT, law enforcement as required
13. Set up and maintain all ground communications and provide management of all radio devices for ground and air communications. Radio Wranglers.
14. Make sure briefing tent is current and set up for all charts, figures, sequences, team mailboxes, projection system, misc supply, white boards, paper
15. Country flag poles and flags
16. Team tents and team facilities
17. Must make sure cleaning, trash, misc duties as required are attended to. See Site maintenance in flip book.
18. End of contest clean up and return of grounds as we found them



Approved CD: _____

Approved MD: 


2023 WAAC Championship EOT Organization V2

Figure 7 Ground Boss




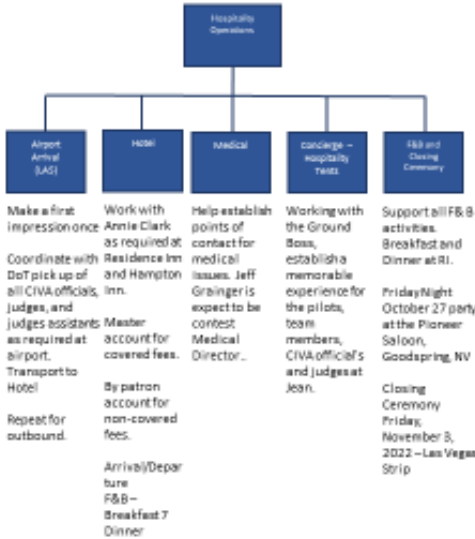
3.0 Hospitality

The section of the flipbook cover lodging, food and beverage for the event other than the closing an opening ceremonies. These tasks will be largely managed by the Director of Hospitality. The job description is below.



Hospitality





Hospitality Operations

- Airport Arrival (LAS)**

Make a first impression once

Coordinate with DOT pick up of all CIVA officials, judges, and judges assistants as required at airport.

Transport to Hotel

Repeat for outbound.
- F&B**

Work with Annie Clark as required at Residence Inn and Hampton Inn.

Master account for covered fees.

By patron account for non-covered fees.

Arrival/Departure F&B – Breakfast 7 Dinner
- Medical**

Help establish points of contact for medical issues. Jeff Granger is expect to be contest Medical Director.
- concierge – Hospitality Team**

Working with the Ground Boss, establish a memorable experience for the pilots, team members, CIVA officials and judges at Jean.
- F&B and Closing Ceremony**

Support all F&B activities. Breakfast and Dinner at RI.

Friday Night October 27 party at the Pioneer Saloon, Goodspring, NV

Closing Ceremony Friday, November 3, 2023 – Las Vegas Strip


Title: Director of Hospitality

Requirements: Must be able to attend contest in 2023 to provide real time support and liaison for the contestants, officials, and their families.


Experience: Prefer experience from event organizing or hospitality industry.

Duties: Provide the overall plan and operations primarily outside of the airfield to ensure an outstanding contest experience. Work in hand in hand with the EOT and very closely with the F&B director. Responsibilities include

1. Execute coordination with contest hotel. Manage F&B at the hotel requirements for daily schedule
2. Establish and manage to a budget
3. Manage registration for the event online for contestants
 - o Develop and maintain arrival and departure schedules for all key personnel.
4. Manage registration and arrivals at the hotel
5. Coordinate with MD and transportation manager to arrange for requisite transportation to and from LAS airport to contest hotel for officials and judges.
6. Establish medical contacts / contingency for urgent care or emergency for contest for issues that do not occur at the contest airport.
7. Pioneer Salon bash on Friday 27 October
8. Organize opening ceremony at the airfield.
9. Organize closing ceremony in Las Vegas
10. Support checkout and return transportation to LAS
11. Track central billing at the hotel for all authorized charges and report to CFO
12. Help with Bling. Shirts, water bottles, wrist band, checks



Approved CD: _____

Approved MD: 

2023 WAAC Championship EOT Organization V2

Figure 8 Director of Hospitality Job Description

3.1 Hotels

The contest headquarters outside the airfield at Jean will be located the Residence Inn by Marriott in Henderson, Nevada. Across the street from the Residence Inn is the Hampden Inn. This is the secondary hotel.

Scope: The contest hotel nights provided as part of the entry fee are as follows

- Check in on Tuesday, October 24.
- Check out on Saturday November 3
- This is 11 nights



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- The host hotels will have entrant rates discounted from the market rates available from October 14 through November 4. Contact the hotel and ask for the WAAC 2023 event rate.
- Wi-Fi and Breakfast are free as part of the hotel room rate.
- Incidentals will be covered by each entrant's personal credit card recorded at the time of the registration



Figure 9 Residence Inn WAAC 2023 Headquarters

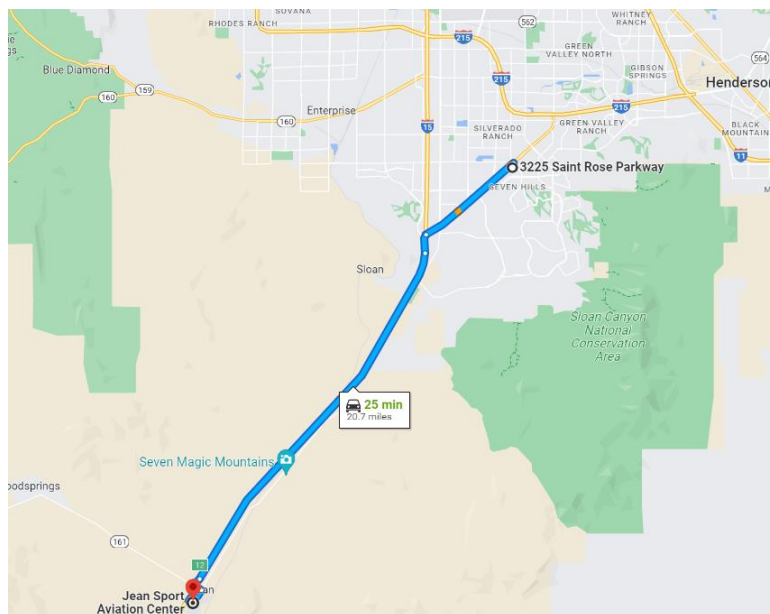


Figure 10 Las Vegas Map from Residence Inn to Airfield



Figure 11 Hampton Inn – Across the street from the Residence Inn

3.2 Hotel Reservation Mgmt.

The WAAC 2023 is obligated by the organizing agreement to arrange for lodging for the contest FAI officials and two warm up pilots. One of the warm up pilots should be form the USA NAC from the arrival airport to the contest HQ.

Contest Official Title	Name	Arrival Date WAAC	Check Out WAAC	Arrival Date Self	Check Out Date Self
Jury President	Nick Buckingham	24 Oct	4 Nov	22 Oct	5 Nov
International Juror 2		24 Oct	4 Nov		
International Juror 3		24 Oct	4 Nov		
Chief Judge		24 Oct	4 Nov		
Asst. Chief Judge		24 Oct	4 Nov		
Judge 1		24 Oct	4 Nov		
Judge 2		24 Oct	4 Nov		
Judge 3		24 Oct	4 Nov		
Judge 4		24 Oct	4 Nov		
Judge 5		24 Oct	4 Nov		
Judge 6		24 Oct	4 Nov		
Judge 7		24 Oct	4 Nov		
Asst. Judge 1		24 Oct	4 Nov		



Asst. Judge 2		24 Oct	4 Nov		
Asst. Judge 3		24 Oct	4 Nov		
Asst. Judge 4		24 Oct	4 Nov		
Asst. Judge 5		24 Oct	4 Nov		
Asst. Judge 6		24 Oct	4 Nov		
Asst. Judge 7		24 Oct	4 Nov		
Warm Up Pilot 1		24 Oct	4 Nov		
Warm Up Pilot 2		24 Oct	4 Nov		

Table 1 WAAC 2023 Sponsored Hotel Rooms

3.3 Breakfast

Breakfast is served each morning in the respective hotels per the hotels regular breakfast hours seven days a week. Breakfast is included in the hotel rate and the rate is include in the contest entry fee.

3.4 Dinner

Dinner will be hosted each evening for the registered contestants starting at 6:15 PM and ending at 7:30 PM. Each contestant will be given a rubber wrist band to identify them as being able to eat free of charge for the dinner and provide non-alcoholic beverages. A cash bar will be set up each night at 5:30 PM to 8:00PM. Dinner will be buffet style to allow for self-serving and optimize pilot availability and rest.

Date	Day	Main Course	Dessert
October 24	Tuesday	Lasagna	
October 25	Wednesday	Hamburgers	
October 26	Thursday	Fajitas	
October 27	Friday	Pioneer Saloon	
October 28	Saturday	Chicken casserole	
October 29	Sunday	Beef Stroganoff	
October 30	Monday	Spaghetti	
October 31	Tuesday	Tacos/ Chili/Pizza	
November 1	Wednesday	Pad Thai Noodles	
November 2	Thursday	Fish and Chips	
November 3	Friday	Closing Ceremony – Vegas Strip	
November 4	Saturday	Check out Day	

Table 2 Dinner Menu

On the first Friday evening, the EOT will organize the evening meal at the Pioneer Saloon established in 1913. This will give visiting contestants a chance to experience an Old West Saloon.



Figure 12 Pioneer Saloon – Jean, Nevada

The Closing Ceremony, Awards, Silent Auction will be organized at a venue to be determined on the Las Vegas Strip.



Figure 13 Las Vegas Strip



3.5 Lunch

Lunch will be provide at the airfield each day. Food trucks will be organized to arrive at 11:00 AM and be available form 11:30 AM to 1:00 PM each day. The contestants will use their rubber wrist band to identify themselves as a paid entrant and their meal will be free of charge.

3.6 Jean Airport Snacks and Beverages – Entrants

The WAAC 2023 EOT shall maintain a ready supply of refreshments to in the hospitality suites tents appropriate to the contest weather. This will include a range of cold drinks and water plus a range of light snacks. Each contestant, FAI official, and judge member will receive their own personalize 18 oz. / 0.5ml water bottle upon arrival. Water will be replenished into portable 5 gallon/20-liter water coolers.



Figure 14 Water Statons & Contest Water Bottles

3.7 Judges Line Snacks and Beverage

The WAAC 2023 EOT shall maintain a ready supply of refreshments to the judging line appropriate to the contest weather. This will include a range of cold drinks, water and a range of light snacks.

3.8 Other food related issues – to be added as required



4.0 Logistics

4.1 Transportation of Officials – Inbound and Outbound

The WAAC 2023 is obligated by the organizing agreement to arrange for transportation of contest FAI officials from the arrival airport to the contest HQ and back to the airport. The following table summarizes the manifest or arrivals. Changes to the list will be managed by the Transportation Coordinator

Contest Official Title	Name	Arrival Date	Arrival Flight	Departure Date	Departure Flight	WAAC Driver
Jury President	Nick Buckingham	22 Oct	BA 222	4 Nov	BA 223	Duncan Koerbel
International Juror 2						Bob Freeman
International Juror 3						
Chief Judge						
Asst. Chief Judge						
Judge 1						
Judge 2						
Judge 3						
Judge 4						
Judge 4						
Judge 6						
Judge 7						
Asst. Judge 1						
Asst. Judge 2						
Asst. Judge 3						
Asst. Judge 4						
Asst. Judge 5						
Asst. Judge 6						
Asst. Judge 7						

Table 3 CIVA Guest Transportation

4.2 Daily Buses to and from the Contest Sight: Hotel – Jean Airport

The WAAC 2023 is to provide daily transportation for Team members and FAI Officials between hotel and contest sight. The Transportation Coordinator will organize two each fifteen passenger vans to be drive by WAAC volunteers to be at the Residence Inn hotel each morning at 8:15 AM. Buses shall leave for Jean Airport 8:30 AM. The busses will also run before and after lunch.

At the end of the flying day, the busses will transport the passengers from Jean Airport back to the Residence Inn and Hampton Inn. Buses will leave Jean at 5:15 PM.

4.3 Judges out to Judges Line

Judges will be transported from the ramp to the East, West, or South Judging stations by Transportation volunteers. Figure 7 and 8 depict the general box arrangement and the judging locations. Routes to each location are shown in Figure 8. Transportation shall be via four pick-up trucks with cabs and room in the truck bed for hearty officials. Travel is over desert terrain.



Figure 15 Isometric View of Aerobatic Box Looking North

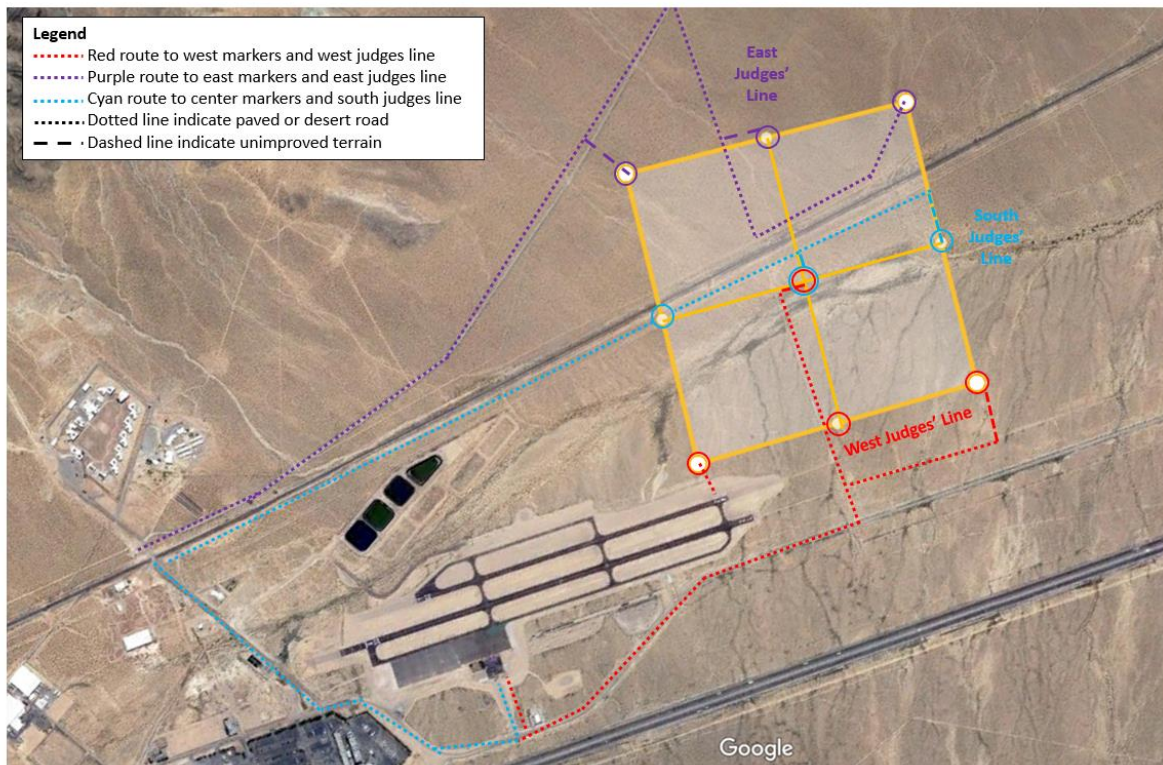


Figure 16 Routes to Judging Stations Proven at 2019 IAC West Open Championship



4.4 Airfield Ground and Air Radio Management

The WAAC 2023 will assign a daily communications radio wrangler. The duties of this position are as outline below. The clipboard will be kept at the CD tent clipboard station.




Item	Task		Radio
1	Organize and charge each night all FM hand held ground communication walkie talkies. Charging station will be kept at the CD tent.	Each Night	
2	Assign ground communication walkie talkies daily as follows: 1) MD 2) CD 3) CIVA Chief 4) Air Boss 5) Starter 6) Chief Judge &) Etc.	Daily – Each Judge Change	
3	Organize and charge each night six VHF handheld air-air / air to ground radios. Charging station will be kept at the CD tent.	Each Night	
4	Assign VHF radios daily as follows: 1) MD 2) CD 3) Chief Judge 4) Air Boss 5) Starter 6) Etc.	Daily – Each Judge Change	
5	Manage the daily charging and set up of VHF Comm 36-Watt Base Station Radio. This Radio runs off of 12V battery back and most be moved with its antenna to the appropriate judge’s line location. This radio is the Air Boss’ radio to communicate on CTAF with any transient aircraft traffic. It is more powerful than a handheld VHF (ref 3&4) which are used by the Air Boss to communicate with the pilots on box frequency.	Daily – Each Judge Change	
Day No.	Radio Wrangler Assignment	AM	PM
1	Wednesday October 25	Jeff B	Pam F
2	Thursday October 26		
3	Friday October 27		
4	Saturday October 28		
5	Sunday October 29		
6	Monday October 30		
7	Tuesday October 31		
8	Wednesday November 1		
9	Thursday November 2		
10	Friday November 3		

Table 4 Air Field Radio Management & Wranglers

4.5 Internet

The WAAC 2023 will install high speed internet and the necessary repeaters to insure WIFI is available across the ramp campus. The internet will be password protected and open to all contest officials,



pilots, team members and their guest

The internet system will be set up the week before the contest to aid in practice session and to work out the kinks. The WAAC IT manager will insure the system is working and also be available on site or remotely to assist in issues. Internet gear will be based out of the CD's tent.

