

GREEN BAY ATCT STANDARD OPERATING PROCEDURES



December 27, 2023

VATSIM MINNEAPOLIS ARTCC

VIRTUAL AIR TRAFFIC SIMULATION NETWORK

This order prescribes air traffic control procedures and phraseology for use by Air Traffic Control Specialists at the Green Bay ATCT on the VATSIM network. Controllers are required to be familiar with the provisions of this order that pertain to their operational responsibilities and to exercise their best judgement if they encounter situations not covered by it.

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Distribution: Facility Binders

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Order Record of Changes

Change	Description	Effective Date	Issued By
	Original Publication	Mar 17, 2020	DE
	Addition of Packer Plan appendix and STARS map appendix. Removal of references to deprecated clients/voice software.	Dec 27, 2023	DE

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Chapter 1. General Information

- **1-1. Purpose of this Order.** This order establishes requirements and procedures for the administration and operation of Green Bay ATCT on the VATSIM network. It supplements FAA Order 7110.65 and applicable VATUSA/VATSIM guidelines.
- **1-2. Audience.** Controllers opening GRB ATCT positions on the VATSIM network.
- 1-3. What this Order Cancels. This order cancels GRB ATCT 7110.65A, dated March 17, 2020.

Chapter 2. General

2-1. GRB ATCT Positions

Controllers operating GRB ATCT positions must configure their frequencies and voice channels as follows. All radar positions combine to R1's frequency.

Position Name	Frequency	STARS ID	Callsign
Flight Data/Clearance Delivery	121.750		GRB_DEL
Ground Control	121.900		GRB_GND
Local Control	118.700	T	GRB_TWR
ATIS	124.100		KGRB_ATIS
Green Bay Arrival/Departure (R1)	119.400	G	GRB_G_APP
Green Bay Satellite (R2)	126.300	S	GRB_S_APP
Green Bay Satellite (R3)	120.200	X	GRB_X_APP

2-2. Combining/Decombining Positions.

When combining positions, a 2 minute overlap is required, however; it is not required when decombining positions. See Appendix C for position relief briefing checklists.

2-3. Critically Dependent Positions.

Two positions in the facility has been identified as "critically dependent" positions. They are Ground Control and Local Control. These two positions must not be relieved simultaneously.

2-4. Local Scratch Pad Entries/STARS Tags/Special Designators.

Insert the following scratch pad entries to applicable aircraft in GRB airspace:

- a. Scratch Pad Entries for Green Bay Aircraft:
 - 1. Instrument Approaches (IFR or VFR Practice Approaches):
 - a. B24 or BC LOC/BC RY24.
 - b. I6 ILS RY06.
 - c. I36 ILS RY36.
 - d. G36 RNAV RY36
 - e. G18 RNAV RY18.
 - f. G6 RNAV RY06.
 - g. G24 RNAV RY24.
 - h. VOG VOR A GRB.
 - i. VOP VOR A 92C.
 - 2. Assigned runways for visual approaches or VFR landing traffic:
 - a. R6 RY06.
 - b. R18 RY18.
 - c. R24 RY24.
 - d. R36 RY36.

- 3. Assigned runways for aircraft requesting Touch and Go's or pattern work:
 - a. X6 RY06.
 - b. X18 RY18.
 - c. X24 RY24.
 - d. X36 RY36.
- 4. Miscellaneous (optional):
 - a. PIP Pipeline or Power line Patrol.
 - b. PJA Parachute Jump aircraft.
 - c. PHO Photography aircraft.
 - d. WPA West practice area.
 - e. Any 3-letter identifier listed in FAA 7350.8 Locations Identifier (i.e., MKE, OSH).
- b. Scratch Pad Entries for Instrument Approaches (IFR or VFR Practice Approaches) conducted at Satellite Airports are as follows:
 - 1. Appleton Airport:
 - a. G12 RNAV RY12.
 - b. G21 RNAV RY21.
 - c. G30 RNAV RY30.
 - d. G3 RNAV RY3.
 - e. I30 ILS or LOC RY30.
 - f. I3 ILS or LOC RY 3.
 - 2. Clintonville Airport:
 - a. C14 RNAV RY14.
 - b. C4 RNAV RY4.
 - c. C22 RNAV RY22.
 - d. C32 RNAV RY32.
 - 3. Manitowoc County Airport:
 - a. M17 ILS or LOC RY17.
 - b. M17 RNAV RY17.
 - c. M35 RNAV RY35.
 - d. M35 VOR/DME RY35.
 - 4. Shawano Airport: S29 GPS RY29.
 - 5. Ephraim-Gibraltar Airport: E32 GPS RY32.

