

VATSIM CHICAGO ARTCC AND MINNEAPOLIS ARTCC
LETTER OF AGREEMENT

Effective Date: 10/26/2023

Subject: Interfacility Procedures and Airspace Delegation

1. **PURPOSE.** This agreement establishes coordination procedures between VATSIM Chicago ARTCC (ZAU) and VATSIM Minneapolis ARTCC (ZMP). This agreement is supplemental to procedures contained within FAA Order 7110.65.
2. **CANCELLATION.** VATUSA Chicago ARTCC and VATUSA Minneapolis ARTCC Letter of Agreement dated April 15, 2015.
3. **SCOPE.** This Letter of Agreement is supplemental to current air traffic procedures, handbooks, and directives relating to enroute procedures.
4. **GENERAL**
 - a. The destination airport must be the clearance limit.
 - b. Apply routes and restrictions in accordance with Appendices C, D, and E.
 - c. Route capable aircraft via RNAV STARs to the maximum extent practicable.
 - d. The transferring controller releases control for:
 - (1) Turns not to exceed 20° within 20 NM of the common boundary.
 - (2) Speed increase.
 - (3) Transponder code change.
 - e. Aircraft landing within 60 NM of the ZAU/ZMP low sector boundary must enter the receiving center at or below FL240.
 - f. Coordinate with affected controllers before opening or closing operational positions and, when not obvious, frequency assignment.
 - g. Data Block Coordination and Interim Altitude Procedures:
 - (1) Data blocks must reflect the aircraft's assigned altitude at the time of hand off.
 - (2) Hand offs must be directed to the appropriate sector for the aircraft's assigned altitude. Acceptance of a radar hand off constitutes approval coordination for that aircraft to climb or descent to the displayed altitude.
 - (3) Use of interim altitudes is authorized between ZAU and ZMP and represents valid altitude coordination. Use of interim altitudes must not be authorized to coordinate Inappropriate Altitude for Direction (IAFDof) or to supersede altitude restrictions established within this Letter of Agreement.

- (4) When unable to approve the coordinated altitude, the receiving controller must verbally coordinate with the transferring controller prior to acceptance of the handoff.
- h. Aircraft unable to comply with required routes or altitudes must be coordinated with the receiving controller on an individual basis.

Appendix A – Low and High Sector Airspace Depiction

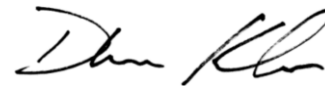
Appendix B – Route and Altitude Restrictions from ZAU to ZMP