Scope is as described. Timing is ~Oct 17-Nov 4. Budget is \$TBD

4.6 Generator Mx and operation (See also Section 5.4)

The WAAC 2023 ramp compound will have multiple small generators dedicated to the event. Each day the generator needs checked for fuel and turned on. Each night the unit will be refueled. The generator will be managed by named personnel only. Gas for the generator will be provide using a two gallon can labeled for the generator use only. The generator gas will be purchased with the one of the Fuel wranglers debit cards.

All power cords will be run per best shop practices and checked for security daily. Power cords will terminate into power strips to allow for contestant device charging, printers, laptops etc. Power routing and charging locations will be covered in section 5

4.7 Printer for the contestants

One printer, scanner and copier will be provided at The CD station for contest work. A second printer will be stationed in one of the hospitably tents that is useable for all contestants.

Scope is as described. Timing is ~Oct 22-Nov 4. Budget is \$TBD

4.8 Wind Management

CIVA contest rules require wind measurements are taken at regular intervals such as every half hour, or as otherwise stated. Accurate measurement of the wind direction and speed at the surface, 300m and 600m (power) the cloud-base and the current visibility are frequent requirements, for which specialist equipment and a trained operator must be available.

WAAC 2023 will employ drone technology to measure wind speeds at the surface, 300m, and 600m altitudes. Cloud bases will be taken from AWOS.

Scope is as described. Timing is ~Oct 25-Nov 3. Budget is \$TBD



4.9 Site Maintenance

Site maintenance is the daily housekeeping role for all WAAC 2023 airfield activities. Duties are describe below and should be self-explanatory. The Ground Boss is responsible to staff these roles in concert with the volunteer coordinator. A clip board for daily assignments will be kept at the CD/MD station

4.9.1 Trash gets emptied from all hospitality tents into contest dumpster

40 Gallon drum equivalent cardboard trash cans 16” x 16” x 31” with liners and sand poured in the bottom for wind anchoring will avaiable throughout the ramp.

Site Mx	Trash	Cost	F&B Coolers	Cost
Tent 1	1	\$10.00	1	\$10
Tent 2	1	\$10.00	1	\$10
Tent 3	1	\$10.00	1	\$10
Tent 4	1	\$10.00	1	\$10
Tent 5	1	\$10.00	1	\$10
Tent 6	1	\$10.00	1	\$10
CD Tent	1	\$10.00	1	\$10
Judge Line East	1	\$10.00	1	\$10
Judge Line West	1	\$10.00	1	\$10
Judge Line South	1	\$10.00	1	\$10
Extra	3	\$30.00	3	\$30
		\$130.00		\$130



Table 5 Site Misc. Fixtures

4.9.2 Daily Clean Up - Vacuum

4.9.3 Daily Trash Collection from Judge Line to Contest Dumpster

4.9.4 Bed down for the night – secure all items from wind and rain

4.9.5 Trash at sight - Dumpster

4.9.6 Porta potty - every x days

Three porta potties will be rented for the ramp and one each for the judging stations. The portable toilets will be installed on Monday 23 October. A contract will be negotiated with the supplier to make sure the toilets are serviced as required during the contest. Toilet paper will be check each day by the site mx manager.

In addition to the portable toilets, there are toilets in the public building

Portable Toilet	Trash	Cost	Drop off	Pick Up
Judge Line East	1	\$250	10/23/2023	11/4/2022
Judge Line West	1	\$250	10/23/2023	11/4/2022
Judge Line South	1	\$250	10/23/2023	11/4/2022



CD Tent	1	\$250	10/23/2023	11/4/2022
Tent 1/2/3	1	\$250	10/23/2023	11/4/2022
Tent 4/5/6	1	\$250	10/23/2023	11/4/2022
Extra	1	\$250	10/23/2023	11/4/2022
		\$1750		

4.9.7 Beverages & Snacks

Each morning replenishes the coolers and snack bins in each hospitality tent. 5-gallon water bottles will be purchased and stored in the CD tent. Snack supplies will be stored in the CD RV. The Site Maintenance Clipboard will be kept at the CD Tent’s clipboard station.



Scope is as described. Timing is ~Oct 20-Nov 4. Budget is \$TBD

Site Mx	Assignment	AM	PM
Wednesday	October 25	Jeff B	Pam F
Thursday	October 26		
Friday	October 27		
Saturday	October 28		
Sunday	October 29		
Monday	October 30		
Tuesday	October 31		
Wednesday	November 1		
Thursday	November 2		
Friday	November 3		
Saturday	November 4		

Table 6 Site Maintenance Assignments

4.10 SCORING

The Scoring Director is the ‘guardian’ of accuracy and primary manager of correct operation of the CIVA championship results system. The overriding responsibility in this post is to provide a timely and accurate service in accordance with Section 6 regulations and all Jury instructions.

A sound working knowledge of CIVA championship operational requirements is especially important. Experience of operating the scoring software and participation in training sessions using historic championship data is an essential preparation for event scoring management and output



WAAC 2023 FLIPBOOK



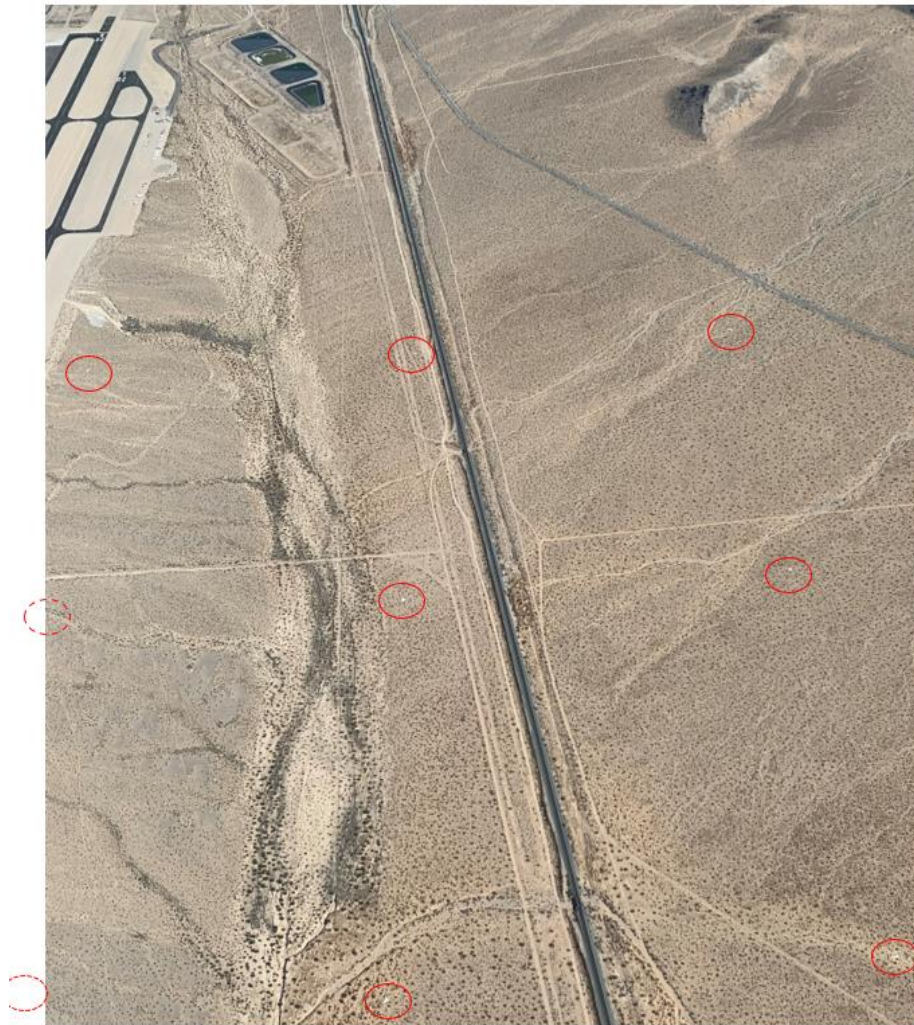


5.0 Airfield Infrastructure

This section outlines all of the required physical structure and accommodate necessary to conduct he contest at the airfield. All identified areas are to be complete by Monday night, October 23, 2023

5.1 Aerobatic Box

The aerobatic box location and layout shall be the same as the box successfully used at the 2019 IAC West Open Championship. Box markers will be provided by IAC Chapter 12 for the corners and T's. New CIVA 2M x 11M will be required for the center, center axis and wind arrow. The concept is to use 6' x 8' off the shelf white tarps and sew them together to make 6' x 24' markers. These will have seemed edged and grommets for staking.



IAC Chapter 12 box markers and Jean box with 7 of 9 markers in the field of view of the photograph taken inverted with an iPhone courtesy of Vibeke Gaard.

Figure 17 Aerobatic Box Markers - 2019 IAC West Open Championship

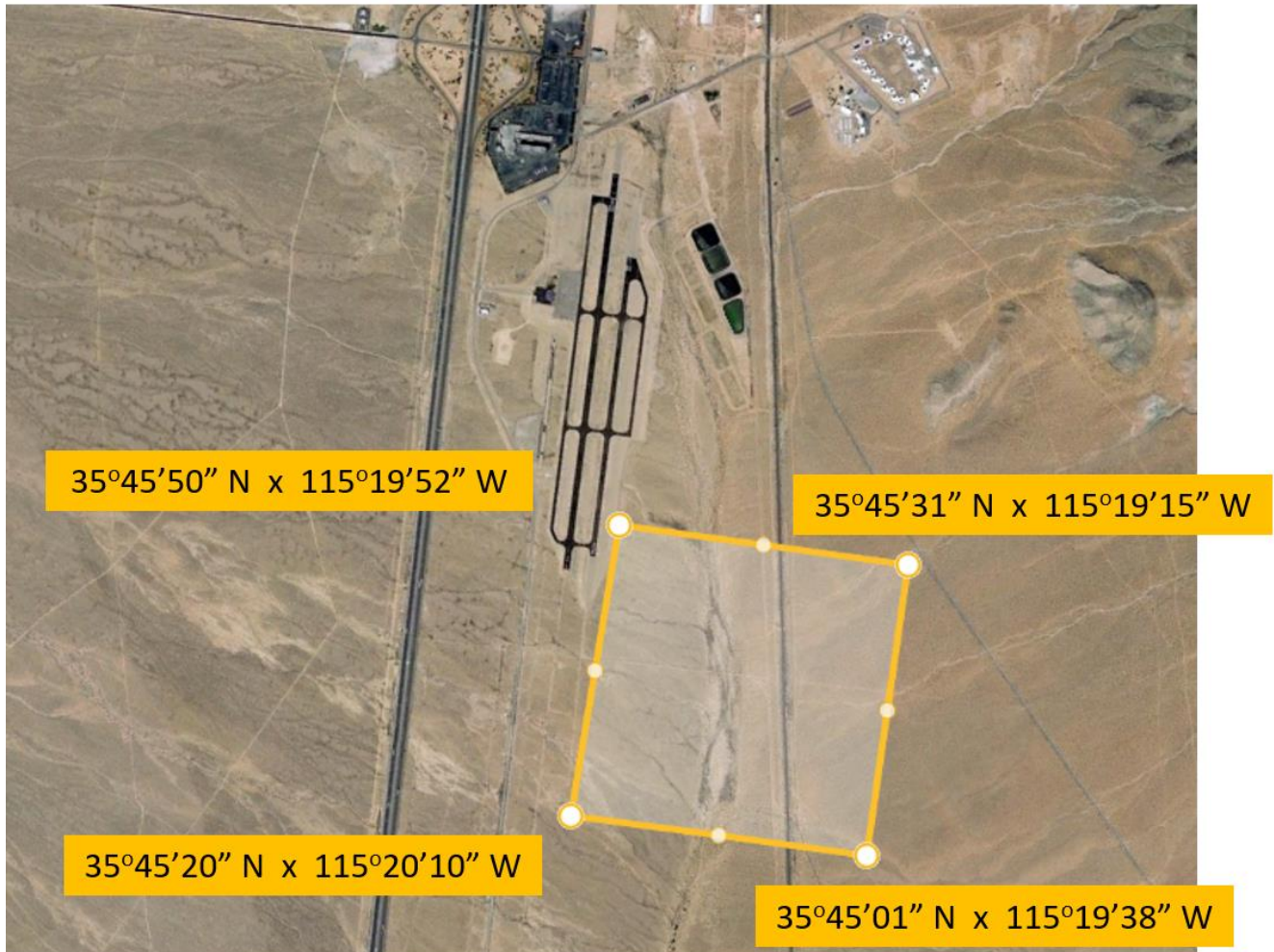


Figure 18 Lat - Long Coordinates for Aerobic Box for FAA Waiver

Note that there paved road access to the west boundary of the center box for excellent viewing by more interested spectators and contestants.



Figure 19 – Route to Center Box Viewing

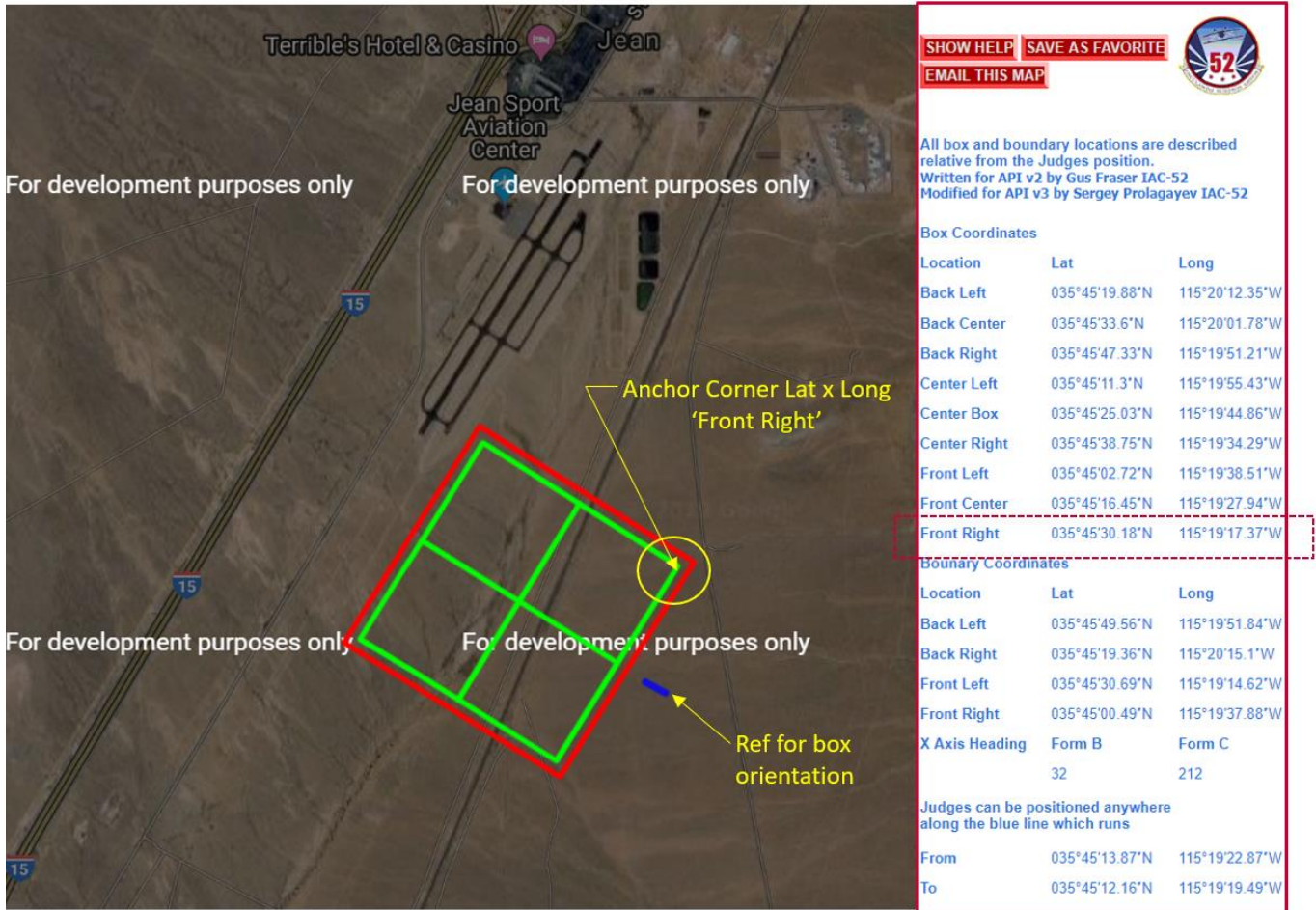


Figure 20 Aerobatic Box Detailed Coordinates for All Perimeter Markers

East Judges' Line 800' / 244M Location 035° 45' 37.87 N x 115° 20.10.23 W

West Judges' Line 800' / 244M Location: 035° 45' 12.16 N x 115° 19.19.49 W (Shown)

South Judges' Line 800' / 244M Location: 035° 45' 04.41 N x 115° 20.00.71 W



Figure 21 2019 IAC West Open Champions Ship Box Marker

Chapter 12 will loan the WAAC 2023 the corner and T markers. To establish the Center T and the six other axis stripes (4 additional markings), white 6 x 8 tarps will be zip tied together to form a finished marking = 7.5' x 30' which is 2.2M x 9.7M. 6 Tarps will be used per marker.

Scope is as described. Timing is Oct 25-Nov 3. Budget is 6 new tarps made up of 6 each individual tarps for a total of 36 plus the arrow markers. Arrow markers are 5 individuals for a total of 10

Total qty is 46. Kotap TRW-0608 Multi-Use, Waterproof Tarp, 6 ft. X 8 ft, White, 20 Pack available for \$124.00 18 Inche grommet spacing.