- 6. Oconto Airport:
 - a. O11 GPS RY11.
 - b. O29 NDB or GPS RY29.
- 7. Sturgeon Bay/Door County Airport:
 - a. S2 RNAV RY2.
 - b. S10 RNAV RY10.
 - c. S20 RNAV RY20.
 - d. S28 RNAV RY28.
 - e. S2 SDF RY2.
- 8. Menominee-Marinette Twin County Airport:
 - a. M3 ILS/LOC/NDB/RNAV RY3.
 - b. M32 RNAV RY32.
 - c. M21 VOR/DME OR RNAV RY21.
 - d. MA VOR A.
- 9. Pulaski-Carter Airport: VOP VOR or GPS A.

Chapter 3. Flight Data/Clearance Delivery (CD)

3-1. Duties and Responsibilities.

- a. Issue IFR/Special VFR clearances, VFR departure restrictions, and ensure proper routing and altitude. If routes are amended after clearance has been issued ensure that the pilot receives the amendment(s).
- b. Issues altitude restrictions as follows:
 - 1. 3000' to all IFR or OTP departures off GRB airport requesting 3000' or above.
 - 2. At or below 3000' to all Class C departures.
 - 3. At or below 2500' to all SVFR while in Class C.
- c. Prepares flight progress strips for all departures in accordance with vZMP N7110.101.
- d. Assign 119.4 as the primary departure frequency.
- e. Forward all flight progress strips to Ground Control after clearance is issued. Forward helicopter flight progress strips directly to Local Control.

3-2. CD Frequencies.

a. CD frequency is 121.75.

Chapter 4. Ground Control (GC)

4-1. Duties and Responsibilities.

Ground Control is responsible for the control of aircraft, vehicles, and personnel operating on the movement areas IAW FAAO 7110.65.

- a. Control all traffic on GC designated movement areas.
- b. Obtain verbal approval from Local Control (LC) prior to authorizing an aircraft to cross or use any portion of an active runway.
- c. Must advise LC when active runway is clear.
- d. When aircraft taxi for departure, forward flight progress strip to LC.
- e. Ensure all departing aircraft have received current ATIS or WX (including hazardous weather information).
- f. Issue instructions, clearances, and ensure pilot read-back accuracy.
- g. GC must advise LC via strip marking, when an aircraft is taxied to an intersection for departure. Verbal communications are encouraged.
 - 1. Coordinate with LC via verbal communication prior to taxiing a departure to a non-advertised runway. Pilot requests for departures from a runway other than the advertised departure runway may be approved if traffic/workload permits.

4-2. GC Frequencies.

a. GC frequency is 121.9.

Chapter 5. Local Control (LC)

5-1. Duties and Responsibilities.

Local Control provides ATC services and approved separation in delegated airspace and in the airport surface area. Local Control airspace is a 5NM radius of the airport from the surface to 1700 MSL except in the departure area. In the departure area, the vertical limit is 3000 MSL. See Appendix A.

- a. Issue landing sequences and clearances.
- b. Issue takeoff clearances and control instructions.
- c. Issue control advisories, perform SVFR services, and provide emergency assistance to aircraft.
- d. LC has responsibility for operations on the active runway(s).
- e. Advise all arrivals and overflights to contact approach control on the appropriate frequency for sequencing.
- f. Ensure the aircraft heading is within the departure area.
- g. Coordinate departures on other than advertised runways with the appropriate TRACON position and assign the approved heading.
- h. Local Control is responsible for selecting the active runways. Coordinate with GC and TRACON prior to changing runways. Coordinate with TRACON to determine which aircraft will be the last for the active runway now in use and which will be the first aircraft for the new active runway. Wind conditions dictate the active runway(s) in use at GRB, alternative pilot requests may be coordinated.
- i. Operate the TDW and issue Safety Alerts as required.
- j. Coordinate with GC via verbal communication prior to landing an aircraft on a non-advertised runway.

5-2. Land and Hold Short Operations (LAHSO).

When utilizing intersection runways and the criteria exists, LC must issue the hold short instructions based on operational need. LC must advise TRACON when hold short is not available (i.e. runway(s) not clear and dry, tail wind component, etc.). LAHSO operations cannot be conducted with air carrier or air taxi aircraft.

5-3. Line Up and Wait (LUAW).

