

Range Officer

Suggested Manpower: 23-29 for Individual Matches, 22-25 for Team Matches

- Individual Matches: 3 Main Tower, 15-20 Safeties, 3 Sub Towers, 2-3 Target Runners (with ATVs)
- Team Matches: 4 Main Tower, 6 Sub Towers (2 each), 7 Consoles, 2 Target Runners, 3-6 Backup Line Judges/timers
- Range changeovers and cleanup: All Hands

The Range Officer is either directly or indirectly responsible for all functions performed on the Main Range. The Ordnance Officer, Range Support Officer, and Chief Announcer all report directly to the Range Officer, but you must also work with other Staff Officers (Logistics, Individual Match, and Artillery) to ensure all main range tasks are performed properly and on time. The Range Officer must always maintain total control of the Main Range; therefore, be sure that you have read and understand the following Officers' job descriptions and duties: Range Support Officer, Chief Announcer, Individual Match Officer, Logistics, Ordnance, and Artillery.

To facilitate duties, it is highly recommended that the Range Officer bring/obtain an ATV/4-wheeler for use on the range.

The Range Officer must ensure the following tasks are performed:

- ☑ Coordinate with Logistics to ensure target frames are constructed properly and delivered to the Main Range when needed.
- ☑ Remove all old frames from the range and stack them at the far left of the range to be used for Artillery and Revolver.
- ☑ Ensure all frame upright holes are clean of debris and ready for new frames. Use a story pole (you may have to make one) to ensure even depth and adjust holes after frame insertion if needed. This must be completed at:
 - 25 / 50 / 100 yards for the entire range
 - all BB gun holes (25' at positions 53-59)
 - all Artillery frames (at an angle starting around position 2 and going diagonally toward the backstop), and
 - all safety line holes (starting around position 20 and extending diagonally down the range in front of the main tower)

Note: Between position 52 and 53 at the 100-yard line, there is a 30ft. space to accommodate the curvature of the range.
- ☑ Work with the Artillery Officer to ensure:
 - the Artillery frame upright and safety line holes are clear,
 - the upright and safety line hole locations have been marked with paint for ease of locating,
 - the frame position numbers and firing line position numbers have been marked on the ground, and
 - the safety rope is located in the base of the Main Tower.
- ☑ Ensure the frame position plates are visible at each position at 25 / 50 / 100 yards and Artillery.
- ☑ Coordinate with the Property Manager to ensure the 25 / 50 / 100-yard lines are mowed before placing any new frames on the range.

- ☐ Install new frames on the Main Range per layout provided [below](#). Communicate with the National Range Officer to determine if any changes to the layout have been suggested based on previous Nationals.
- ☐ Ensure 3 extra frames are positioned at each Sub Tower and at the base of the Main Tower – 12 total.
- ☐ Ensure frame position markers are installed on each frame at the correct location – use the National markers, not the older Regional markers; both should be in the base of the main tower.
- ☐ Ensure the firing line position markers are installed properly – should be hanging in the base of the main tower.
- ☐ Trim grass around the towers, firearm stands, position markers on the firing line and frame locations, and along the safety fence.
- ☐ Ensure the consoles are delivered and positioned per the layout provided [below](#). Make sure the ready area has been mowed before placing, or place them on the gravel road so as to be out of the way.
- ☐ Main Tower tasks:
 - Clean the windows in the Main Tower.
 - Ensure the Main Tower audio system functions properly and is ready to use; this includes the ground system used for opening ceremonies. If there are any issues, contact the National Signal Officer.
 - Ensure that Main Tower Announcer/Staff brought binoculars/optics for scanning the range during matches.
 - Ensure the Tower and Sub Tower Staff have reviewed the Communications Manual and that there is a backup method of communication (cell phones are easiest) if radios are not working properly.
 - Suggest to the Skirmish Director that disposable air horns be purchased from a local automotive shop for use as a backup signal system on the ranges.
- ☐ Work with the Logistics Officer to ensure that the trash containers are positioned at each range entrance and bagged. Make sure the area has been mowed and trimmed before placing. If rain is in the forecast, containers should be placed upside down and bagged later.
- ☐ Ensure enough Safety flags for all positions and Sub Towers are in the base of the Main Tower – staff should pick up a flag and radio each morning at the base of the main tower and return them when the range has closed:
 - The Main Tower should get the largest flag – this should be picked up at the base of the main tower each morning, along with a radio
 - The Sub Towers should get the three next largest flags – these should be picked up at the base of the main tower each morning, along with a radio for each Sub Tower to be manned that day
 - During Individual Matches, Safeties should pick up a Safety flag each morning at the base of the main tower when they report for duty
 - During Team Matches, Safety flags should be placed each morning at the positions to be used that day. Note that Smoothbore and Single Shot/Repeater/Spencer matches may require two (2) Safety flags for each position – **be sure there are at least 80 flags.**
- ☐ Work with the Ordnance Officer to ensure his/her crew has all equipment needed positioned in the base of the Main Tower. Ensure Ordnance crew understands that they need to assist with Safety duties and pulling of individual targets.