Box	Size (M)	Qty	Source	Cost
NE Corner	2 x 9	1	Chp 12	-
NW Corner	2 x 9	1	Chp 12	-
SE Corner	2 x 9	1	Chp 12	-
SW Corner	2 x 9	1	Chp 12	-
East T	2 x 9	1	Chp 12	-
West T	2 x 9	1	Chp 12	-
North T	2 x 9	1	Chp 12	-
Center Box	2 x 9	2	Buy	\$80
X Axis	2 x 9	4	Buy	\$160
Y Axis	Same	Same	Same	-
Wind Arrows	2 x 9	2	Buy	\$80

Stakes - 12" Nails and Washers	-	200	Buy	\$100
Total				\$420
Set up				
Box Out 10/19 (Thu)	Two Teams	Volunteers		
Box Down 11/4 (Sat)	Two Teams	Volunteers		

Table 7 Box Marker Requirements

3.3. Performance Zone

3.3.1.1. Programmes will be flown with reference to the longitudinal and lateral axes marked on the ground. The performance zone (box) must be a clearly and distinctly marked area of 1000 x 1000 m, the central point of which will be the intersection of the axes, as shown in the diagram. The zone must be located adjacent to a suitable emergency landing area; details of this (as well as the average distance of the board of judges from the adjacent box edge for all planned positions, as per 1.3.2.6.b) will be provided by the Organiser in an event bulletin.

3.3.1.2. The longitudinal (main) and the lateral (secondary) axes shall both be marked by 7 contrasting marking strips. Only one axis system must be visible at a time. The size of these markers must be at least 2 x 9 m, with the longer side aligned with the direction of the axis. The ends of the axes and the four corners of the box must be clearly marked and also must be at least 2 X 9 m in size. Two arrows will be placed near the central point of the main axis. They indicate the specified direction of the main axis pointing into the Official Wind. The International Jury will determine any change of the Official Wind Direction (hence main axis) as may be necessary, and ensure that the Organiser amends the orientation of the direction arrows accordingly (see 3.7.1.2).

The diagram illustrates the CIVA Box Marking Guidelines. It shows a square performance zone measuring 1000 m by 1000 m. A 'Buffer Zone' of 50 metres is indicated around the perimeter. The box is divided into four quadrants by a 'MAIN AXIS' and a 'SECONDARY AXIS'. Each axis is marked with 7 contrasting marking strips, each at least 2 x 9 metres in size. The corners of the box are marked with 'Corner Markers' (2 x 9 metres), and the intersections of the axes are marked with 'T Markers' (2 x 9 metres). Two arrows are placed near the central point of the main axis, pointing towards the 'Official Wind' direction. A 'Judges' position is shown outside the box, with a distance of 150 to 250 metres from the top edge. A note states: 'NOTE: Markers are shown 10X scale'.

Figure 22 CIVA Box Marking Guidelines

5.2 Pilot Information Boards - PIB

The WAAC 2023 EOT will develop a system to clearly display either the number of the pilot in the air or the number of the next pilot to fly at a location visible from the competitors parking/flight line.



Information boards will also be posted CD tent and on the flight line and the holding point with the most recent meteorological information on wind speed and direction. The weather bulletin must include the time of any change in wind speed and direction as well as the time of the bulletin's publication. See also Wind measurements in Section 4.8.

The WAAC 2023 will have a designate contest 'Go Truck' and fire extinguisher at the Starting Line position. The 'Go Truck' will be a volunteer vehicle. The 'Go Truck' crash kit will be on loan from IAC Chapter 12.



Figure 23 Example of Pilot Information Board – PIB

A volunteer plan will be developed and kept on the weather Management PIB clipboard that will also reside in the CD Tent Clipboard station.

Weather Mgmt/PIB/ Flag		AM	PM
Wednesday	October 25	Baker	Freeman
Thursday	October 26		
Friday	October 27		
Saturday	October 28		
Sunday	October 29		
Monday	October 30		



Tuesday	October 31		
Wednesday	November 1		
Thursday	November 2		
Friday	November 3		
Saturday	November 4		

Table 8 Weather Management & Communication Volunteer Staff

Starter		AM	PM
Wednesday	October 25	Baker	Freeman
Thursday	October 26		
Friday	October 27		
Saturday	October 28		
Sunday	October 29		
Monday	October 30		
Tuesday	October 31		
Wednesday	November 1		
Thursday	November 2		
Friday	November 3		
Saturday	November 4		

Table 9 Stater Volunteer Plan

5.3 Tents

The WAAC 2023 EOT is working to develop excellent on ramp temporary structures to accommodate the contest. Plans are being made for 60 pilots and 35 aircraft. The aircraft may be sheltered under canopy tents. Three sided and four side 20 x 20 hospitality tents will also be available for the contest.

Fire department inspections are required for tents large than 20 x 20. Above xxx ft. @ a building permit is required. The WAAC would like to avoid need a building permit review.

The general layout is shown below with each type of tent addressed in the following paragraphs.

5.3.1 Aircraft Tents

The WAAC 2023 EOT is working with various Las Vegas based tent suppliers to provide canopy tents for the aircraft. Appendix E list the historical weather averages in Las Vegas for the contest dates.

- There is less than 5% change of precipitation during the vent.
- Average precipitation in Las Vegas for the month of October is 0.3 inches / 7 mm of rain.
- Wind speeds with a 90% probability range from 2mp to 12mph.



- Temperatures range from 50° - 80° F.

Accordingly, depending on the budget and fund-raising success, tents for the aircraft are considered an option at this time. The ramp at Jean is configured with steel cables that are used for individual aircraft tie downs. Tie downs for the cables will be provided for all aircraft at the event by the WAAC 2023 EOT.



Figure 24 Jean Ramp



JEAN - WAAC 2023 RAMP PLAN



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2023 World Aerobatic Championships @ Jean RFP

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- Focus on Team Members
- 4 Individual 20'x 20' tents— room for 24 people per tent
- CD Operations Tent with Large Hospitality veranda
- 1 20' x 40' tent for briefings & aircraft mx
- Scale 10 M Ramp Dance Boxes
- Sponsor Display Area as Required

Figure 25 Jean Airport Ramp – Closer In

5.3.2 Maintenance Tent - Utility Tent

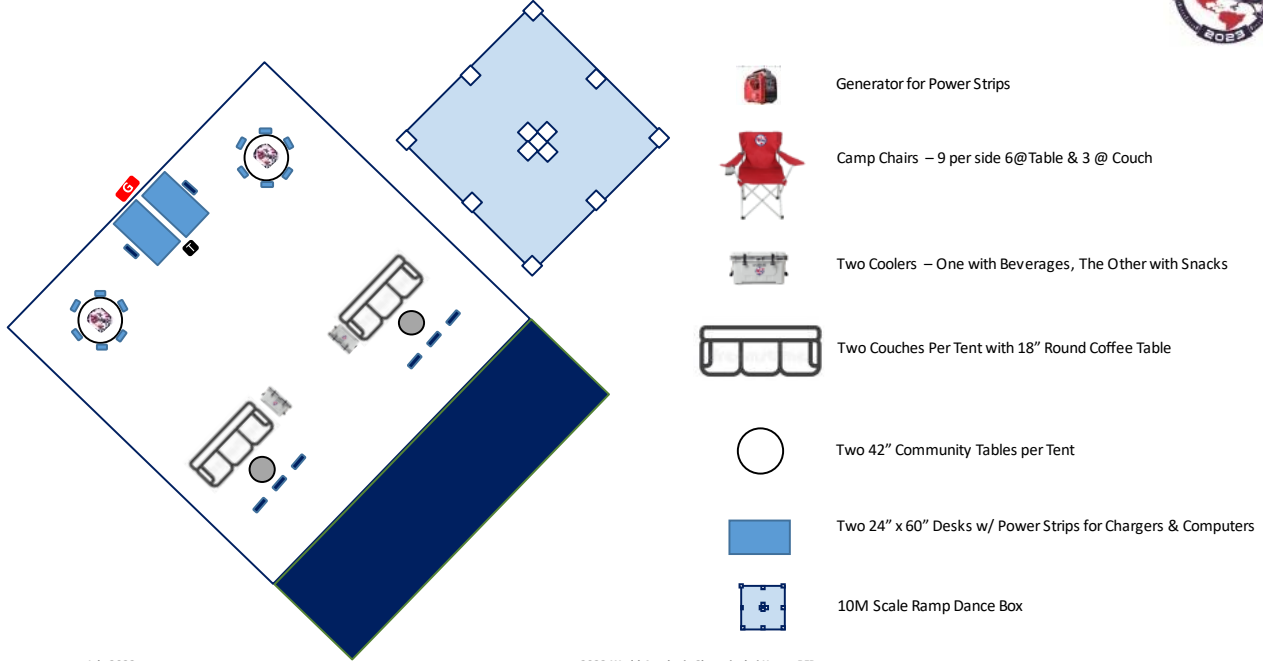
The WAAC will have room under one of the planned tents (utility) for dedicated maintenance.

5.3.3 Hospitality Tents

The WAAC 2023 EOT envisions three or four 20' x 20' for hospitality tents with verandas for the contestants and team members to enjoy the contest. Each tent will be configured with a couch, coffee table, lounge chairs, working desk with folding chairs. In addition, there will be power strips / charging stations in each tent, coolers for beverages and snacks, and trash receptacles. Tents will be serviced daily.



HOSPITALITY TENT 20' X 20' WITH 8' VERANDA



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2023 World Aerobatic Championships@Angar RFP

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Figure 26 Pilot & Team Hospitality Conceptual Floorplan

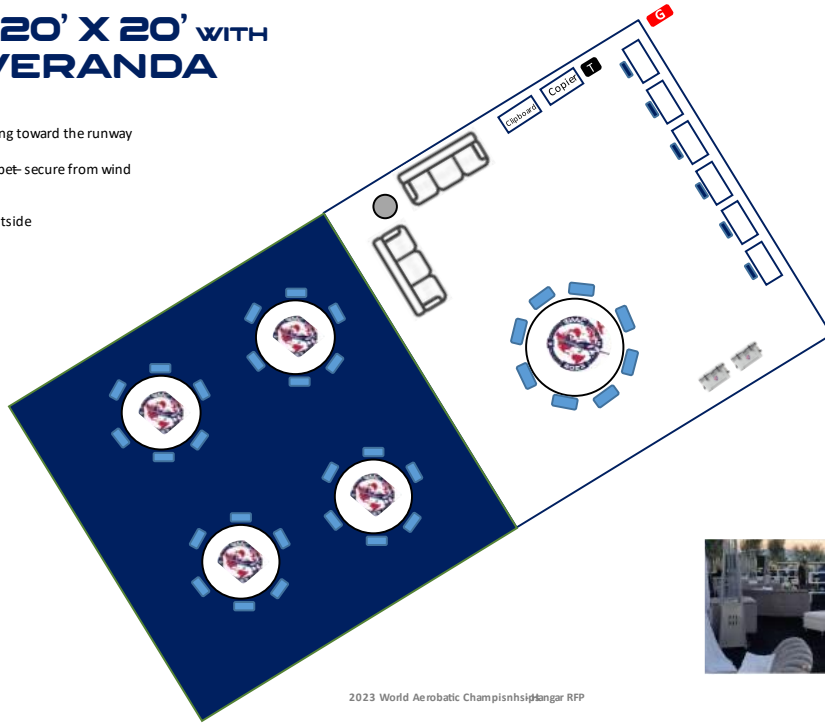
5.3.4 CD Tent

One tent will be dedicated to the CD's station. This will be sheltered on four sides. Work spaces as illustrates will be provided. There will be a central conference table for meetings. The clipboard and radio charging station will be located in the CD tent as illustrated. A welcoming, carpeted outdoor veranda will provide for all team members and their guests



CD TENT 20' X 20' WITH 20' X 20' VERANDA

- Working Tent - 20' x 20'
- One side to three sides covered— opening toward the runway
- Tent is equipped the same
 - Outdoor 20' x 20' Veranda carpet- secure from wind
 - Two couches
 - 8 place working table inside
 - 6 place hospitality tables- 4 outside
 - Six work stations
 - Coffee Table -1
 - Power cords for charging- 4
 - Coolers-2 CFE
 - Trash can -1
 - Camp chairs- 32 CFE
- Available 10/24-11/3
- CFE = Customer Furnished Equipment



2023 World Aerobic Championships #Angar RFP

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Figure 27 CD Tent with Veranda Conceptual Floorplan



Figure 28 Veranda – Hospitality Concept

Tent	Size (ft.)	Set Up	Take Down	Qty	Fee
Tent 1 & 2	20 x 20	10/23/2023	11/4/2023	1	\$3500



Tent 3 & 4	20 x 20	10/23/2023	11/4/2023	1	\$3500
Tent 5 & 6	20 x 20	10/23/2023	11/4/2023	1	N/A
CD Tent	20 x 20	10/21/2023	11/4/2023	1	\$1750
Utility Tent	20x 40'	10/23/2023	11/4/2023	6	\$3500
Set up and Delivery					\$3500

Table 10 Tent Rental Summary



Figure 29 Central Clipboard & Radio Management Station Located in CD Tent

5.3.5 Jersey Barriers / Concrete Blocks / Portable Ballast

The event permit at Jean will require we do no harm to the Jean asphalt ramp. Accordingly, any staking of tents will have to involve the use of concrete blocks and or portable ballast arrangements. This should be supplied as part of the tent suppliers bid.

5.4 Generators & Lighting

The event will be conducted primarily in daylight hours. Hence, there is no demand for night time illumination other than for security and possible post contest hour’s maintenance activities on an aircraft. Portable utility lights will be provide for the utility tent and the CD tent.

The power distribution plan is to rent or buy four small 1000W generators. Each generator will be located between a pair of tents. The 50’ power cord will run

from the generator to the tent. Inside the tent there will be a 25' power cord. The power cord will be connected to a six out let power strip.



Figure 30 Compact Portable Generator

Power	Notes	Pick Up	Drop Off	Qty	Fee
Tent 1 & 2	1000W	10/23/2023	11/4/2023	1	\$rent
Tent 3 & 4	1000W	10/23/2023	11/4/2023	1	\$?
Tent 5 & 6	1000W	10/23/2023	11/4/2023	1	\$?
CD Tent	1000W	10/23/2023	11/4/2023	1	\$buy 469
Power Cord	50'	10/1/2023	N/A	6	\$90
Power Cord	12'	10/1/2023	N/A	12	\$60
Power Strip	6 outlet	10/1/2023	N/A	12	\$90
Gas Tank	2 Gallon	10/1/2023	N/A	2	\$10
Total					

Table 11 Power Supply and Distribution

Scope is as described. Timing is Oct 25-Nov 3. Budget is \$xxx

5.5 RV

The WAAC 2023 will rent or have on loan a RV for use by contest officials. Access will be limited to the EOT and FAI officials. The RV will provide private space for conversations,



protection from the elements in case of in climate weather, storage for valuable items. The RV can be used for private discussions and jury protests. Budget lookis like \$250.00 A day



Figure 31 CD – Contest RV Concept – Size is a function of Budget

Scope is as described. Timing is ~Oct 23-Nov 4. Budget is \$TBD

5.6 Judges Stations

The judges' stations will be provided for per CIVA northern hemisphere requirements on the east, west, and south side of the aerobatic box. All three locations were used during the 2019 IAC West open Championship. The east location enjoyed a nicely elevated view of the airfield. All locations were satisfactory.

The judge's stations will be organized as depicted in the CIVA guidance illustration. The 2023 WAAC will host seven (7) judges. The Chief Judge, their assistant and support personnel will provided two portable shade canopies.

At the Chief Judge Station

- One sturdy table sized for three people sitting side by side.
- Chairs for 5 people (CJ, two Assistant CJ's, Video operator and Runner), with at least two 'recliners.'
- A comprehensive box of 'Office Supplies' - stapler, paperclips, rubber bands adhesive tape, Post It Notes, sufficient clip boards, box files and ballpoint pens for the appointed number of judges.

- Thought must be given to handling the paperwork, its storage, collection (runner) and distribution, bearing in mind the possibility of windy conditions.
- Coolers for cold drinks etc.
- Three spare loungers and three upright chairs shall be available in reserve, to cover breakages to judges' chairs!

At Each judge

- Two good quality reclining sun lounger type chairs and one semi upright adjustable chair on the basis of three persons in each judging team
- A minimum of two umbrellas with a suitable stand or a variable orientation overall sun shade must be provided for each judging a station. Umbrella stands should be sufficiently robust to keep them stable in windy conditions, alternatively means of guying the umbrellas must be provided.
- Other methods of keeping the judging positions in the shade are acceptable (e.g. well supported awnings) but must be capable of surviving two weeks out on a windy airfield. However, adequate guy lines at least three suitable hammers and ample pegs must be provided for the judging stations.