Operations may be conducted IAW FAA JO7110.65 when the following provisions are met:

- a. Landing clearance must be withheld on aircraft arriving on the same runway until the holding aircraft is issued takeoff instructions and has begun departure roll.
- b. Simultaneous LUAW operations are NOT authorized on the same runway.
- c. When an aircraft is authorized to line up and wait, inform it of the closest traffic requesting a full-stop, touch-and-go, stop-and-go, option or unrestricted low approach to the same runway.
- d. The reported ceiling must be 800 ft or more and the reported visibility must be 2 miles or more.

5-4. Go-Around/Missed Approach.

Apply the following when conducting Go-Arounds and Missed approach:

- a. Issue instructions to establish separation. This could be in the form of vertical separation, passing or diverging separation, or vectors to achieve other approved separation.
- b. When able, provide visual separation until all conflicts have been resolved. Issue control instructions that will ensure separation with all other aircraft IAW GRB SOP or as coordinated.
- c. When all conflicts have been resolved, transfer communications to departure within the established departure configuration.
- d. Issue wake turbulence advisories as appropriate.
- e. Aircraft executing a missed approach/go-around in visual conditions may stay with the Tower and enter the local traffic pattern.

5-5. LC Frequencies.

a. LC frequency is 118.7.

Chapter 6. Green Bay Arrival/Departure (R1)

6-1. Duties and Responsibilities.

- a. Separate IFR/SVFR and Class C operations within assigned airspace.
- b. Broadcast GRB and ATW Airport ATIS code changes.
- c. Provide arrival and departure services to airports within designated R1 airspace.
- d. Arrivals to Green Bay from ZMP at 14000 MSL or higher must not be descended below 14000' MSL until within R1 airspace unless coordinated.
- e. Arrivals and overflights which will penetrate the departure area below 3500' MSL (VFR) or 4000' MSL (IFR) must be coordinated with LC prior to entering that airspace.
- f. Unless otherwise coordinated, R1 must transfer control and communication of arriving aircraft to LC at least 5 miles from the airport.
- g. R1 must receive approval from LC to use other than advertised runways.
- h. Coordinate all SVFR arrivals with LC.
- i. Inform LC when radar positions combine or decombine.

6-2. Designated Airspace.

Surface to 13000 MSL inside 20-mile range mark except; satellite exclusion areas or the arrival/departure area south of GRB. This arrival/departure area is a point 18 DME southwest of the GRB VOR on V9 to a point 4NM west of V217 then paralleling V217 south to the MKE/GRB boundary. The east side boundary is a 360 degree bearing from CYNDI intersection from where it intercepts the MKE/GRB boundary north to the 20 mile arc of GRB. Point B to F and South, GRB Arrival owns from 5000 to 13000 MSL. See Appendix B.

6-3. R1 Frequencies.

a. R1 frequency is 119.4.

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Chapter 7. Green Bay Satellite (R2) and (R3)

7-1. Duties and Responsibilities.

- a. Provides arrival and departure services to airports within delegated airspace.
- b. Broadcast GRB and ATW ATIS code changes.
- c. Point out aircraft executing approaches that will encroach R1 airspace.
- d. Coordinate all SVFR arrivals with ATW.

7-2. Designated Airspace.

Surface to 13000 MSL outside 20 mile range mark, except, that area from the 18 DME southwest of the GRB VOR on V9, southeast to the MTW VOR, to a point where this line intercepts the R1 arrival/departure "corridor" and the designated area around MNM airport. Both areas include the surface to 4000 MSL. See Appendix B.

7-3. R2/R3 Frequencies.

- a. R2 frequency is 126.3.
- b. R3 frequency is 120.2.

