

**VATUSA CLEVELAND ARTCC AND VATUSA INDIANAPOLIS ARTCC
LETTER OF AGREEMENT**

EFFECTIVE: FEBRUARY 10, 2020

SUBJECT: INTERFACILITY COORDINATION

1. PURPOSE

This Letter of Agreement defines inter-facility responsibilities and communication procedures between VATUSA Cleveland ARTCC (ZOB) and VATUSA Indianapolis ARTCC (ZID). This agreement is supplemental to procedures contained within FAA Order 7110.65.

2. DISCLAIMER

Information contained herein is designed and specifically for use in a virtual air traffic control environment. It is not applicable, nor should it be referenced for live operations in the National Airspace System (NAS).

3. CANCELLATION

VATUSA Cleveland ARTCC and VATUSA Indianapolis ARTCC Letter of Agreement dated September 22, 2018 is hereby cancelled.

4. RESPONSIBILITIES

Airspace delegation between ZOB and ZID are in accordance with Attachment C and Attachment D of this document.

5. PROCEDURES

- a. Each ARTCC must route/restrict aircraft in accordance with Attachment A and Attachment B of this document.
- b. Coordinate and resolve, in a practical manner that provides the smoothest experience to the pilot, all deviations from, and situations not addressed by, this document (e.g., non-standard sectorization, holding, pilots unable to accept LOA routes, aircraft above/below LOA altitudes, etc.).
- c. Ensure that all aircraft are at a 1X simulation rate prior to initiating handoff.
- d. Ensure that aircraft on the same route segment at the same altitude (or different altitudes, but same destination airport within ZOB or ZID) are separated by not less than 10 MIT (steady or increasing) or other value specified herein unless greater MIT separation is requested real-time by ZOB/ZID.
 - i. NOTE: Separation of less than 10 nautical miles is permitted provided the trailing aircraft is operating at a speed that will permit it to overtake the lead aircraft, and both are vertically separated.
- e. Ensure that handoff requests are made at least 10 nautical miles prior to the relevant airspace boundary unless otherwise specified in this document. Handoff requests may be initiated up to 50 nautical miles without prior coordination.
 - i. NOTE: Transfer of radio communications should be made when H/O accepted and can be delayed no later than the lateral boundary.
- f. The receiving ARTCC has control for beacon code changes and turns, when aircraft are within 20 nautical miles of the common ZOB/ZID boundary. The maximum turn must not exceed 20 degrees off course and must not affect another sector without proper coordination.

**VATUSA CLEVELAND ARTCC AND VATUSA INDIANAPOLIS ARTCC
LETTER OF AGREEMENT**

- g. Ensure that all scratchpad entries are cleared unless required to convey operational information (e.g. "M80" for assigned Mach number, "H####" for assigned heading) not coordinated by other means (e.g. private message, verbally, etc.).
- h. Ensure the data block is formatted as follows:
 - i. Data blocks must reflect the aircraft's assigned altitude at the time of handoff.
 - ii. No scratchpad, except if specific control instructions that differ from LOA procedures have been issued. In these cases, the alternate instruction shall be verbally or textually included as well as included in the scratchpad.
Scratchpad entries may include:
 - 1. Indicated speed restrictions (e.g., "S210", "S270+"). Clients only capable of 4-characters remove the "0" if needed (e.g., "S27+")
 - 2. "M" for Mach speed restrictions (e.g., "M81", "M78+")
 - 3. "H" for heading assignments (e.g., "H230")
 - 4. "H" and direction for deviations (e.g., "H15L" for 15 degrees left of track)

6. ATTACHMENTS

- a. Attachment A – Permanent Route/Altitude Restrictions from ZID to ZOB
- b. Attachment B – Permanent Route/Altitude Restrictions from ZOB to ZID
- c. Attachment C – ZID Airspace Delegation to ZOB
- d. Attachment D – ZOB Airspace Delegation to ZID

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**VATUSA CLEVELAND ARTCC AND VATUSA INDIANAPOLIS ARTCC
LETTER OF AGREEMENT**