The ground will be suitable addressed prior to the contest for comfortable judging chairs. A 'pad' of earth will also be prepared to accommodate a tripod for the contest videographer at each judge station. See paragraph 5.1 for judges' line GPS coordinates

Scope is as described. Timing is Oct 25-Nov 3. Budget is \$TBD

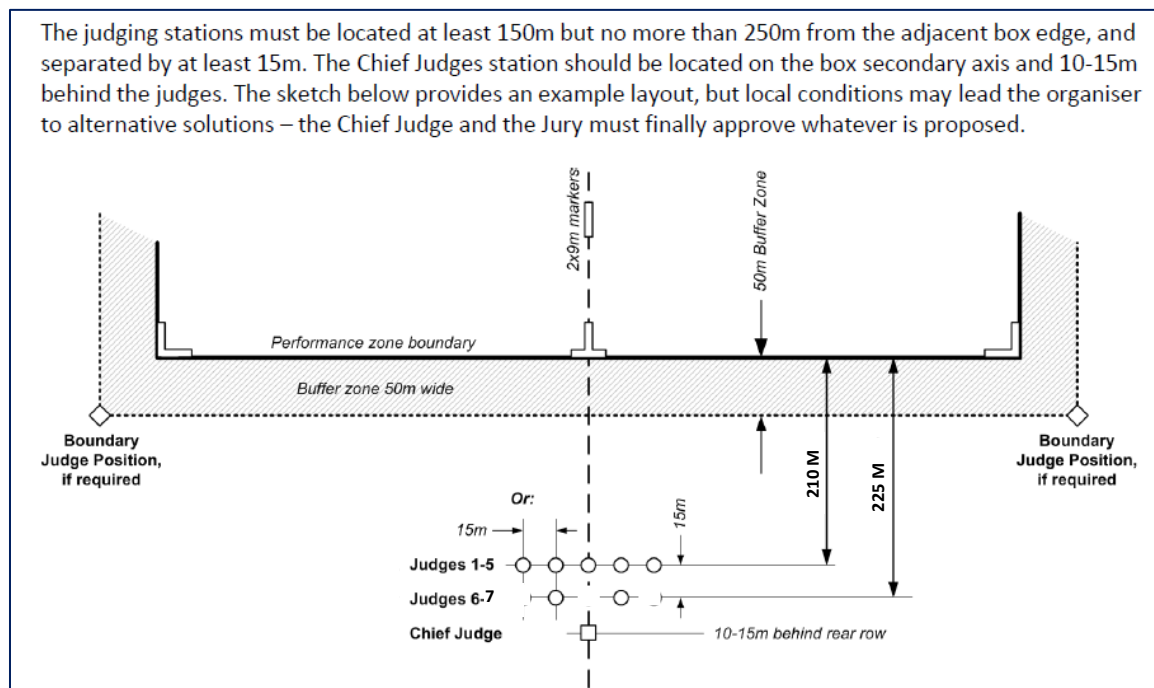


Figure 32 CIVA Planned Judge Station Layout – Seven Line Judges & Chief Judge



Figure 33 Judge's Line (South) During 2109 IAC West Open Championship

One shade canopy shown. Two will be provided along with tables, coolers, radios and equipment. Seven 3 person line judge teams will be provided

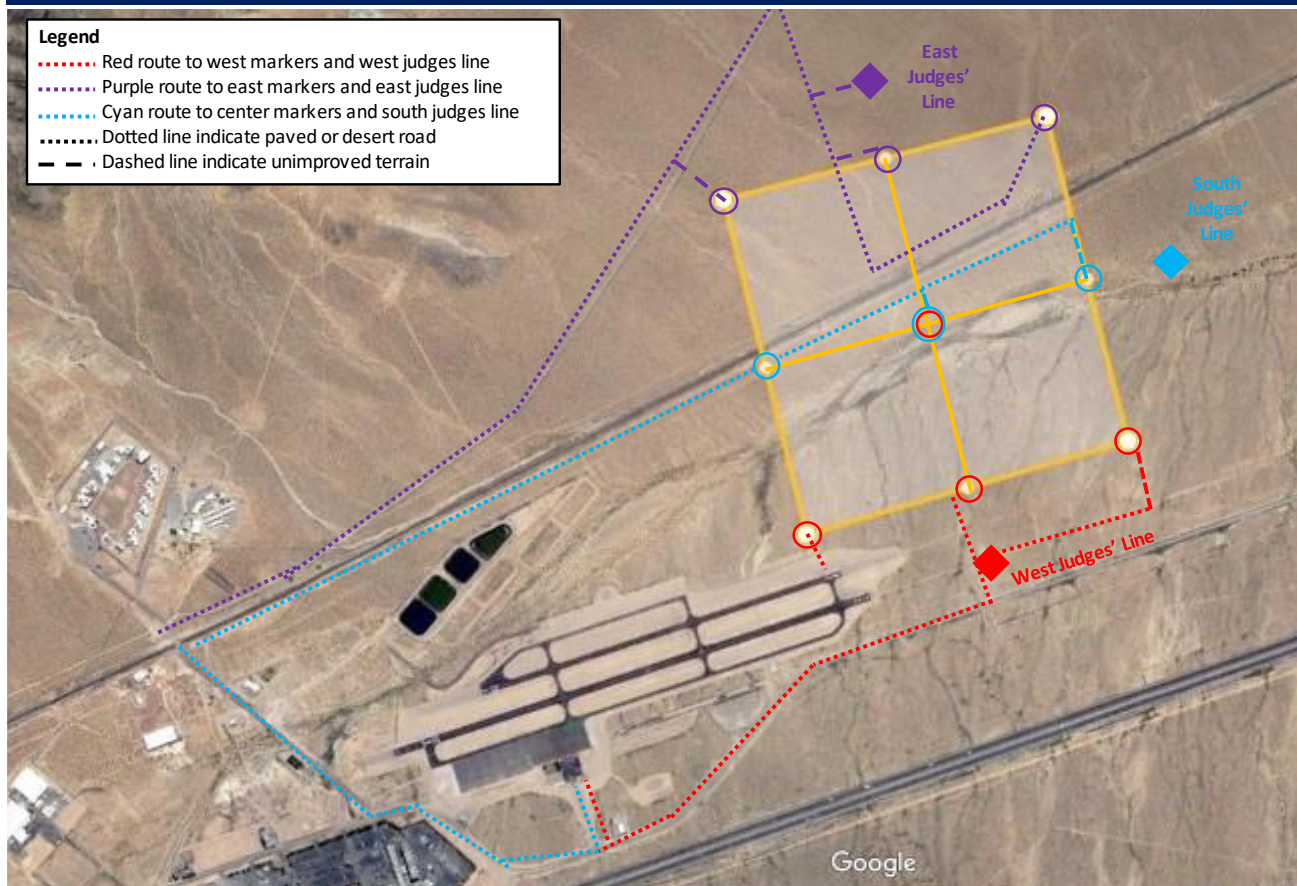


Figure 34 Transportation Routes to Judging Stations

5.7 Contest Director's Station

The Contest Director's station be located on one portion of the hospitality tents located on the ramp. The CD RV will be parked conveniently close to the selected hospitality tent. The CD station is the contest head quarter. There shall be adequate power tables and work space with appropriate shelter provide by a three-sided tent. All CIVA officials are welcome at the CD station. It is expected that the MD, CD, Chief Judge and CIVA president will have permanent positions assigned in the CD station.

Portable Sound System for contest announcements etc. will be avaiable at the CD tent and for use in the Utility Tent as required for briefings.

Scope is as described. Timing is ~Oct 25-Nov 3. Budget is \$TBD

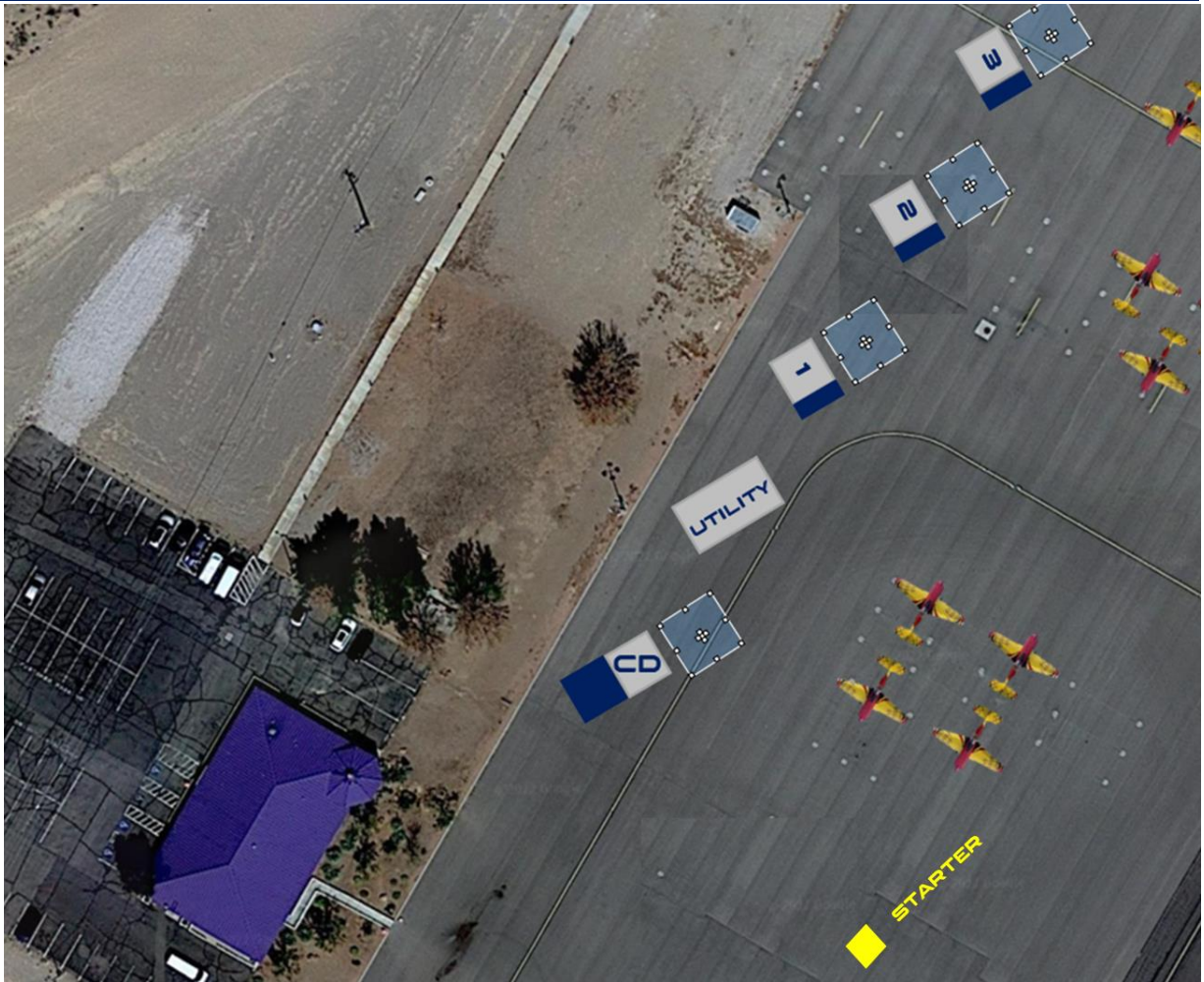


Figure 35 Contest Direction Station

5.8 Crash and Rescue & Law Enforcement

- Crash and rescue service will be performed by the onsite Jean Clark County Station 87. Point of contact is Mr. Scott Straily -A Platoon leader of Battalion 4.
- Nevada Highway Patrol point of contact is Sergeant Dan Marek Southern Command Nevada Highway Patrol dmarel@dps.state.nv.us 775-527-0184
- Local Police is Sergeant Dana Pickerel D7940P@lvmpd.com 702-278-0821

There will also be contest 'Go Truck' parked on the ramp with the IAC Chapter 12 crash kit.

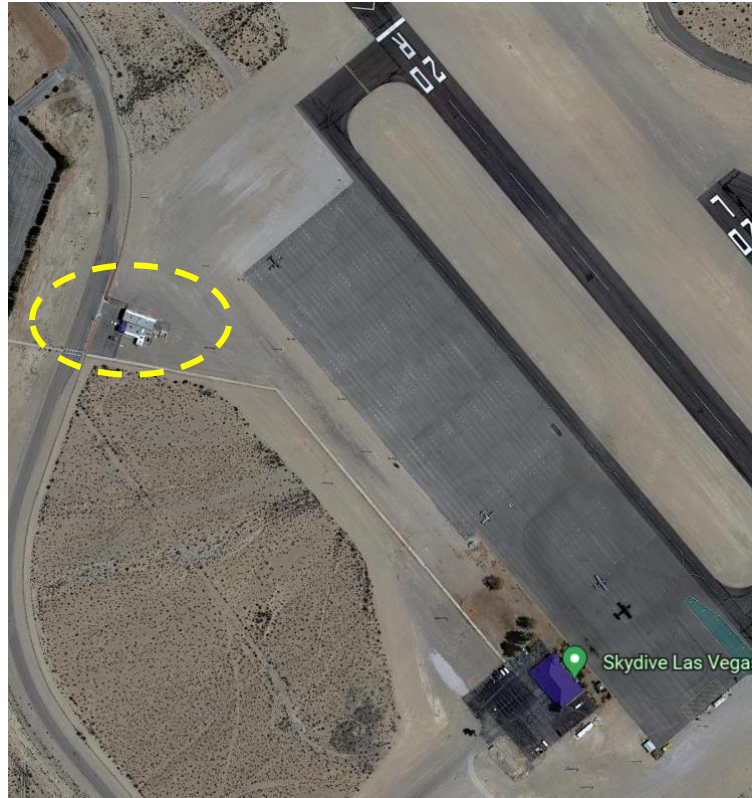


Figure 36 Crash and Rescue – Jean Airport Fire Station

Go Truck Vehicle		AM	PM
Wednesday	October 25	Baker	Freeman
Thursday	October 26		
Friday	October 27		
Saturday	October 28		
Sunday	October 29		
Monday	October 30		
Tuesday	October 31		
Wednesday	November 1		
Thursday	November 2		
Friday	November 3		
Saturday	November 4		

Table 12 Go Truck Volunteer Vehicle

5.9 Ramp Access and Crowd Control

The ramp, defined as asphalt, will be accessible only to people with silicone wrist bands as outline below.



WRIST BAND TEMPLATES



Figure 37 Silicone Wrist Band

Signs will be hung on the ramp fences, public building and sidewalks to indicate the event is open to public viewing but ramp access is private.

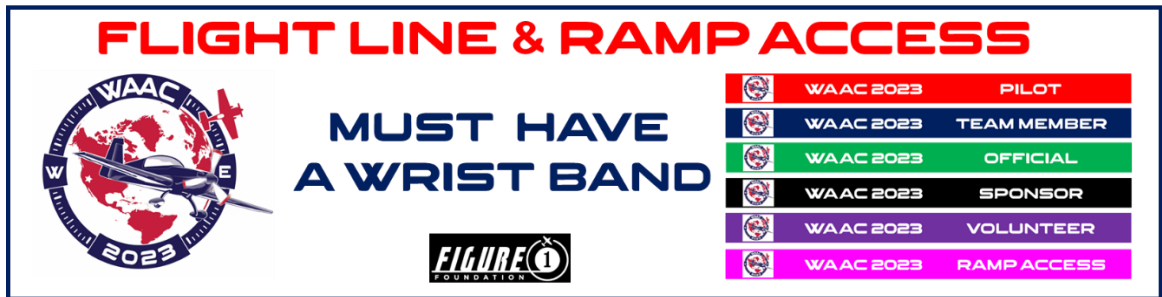


Figure 38 Ramp Access Sign Mock Up



FLIGHT LINE & RAMP ACCESS

MUST HAVE A WRIST BAND

FIGURE 1

	WAAC 2023 PILOT
	WAAC 2023 TEAM MEMBER
	WAAC 2023 OFFICIAL
	WAAC 2023 SPONSOR
	WAAC 2023 VOLUNTEER
	WAAC 2023 RAMP ACCESS

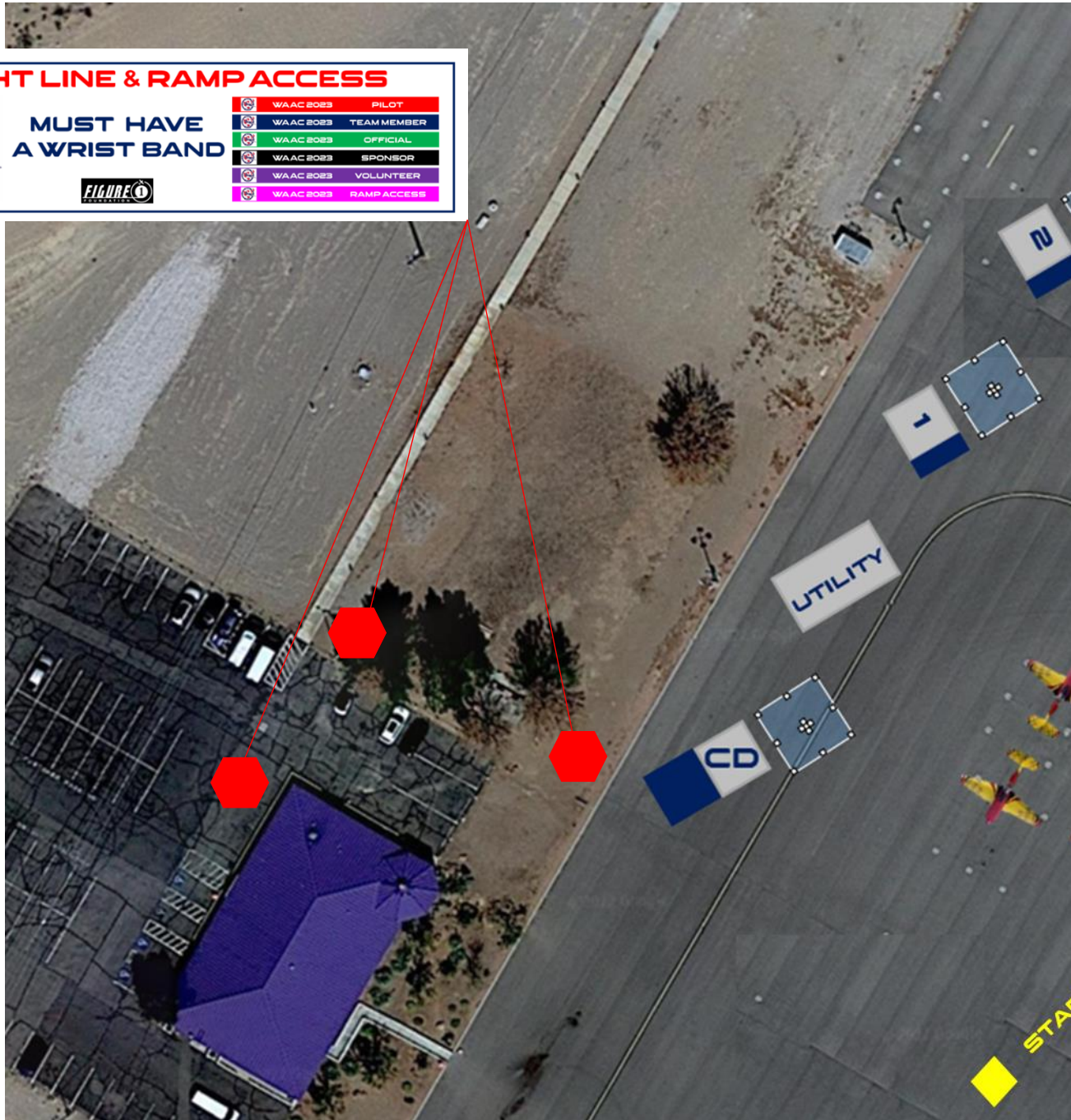


Figure 39 Ramp Access Signage

5.10 Ramp Internet

A WiFi network will be created to provide WiFi Internet coverage of the ramp for team members, contest officials, scoring, sponsors, and volunteers. The network will be set up no later than Saturday, October 21 and taken down at the event closing. It will be



password protected and not available for public use. WAAC 2023 will get the internet feed from the existing WiFi available at the public building.