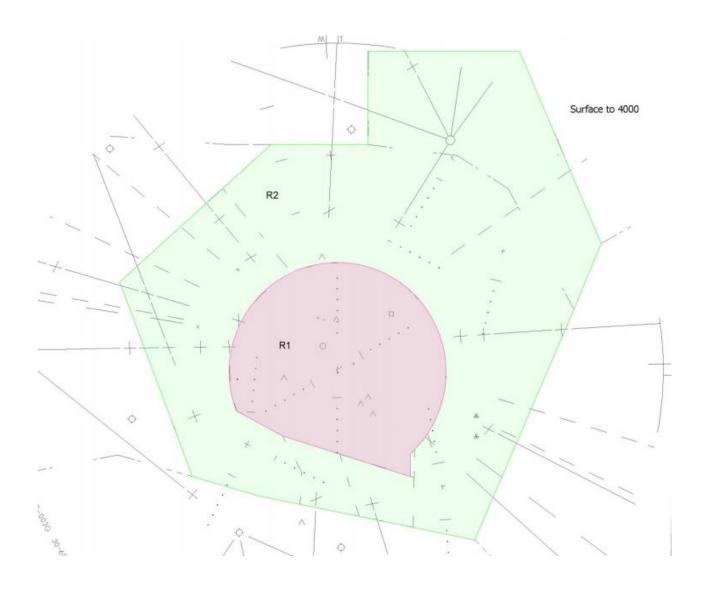
Appendix A. Departure Headings

RUNWAY CONFIGURATION	HEADINGS
18/24, 18 only, 24 only	180-240
6/36, 6 only, 36 only	360-060
24/36	240-360
6/18	060-180

- a. Alternate corridors may be coordinated between the local and radar positions, provided that both positions concur. The heading divergence cannot exceed 180 degrees, and the runway heading of at least runway must be included.
- b. Departure area extends to the five nautical mile ring, up to 3000 MSL.
- c. In the absence of approval, approach control will remain out of the departure area.
- d. Runway heading is permissible.

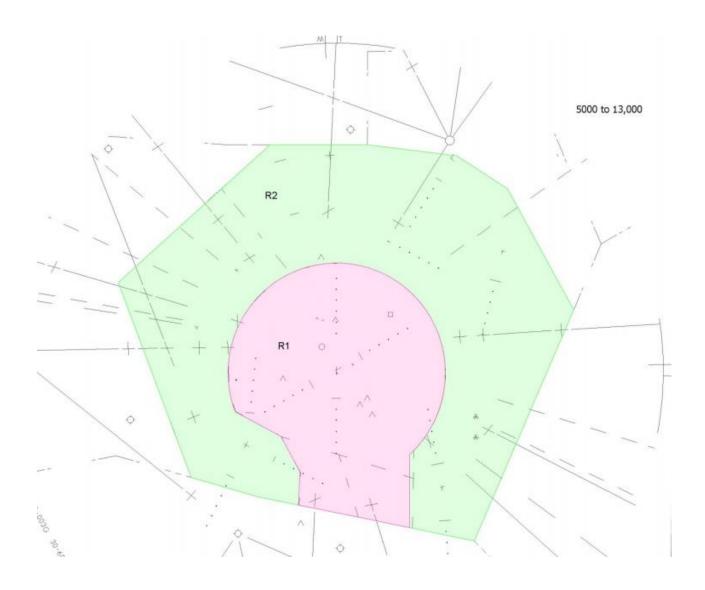
Appendix B. Green Bay Airspace R1 – R2 Split

Surface to 4000



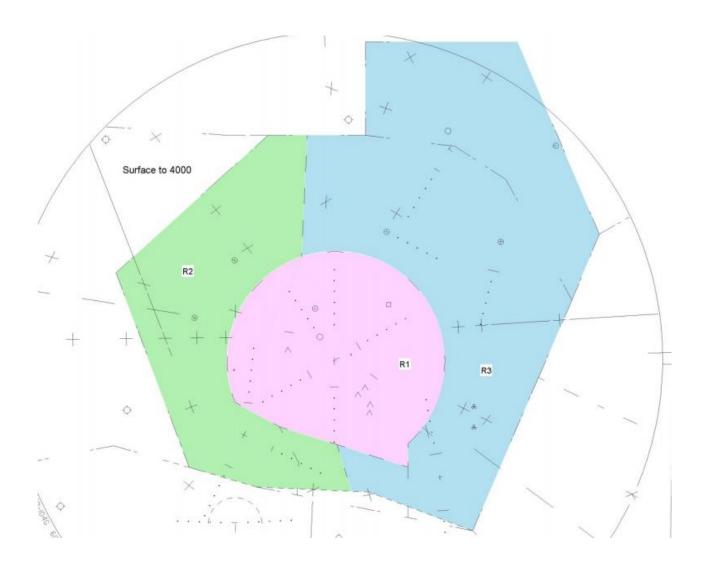
Appendix B. Green Bay Airspace R1 – R2 Split