Appendix C – Route and Altitude Restrictions from ZMP to ZAU

Appendix D – Standby Route and Altitude Restrictions



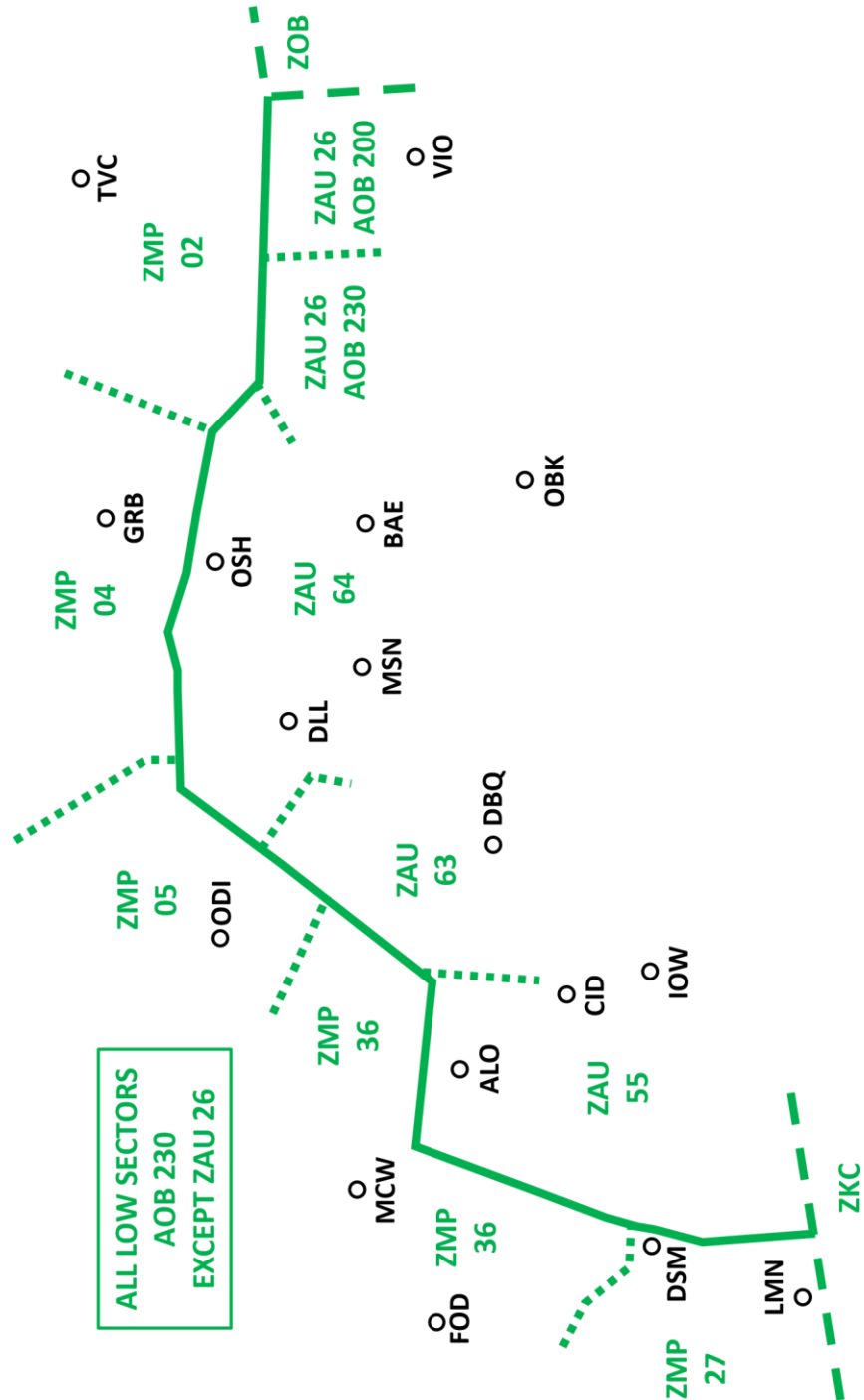
Roland Wenzel
Air Traffic Manager
VATSIM Chicago ARTCC