Figure 40 – Piggy back off of Go Jump Wifi Router



6.0 Aircraft management

This section deals with the ground and flight management of the aircraft during the official contest schedule at the airport.

6.1 Contest Fuel

Fuel will be self-serve at the Jean Fuel pumps outside of contest hours & contest flights. After each of the four contest flights, the pilot will be given fuel at the fuel pump using the WAAC 2023 Credit Card managed by the daily aircraft fuel wrangler. The fuel wrangler will be identified by their **lime green** shirt. The wrangler will have a clipboard of all approved pilots and aircraft.

The pilots will start their first contest flight at the fuel level that is self-managed. Fuel will be added after flight's one, two, and three at the direction of the pilot. After the pilot's fourth flight, they will be given the average per flight gallon for the contest free of charge. Additional fuel required for topping off for flights home or other purposes will then be pumped on the pilot's credit card. Of fuel from the contest.

Fuel and oil for official practice periods and return transits must be paid for by the competitors

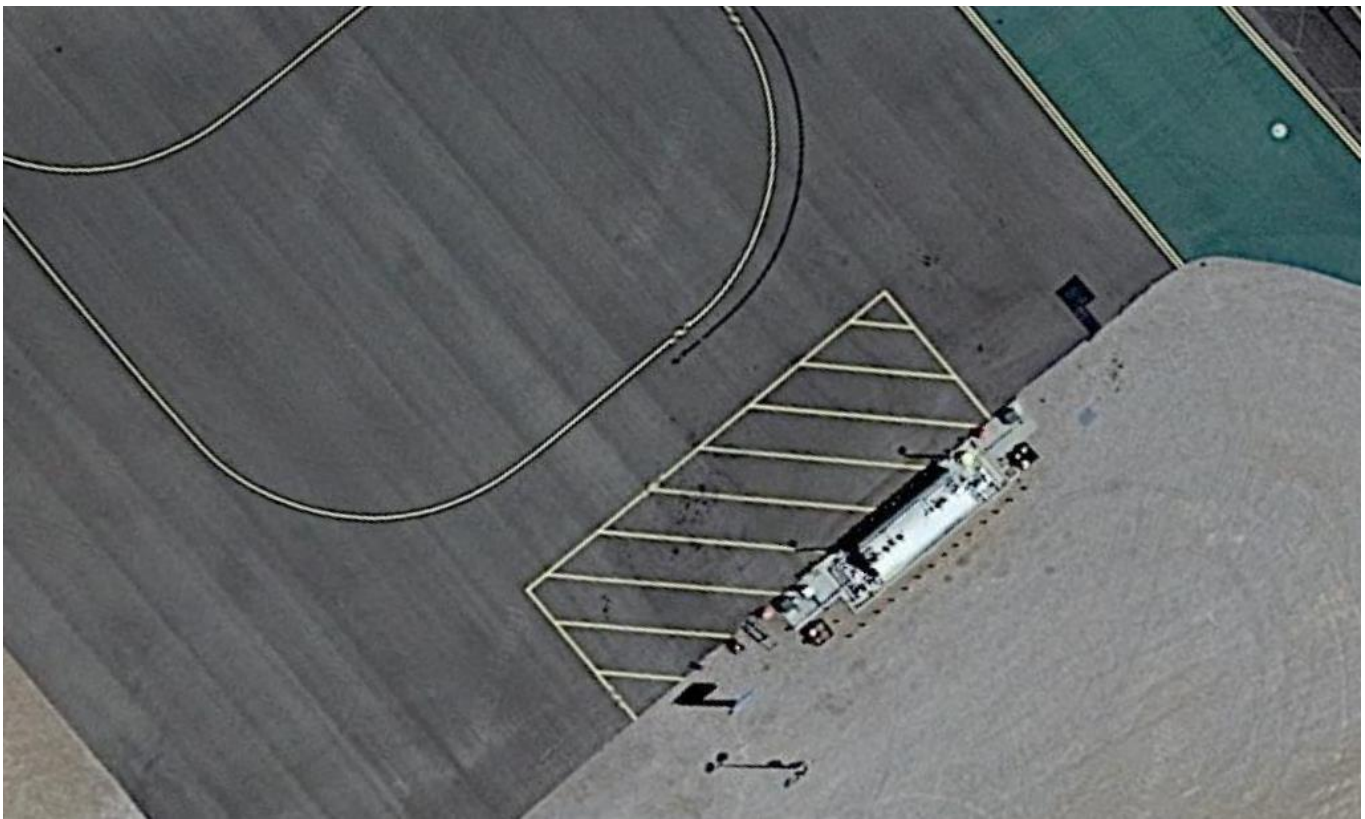


Figure 41 – Jean Airport Self-Serve 100LL Fuel Pump



The fuel wrangler will have a clip board to record the pilot’s name, aircraft registration, date, flight and fuel.

Scope is as described. Timing is ~Oct 25-Nov 3. Budget is \$15,000

Pilot Name	Acft Registration	Flight No.	Date	Gallons	Fee
Luke Penner	C12345	1	10/25/2023	12.2	57.25
Matt Dunfee	N330MD	1	10/25/2023	13	62.55
Pilot Σ_{65}^1					
Warm Up Pilot 1					
Warm Up Pilot 2					

Table 13 Fuel Wrangler Clip Board Example

Fuel Wrangler Volunteer		AM	PM
Wednesday	October 25	Baker	Freeman
Thursday	October 26		
Friday	October 27		
Saturday	October 28		
Sunday	October 29		
Monday	October 30		
Tuesday	October 31		
Wednesday	November 1		
Thursday	November 2		
Friday	November 3		
Saturday	November 4		

Table 14 Fuel Wrangler Volunteer Plan

6.2 Contest Oil - Managed by Fuel Wranglers

240 quarts of Aeroshell 100W+ will be donated by Shell Aerospace Lubricants. Oils will be available from the fuel wranglers after every flight. Oil will be stored in the contest RV. Oil usage will not be recorded

Scope is as described. Timing is ~Oct 25-Nov 3. Budget is \$0 thanks to Shell.

WAAC2023 is working with IAC longtime member Mr. Gary Debahn to have his mobile shop on site for aircraft maintenance

6.3 Maintenance Tent

In concert with the reserve space for maintenance in the contest 20x 40 utility tent, the WAAC 2023 EOT will have tools and equipment on sight to support basic aircraft



WAAC 2023 FLIPBOOK



maintenance and repair. It is not envisioned that aircraft reassembly straight from a shipping container would be conducted at Jean.



7.0 Pilot Services

- 7.1 FAA Physical
- 7.2 FAA Pilot's License
- 7.3 Foreign Pilots License
- 7.4 Visa required for entry in the USA
- 7.5 Aircraft Rental
- 7.6 Hotel Registration and Welcome
- 7.7 Aircraft Shipment

Import / export



8.0 FAA & Jean Flight Operations Coordination

8.1 Jean- Henderson Airport Management

The WAAC Managing Director will work closely with the Clark County Department of Aviation (CCDoA) and Henderson – Jean Airport manager Mr. Bruce Daugherty. This Flip Book will be reviewed in detail in early 2023 to make sure alignment is in place for all facets of the contest.

8.2 Practice & Contest Waiver

Using the 2019 IAC West Open Championship waiver request and waiver, a waiver will be sought for operations over Jean from October 19 - Nov 4 from 8:00 AM to Sunset each day. Ahead of this time period, the local Chapter 777 box and waiver will be available.

Waiver will stop at 500 feet AGL. This is to manage permission of train traffic through the area and be in line with Advance Category floor limits. The ceiling of the waiver will be 7,000 MSL to provide separation with the bottom of the local Class Bravo (B) airspaces used for Harry Reid Las Vegas International Airport.

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION	
CERTIFICATE OF WAIVER OR AUTHORIZATION	
ISSUED TO: International Aerobatic Club (IAC)	Responsible Person: Duncan B. Kierbel 720-250-8442
ADDRESS: 280 Osama Drive Riv. Colorado 80514	
This certificate is issued for the operations specifically described hereinafter. No person shall conduct any operation pursuant to the authority of this certificate except in accordance with the standard and special provisions contained in this certificate, and such other requirements of the Federal Aviation Regulations not specifically waived by this certificate.	
Aerobatic flight operations in the depicted aerobatic box southeast of the Jean Airport (067), Jean, Nevada is authorized.	
Area of Operation: Aerobatic Box defined by W15°45'00" x W115°19'52", W15°45'11" x W115°19'15", W15°45'01" x W115°19'34", W15°45'20" x W115°20'14" from the surface to 4,700 MSL.	
Communications must be established and maintained on the Jean Airport (067) Common Traffic Advisory Frequency (CTAF) of 122.3 during all flight operations.	
LIST OF APPLICABLE REGULATIONS BY SECTION AND TITLE 14 CFR 91.203(c) (3) (ii), 91.123 (b), 91.119 (c), 91.209 (b)	
STANDARD PROVISIONS	
1. A copy of the application made for this certificate shall be attached to and become a part hereof.	
2. This certificate shall be renewed for inspection upon the request of any authorized representative of the Administrator of the Federal Aviation Administration, or of any State or municipal official charged with the duty of enforcing local laws or regulations.	
3. The holder of this certificate shall be responsible for the strict observance of the terms and provisions contained herein.	
4. This certificate is nontransferable.	
NOTE—This certificate constitutes a waiver of those Federal rules or regulations specifically related to those it does not constitute a waiver of any State law or local ordinance.	
SPECIAL PROVISIONS	
Special Provisions Nos. 1 to 22 inclusive, are set forth on the reverse side hereof.	
This certificate is effective from 10/19/2019 to 11/05/2019 inclusive, and is subject to cancellation at any time upon notice by the Administrator or his authorized representative.	
BY ORDER OF THE ADMINISTRATOR Richard A. Falson Manager, Las Vegas FSDO	

- The ACB that these special provisions pertain to is depicted and described on attachment number 1 to this CoW.
- This CoW is not valid if the in-flight visibility is less than 3 sm or the ceiling, if a ceiling exists, is less than 3,000 feet AGL. Flight operations shall be conducted in accordance with § 91.155.
- The contest director is responsible for ensuring that McCarran Air Traffic Management Unit is notified by telephone TRACON 725-600-7010 or for backup Tower 725-600-7097 at least 30 minutes before operations begin and again when the flight activity has been terminated.
- Before commencing aerobatic flight operations, the contest director is responsible for advising the Lockheed Martin Flight Service Station (AFSS) 1-877-481-6867 of the activity and for requesting that a Notice to Airmen (NOTAM D) including the following information, appropriate to the operation, be issued:
 - The location, dates, and times the aerobatic activity will be in effect.
 - When appropriate, runway(s) that will be closed during the aerobatic activities. (This information must also be included in the traffic advisory to non-participating aircraft.)
- Allowing touch-and-go landings during the times the NOTAM D is in effect must be coordinated and agreed upon by the CoW holder and the airport manager. (This information must also be included in the traffic advisory to non-participating aircraft.)
- All traffic at Jean Airport will use the published traffic pattern when landing on or taking off from Runways 21-20R and 28-20L while the NOTAM D is in effect. (This information must also be included in the traffic advisory.)
- All CoWs granting relief from appropriate sections of part 91 must also contain guidance stipulating that the person(s) responsible for activation of the ACB provides the Lockheed Martin Flight Service Station (AFSS) with a copy of the CoW at least 48 hours before activation of the NOTAM.
- Aerobatics shall only be conducted between the hours of official sunrise and sunset.
- Each aircraft operating within the ACB must be appropriately equipped to maintain continuous radio reception with the chief judge.
- Though permission of the airport management is specifically not required for the CoW, the holder of the CoW should coordinate with the Jean Airport manager for the conduct of aerobatic activities and, in addition, ensure that the airport management fully understands and will abide by the terms and conditions of the CoW. Aerobatics are limited to those aircraft and pilots who are approved by the holder of the CoW or a designated representative. The contest director is responsible for ensuring that:
 - The ACB that these special provisions pertain to is depicted and described on attachment number 1 to this CoW.
 - This CoW is not valid if the in-flight visibility is less than 3 sm or the ceiling, if a ceiling exists, is less than 3,000 feet AGL. Flight operations shall be conducted in accordance with § 91.155.
 - The contest director is responsible for ensuring that McCarran Air Traffic Management Unit is notified by telephone TRACON 725-600-7010 or for backup Tower 725-600-7097 at least 30 minutes before operations begin and again when the flight activity has been terminated.
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 - The location, dates, and times the aerobatic activity will be in effect.
 - When appropriate, runway(s) that will be closed during the aerobatic activities. (This information must also be included in the traffic advisory to non-participating aircraft.)
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 - All traffic at Jean Airport will use the published traffic pattern when landing on or taking off from Runways 21-20R and 28-20L while the NOTAM D is in effect. (This information must also be included in the traffic advisory.)
 - All CoWs granting relief from appropriate sections of part 91 must also contain guidance stipulating that the person(s) responsible for activation of the ACB provides the Lockheed Martin Flight Service Station (AFSS) with a copy of the CoW at least 48 hours before activation of the NOTAM.
 - Aerobatics shall only be conducted between the hours of official sunrise and sunset.
 - Each aircraft operating within the ACB must be appropriately equipped to maintain continuous radio reception with the chief judge.
 - Though permission of the airport management is specifically not required for the CoW, the holder of the CoW should coordinate with the Jean Airport manager for the conduct of aerobatic activities and, in addition, ensure that the airport management fully understands and will abide by the terms and conditions of the CoW. Aerobatics are limited to those aircraft and pilots who are approved by the holder of the CoW or a designated representative. The contest director is responsible for ensuring that:
 - The location, dates, and times the aerobatic activity will be in effect.
 - When appropriate, runway(s) that will be closed during the aerobatic activities. (This information must also be included in the traffic advisory to non-participating aircraft.)

Figure 42 2019 IAC West Open Waiver

8.3 Contest Waiver

The contest waiver will be included in the period of performance outlined in the Practice waiver. If the FAA FSDO needs a separate waiver, it will be modeled off of the 2019 IAC West Open Waiver and as described above.



8.4 ATC

As part of the waiver process, in addition to speaking with FSDO, the WAAC MD and Air Boss will coordinate well ahead of time with TRACON. TRACON was extremely cooperative during the 2019 IAC West open.

8.5 Sky Dive Operations

Jean Airport hosts sky dive activity mostly from tourist visiting Las Vegas. Sky dive operations were active during the 2019 IAC West Open Championship. There was no issues with simultaneous operations as the Jean on airport parachute landing zone is well north and west of the aerobatic box. The jump operations also use a landing zone well south of the airport. When this landing zone is used, the jumpers are recovered by the jump company's ground vehicles and driven back to the jump operations offices.

Jump planes take off and depart from runway 20R – 02L. Similar to other general aviation traffic using the Common Traffic Avoidance Frequency (CTAF), the WAAC 2023 Air Boss will be in contact with the jump plane. Any necessary separation to the aerobatic box will be easily provided.

The WAAC 2023 MD will coordinate with the Sky Dive Operators well ahead of the event to ensure seamless operations.