5000 to 13000



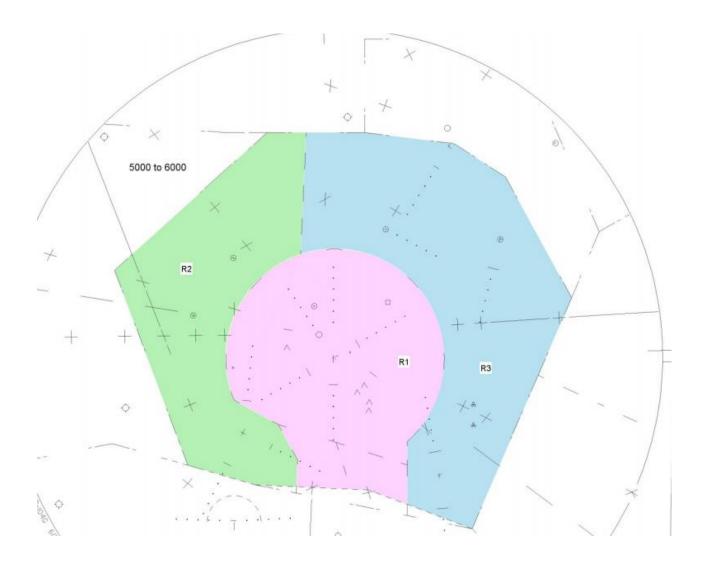
Appendix B. Green Bay R1, R2, R3 Split

Surface to 4000



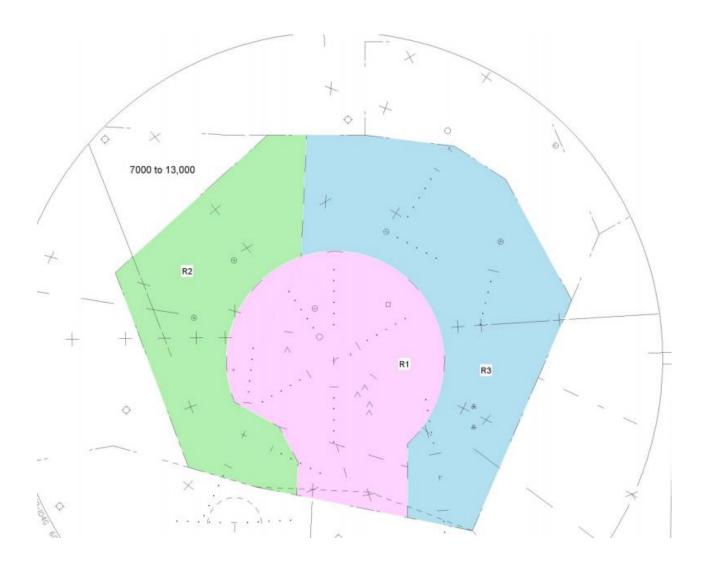
Appendix B. Green Bay R1, R2, R3 Split

5000 to 6000



Appendix B. Green Bay R1, R2, R3 Split

7000 to 13000



Appendix C. Position Relief Briefing Checklists

1. Local Control (LC)

- a. SIA.
- b. ATIS/WX/TRENDS.
- c. RUNWAY(S) IN USE---DEPARTURE CORRIDOR.
- d. RUNWAY STATUS (UNAVAILABLE, OCCUPIED, CLOSED).
- e. EQUIPMENT STATUS.
- f. LUAW (AVAILABLE OR NOT AVAILABLE).
- g. LAHSO (AVAILABLE OR NOT AVAILABLE).
- h. TRAFFIC:
 - 1. Communication Status.
 - 2. Pattern.
 - 3. Incoming/Outbound.
 - 4. Point outs/APREQS.
 - 5. Special activity aircraft (parachute, photo, etc).

2. Ground Control (GC)

- a. SIA.
- b. ATIS/WX/TRENDS.
- c. RUNWAY(S) IN USE---RUNWAY STATUS (AVAILABLE, CLOSED).
- d. EQUIPMENT STATUS.
- e. TMU (GS, EDCT, ETC.).
- f. SPECIAL USE AIRSPACE.
- g. TRAFFIC:
- 1. Communication Status.
- 2. Active aircraft movement.
- 3. Vehicular traffic.

- 3. Clearance Delivery (CD)
 - a. SIA.
 - b. ATIS/WX/TRENDS.
 - c. CLEARANCES ISSUED.
 - d. SPECIAL ACTIVITIES.
 - 1. Silent releases in effect.
 - **2.** TMU (ESP, GS, ETC.).
- 4. Green Bay Arrival/Departure Radar (R1)
 - a. SIA.
 - b. ATIS/WX/TRENDS.
 - c. RUNWAY(S) IN USE---APPROACHES IN USE---DEPARTURE CORRIDOR---LAHSO AVAILABLE.
 - d. EQUIPMENT STATUS.
 - e. TMU (GS, ESP, ETC)
 - f. SPECIAL USE AIRSPACE (VOLK, R6903).
 - g. COORDINATION AGREEMENT WITH OTHER POSITIONS.
 - h. TRAFFIC:

- 1. Communication Status.
- 2. Incoming/outgoing aircraft.
- 3. Overflights.
- 4. Point outs.
- 5. Holding aircraft.
- 6. Aircraft handed-off but still in your airspace.
- 7. Aircraft released but not yet airborne.
- 8. Non-radar operations.
- 9. VFR advisory aircraft.
- 10. Aircraft standing by for service.
- 11. Special activity aircraft (pipeline, parachute etc).