Daily Tasks:

2/23/2022

- ☐ Ensure that all 3 flags are ready to be raised in Memorial Park. This must be performed each morning. Flags are housed in the Stat House.
- ☐ Ensure the Main Range Hot flag is ready. This must be raised each morning. This flag is housed in the box on the side of the Main Tower toward the Stat House.

Trainings/Meetings

The Range Officer must ensure that *all Range Staff* attend the range trainings on Wednesday morning. These meetings are mandatory and are conducted by National Staff Officers. The Range Officer must work with the National Program Chair(s) to conduct the training of the Main Tower and Sub Tower Staff prior to the range opening Wednesday morning. The Range Officer must also organize/conduct any additional meetings; these could include personal meetings regarding range situations and meetings for late-arriving personnel. **All Range Staff must be trained before working on the range.**

The Range Officer must work with and oversee the Main Tower Staff to ascertain the readiness of the range and also to maintain control of the Main Range at all times. Each day, after collectively agreeing that everything is in place, all staff is ready and in position, and no safety conditions are present, the control of the Main Range can be turned over to the Main Range Tower Staff for operation. After turning over control of the range, it is the responsibility of the Range Officer to oversee the Main Tower and Sub Towers to ensure proper and safe conditions are maintained at all times. The Range Officer must ensure that the Main Tower Staff and the Sub Tower Staff are trained and understand the flagging and communication processes to be used. This also includes a backup plan in the event of power failure or mechanical breakdown. It is the responsibility of the Range Officer to ensure that the Main Tower Staff follows all procedures and that the National Scripts are followed without deviation. The only deviations from the scripts should be for an emergency or to keep the competitors moving at an adequate pace. **Main Tower Staff should review the Communications Manual to determine how to reach the Provost channel to call EMS in the event of an emergency.**

The Range Officer must work with the Ordnance Officer to ensure that the Ordnance Crew is ready at all times and performs their duties in a safe and timely manner. Ensure that Ordnance vehicles are positioned to efficiently reach their designated portions of the range, and that both Ordnance Staff and the Main Tower/Sub Tower Staff all understand what is to be done with fouled firearms that cannot be cleared on the line—to which end of the range will they be traveling? **Main Tower Staff should review the Communications Manual to determine how to reach the Ordnance crew to dispatch personnel/vehicles when needed.**

Individual/Team Matches

During Individual Matches, the number of frames used may need to be adjusted or repaired. Work with the Individual Match Officer, Range Support Officer and Logistics Officer to accomplish this. The Range Officer must also oversee the duties of Safety Officers, individual target removal and delivery to the Stat House, Line Judges,

During Team Matches, the Range Officer must oversee target delivery/pick up, the duties of console workers, and the delivery of scorecards to the Stat House. It is the Range Officer who must coordinate with different Staff Officers to ensure these activities go smoothly.

- ☐ **Note:** The Individual Match Officer and Line Judges work directly for the National Statistics Officer. The Range Officer must assist if needed with issues, but all directives to this staff come directly from the Stat House.

Range Changeovers

It is the responsibility of the Range Officer to be prepared well in advance and oversee all range changeovers. Ensure that all Staff Officers involved with the change are also prepared. Range changeovers require all hands available, but a plan is necessary to be efficient and effective so that all events start on time. Coordinate with all Staff Officers and oversee the overall operation to ensure these changeovers are performed correctly and in a timely manner.

The Range Officer must maintain total control of the range at all times unless control is turned over to another Staff Officer, which may be done for the Artillery Matches. The Artillery Officer may be given control of the range and the Artillery Crew may run the tower operations. This can only happen if the Skirmish Director has approved the change of control, and instructions from the Range Officer and training by the Main Tower Staff has occurred.

Range Cleanup

It is the Responsibility of the Range Officer to oversee all cleanup of the Main Range at the conclusion of the Skirmish. All Skirmish Staff not assigned to other tasks should report to the Range Officer for duty assignments. All personnel should get approval from the Adjutant or Skirmish Director before leaving duty.