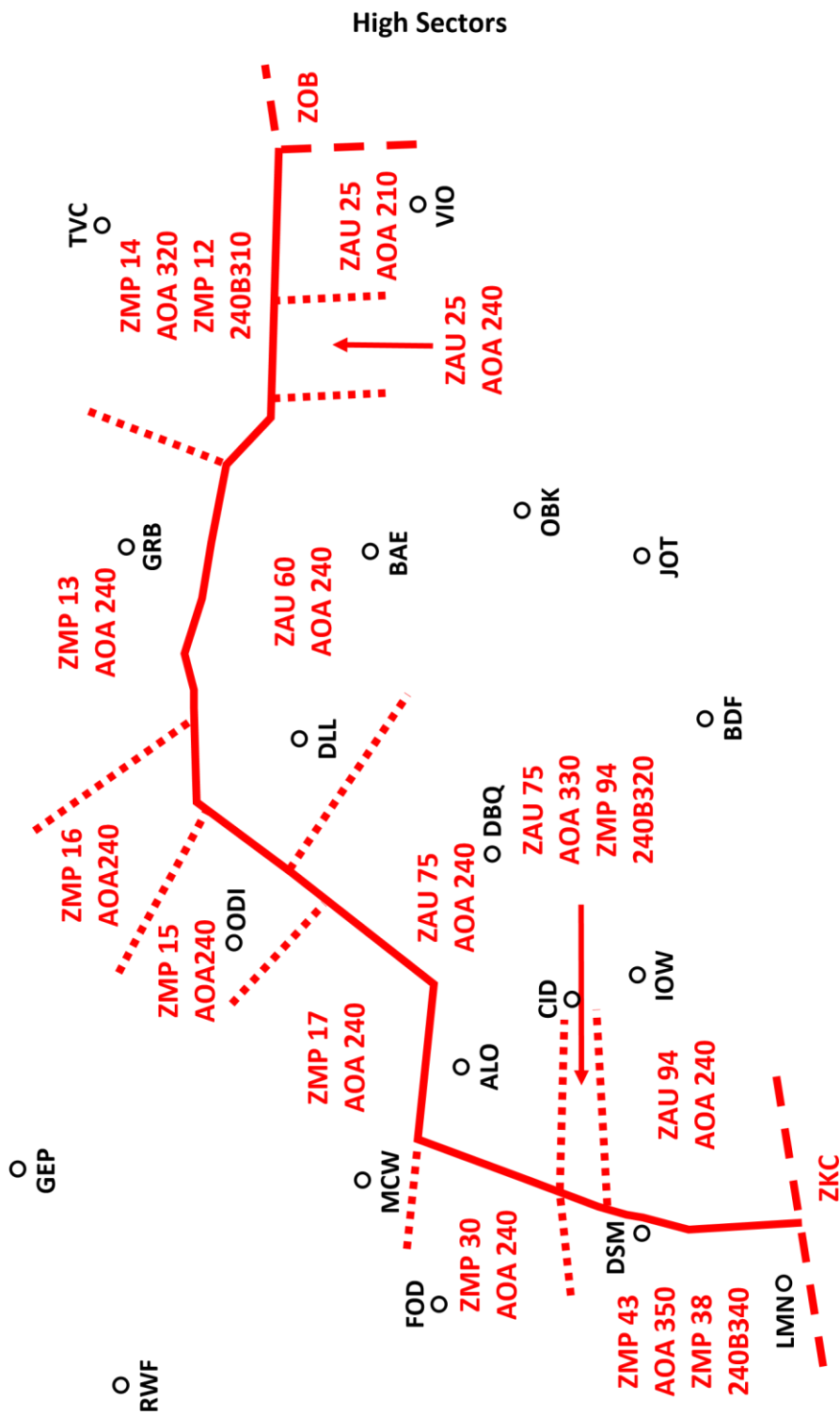
Dhruv Kalra
Air Traffic Manager
VATSIM Minneapolis ARTCC

Appendix A – Low and High Sector Airspace Depiction

Low Sectors



Appendix A – Low and High Sector Airspace Depictions, Cont'd



Appendix B – Route and Altitude Restrictions from ZAU to ZMP

Arriving	Qualifier	Nav Type	Route Via	Altitude	Special
KMSP	From ZAU 60/64	RNAV	KKILR STAR	AOB FL340	
		Non-RNAV	EAU STAR		
	From ZAU 75	RNAV	BLUEM STAR	AOB FL320	
		Non-RNAV	KASPR STAR		
	KMSN Jet Departures	RNAV	DLL HENDR KKILR STAR	AOB FL220	
		Non-RNAV	DLL EAU EAU STAR		
MSP Satellites			BAE AGUDE STAR	AOB FL340 (Must be in-trail with or below KMSP arrivals)	Includes: KANE KFCM KLVN KMIC KSTP
			ALO TWOLF TWOLF STAR	AOB FL320	
KOMA KOFF			Jets/Turboprops AOA 16,000: FOD/DABOY/DSM LANTK STAR or LMN MARWI STAR	AOB FL340	