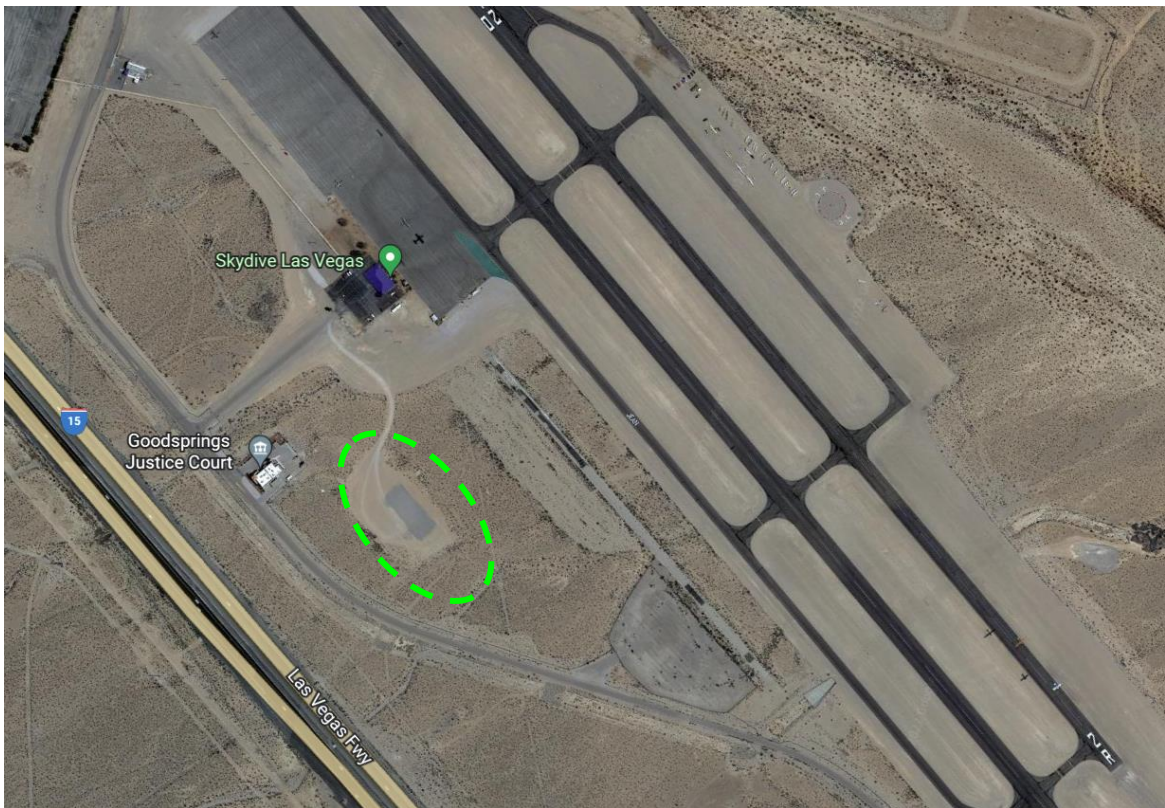


Figure 43 Sky Dive Landing Zone on Jean Airport



8.6 Glider Club

Jean airport is host to a glider club located on the east side of the airfield. The glider club is mostly active during the weekends. They do not soar over the aerobatic box. They primarily use the east runway. Their activity therefore is similar to any other general aviation activity that will be managed from the Chief Judges and Air Boss Station during the event using Jean's CTAF. The glider club takes off with gliders in tow and returns with the gliders off tow. The gliders of course return after their own flights off tow.

Glider operations typically occur off field in the desert. The major activity is the daily outbound launch and return. The Air Boss will be in contact with glider tow planes as required to advise when the box is hot. When the box is hot landings are anticipated to be allowed as the runway and traffic to the runway will not interfere with active box operations.



Figure 44 Jean Glider Club – East Side of Airfield and Runway 20L - 02R

8.7 NOTAMS

The MD, Air Boss, and CD will coordinate ahead of the contest to establish the necessary NOTAM's for the event.



8.8 FSDO

The WAAC MD, Air Boss, and CD will coordinate ahead of the contest with FSDO to establish any special requirements etc. during the event.

8.9 MIDO

The WAAC MD, Air Boss, and CD will coordinate ahead of the contest with FSDO to establish any special requirements etc. during the event.

8.10 IAC

The WAAC 2023 is not a sanctioned IAC event. None-the-less the WAAC 2023 EOT will work very closely with the IAC to keep them advised on a timely basis of all activities and planning.

The IAC host Chapter for the Event is IAC Chapter 12 out of Denver Colorado. The local IAC Chapter 777 will all provide local IAC assistance.

The WAAC 2023 will also work with the local NAC, the National Aeronautic Association (NAA) as required. The NAA is a founding member of the Fédération Aéronautique Internationale (FAI). Founded in 1905, it is the oldest national aviation club in the United States. NAA is “dedicated to the advancement of the art, sport and science of aviation in the United States.”

8.11 CIVA

Since submitting the original bid in Warsaw in November 2018, the MD of the vent has worked very closely with CIVA President Mr. Nick Buckingham. This will continue through the event. We will also work closely with the named International Jury President and ELO once they are named.



9.0 Contest Communications

Contest communications will be managed by the WAAC EOT Director of Communications. They will be in charge of all communications during the event. The Chief Judge and Jury President shall inform the DoC of what needs published and scheduled and they will push it to the event texting system or web site.

The DoC will work with Mr. Bob 'Bwana' Buckley and Mr. DJ Molny of IAC Chapter 12 to develop the methodology where the scores from each competitor get pushed to the CIVA website.

9.1 Daily schedule

9.2 Daily scoring

9.3 Scoring to the CIVA Website

9.4 Daily Schedule posting - all push to the internet

9.5 Daily briefings

It is necessary to ensure that all Teams receive essential information during the event: the time-schedule for the day, flights and briefings delays or rescheduling, the order of flights and the results of flown programs, proposed unknown figures and sequences, the time to submit proposals and for Free Unknowns the choice of the sequence version to be flown by each pilot, and so on. For that purpose several parallel means should be used:

Post boxes at the airfield (contest office) assigned to each team.

Text and e-mail messages to Chiefs of delegations or people appointed by them.

It is current practice to provide a mobile telephone to each Team, the Contest Director, all Jury members and the Chief Judge, and to make a list of their numbers available to all competitors and officials. To facilitate the circulation of contest related text messages, organizers should establish a central information distribution system operated by a nominated IT operator, preferably driven by a simple computer-based texting facility (e.g. Skype, T-Mobile etc.) with receipt groups established to enable targeted messaging.

The times of lunch breaks/end of flying, the number of the pilot last to fly before the lunch break or end of the flying day etc. should be displayed on the information boards and announced by all relevant/available means of communication.

9.6 Bulletin No 1

See Section 6.2 of the CIVA Guide to Aerobatic Championship Organization

9.7 Bulletin No 2

See Section 6.3 of the CIVA Guide to Aerobatic Championship Organization



10.0 Contest Director

Daily Briefing: Before the beginning of competition flying, on each competition day, a briefing will be held for competitors, officials, judges and the International Jury on organizational matters concerning the competition day, on meteorological conditions, etc. The briefing should last no longer than 30 minutes

10.1 Order of Flight

The sequences of flights for Programs 1-4 will be determined in the evening prior to the first day of competition flights, concurrently with the General Briefing

The sequence of sections will follow a varying scheme as follows

	Prog 1	Prog 2	Prog 3	Prog 4
↓ Order of flights	Section A	Section B	Section C	Section D
	Section B	Section C	Section D	Section A
	Section C	Section D	Section A	Section B
	Section D	Section A	Section B	Section C

For each Program (2 to 4), the initial sequence of flights within each section will be subject to a drawing of lots under the same procedure as in Program 1. The sequence of flights for each Program (2 to 4) may then be adjusted by the International Jury as for Program 1 (3.2.1.3), considering the whole sequence regardless.

The CD will ensure that the first two flights of each competition day and each program, will be by Warm-Up pilots. The Contest Director, with the concurrence of the Chief Judge, may delete the second Warm-Up flight

10.2 Wind Measurements

The Contest Director must provide the competitors, the Chief Judge, the Board of Judges and the International Jury with half-hourly information on weather conditions and, at shorter intervals, on wind speed and direction at 300 m and 600 m height if required due to meteorological developments. In addition, the Contest Director must provide the Official Wind Direction, as determined by the International Jury, to the competitors at the beginning of each contest day and anytime that Official Wind Direction is changed.

For International ease of reference: 12 m/s = 26.8 MPH; 8m/s = 17.9 MPH; 6 m/s = 13.4 MPH; 3 m/s = 6.7 MPH)



3.6.2.3. The maximum permissible average wind speed components are:

Altitude	Direction	Maximum permissible
Surface	Any	12 m/s
	Crosswind (reference runway)	6 m/s
	Tailwind (reference runway)	3 m/s
300 m and 600 m	Headwind (reference box main axis)	12 m/s
	Crosswind (reference box main axis)	8 m/s
	Tailwind (reference box main axis)	3 m/s

3.6.2.4. In case the following conditions are fulfilled:

- a) The main axis component of the wind at 300 m or 600 m exceeds 12 m/s, or is close to the 12 m/s limit so that normal flight operations are expected to be significantly disturbed, at the discretion of the International Jury,
 - b) and there is a distinct risk that the contest cannot be validated under the standard wind main axis component limit rule (see above), at the discretion of the International Jury,
- then the International Jury may decide to extend the wind main axis component limit at 300 m and 600 m to 14 m/sec (with the cross axis component limit unchanged) with the following conditions:
- c) Boundary judging is cancelled for the entire Programme (including for pilots having already flown under standard conditions).
 - d) A 20-minute notice is given when changing from the "12 m/sec mode" to the "14 m/sec mode" and vice versa.

Figure 45 CIVA Wind Guidance and Regulations

10.3 Air Boss

The assigned volunteer air boss for the day will be in place to assist the CD as required. The MD will also be at the CD's disposal for duties as required and to use good judgment.

10.4 Ground Boss

The assigned volunteer ground boss for the day will be in place to assist the CD as required. The MD will also be at the CD's disposal for duties as required and to use good judgment.

10.5 Runners

Runners to and from the judges' line to the CD and score's station will be at the discretion of the CD and Chief Judge. The WAAC 2023 intends to use a wireless real time scoring system to send scores into the scoring tent as they are completed. This will be done using an iPad and scoring sheet stand.

10.6 Scoring Director

During the championship itself the Scoring Office must continuously upload all relevant contest and results information using the approved CIVA Scoring Software to the official



<http://www.civa-results.com> website. In addition to data posted by the Scoring Office on the CIVA Results website, the organizer remains free to post unofficial results and other contest related data on his own website and to the media.

10.7 Scoring - Camera System to Home base to Internet

Score Sheet Xmit	AM	PM
Wednesday October 25	Baker	Freeman
Thursday October 26		
Friday October 27		
Saturday October 28		
Sunday October 29		
Monday October 30		
Tuesday October 31		
Wednesday November 1		
Thursday November 2		
Friday November 3		
Saturday November 4		

Table 15 Score Sheet Volunteer Plan

10.8 Clip Board Station in the CD's Tent


The CD tents will have a set of stands or peg boards for each day's clip boards. The clip boards will be printed each night by the air boss and ground boss in concert with the volunteer coordinator. The envisioned clipboards to date are as noted below

- 10.8.1 Fuel Wrangler
- 10.8.2 Radio Wrangler
- 10.8.3 Order of Flight
- 10.8.4 Volunteer Assignments for the day
- 10.8.5 Contact list for the day/event




11.0 Transportation – Ground

The section of the flip book address ground transportation. This will be largely managed by the Director of Transportation.



Transportation



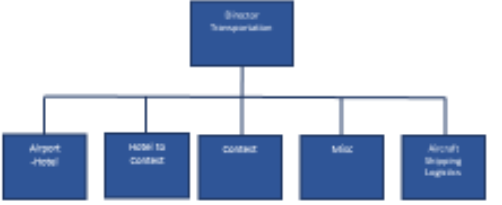
Title: Director of Transportation

Requirements: Must be able to attend contest in 2023 to provide real time support and liaison for the contestants, officials, and their families.

Experience: Prefer experience from event organizing or transportation & logistics industry.

Duties: Provide the overall plan and execution for all transportation inside and outside of the airfield to ensure an outstanding contest experience. Work hand-in-hand with the EOT and very closely with the Hospitality Director and Ground Boss. Responsibilities include

1. Establishing contract(s) as required with transportation suppliers for the contest.
2. Establish driver requirements and insurance requirements to manage risk at the event.
3. Establish and manage to a budget
4. Coordinate with CD/MD and hospitality manager to arrange for requisite transportation to and from LAS airport to contest hotel for officials and judges.
5. Manage with Ground Operations leader the daily schedule for the contest at the hotel, airfield, judge's line etc..
6. Develop vehicle rental plan for on-site operations. Ensure vehicles, vans, trucks, 4 x 4 as required are necessary for use inside the event perimeter to move people around as required.
7. Contract with rental car agency to get a discount rate for the contest to offer to the contestants, officials as required, guests, and families.
8. Develop detailed volunteer staffing plan to drive and assist each day at the contest and as required for practice days.
9. Work with IAC and FAI-CIVA members to leverage previous experiences with aircraft shipping logistics and customs. Attempt to establish preferred rates for overseas containers and customers clearance as well as inland providers for aircraft movement to port of entry to practice or contest airfield.
10. Work with MD & CIVA ELO to identify and secure rates for shipping of aircraft as well as facility coordination at the port, customs, and overland. Teams are responsible for their own execution but this roles is to help liaison.
- 11.Track all vendor billing for authorized charges and report to CFO




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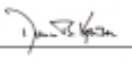
graph TD
    Director[Director Transportation] --> Airport[Airport -Hotel]
    Director --> Hotel[Hotel to contest]
    Director --> Contest[contest]
    Director --> Misc[Misc]
    Director --> Aircraft[Aircraft Shipping Logistics]

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<p>Airport -Hotel</p> <p>Support Hospitality Director with pick up of bill CIVA officials, judges, and Judges assistants as required at airport. Transport to Hotel</p> <p>Repeat for outbound.</p>	<p>Hotel to contest</p> <p>Develop and execute plan for two 15 passenger vans to go back and forth from Hotel to contest as required.</p> <p>Get volunteers to manage and drive the vans.</p>	<p>contest</p> <p>Make sure all Jean trucks, 4 x-4, vans etc. are accounted for and assigned with drivers to execute the contest.</p>	<p>Misc</p> <p>Help as required for various logistics issues such as power, tents, etc.</p> <p>Work with Ground Boss.</p>	<p>Aircraft Shipping Logistics</p> <p>Assist as possible with aircraft shipment & container etc.</p>
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Approved CD: _____

Approved MD: 

2023 WAAC Championship EOT Organization V2

Figure 46 Director of Transportation Job Description

11.1 Rental Cars & Trucks

The WAAC 2023 will rent TBD automobiles for use by the WAAC 2023 volunteers. The reservations will be prearranged and use WAAC 2023 credit cards. Fuel will be paid for with credit cards controlled by the Fuel Wranglers



WAAC	Title	Vehicle	Pick Up Date	Drop Off Date	Days	Budget / Day	Total
Duncan Koerbel	MD	Ford F150	10/19/2023	11/5/2023	16	\$50	\$800
Mr. xyz	Air Boss	Ford F150	10/23/2023	11/4/2023	13	\$50	\$650
Mrs. xyz	Ground Boss	Ford F150	10/23/2023	11/4/2023	13	\$50	\$650
Matty /	Contest Director	Suburban	10/23/2023	11/4/2023	13	\$50	\$650
Ms. ABC	Hospitality Director	Suburban	10/23/2023	11/4/2023	13	\$50	\$650
Total							\$3400

Table 16 Ground Vehicle Rental Matrix



11.2 Rental 4 x 4

The WAAC 2023 will rent three 4x4 all-terrain vehicles to support the event. The vehicles will be managed by the Ground Boss, Transportation, and Hospitality director. The vehicles will only be operated by WAAC 2023 volunteers. Pilots, team members, and guest will be driven in the vehicles as required. They are not for public use.

Keys will be gathered each night and stored in the MD Contest RV. Fueling will be managed by the fuel wranglers.

Title	Vehicle	Pick Up Date	Drop Off Date	Days	Budget / Day	Total
MD	Gator 1	10/19/2023	11/5/2023	16	\$50	\$800
Air Boss	Gator 2	10/23/2023	11/4/2023	12	\$50	\$600
Ground Boss	Gator 3	10/23/2023	11/4/2023	12	\$50	\$600



Total						\$2000
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Figure 47 Typical Utility Gator

Scope is as described. Timing is ~Oct 25-Nov 3. Budget is \$2000

Gator Drivers		AM	PM
Wednesday	October 25	Baker	Freeman
Thursday	October 26		
Friday	October 27		
Saturday	October 28		
Sunday	October 29		
Monday	October 30		
Tuesday	October 31		
Wednesday	November 1		
Thursday	November 2		
Friday	November 3		
Saturday	November 4		

Table 17 Gaator Driver Volunteer Plan

11.3 Rental Bus

The WAAC 2023 will organize two 15 passenger vans to move FAI contest officials and team members without their own cars or rental vehicles between the hotel and airfield.