The Range Officer's report should include a list of Main Tower Staff for each day, a summary of all activities, any problems encountered, along with any resolution to those problems; also include any suggestions for future Range Officers.

Range Officer's Schedule

Prior to Nationals

- ☐ Contact Main Tower Announcer and/or Main Tower Staff to ensure they bring binoculars or other optics to watch the line (minimum of 2 optics are required)
- ☐ Contact Range Support and Individual Match Officers to coordinate Range Staffing
- ☐ Contact National Range Officer to determine any changes to suggested Range layout

Saturday – Sunday

- ☐ Coordinate with all Staff Officers concerning the tasks of the weekend
- ☐ Coordinate with the Adjutant if keys to the base of the Tower are needed or if someone else will open it each morning
- ☐ Conduct and oversee the Main Range setup – consult National Range Officer, if needed
- ☐ Coordinate with the Revolver Officer regarding the need for used frames
- ☐ Coordinate with the Artillery Officer regarding setup of the Artillery Range
- ☐ Coordinate with Logistics Officer regarding transportation / manpower
- ☐ Work with Main Range Tower Staff to get tower ready

Monday – Tuesday

- ☐ Complete any tasks not completed from the weekend
- ☐ Perform a check of the Main Range to ensure everything is ready
- ☐ Meet with all Staff Officers to ensure everything is ready

Wednesday – Sunday

- ☐ Ensure that all 3 flags are ready to be raised in Memorial Park. This must be performed each morning. Flags are housed in the Stat House or check with the Executive Secretary.
- ☐ Ensure the Main Range Hot flag is ready. This must be raised each morning. This flag is housed in the box on the side of the Main Tower toward the Stat House.
- ☐ Get radios for the Range Staff from the Adjutant and review the Communications Manual – Range operations will be on Channel 1
- ☐ Attend Wednesday morning Range Safety Training
- ☐ Meet with Main Range Tower/Sub Tower Staff and conduct meeting for standards of operation
- ☐ Conduct any additional meetings required
- ☐ Oversee all operations on the Main Range

Sunday Only

- ☐ Oversee cleanup of Main Range
- ☐ Ensure Main Tower keys are turned in to Adjutant
- ☐ Ensure all Range Staff radios are turned in to Adjutant

Range Support Officer

Suggested Manpower: See Range Officer [above](#)

The Range Support Officer has a primary responsibility of scheduling and supervising the Safeties, Sub Tower personnel, and console operators. The Range Support Officer has a secondary responsibility of supporting the Range Officer, Artillery Officer and Logistics Officer with manpower when needed. These times will include but not be limited to: prep work, range changeovers, and unforeseen problems that might occur during the skirmish. To facilitate duties, it is highly recommended that the Range Support Officer bring/obtain an ATV/4-wheeler for use on the range.

The Range Support Officer must ensure the following tasks are performed:

- ☐ The Range Support Officer should contact Commanders of host teams several months to determine staff capabilities – e.g., any physical/medical limitations that would restrict a Safety's ability to walk to the 100-yard line or be outside for long periods of time.
- ☐ Construct a schedule containing enough manpower to cover the Safety duties for all Individual Matches conducted on the main range.
 - This schedule should contain a relief rotation for lunches and breaks.
 - The minimum number of Safeties required is listed on the range layout [below](#).
 - During heavy range, more than the minimum may be required.
 - Ensure the Ordnance and Line Judges are helping with Safety duty.
 - If more manpower is needed, contact the Adjutant.
- ☐ Ensure that all Safeties, along with anyone who might help with Safety duty, attend the Safety Training on Wednesday morning at the Main Tower on the Main Range. It is the responsibility of the Range Support Officer to train any person who does not attend this meeting before placing them on the line for Safety duty. This includes Safety staff and anyone on loan from another staff. This is not a job to be taken lightly and must be performed correctly.
Important points for Safeties to remember:
 - Never approach a competitor while shooting unless an emergency occurs.
 - It is not the Safeties' duty to act on Skirmish Rules violations not involving safety.
 - Any issue that isn't safety-related should be referred to a Line Judge or Range/Range Support Officer.
- ☐ It is the responsibility of the Range Support Officer to ensure that the Safety staff understand the procedures involved with clearing all firearms used on the main range. Ensure that if a member of the staff has a question on the line, they ask for help.
- ☐ Ensure that all shot targets are removed in a timely manner so the next relay can start on time. This will become more important later in the week.
 - Note: Make sure all Range Staff have staple pulling tools – in pre-National communications, suggest Range Staff bring small screwdrivers or staple-pullers from home
 - Note: Make sure any competitor with a questionable target is referred to a Line Judge.
 - Note: Make sure Ordnance and Line Judges who are not busy help pull targets.

