

SUBJ: Denver ARTCC and Los Angeles ARTCC Letter of Agreement

This order was established to provide Standard Operating Procedures and Standard Coordination Procedures for Los Angeles ARTCC (vZLA) and Denver ARTCC (vZDV) and is supplementary to FAA Order 7110.65, Air Traffic Control.

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Denver ARTCC

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Effective 09/08/2023

This order cancels all previous ZDV/ZLA LOA(s)

Not to be used for real world use.

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or the real Denver Air Route Traffic Control Center.*

Section 1 - Introduction

1-1-1. Audience

All vZDV controllers and visitors contained within the vZDV, vZLA, and VATUSA roster.

1-1-2. Distribution

This document is authorized for unrestricted use and release.

1-1-3. Effective

This order is effective upon immediate release and cancels all previous versions and publications of the VATSIM ZLA/ZDV LOA.

1-1-4. Change Log

All significant changes shall be maintained in the change log contained in Section 2 of this document

1-1-5. Deviations from Procedures

If an operational advantage or an increase in system efficiency can be achieved and an equivalent degree of safety maintained, deviations from the procedures established in this Order may be affected after coordination is accomplished completely defining the responsibilities in each case as follows:

- a. On an individual basis, after coordination between controllers involved has been accomplished;
- b. On other than an individual basis, after coordination between TMU/CICs involved, these deviations must specify a time period for cancellation.

Section 2 - Change Log

| Revision Number | Revision Effective Date | Changelog | Revised By | Approvals |
|-----------------|-------------------------|-----------------|------------------|--------------------------------------|
| 1 | 09/08/2023 | Initial Release | Raaj P ZDV ATM | Raaj P ZDV ATM Nick C ZLA ATM |
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Table 2-2-1

Section 3 - Procedures

3-1. Interfacility Procedures

- a. Definitions:
 - i. Empire Area: KONT, KCNO, KPOC, KAJ0, KEMT, KRAL, KSBD airports
 - ii. Coast Area: KSNA, KLGB, KTOA, KFUL airports
 - iii. Burbank Area: KBUR, KVMY airports
 - iv. San Diego Area: KSAN, KMYF, KCRQ, KSEE airports
 - v. SoCal Area: All airports in Southern California
 - vi. Las Vegas Area: KLAS, KVGX, KHND, KLSV airports
- b. Each ARTCC shall route/restrict aircraft in accordance with Section 6/Section 7.
 - i. Aircraft unable to comply with required routes or altitudes must be coordinated with the receiving ARTCC on an individual basis.
 - ii. Either center may provide direct routing to RNAV or GPS equipped aircraft with destinations in the receiving center's airspace no further than a transition point on a published STAR, excluding those in Sections 6/7..
- c. Transponder codes may be changed without coordination upon receipt of radar identification.
- d. The receiving controller must have control for turns 20 degrees left or right of course for aircraft within 20 NM from the common boundary.

3-2. Data Block Coordination and Interim Altitude Procedures.

- a. Data blocks must reflect the aircraft's assigned altitude at the time of handoff.
- b. Handoffs must be directed to the appropriate sector for the aircraft's altitude assignment.
 - i. Acceptance of a radar handoff constitutes approval coordination for that aircraft to climb or descend to the displayed altitude.
- c. When unable to approve the automated altitude, the receiving controller must coordinate with the transferring controller prior to acceptance of the handoff.

3-3. Sector Stratification

- a. Denver ARTCC sectors are stratified at FL260 and below for low altitude sectors and FL270 and above for high altitude sectors.