**ATTACHMENT A - PERMANENT ROUTES/ALTITUDE RESTRICTIONS
FROM ZID TO ZOB**

Arrival Airports(s)	Qualifier		Route Via	Altitude (Cross ZOB/ZID common boundary, unless otherwise noted) ₂
KDTW ₃	West of APE	RNAV	...TORRR. HANBL#/LECTR#	TORRR AOB FL210
		Non-RNAV	TORRR.TWERP	AOB FL190
	East of APE	RNAV	...JAMOX. BONZZ#/KLYNK#	BOBCT AOB FL300
			...SUBWY. CRAKN#/HTROD#	COLTZ AOB FL300
		Non-RNAV	...BOBCT.DJB.DXO	AOB FL280
KDTW ₁ CYQG, KARB, KDET, KONZ, KOZW, KPTK, KTF, KVLL, KYIP, Y47, 1D2, 3TE	West of APE	RNAV	...TORRR.PETTE#	AOB FL190
		Non-RNAV	TORRR TWERP EDGEE CRUXX	
	East of APE	RNAV	...BOBCT.FOREY#	AOB FL280
		Non-RNAV	...BOBCT DJB DXO	
KCLE	West of APE	RNAV	...ROKNN#	HEADZ AOB FL210
		Non-RNAV	...MFD	AOB FL190
	East of APE	RNAV	...ROLLN#	GEDDY AOB FL210
		Non-RNAV	...BOBCT DJB	AOB FL190
KCAK	North of ZZV	RNAV	HUUVR#	X HUUVR 9K
		Non-RNAV	...APE BSV	AOB 9,000'
	South of ZZV	RNAV	ZZIPS#	JPU FL250
		Non-RNAV	...JPU BSV	AOB FL230
KPIT	North of ZZV	RNAV	...CTW.FEWGA#	CTW AOB FL190
		Non-RNAV	...CTW AIR WISKE	
	South of ZZV	RNAV	...HNN/JPU.FEWGA#	JPU FL210
		Non-RNAV	...JPU AIR WISKE	
KMFD			...MFD	AOB 8,000'
KTOL			...VWV	AOB FL200
KCKB			...CKB	@ 7,000'

**VATUSA CLEVELAND ARTCC AND VATUSA INDIANAPOLIS ARTCC
LETTER OF AGREEMENT**

**ATTACHMENT B - PERMANENT ROUTES/ALTITUDE RESTRICTIONS
FROM ZOB TO ZID**

Arrival Airports(s)	Qualifier		Route Via	Altitude (Cross ZOB/ZID common boundary, unless otherwise noted) ²
KCVG	East of BUD	RNAV	...APE/CTW.TIGRR#	AOB FL320
		Non-RNAV	...APE.CINCE#	
	West of BUD		...SINKR/RINTE..DQN	ROD FL240
KIND	East of MFD	RNAV	... RINTE.SNKPT#	
		Non-RNAV	... ROD.CLANG#	
	West of MFD	RNAV	... JEEDR.SNKPT#	
		Non-RNAV	...FWA.CLANG#	
KSDF	RNAV		... MALDN/UKATS.DLAMP#	
	Non-RNAV		...APE/ROD.RDSTN#	
KCMH	West of MFD		...FBC.GUNNE#	ESSIE AOB 10K'
	MFD to CTW		... APE	AOB 14K'
	East of CTW		...BREMN#	HISOM AOB FL180
KDAY	West of MFD		...ROD	AOB 14K'
	East of MFD		...APE.DANEI#	AOB FL280
KCRW			...JPU	AOB FL180