Sub Tower Staff

The Range Support Officer must ensure that the left and middle Sub Towers are staffed with at least one person at all times during Individual Matches. The far-right Sub Tower will only need to be staffed if frames are put up past position 47. This does not occur very often but must be planned for.

- ☐ Note: Each Sub Tower must be staffed with **2 persons during all Team Matches**.

The Range Support Officer must ensure that all Sub Tower Staff understand precisely what their task is and perform their duties with great detail to attention. Specifically, make sure they understand the following:

- ☐ When to display a green flag – when the range is clear and no safety/fouled firearms issues are present on the range
- ☐ When to display a red flag – when the range is not clear due to a safety issue, including a fouled firearm on the range
- ☐ What to look for at all times
- ☐ How to communicate with the Main Tower Staff – Communications Manual should be reviewed with all Tower Staff
- ☐ What the backup communication plan is – cell phone information should be shared among staff
- ☐ Process for contacting Ordnance crew to remove fouled firearms from the range – which direction will vehicles go/when can green flags be shown, etc.

Consoles

The Range Support Officer must ensure that all consoles are staffed during all team matches. While Mortar and Artillery do not require consoles, Mortar and Artillery console cards may need to be retrieved from the Stat House and brought to the range.

Target Runners

The Range Support Officer must ensure that transportation is provided to pick up and deliver shot targets and scorecards to the Stat House. This needs to be planned so that at least 2 workers with ATVs/UTVs are on the Range Support Staff for both Individual and Team Matches.

General Range Support

The Range Support Officer must schedule and ensure that the entire Range Support Staff is on hand for support of all Team Matches, unless released from duty by the Adjutant or Skirmish Director.

- ☐ Artillery changeover on Friday and Saturday is all-hands required
- ☐ Target delivery / Shot target pickup – the more the better to assist the Logistics crew
- ☐ Final clean up on Sunday is all-hands required – consult with Adjutant and Skirmish Director on Saturday to ensure there will be enough staff to make for an efficient clean up on Sunday afternoon (read: don't let them send too many people home early or the burden is on the few.)

Hospital Positions

The Range Support Officer must ensure that any team shooting on a hospital position (positions 23 & 24) has a Safety Officer / Line Judge. These positions are in front of the tower.

Water and Snacks

Water coolers are available in the Stat House (check with Executive Secretary if not there). These should be filled each morning with water from the Area 3 bathroom adjacent to the top of the stairs and then placed at the base of the Main Tower and on the tables under each Sub Tower. If available, cups should be put out with the coolers.

Have snacks. Snacks may be the only thing that keeps your staff from mutinying. Plead with your Skirmish Director to budget for snacks. Things as simple as mints will go a long way.

Report

The Range Support Officer must submit a report separate from that of the Range Officer's report, or the information can be combined, but the Range Support Officer's specific report should include a list of all Range Support Staff (Safeties, 4-Wheelers/Target Runners, Consoles, and Sub Towers) for each day, a summary of all activities, any problems encountered, along with any resolution to those problems; include any suggestions for future Range Support Officers.

Range Support Officer's Schedule

Prior to Nationals

- ☐ Contact Range and Individual Match Officers to coordinate Range staffing
- ☐ Contact Host Teams/Commanders for the following:
 - to determine who will be bringing a 4-wheeler to the Fort that can be used for Individual Match target pickup and potentially artillery transport on the range
 - to determine staff capabilities for safetying – physical/medical limitations on walking, etc.
 - to ensure staff assigned to Safety duty bring staple pullers – e.g., small screwdrivers, small pliers, or actual staple pullers

Saturday – Sunday

- ☐ Assist Range Officer with range setup – consult National Range Officer, if needed
- ☐ Assist Logistics Officer with target prep
- ☐ Ensure Main Tower and Sub Towers have all proper equipment ready (flags, radios available, etc.)
- ☐ Meet with the Skirmish Director to ensure everything is ready

Monday – Tuesday

- ☐ Report to the Skirmish Director to complete any tasks not completed on weekend