- 5. Satellite Arrival/Departure Radar (R2/R3)
 - a. SIA.
 - b. ATIS/ALTIMETER/WX/TRENDS.
 - c. RUNWAY(S) IN USE---APPROACHES IN USE.
 - d. EQUIPMENT STATUS.
 - e. TMU (GS, ESP, ETC.).
 - f. COORDINATION AGREEMENTS WITH OTHER POSITIONS.
 - g. TRAFFIC:
 - 1. Communication Status.
 - 2. Incoming/outgoing aircraft.
 - 3. Overflights.
 - 4. Point outs.
 - 5. Holding aircraft.
 - 6. Aircraft handed-off but still in your airspace.
 - 7. Aircraft released but not yet airborne.
 - 8. Non-radar operations.
 - 9. VFR advisory aircraft.
 - 10. Aircraft standing by for service.
 - 11. Special activity aircraft (parachute, pipeline etc).

Appendix D. STARS Maps

**	•
1. BASIC	401. MNM R3
2. SECTORS	402. MNM R21
10. EAA	403. MNM R32
20. PACK 6	404. MNM VA
21. PACK 18	500. SUE R2
22. PACK 24	501. SUE R20
23. PACK 36	502. SUE R10
30. SUA E	503. SUE R28
31. SUA W	600. 3D2 ALL
32. CLSS CD	610. OCQ ALL
40. EAA X	620. EZS ALL
41. PACKTFR	630. CLI ALL
50. MVA 3	640. PCZ ALL
51. MVA 5	650. 92C VA
52. ADS50B	660. 8D1 R14
53. ADS CVR	670. OSH B18
60. GEO	680. HELO
70. FIXES	690. A-BASIC
71. INTERS	691. A-ARPTS
72. AIRWAYS	692. A SPACE
73. JETWAYS	693. A GEO
74. SIDSTAR	701. LAKEHWY
75. RVMLIST	702. MIA
80. PACKD24	703. SATFNLS
81. PACKD36	704. TVCFNLS
82. STADIUM	705. ARPRTS
99. GRB TDW	706. AIRWAY
110. GRB ASR	707. INSTFIX
110. GRB ASK 111. GRB I6	710. FLC M03
	710. FLC M03
112. GRB I36	
	712. FLC A30
114. GRB BC	713. FLC G06
115. GRB R6	714. FLC G36
116. GRB R36	715. FLC G24
117. GRB R18	716. FLC M17
118. GRB R24	717. FLC T28
200. ATW I3	
201. ATW I30	
202. ATW R3	
203. ATW R30	
204. ATW R12	
204. ATW R12 205. ATW R21	
300. MTW I17	
301. MTW V35	
302. MTW R17	
303. MTW R35	
400. MNM I3	

Appendix E. Packer Plan

Section 1 - Implementation

1. What is the Packer Plan?

The Packer plan was designed to accommodate the high volume of traffic generated during Packer home games. It is composed of arrival procedures and departure procedures. The arrival procedures reconfigure TRACON operations to manage the increased inbound traffic, and the departure procedures primarily tower cab operations to accommodate the post-game departures.

2. How does the Packer Plan differ from normal operations?

- a. Packer Arrival procedures change the sector configuration, frequency assignments, and traffic flow in the TRACON. Tower operations are not affected. The configuration varies with the primary runway in use.
- b. Packer Departure procedures establish expanded coordinated departure headings and altitudes.