Appendix C – Route and Altitude Restrictions from ZMP to ZAU

Arriving	Qualifier	Nav Type	Route Via	Altitude	Special
KDTW	Entering ZAU 25	RNAV	HOOTA KKISS/RKCTY STAR	AOB FL310	
		Non-RNAV	HIC SVM KDTW		
KMDW	Entering ZAU 94	RNAV	JALAP ENDEE STAR or DSM KAMBL ENDEE STAR		Direct KAMBL approved over/south of DSM VOR
		Non-RNAV	LMN MOTIF STAR or DSM BDF MOTIF STAR		
	Entering ZAU 63/75	RNAV	OHHMY ENDEE STAR	AOB FL310	ZMP releases control for descent
		Non-RNAV	CVA MOTIF STAR		
KORD	Entering ZAU 25/26	RNAV	WYNDE STAR	AOB FL320	
		Non-RNAV	VIO ELX V100 DEERE KORD		
	Entering ZAU 60/64	RNAV	ERNNY/MADII STAR	AOB FL230	ZMP Releases Control for Descent
			SHIKY FYTTE STAR	AOB FL280	No Reroutes via SHIKY Without ZAU Approval
		Non-RNAV	BJB OBK KORD	AOB FL230	
	Entering ZAU 63/75	RNAV	MYRRS FYTTE STAR or ZZIPR FYTTE STAR (Direct WELCOM Approved)	ZZIPR AOB FL310	ZMP 17 Releases Control for Descent
		Non-RNAV	DBQ JVL JVL STAR	AOB FL270	
	Option for KCWA KDLH KEAU KLSE KRST KSTC Departures	RNAV	MSN GARTT JVL CHMPN FYTTE STAR	AOB FL310	ZMP Releases Control for Descent
		Non-RNAV	MSN GARTT JVL JVL STAR	AOB FL310	

Appendix D – Standby Route and Altitude Restrictions

The restrictions below are required only when requested. They should normally only be requested for events or other periods of heavy traffic; however, controllers may request or voluntarily apply these restrictions at any time an operational advantage would be gained.

From ZAU to ZMP

Arriving	Qualifier	Nav Type	Route Via	Altitude	Special
KGRB KTVC	From ZAU 23/24			AOB FL280 Descending to FL240	
KLSE				6,000	
	VOK RAPCON Operational				Hand off to VOK RAPCON
KRST				AOB FL280 Descending to FL240	
	AOB FL230				ZAU Releases control for descent within 20 NM of the ZAU/ZMP Boundary

Appendix D – Standby Route and Altitude Restrictions, Cont'd

From ZMP to ZAU

Arriving	Qualifier	Nav Type	Route Via	Altitude	Special
KCID	Entering ZAU 94			AOB FL310	ZMP Releases Control for Descent
	Entering ZAU 75			AOB FL240	
KGRR	AOA 11,000 Entering ZAU 25/26			Descending to 11,000	Hand off to ZAU
KMKE	Entering ZAU 75 East of ALO		DLL BAE KMKE or SIBER BAE KMKE	AOB FL310	ZMP Releases Control
	Entering ZAU 64		BJB KMKE	AOB FL190	
	Entering ZAU 75 West of ALO	RNAV	OGECA GOPAC STAR		
		Non-RNAV	DBQ SIBER BAE KMKE		
KMSN	MSP Metro Area Departure			AOB FL230	ZMP Releases Control
Chicago Metro Satellites	Entering ZAU 25/26			AOB FL280	Includes KARR KDPA KGYG KLOT KMDW KPWK KUGN
	Over MKE TRACON Airspace		BJB OBK Destination	AOB FL230	
	KPWK/KUGN Entering ZAU 75		DBQ LYSEN KRENA KPWK or DSM LOTTE KRENA KPWK or OGECA GOPAC STAR KUGN or DBQ LYSEN KRENA KUGN	West ALO AOB FL370 East ALO AOB FL290	
	KUGN Entering ZAU 60		DLL BAE KUGN or BJB OBK KUGN		
	KUGN Entering ZAU 94		CID OHLIE GOPAC STAR or DBQ DLL BAE KUGN or DBQ LYSEN KRENA KUGN		