Wednesday

- ☐ Get radio from the Adjutant and review the Communications Manual – Range operations will be on Channel 1
- ☐ Coordinate with Range Officer to fill and set out water coolers at base of Main Tower and each Sub Tower – pick up at end of day and place in base of Main Tower
- ☐ Attend and help conduct Safety Training
- ☐ Supervise Safety / Sub Tower duties during Individual Matches
- ☐ Train any late-arriving Safeties
- ☐ Assist Individual Match Officer with issues, as needed

Thursday

- ☐ Coordinate with Range Officer to fill and set out water coolers at base of Main Tower and each Sub Tower – pick up at end of day and place in base of Main Tower
- ☐ Supervise Safety / Sub Tower duties for Individual Matches
- ☐ Train any late arriving Safeties

Friday

- ☐ Coordinate with Range Officer to fill and set out water coolers at base of Main Tower and each Sub Tower – pick up at end of day and place in base of Main Tower
- ☐ Supervise safety / sub tower duties for individual matches
- ☐ Train any late arriving safeties
- ☐ Assist range changeover for all team matches
- ☐ Assist target delivery for all team matches
- ☐ Supervise sub tower, console and score card delivery for all team matches
- ☐ Assist used target pickup for all team matches
- ☐ Perform range changeover for Mortar match
- ☐ Assist Artillery Officer for Mortar match if needed

Saturday

- ☒ Coordinate with Range Officer to fill and set out water coolers at base of Main Tower and each Sub Tower – pick up at end of day and place in base of Main Tower
- ☒ Assist target delivery for Carbine team match
- ☒ Supervise sub tower, console and scorecard delivery for Carbine team match
- ☒ Assist used target pickup for Carbine team match
- ☒ Assist with all hands for changeover to Artillery / frame setup for Artillery / target delivery for Artillery – **This takes as many people as possible**
- ☒ Assist Artillery Officer with Artillery match if needed beyond phase 1

Sunday

- ☒ Coordinate with Range Officer to fill and set out water coolers at base of Main Tower and each Sub Tower – pick up at end of day and place in Stat House
- ☒ Assist target delivery for musket match
- ☒ Supervise sub tower, console and score card delivery for musket team match
- ☒ Assist used target pickup for musket team match
- ☒ Perform final range cleanup

Main Range Layout

Frame Positions

1A thru 2B	25 yards (3 pieces of cardboard per frame)
3A thru 6B	50 yards (3 pieces of cardboard per frame)
7A	Lay down at 50 yards (no cardboard)
7B thru 18A	100 yards (2 pieces of cardboard per frame)
18B	Lay down at 50 yards (no cardboard)
19A thru 22B	50 yards (3 pieces of cardboard per frame)
23A thru 25B	25 yards (3 pieces of cardboard per frame)
26A thru 29B	50 yards (3 pieces of cardboard per frame)
30A	Lay down at 50 yards (no cardboard)
30B thru 41A	100 yards (2 pieces of cardboard per frame)
41B	Lay down at 50 yards (no cardboard)
42A thru 45B	50 yards (3 pieces of cardboard per frame)
46A thru 47B	25 yards (3 pieces of cardboard per frame)

Typical stopping point for individuals – does not require far right sub tower be manned

48A thru 51B	Can be used if needed without adding 3 rd sub tower
52A thru 67B	Must have 3 rd sub tower attended if used

Minimum Safeties Required

1A thru 2B	25 yards	1 safety for all individual matches
3A thru 6B	50 yards	2 safeties for all individual matches
7B thru 18A	100 yards	4 safeties for all individual matches
19A thru 22B	50 yards	2 safeties for all individual matches
23A thru 25B	25 yards	1 safety for all individual matches
26A thru 29B	50 yards	2 safeties for all individual matches
30B thru 41A	100 yards	4 safeties for all individual matches
42A thru 45B	50 yards	2 safeties for all individual matches
46A thru 47B	25 yards	1 safety for all individual matches

Total Minimum safeties required = 19

Safety # 1	1A thru 2B	Safety # 11	26A thru 29B
Safety # 2	3A thru 6B	Safety # 12	26A thru 29B
Safety # 3	3A thru 6B	Safety # 13	30B thru 41A
Safety # 4	7B thru 18A	Safety # 14	30B thru 41A
Safety # 5	7B thru 18A	Safety # 15	30B thru 41A
Safety # 6	7B thru 18A	Safety # 16	30B thru 41A
Safety # 7	7B thru 18A	Safety # 17	42A thru 45B
Safety # 8	19A thru 22B	Safety # 18	42A thru 45B
Safety # 9	19A thru 22B	Safety # 19	46A thru 47B
Safety # 10	23A thru 25B		