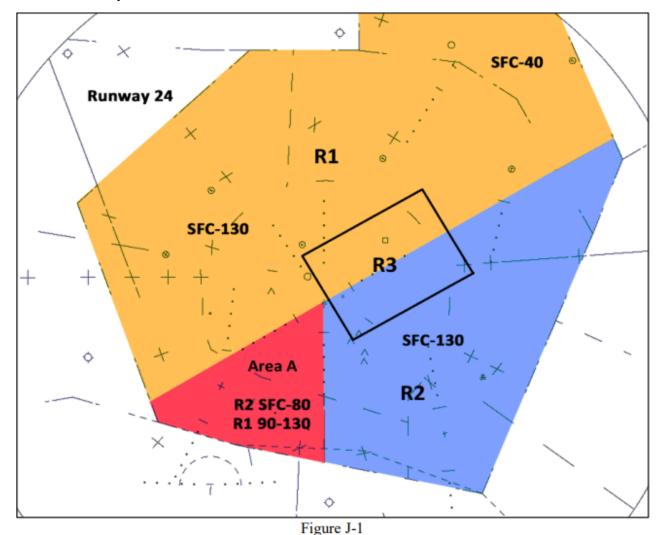
Section 2 – Packer Arrival Procedures

1. What airspace am I responsible for?

The airspace and frequencies assigned to each sector vary with the runway configuration.

a. Runway 24 Operation

- 1) R1 (G) R1is the north feeder position as depicted in figure J-1. The airspace extends from the surface to the upper limits of our approach airspace except in area "A". In area "A" R1 is responsible for the airspace at and above 9000 MSL.
- 2) R2 (S) R2 is the south feeder position as depicted in figure J-1. The airspace extends from the surface to 13000 MSL except in area "A". In area "A" R2 is responsible for the airspace below 9000 MSL.
- 3) R3 (X) R3 is the final position as depicted in figure J-1. The airspace extends laterally 7NM either side of the final approach course out to a 20 NM final. The airspace extends vertically from the surface to 6000 MSL.



b. Runway 6 Operation

- 1) R1 (G) R1 is the north feeder position as depicted in figure J-2. The airspace extends from the surface to the upper limits of our approach airspace.
- 2) R2 (S) R2 is the south feeder position as depicted in figure J-2. The airspace extends from the surface to the upper limits of our approach airspace.
- 3) R3 (X) R3 is the final position as depicted in figure J-2. The airspace extends laterally 7NM either side of the final approach course out to a 20 NM final (excluding ATW ATCT Airspace). The airspace extends vertically from the surface to 6000 MSL.

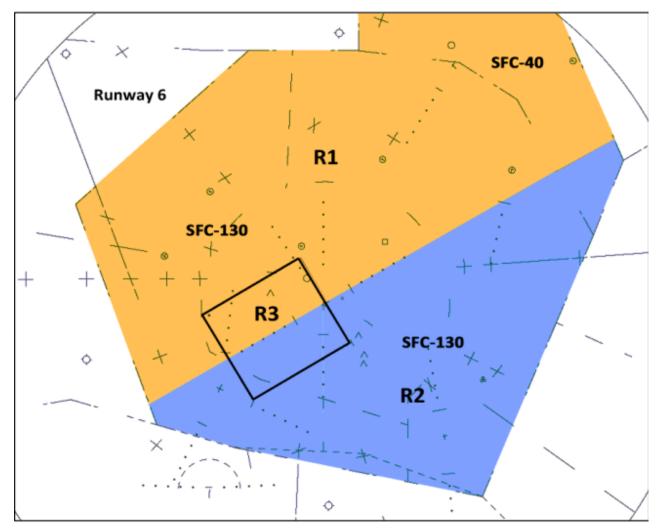


Figure J-2

c. Runway 36 and Runway 18 Operations

- 1) R1(G) R1 is the west feeder position as depicted in figure J-3. The airspace extends from the surface to the upper limits of our approach airspace.
- 2) R2(S) R2 is the east feeder position as depicted in figure J-3. The airspace extends from the surface to the upper limits of our approach airspace.
- 3) R3 (X) R3 is the final position as depicted in figure J-3. The airspace extends laterally 7NM either side of the final approach course out to a 20 NM final. The airspace extends vertically from the surface to 6000 MSL.

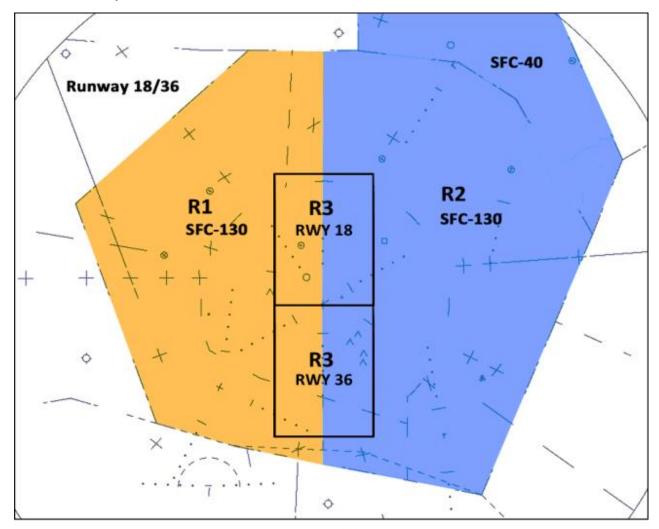


Figure J-3

2. How do I manage ATW Departures?

If ATW lies within your assigned airspace, you are responsible for releasing ATW departures. You may need to coordinate with other controllers as follows:

- a. Runway 24 Operation As the R2 controller, you must coordinate north and west departures with R1 and have ATW tower assign 119.4 as the departure frequency (this may be pre-arranged with ATW ATCT). R1 does not have control of these departures until they enter R1 airspace.
- b. Runway 6 Operation As the R2 controller, you must coordinate north and west departures with both R1 and R3, and have ATW tower assign 119.4 as the departure frequency. R1 does not have control of these departures until they enter R1 airspace. For aircraft departing south and east, coordinate with R3 if necessary.

3. How do I work a feeder position?

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As an R1 or R2 controller, you are responsible for sequencing and spacing aircraft on the downwind before handing them off to the R3 (final) position. You must coordinate your flow with the other feeder position to provide the required spacing on the downwinds.

a. You must provide at least 5 NM between aircraft on the combined downwinds. To meet this requirement, you must consider both downwinds as a single feed. See figure J-4.

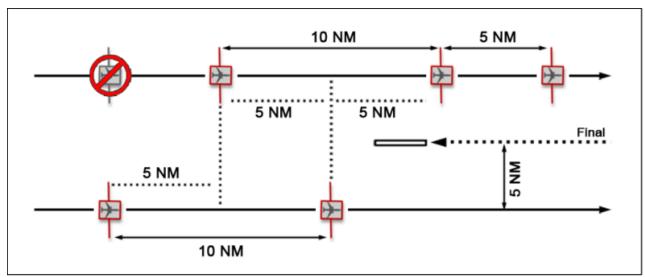


Figure J-4

- b. You must hand off and switch inbound aircraft to the R3 position by midfield downwind. To do this, you must have the aircraft established on the downwind before that point.
- c. Your downwind must be 5NM from the runway centerline of the runway. You may need to adjust the headings you assign to aircraft to ensure a consistent downwind. You must coordinate headings with the other feeder position so the downwinds remain parallel.
- d. You must slow all inbounds to 210 KTS prior to switching them to the final controller. The final controller or CIC may coordinate a different speed.
- e. You must ensure that inbounds are at 6000 MSL by midfield downwind.

4. How do I work the final position?

As the final controller you are responsible for sequencing aircraft on final, issuing approach clearances, and monitoring for compression.

- a. You must ensure that aircraft on opposite bases are separated by at least 1000 ft.
- b. You must maintain vertical separation while turning onto final until longitudinal or visual separation is obtained.
- c. You must assign speeds as necessary to maintain separation. Normally this will be 170 KTS on final. Remember that speed control only works if both aircraft are restricted.
- d. You should provide a minimum of 5 NM separation on final to allow for compression.

5. How are tower operations affected by Packer arrival procedures?

You will use standard procedures in the tower, except:

- a. When working LC:
 - 1) You must sequence VFR inbounds with IFR aircraft.
 - 2) You must apreq all departures with the appropriate RADAR position.
- b. When working FD/CD, you must:
 - 1) Assign the correct departure frequency according to the aircraft's direction of departure. The frequency you assign will vary with the configuration. See Figures J-1 through J-3.

Section 3 – Packer Departure Procedures

1. What do I need to do differently on FD/CD?

a. Assign departures an initial altitude of 5000 MSL (or their filed altitude if it is lower).

2. What do I need to do differently on LC?

- a. Prior to beginning Packer departure procedures, coordinate expanded departure headings with the TRACON. This departure area must not exceed 180°.
- b. You must designate and use only one runway as the departure runway. If you choose to use runway 6 or runway 36 for departures, designate the crossing runway as inactive.
- c. You must comply with any MIT restrictions required by ZMP or MKE.

3. How are TRACON operations affected by Packer departure procedures?

You will use standard procedures in the TRACON during Packer departure procedures except:

- a. LC will coordinate and use expanded departure headings. Departures will initially climb to 5000 MSL unless noted on the flight progress strip.
- b. You must comply with any MIT restrictions requested by MKE or ZMP.