Figure 48 15 Passenger Van



WAAC 2023 FLIPBOOK



Van Driver Volunteer		AM	PM
Wednesday	October 25	Baker	Freeman
Thursday	October 26		
Friday	October 27		
Pioneer Salon Friday Night			
Saturday	October 28		
Sunday	October 29		
Monday	October 30		
Tuesday	October 31		
Wednesday	November 1		
Thursday	November 2		
Friday	November 3		
Saturday	November 4	DONE – Return Van	DONE – Retrun Van

Scope is as described. Timing is ~Oct 25-Nov 3. Budget is \$3400

11.4 Reserved



12.0 Signage

Signage will be managed by the WAAC 2023 DoC. Signs as required will be developed using the WAAC 2023 brand book and made available the week ahead of the event. See the table below for signage locations and needs.

Location	Sign	Intent	Type	Qty	Budget
Harry Reid Airport	Welcome WAAC 2023 Pilots Sponsored by United	Welcome Guests	Banner 2' x 8'	1	57.25
Residence Inn	Welcome WAAC 2023	1 Welcome Guests	Banner 2' x 6'	1	62.55
Hampton Inn	Welcome WAAC 2023	Welcome Guests	Banner 2' x 6'	1	
Jean Airport Exit I-15	WAAC 2023 Exit 12 Jean Goodsprings	Directions	7.5' Vertical Feather Banner	1	\$100
Jean Airport	WAAC 2023 after Exit 12	Directions	7.5' Vertical Feather Banner	1	\$100
South of Jean Airport	Center Box Exit	Directions	7.5' Vertical Feather Banner	1	\$100
Pioneer Saloon	Welcome WAAC 2023	Directions	7.5' Vertical Feather Banner	1	\$100
Judge Line - East	Turn Here	Directions	4' Vertical Feather Banner	3	\$120
Judge Line - West	Turn Here	Directions	4' Vertical Feather Banner	3	\$120
Judge Line - South	Turn Here	Directions	4' Vertical Feather Banner	3	\$120
CD Tent	Space Reserved for MD	Work Space	3 x11	1	\$5
CD Tent	Space Reserved for CIVA ELO	Work Space	3 x11	1	\$5
CD Tent	Space Reserved for Chief Judge	Work Space	3 x11	1	\$5
CD Tent	Space Reserved for Asst to Chief Judge	Work Space	3 x11	1	\$5
CD Tent	Space Reserved for CD	Work Space	3 x11	1	\$5
CD Tent	Space Reserved for Air Boss	Work Space	3 x11	1	\$5
CD Tent	Space Reserved for Ground Boss	Work Space	3 x11	1	\$5



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CD Tent	Space Reserved for Hospitality Director	Work Space	3 x11	1	\$5
CD Tent	Space Reserved for Director of Communications	Work Space	3 x11	1	\$5
CD Tent	Space Reserved for WAAC EOT Director	Work Space	3 x11	1	\$5
Ramp	Ramp Dance Sponsor 1	10M Box	4' x 4' Sponsor name & Scale Box markings	1	\$150
Ramp	Ramp Dance Sponsor 2				
Ramp	Ramp Dance Sponsor 3				
Ramp	Ramp Dance Sponsor 4				
Ramp	Ramp Dance Sponsor 5				
Vans	Identification Magnetic Shields			2	
Trucks	Identification Magnetic Shields			3	
Gators	Identification Magnetic Shields			3	
	Round Decals for Judge Table				
	Frosted Glass				
	3" round decals				
	6" round decals				

Table 18 Signage

12.1 Banner Example

All banners and signage will developed thirty days ahead of contest.

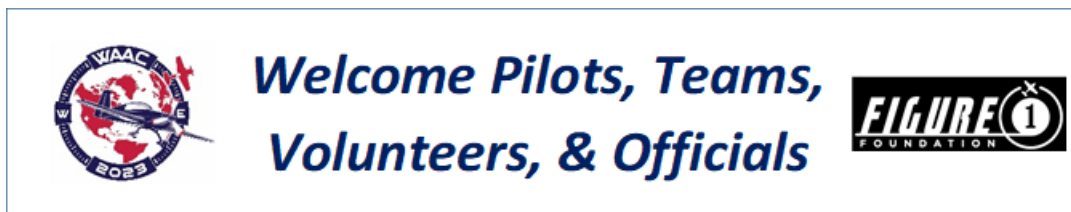


Figure 49 Banner Mock Up – Will Add Sponsors per Agreements



12.2 Vertical Banner Example



Figure 50 Vertical Feather Banner Mock Up

12.3 Ramp Dance



13.0 Hospitality

The WAAC 2023 Hospitality Director will be in charge of all 'guest services' involving food, beverage, and lodging at the airfield and the hotel. The HD will also organize the Opening ceremonies at the airfield on Tuesday 24 October 2023 at 3 PM. The HD will also organize the closing ceremonies and awards in Vegas on Friday night 3 November 2023.

13.1 Lodging

Lodging is covered in detail in section 3.0

13.2 Food and Beverage

Food and beverages are covered in the logistics section 4.0

13.3 Opening Ceremony

The opening ceremony will be held on the Jean Airfield at 3:00 PM Tuesday, October 24, 2023. See Section 5.3 of the CIVA Guide to Aerobatic Championship Organization

13.4 Closing Ceremony

The closing Ceremony and award banquet will be in the Las Vegas strip at a location TBD. See Section 5.4 of the CIVA Guide to Aerobatic Championship Organization

Silent Auction

Awards and Trophies



14.0 Media & PR

The WAAC 2023 Director of Communications will be in charge of all 'communications' external and internal. The DoC will work closely HD and CD for daily announcements.



15.0 Security

Security for the event will be a private contractor to be at the air field during the non-contest hours.

The local Clark County Sheriff was very helpful at the 2019 IAC West open Championship. Duncan contacted local PD and the Nevada Highway patrol in Sept 2022.

Security will be provide on Monday night 23 October through Saturday morning, November 4



16.0 Video

The video operator records every flight from initial entry into the performance zone to the final wing rocks with a stabilized, well exposed and correctly focused image. The CJ will advise the video operator whether recording of Warm-Up flights is required in addition to all of the competition flights.

See section 13.17 of the CIVA Guide to Aerobatic Championship Organization for more details on the requirements



17.0 Medical & Anti-Doping



18.0 Incident Response Plan & Emergency Procedures – Excerpts from 2019 IAC West Open

INCIDENT RESPONSE PLAN



USA WEST OPEN CHAMPIONSHIP

CONTEST LOCATION: Jean (0L7) Nevada

CONTEST DATES: October 18 -20, 2019

PREPARED BY: Duncan Koerbel

Template Courtesy Keith Doyne



An International Aerobatic Club, Inc. Sanctioned Event
A Division of the Experimental Aircraft Association

ICAN 027 Incident Response Plan

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ICAN 027 Incident Response Plan

Page 2

Version 1

Quick Guide – Urgent Actions

Use this list to help ensure that nothing is overlooked in the first few minutes of an incident response. More detailed information is provided on the pages that follow.

Send Help: Chief Judge (or Starter if the Chief cannot be reached)

1. Quickly assess the situation, and then take action.
2. Identify the incident site or sites. Make a rough estimate of the bearing and distance from a well-known point such as the judges' line, ramp, FBO, fuel pumps, etc.
3. Refer to the Terrain Access Diagram to determine the best route to the site(s).
4. Ensure Jean Airport Fire & Rescue (Clark County Fire Station 87) have been dispatched. If additional resources are requested, dispatch on-field resources to the site(s). Use caution when crossing any taxiway or runway, and coordinate with Ground Control if operating at a towered airport.
5. If not done by Jean Fire & Rescue (Clark County Fire Station 87), Contest Director, or Airport Manager, contact municipal emergency responders using 911 for fire, police, and EMT assistance.
6. The Safety Director, Chief Judge, and Starter should communicate with one another as soon as practical to ensure that they are all aware of what's going on.
7. Announce that everyone except rescue personnel should stay well away from the site(s).

Terminate Contest Operations: Chief Judge

1. Recall any aircraft that are airborne and notify pilots of any affected runways.
2. If the incident has compromised airport safety, suggest that pilots consider diverting to another airport. Holding aircraft aloft is not advised due to fuel limitations.
3. Verify Airport Manager is aware of the incident.
4. Notify IAC Headquarters of the incident.

Manage Aircraft on the Ground: Starter

1. Contest Director or Chief Judge will direct aircraft back to the ramp/starting point. Direct any taxiing aircraft to a safe location and have them shut down.
2. Inventory contest aircraft (on the ground and aloft) to ensure they are all accounted for.

Terrain Access Diagram

The pictures below are of Jean Airport area. The circle is illustrative of a 2 nm radius.



The airport is accessed by exiting from Interstate 15 [Exit 12] via Goodsprings Road [Direction East] turning at first intersection South Las Vegas Boulevard [Direction South]. Crash, Fire, and Rescue (CFR) is on the field as noted in the photo below. CFR is Clark County Fire Station 87. Follow yellow arrows to CFR or airport ramp



ICAN 027 Incident Response Plan

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Practice/Registration Period

Gather Participants' Emergency Contact Info

The Contest Entry Form includes a line for emergency contact information. The Registrar should verify that each contestant completes this section.

The Volunteer Coordinator should collect emergency contact information from volunteers that are not competing in the contest.

Practice Sessions

The risks during pre-contest practice are largely the same as competition flying. Therefore, all precautionary measures should be in place for the duration of the practice period. Only pilots who have registered, signed the waiver, and passed the tech inspection should be allowed in the practice in either box.

ICAN 027 Incident Response Plan

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Appendix A Event Budget

Event Budget is fluid. Budget is in a separate excel spreadsheet. Variable inputs are shown below in the planning cell block. Three pages are in the appendix. A-1 is the summary. A-2 Admin Expense. A-3 Operations Expenses. Multiple risk areas exists:

1. Fund raising
2. Sponsors backing out
3. Pilot entrant
4. Unknown expenses: tents, lunch, cars,



WAAC 2023 FLIPBOOK



Admin Expense Summary



WAAC 2023 FLIPBOOK



Operations Expense Summary



Appendix B Master Check Lists

This section will become a master check list by chapter

	Chap. & No	Task	Due Date	Who	Status	Budget If Applicable
1	2.1	Select CD	October 2022	Dunc		Free Lodging
2	2.2	Select Air Boss	October 2022	Dunc		Free Lodging
3	2.3	Select Ground Boss	October 2022	Dunc		Free Lodging
4	2.4	Select Ground Boss	October 2022	Dunc		Free Lodging
5	3.1	Sign Contract with RI Annie Clark	August 2022	Dunc		\$xx,000
6	3.1	Free Wi-Fi		IT Director		0
7	3.3	Breakfast Menu – international flair	June 2023	DoH / F&B		\$0
8	3.4	Dinner Menu				
9	3.4	Get Pioneer Saloon Reserved – 702 674 6809	July 2023	DoH / F&B		\$xx,xxx
10	3.4	Plan a venue for Closing Ceremony				
11	3.4	Roster – Sizing for F&B	1 October 2023	DoH / F&B		.0-
12	3.5	Arrange Lunch Trucks	July 2023	DoH / F&B		
13	3.5	Sign Lunch Truck Contracts	1 August 2023	DoH / F&B		\$xx,xxx
14	3.6	Develop snack budget / stocking plan for 60 people -10 days				
15	3.7	Develop snack budget / stocking plan for 30 people -10 days				
16	4.1	Volunteer to coordinate Table 3	September 2023			
17	4.2	Develop the plan – budget a 15 passenger van				
18	4.3	Staff the judges line drivers – 4 trucks				
19	4.4	Volunteer to coordinate Table 4				
20	4.5	DJ to develop the internet plan, cost, las Vegas provider	Done	DJ	Rent actual equipment	\$400 per DJ – Mesh routers using building wi fi
21	4.7	Rent a big high speed printer/Xerox machine; Get 3 bids and down select. Issue PO				
22	4.8	Source a drone kid for the contest. Can contact the kid from Romania for his device.				
23	4.9	Volunteer to coordinate Table 5				
24	4.9	Plan to order trash cans etc. for the site mx related scope			Include in Las Vegas Events	
25	4.9.5	Check on Jean Dumpster				
26	4.9.6	Rent Porta Potties – 3 bids 10/23 - 11/4; Down select and issue PO				
27		Volunteer to coordinate Table 6				



WAAC 2023 FLIPBOOK



	Chap. & No	Task	Due Date	Who	Status	Budget If Applicable
28	4.10	Dunc to figure out who does scoring and Acro				
29	5.1	Tarps will be made by zip tying togete 6 x 8 individual tarps.	Done	Dunc	Purchase	\$400
30	5.1	Volunteer to coordinate Table 7				
31	5.2	Design PIB and get it built				
32	5.2	Volunteer to coordinate Table 8				
33	5.3	Tent budget Dunc				
34	5.3	Tent layout – furniture				
35	5.3	Tent layout - ramp				
36	5.4	Get Generator plan together				
37	5.4	With 5.3 done, nail down power cords and power strips				
38	5.5	Get 3 RV bids or Mark King.				
39	5.6	Pres scout the judges lines in June 2023-				
40	5.6	Order Judges chairs – 3 bids				
41	5.7	Rent audio system that can play music and have microphone			Las Vegas Events	
42	5.8	Go Truck daily plan Add a table				
	5.9	Get Silicone Wrist Bands				
43	6.1	Get shell to donate fuel				
44	6.1	Get lime shirts for fuel wranglers				
45	6.1	Get Fuel wrangler debit cards		Dunc		
46	6.1	Get Fuel wrangle clip boards - Entrants				
47	6.1	Develop Fuel Wrangler Volunteer table and staff				
48	6.2	Get pledge agreement signed for Shell				
49	6.2	Ship 240 quarts to Jean or Mesa				
50	8.1	Get Flip book to Bruce				
51	8.1	Get Event Permit				
52	8.1	Get Insurance requirement				
53	8.1	Get Insurance				
54	8.2	Apply for contest waiver				
55	8.4	Loop in tracon				
56	8.5	Call Sky Divers – Go Jump Las Vegas Mike Mezei 949-514-7870 and Sin City Sky Diving Brett Buckner 702-807-7764				
57	8.6	Call Glider Club – DBK name and phone				



WAAC 2023 FLIPBOOK



	Chap. & No	Task	Due Date	Who	Status	Budget If Applicable
58	8.11	Copy of Flip Book to Nick in Sept	15 Sept	Dunc	Sent	Follow up in KSLN
59	9.0	Get Comms Director				
60	9.1	Develop a detail daily schedule – check list				
61	9.2	Get IAC iPad for scoring				
62	9.3	Work with Nick to figure out how we Pushto CIVA website	5 Oct -2022	Dunc	Acro software pushes to the website automatically	\$0.00
63	9.6	Publish Bulletins 1 Draft for CIVA Nov meeting				
64		Publish Bulletin 2				
65	10.8	See also 9.2. Get Scoring volunteer table				
66	11.0	Select transportation director				
67	11.1	Get rental budge squared away for cars and trucks; Get 3 quotes for gators and down select, issue PO				
68	11.2	Get 3 quotes for gators and down select, issue PO				
69	11.3	Rental Vans				
70	12.0	Get the signs all figured out – visit with Orso and Fst Signs				
71	12.1	Get as sign provider				
72	13.3	Open ceremony plan				
73	13.3	Fly Over – Matty & USAF				
74	13.4	Closing Ceremony Plan / Budget				
75	13.4	Closing Ceremony Venue				
76	14	media				
77	15	Security contract – 3 bidders; Down select, Issue pO; Include in Las Vegas Entertainment contract?			Include in the Las Vegas Event budget	
78	16	Hire the video -0 grapher		Dunc	Forrest Fox has agrred to come	
79	17	Get anti-doping plan figured out. Who pays for this			Nick Buckingham reports that the Chief Judge will contact doping people. They	



WAAC 2023 FLIPBOOK




	Chap. & No	Task	Due Date	Who	Status	Budget If Applicable
					run their own show and are self funded	
80	18	Socialize flip book and Emergency response plan with Sheriff Fire department.				
81	A	Budget				
82	B					
83	C	Develop the table for attends and volunteers				
84	D	Staff				
E85	E	Slice Wx				
86	F	Bling and brand book				
87		Chocks				
88		Flight suite for USA team	30 Sept 2022	Dunc	Done – shirts provided.	
89		Banner of Nationals	30 Sept	Dunc	Done	\$250
90		Parking spots				
91		Documentary				
92		Frosted Glass emblem – Sam’s table				
93		Coolers Igloo 7 each IMX 70 Qt Cooler - \$259 White: 5 tents and 2-judges line; IMX 24 qt cooler - \$119.00; Starter, CD Tent & Judges line 4 each; 5 water jugs for tents an one for judges line				
94		Water Bottle				
95		Hats				
		Poker chips for order of flight drawings				




Appendix C Volunteer Rosters



Appendix D Other Job Descriptions



Hospitality Food & Beverage



Director
Food & Beverage

<div style="background-color: #0056b3; color: white; padding: 5px; width: fit-content; margin: 0 auto;">Hotel F&B</div> <p style="font-size: small;">Develop plan for breakfast & dinner at hotel</p>	<div style="background-color: #0056b3; color: white; padding: 5px; width: fit-content; margin: 0 auto;">Contest site F&B</div> <p style="font-size: small;">Develop and execute plan for on site F&B that is provide as part of entry fee & delegates.</p> <p style="font-size: small;">Food trucks for lunch.</p> <p style="font-size: small;">Wristbands for ID.</p> <p style="font-size: small;">All site beverages and snacks.</p> <p style="font-size: small;">Happy hours at the airfield</p>	<div style="background-color: #0056b3; color: white; padding: 5px; width: fit-content; margin: 0 auto;">Contest site concessions</div> <p style="font-size: small;">Develop and execute plan to provide & sell F&B to all public personnel during the contest</p>	<div style="background-color: #0056b3; color: white; padding: 5px; width: fit-content; margin: 0 auto;">Opening & Closing Ceremony and Banquet</div> <p style="font-size: small;">Work closely with Hospitality manager and MD to develop and execute F&B as required for the opening ceremony – minimal.</p> <p style="font-size: small;">Plan a great closing party in Las Vegas. Venue, entertainment, silent auction, awards</p>
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Title: Director of Food & Beverage

Requirements: Must be able to attend contest in 2023 to provide real time support and liaison for the contestants, officials, and their families.