Console Positions

Consoles should be positioned between the following positions

Console #1	5 - 6	(1 person for each team match)
Console #2	15 - 16	(1 person for each team match)
Console #3	25 - 26	(1 person for each team match)
Console #4	35 - 36	(1 person for each team match)
Console #5	45 - 46	(1 person for each team match)
Console #6	55 - 56	(1 person for each team match)
Console #7	63 - 64	(1 person for each team match)

Sub Towers

Sub Tower #1	(1 person for all individual matches / 2 people for all team matches)
Sub Tower #2	(1 person for all individual matches / 2 people for all team matches)
Sub Tower #3	(1 person for all individual matches / 2 people for all team matches, if needed)

Minimum Line Judges Required

Line Judge # 1	1A thru 6B
Line Judge # 2	7B thru 18A
Line Judge # 3	7B thru 18A
Line Judge # 4	19A thru 22B
Line Judge # 5	23A thru 25B
Line Judge # 6	26A thru 29B
Line Judge # 7	30B thru 41A
Line Judge # 8	30B thru 41A
Line Judge # 9	42A thru 47B
Line Judge # 10	Rotate Relief
Line Judge # 11	Rotate Relief

Total Minimum Line Judges Required = 11

Note: These are minimums and may need to be adjusted during heavy range use.

Staffing Schedule - Safeties

Note: the same person can be scheduled for both shifts, if needed. This is a list of required coverage hours.

Position	Wednesday		Thursday		Friday
	9:00 - 1:00	1:00 - 5:00	8:00 - 12:30	12:30 - 5:00	8:00 - 12:00
Safety #1					
Safety #2					
Safety #3					
Safety #4					
Safety #5					
Safety #6					
Safety #7					
Safety #8					
Safety #9					
Safety #10					
Safety #11					
Safety #12					
Safety #13					
Safety #14					
Safety #15					
Safety #16					
Safety #17					
Safety #18					
Safety #19					

Staffing Schedule - 4-Wheelers

Sub Tower	Wednesday		Thursday		Friday		Saturday	Sunday	
	9:00 - 1:00	1:00 - 5:00	8:00 - 12:30	12:30 - 5:00	8:00 - 1:30	2:00 - 5:00	8:00 - 2:00	8:00 - 12:00	12:00 - 3:00
#1									
#1									

Staffing Schedule - Consoles

Note: the same person can be scheduled for both Sunday shifts, if needed.

Position	Friday	Saturday	Sunday	
	12:00 - 5:00	8:00 - 2:00	8:00 - 12:00	12:00 - 3:00
Console #1				
Console #2				
Console #3				
Console #4				
Console #5				
Console #6				
Console #7				

Staffing Schedule - Main Tower

Notes: Staff #4 should act as relief on Wednesday and Thursday; all 4 must be present during all team matches.

Main Tower	Wednesday		Thursday		Friday		Saturday	Sunday	
	9:00 - 1:00	1:00 - 5:00	8:00 - 12:30	12:30 - 5:00	8:00 - 1:30	2:00 - 5:00	8:00 - 2:00	8:00 - 12:00	12:00 - 3:00
Main Tower #1									
Main Tower #2									
Main Tower #3									
Main Tower #4									

Staffing Schedule - Sub Towers

Notes: Sub tower #3 only staffed for Individual Matches if range is extended past position 47; all Sub Towers must be staff by 2 people during all team matches.

Sub Tower	Wednesday		Thursday		Friday		Saturday	Sunday	
	9:00 - 1:00	1:00 - 5:00	8:00 - 12:30	12:30 - 5:00	8:00 - 1:30	2:00 - 5:00	8:00 - 2:00	8:00 - 12:00	12:00 - 3:00
Sub Tower #1									
Sub Tower #1									
Sub Tower #2									
Sub Tower #2									
Sub Tower #3									
Sub Tower #3									

Staffing Schedule - Line Judges

Note: the same person can be scheduled for both shifts, if needed. This is a list of required coverage hours. Line Judges #10 and #11 can be used as relief.

Position	Wednesday		Thursday		Friday
	9:00 - 1:00	1:00 - 5:00	8:00 - 12:30	12:30 - 5:00	8:00 - 12:00
Line Judge #1					
Line Judge #2					
Line Judge #3					
Line Judge #4					
Line Judge #5					
Line Judge #6					
Line Judge #7					
Line Judge					

#8					
Line Judge #9					
Line Judge #10 (Relief)					
Line Judge #11 (Relief)					