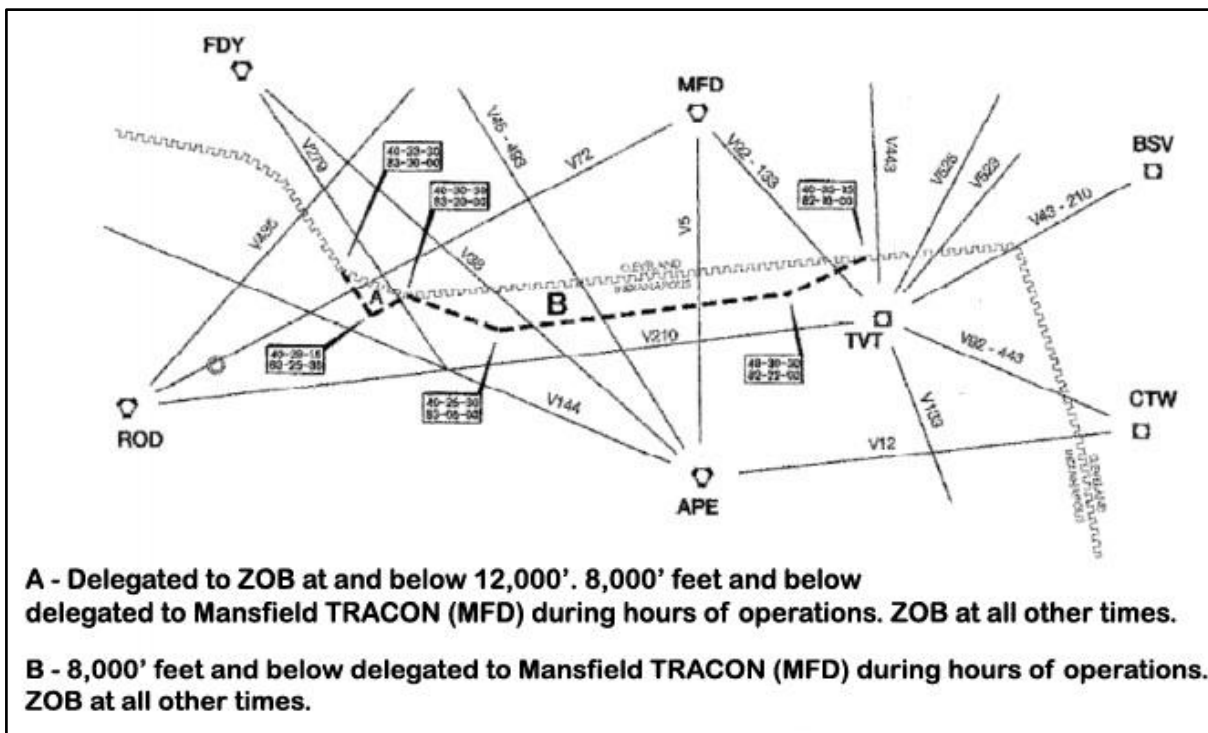
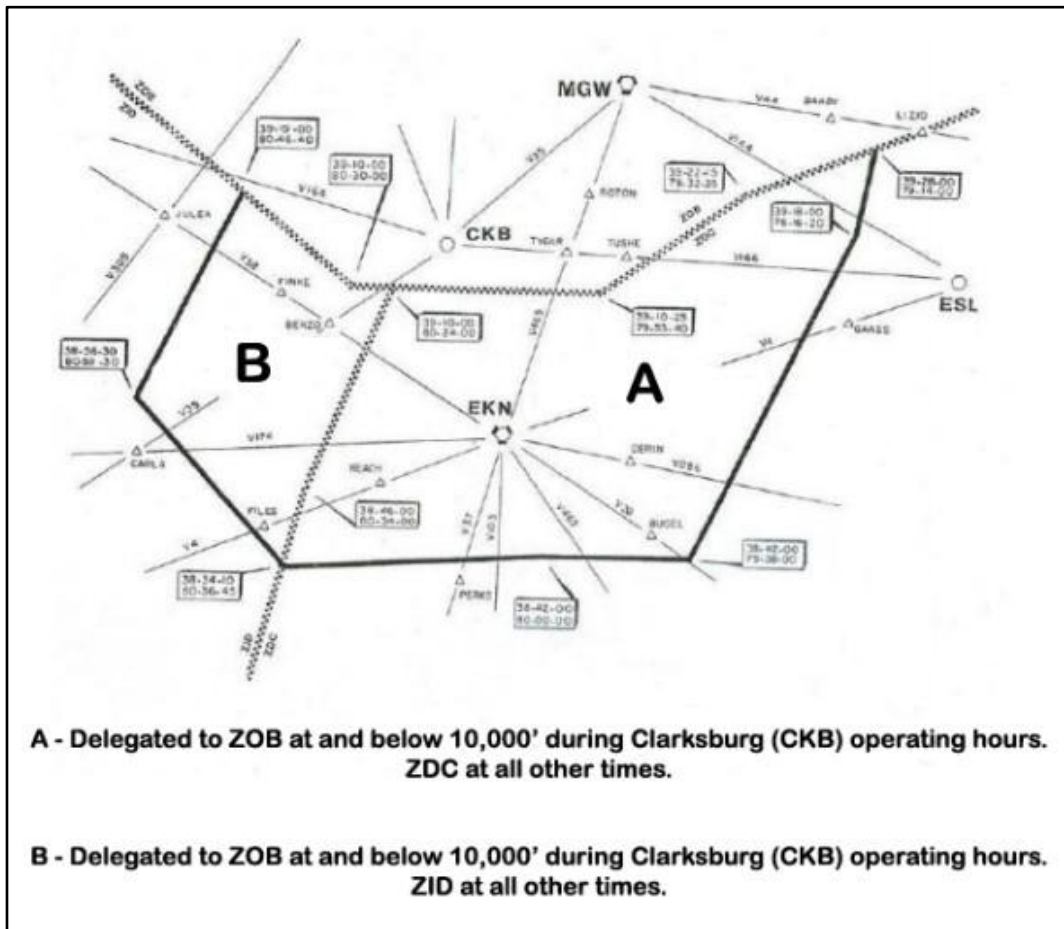
¹ Detroit Satellite Arrivals (see Attachment A)

² Aircraft whose destination airports lie within 30NM of the ZOB/ZID common boundary must enter the receiving facility's airspace AOB 11,000' unless otherwise noted in Attachment A and/or Attachment B.

³ ZID shall release control for descents and route amendments for all DTW arrivals on initial contact.

VATUSA CLEVELAND ARTCC AND VATUSA INDIANAPOLIS ARTCC
LETTER OF AGREEMENT

ATTACHMENT C - ZID AIRSPACE DELEGATION TO ZOB



VATUSA CLEVELAND ARTCC AND VATUSA INDIANAPOLIS ARTCC
LETTER OF AGREEMENT

ATTACHMENT D - ZOB AIRSPACE DELEGATION TO ZID