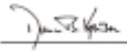
Experience: Prefer experience from event organizing or hospitality industry.

Duties: Provide the overall plan and execution for all F&B inside and outside of the airfield to ensure an outstanding contest experience. Work hand-in-hand with the Event team and very closely with the hospitality director. Responsibilities include

1. Establishing contract(s) as required with F&B suppliers for the contest.
2. Establish and manage to a budget
3. Manage menu development for contest as well as practice days.
4. Manage with Hospitality & Ground Operations leader the daily schedule for the contest at the hotel, airfield, judge’s line etc..
5. Develop volunteer staffing plan to help with F&B to reduce costs and ensure adequate resources are available each day to support he contest. Examples are beverage replenishment on the judges line, pilots water and drinks, happy hours, reception at the hotel, banquet prep and tear down
6. Plan all concession arraignments for the contest such that proceeds from public sales are maximized
7. Help in organize opening and closing ceremony/banquet at the hotel with hospitality manager
8. Track central billing at the hotel and all vendor billing for authorized charges and report to CFO



Approved CD: _____

Approved MD: 

2023 WAAC Championship EOT Organization V2

Figure 51 Food and Beverage Job Description





Communications, Marketing & PR




Title: Director of Communications, Marketing & Public Relations

Requirements: Desirable to attend contest in 2023 to provide real time support and liaison for the contestants, officials, and their families.

Experience: Prefer experience from a marketing and public relations firm or a marketing and public relations role inside of a large company. Must have worked with print and web media. International experience is a plus. Experience in social media is a plus.


Duties: Work closely with the MD and CD to create the overall marketing and public relations plan for the event. Plan needs to include a detailed budget. Make sure all facets of the plan are executed. Work closely with IAC, FAI-CIVA, and event sponsors. Responsibilities include

1. Coordinate the plan for all marketing, branding, social media, legacy media, collateral, public relations, apparel, printing, and local convention bureau/chamber of commerce
2. Where necessary establishing contract(s) as required with providers in lieu of simple Purchase Orders(PO).
3. Establish and manage to a budget
4. Coordinate with all members of the EOT to insure their requirements are understood as the plan gets developed.
5. Arrange for all material, press releases, news release, news coverage, event collateral gets produced, edited and approved for release/distributing. Distribution and approval process needs to be developed – keep it simple but keep it under control.
6. Develop branding as part of the overall plan including the logos to for WAAC 2023.
7. Overall plan needs to layout the approach to social media.
8. Plan needs to make sure that the necessary volunteer support is identified and closely manage with EOT Volunteer Coordinator.
9. Track all vendor billing for authorized charges and report to CFO



2023 WAAC Championship EOT Organization V2

Approved CO: _____

Approved MO: 

5

71Figure 52 Communications, Marketing, PR Job Description



IT

Title: Director of information Technology

Requirements: Desirable to attend contest in 2022 to provide real time support and liaison for the contestants, officials, and their families. If the contest cannot be attend, send deputy and be available for support

Experience: Must have demonstrated performance in and IT role in a privately, held, public or self-founded firm. Experience with running a large event is preferred.

Duties: Create the overall IT plan for the event. Plan needs to include a detailed budget. Make sure all facets of the plan are executed. Work closely with IAC, FAI-CIVA, and event sponsors to pull together input such that IT becomes the hub of coordination.




1. Develop plan for all IT facets. Plan will address items below.
2. Where necessary establishing contract(s) as required with providers in lieu of simple Purchase Orders(PO).
3. Establish and manage to a budget
4. Develop WAAC 2023 website
5. Develop WAAC 2023 Event Organizing Team e-mail network
6. Work closely with FAI-CIVA and IAC officials to link material as required
7. Develop the IT plan for the site at the airport to insure equipment is rented installed, and set up as required to provide excellent network. Include requisite scanning, printing, projection, display screen, and audio equipment for the event.
8. It would be cool to have a realtime display(s) for viewing scores, schedules winds, weather, etc. at the event.
9. Coordinate with scoring officials and work to establish a robust scoring platform at he event. Robustness should include ease of use such that score can be update often – almost in real time during the event. Consider creating a system such that the last days results are held for the banquet to announce the winner.
10. Develop staffing plan for sharing with the VC during the event to insure seamless 10 day coverage.
11. Support closely the marketing and public relations director to leverage the event per their plans.
12. Be aware of international requirement the web page the 'go to source' of information.
13. Track all vendor billing for authorized charges and report to CFO

Approved by: _____
 approved by:




Figure 53 Director of IT Job Description





CFO



CTVA
Event Liaison Officer

Duncan Koebel
2022 WAAC
Managing Director

TBA Contest CD	TBA Air Boss	TBA Ground Boss	TBA Volunteer Coordinator	TBA Hospitality	TBA Transportation & Logistics	TBA Comms, Marketing & PR	DJ Moley IT - Website - Scoring	Chris Leach General Counsel	Duncan Koebel CFO & Fund Raising
Runs the Contest in 2023 & Primary Interface with Chief Judge, Jury President and Event MD	Develops all air space operations and coordination with PSDO, Icar, FAI	All Operations inside the Contest Perimeter	Coordinate all volunteers during the 11 day event and as required for practice days ahead of the event	Hotel & other accommodations for all contestants, officials, family, FAI for all venues during the event & ceremonies	Coordinate all ground transportation for the event inside and outside the contest perimeter Assist in Global Logistics and shipping	Support all event marketing and Public Relations with CIVA, IAC, Sponsors, Local Venues, Local Officials, Public Relations & Media	Establish and maintain Website for the event & Supervise Scoring Systems and Contest IT requirements	Provide 360° legal services for event: Up to FAI; Lateral to IAC; Down to Contest particulars as required	Responsible for budgeting, fiscal mgmt, and fund raising to ensure a well executed and profitable contest

Assist with Budgeting and Financial Mgmt. for All EOT Positions


Title: CFO

Requirements: Not necessary to attend contest in 2022. Provide financial guidance to the event. Support all EOT members in developing a budget that is in sync with entre fee forecast and fund raising targets.

Experience: Must have demonstrated performance in budgeting and running events or programs. .

Duties: Provide support to the event and members of the Event Organizational Team (EOT) as required.

1. Develop overall budget for refinement and coordination with EOT
2. Develop fund raising plan
3. Develop plan to insure that budgets are followed and request for deviations are coordinated and managed to mitigate financial exposure and risk to the event
4. Draft fund raising agreements in concert with General Counsel
5. Other duties as required – use good judgment.
6. Ensure compliance with 503 c regulations



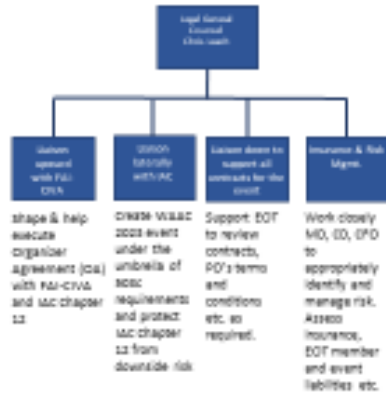
2023 WAAC Championship EOT Organization V2

12

Figure 54 CFO Job Description



Legal



shape & help execute organizer agreement (OA) with FAI-CIVA and IAC chapter 12

CREATE WAAC 2023 event under the umbrella of NSBC requirements and protect IAC chapter 12 from downside risk

Support EOT to review contracts, PO's terms and conditions etc. as required.

Work closely MO, CO, EPO to appropriately identify and manage risk. Assess insurance, EOT member and event liabilities etc.

Title: General Counsel

Requirements: Not necessary to attend contest in 2023. Provide legal support as required to manage risk.

Experience: Must have demonstrated performance as General Counsel and licensed to practice law in Colorado.

Duties: Provide pro bono support to the event and members of the Event Organizational Team (EOT).

1. Help structure Organizer Agreement (OA) to accommodate needs of FAI-CIVA and IAC Chapter 12 as 503 c organization. Need to develop down side risk mitigation.
2. Review any contracts as required in the run up to the event
3. Review insurance requirements and work with IAC board to develop rider to current policy to accommodate 2023 WAAC.
4. Give advice as required to EOT members.
5. Provide any disclaimers as required.



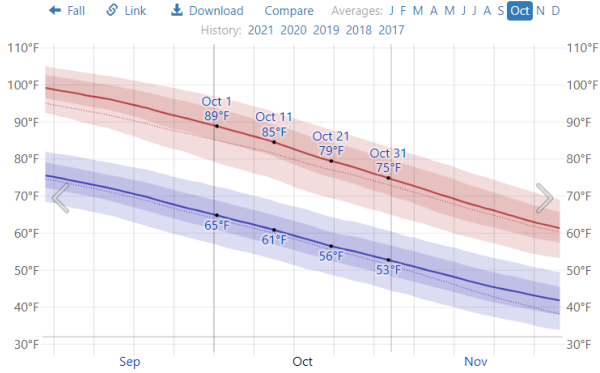
Approved CO: _____

Approved MO: *[Signature]*



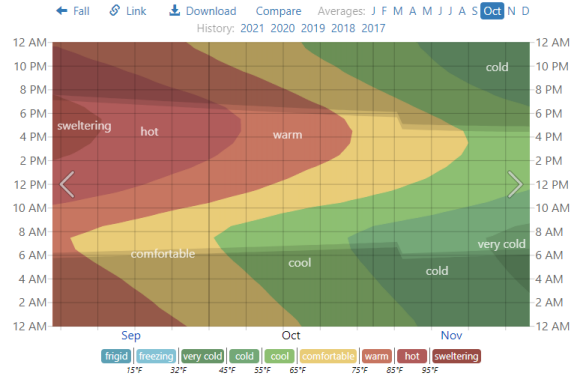
Appendix E Las Vegas Weather

Average High and Low Temperature in October in Las Vegas



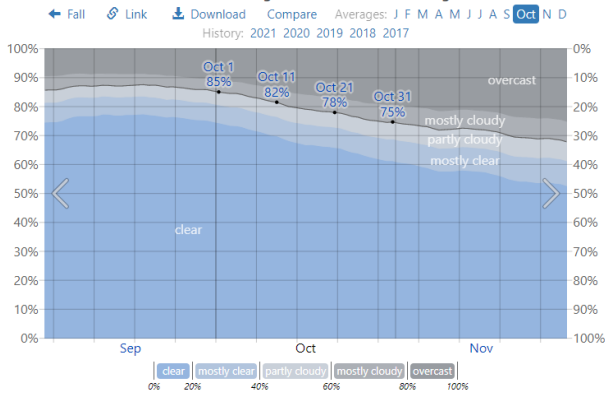
The daily average high (red line) and low (blue line) temperature, with 25th to 75th and 10th to 90th percentile bands. The thin dotted lines are the corresponding average perceived temperatures.

Average Hourly Temperature in October in Las Vegas



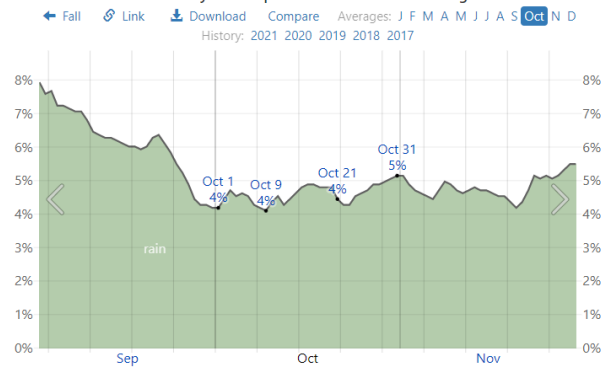
The average hourly temperature, color coded into bands. The shaded overlays indicate night and civil twilight.

Cloud Cover Categories in October in Las Vegas

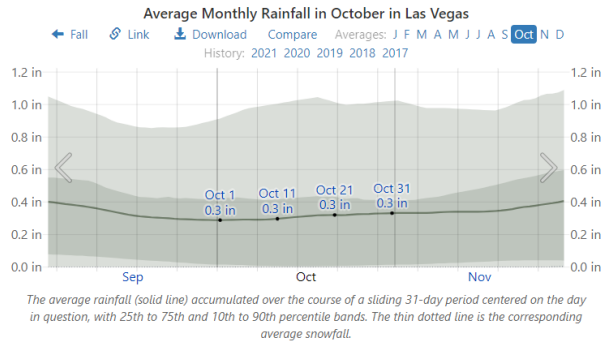


The percentage of time spent in each cloud cover band, categorized by the percentage of the sky covered by clouds.

Probability of Precipitation in October in Las Vegas



The percentage of days in which various types of precipitation are observed, excluding trace quantities: rain alone, snow alone, and mixed (both rain and snow fell in the same day).

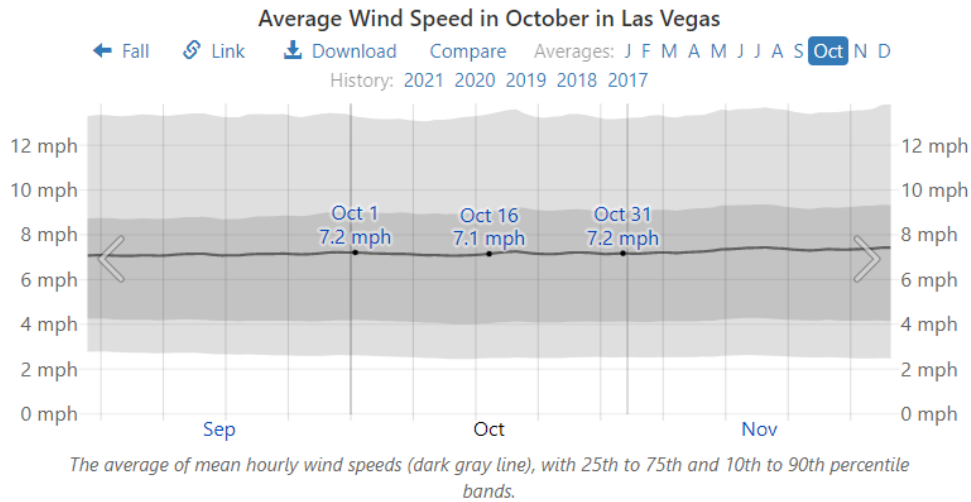


Wind

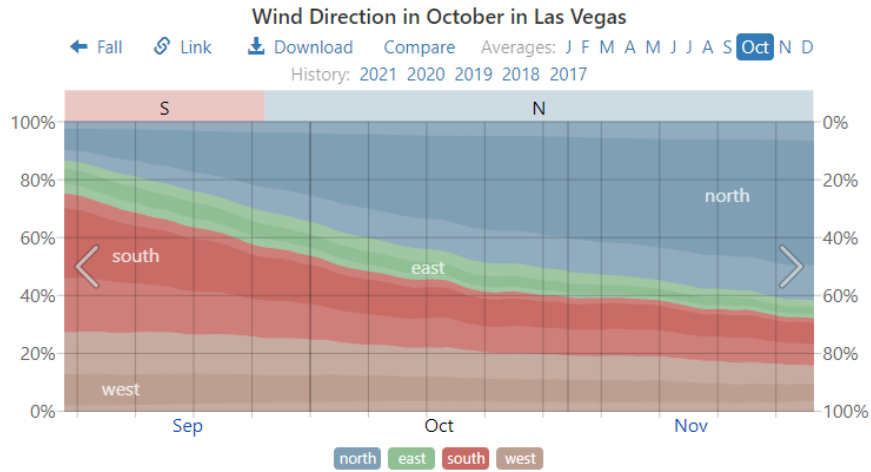
This section discusses the wide-area hourly average wind vector (speed and direction) at 10 meters above the ground. The wind experienced at any given location is highly dependent on local topography and other factors, and instantaneous wind speed and direction vary more widely than hourly averages.

The average hourly wind speed in Las Vegas is essentially constant during October, remaining within 0.1 miles per hour of 7.2 miles per hour throughout.

For reference, on April 26, the windiest day of the year, the daily average wind speed is 9.2 miles per hour, while on August 28, the calmest day of the year, the daily average wind speed is 7.0 miles per hour.



The hourly average wind direction in Las Vegas throughout October is predominantly from the north, with a peak proportion of 51% on October 31.



The percentage of hours in which the mean wind direction is from each of the four cardinal wind directions, excluding hours in which the mean wind speed is less than 1.0 mph. The lightly tinted areas at the boundaries are the percentage of hours spent in the implied intermediate directions (northeast, southeast, southwest, and northwest).

<https://weatherspark.com/m/2228/10/Average-Weather-in-October-in-Las-Vegas-Nevada-United-States#Figures-Temperature>



WAAC 2023 FLIPBOOK



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