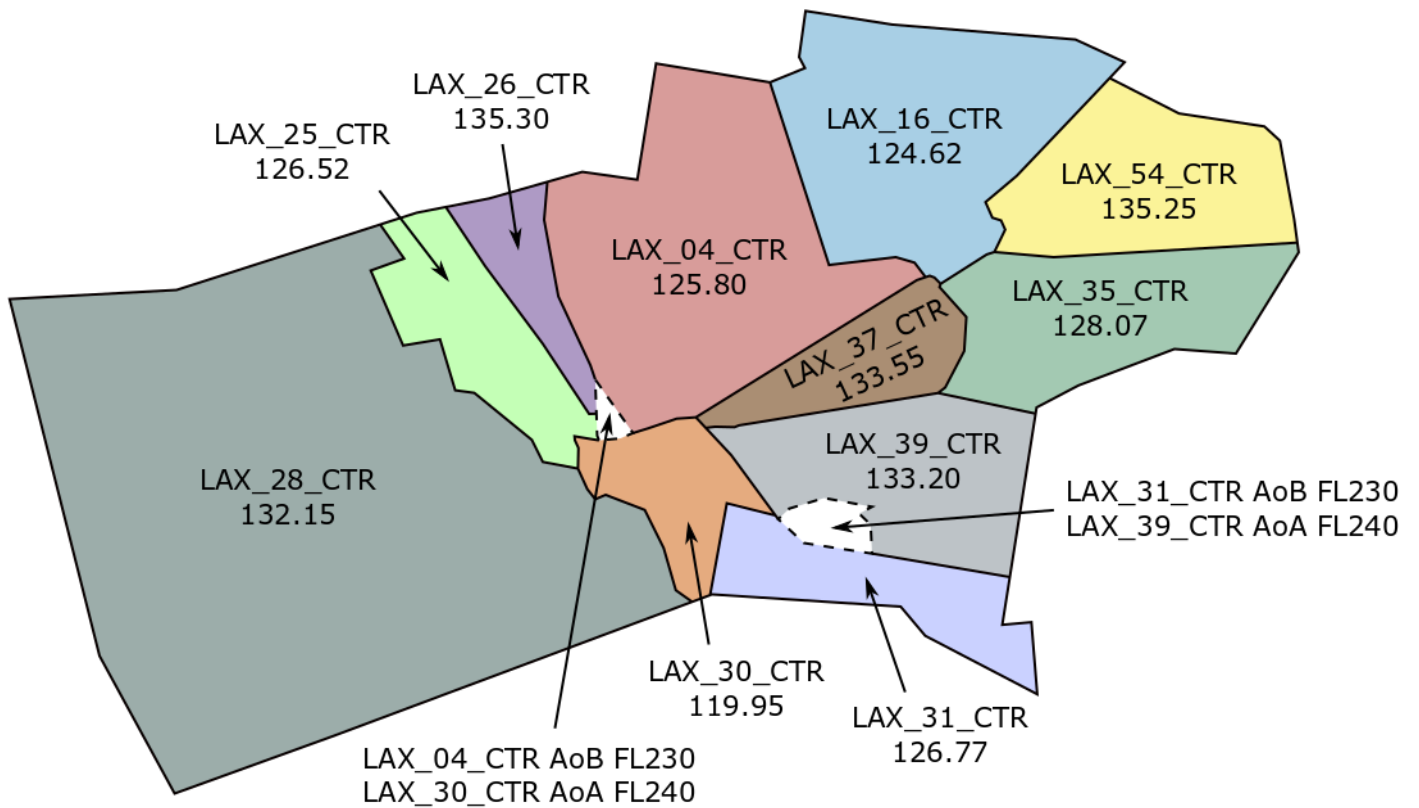
3-2. Point-Out Altitude Requirements

- a. A controller making an intra-facility point-out may omit altitude information, as long as the data block accurately reflects this information.
 - i. Climbs/descents at pilot's discretion must be verbally coordinated.
 - ii. When utilizing automated point-outs, verbal coordination must be utilized for IAFDOF and non-RVSM aircraft.

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Section 4. ZLA Standard Sectorization

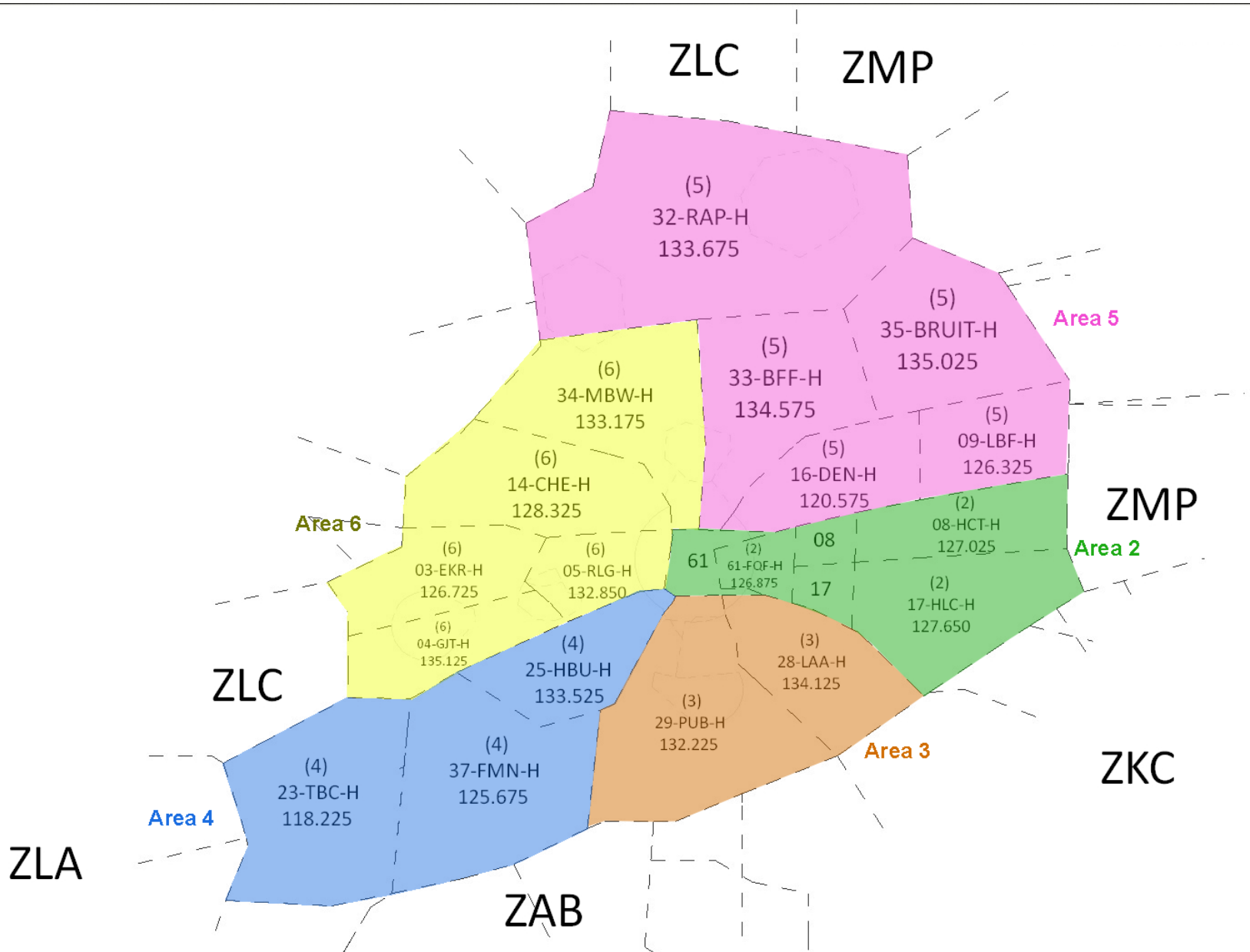
4-1. ZLA High Sectors



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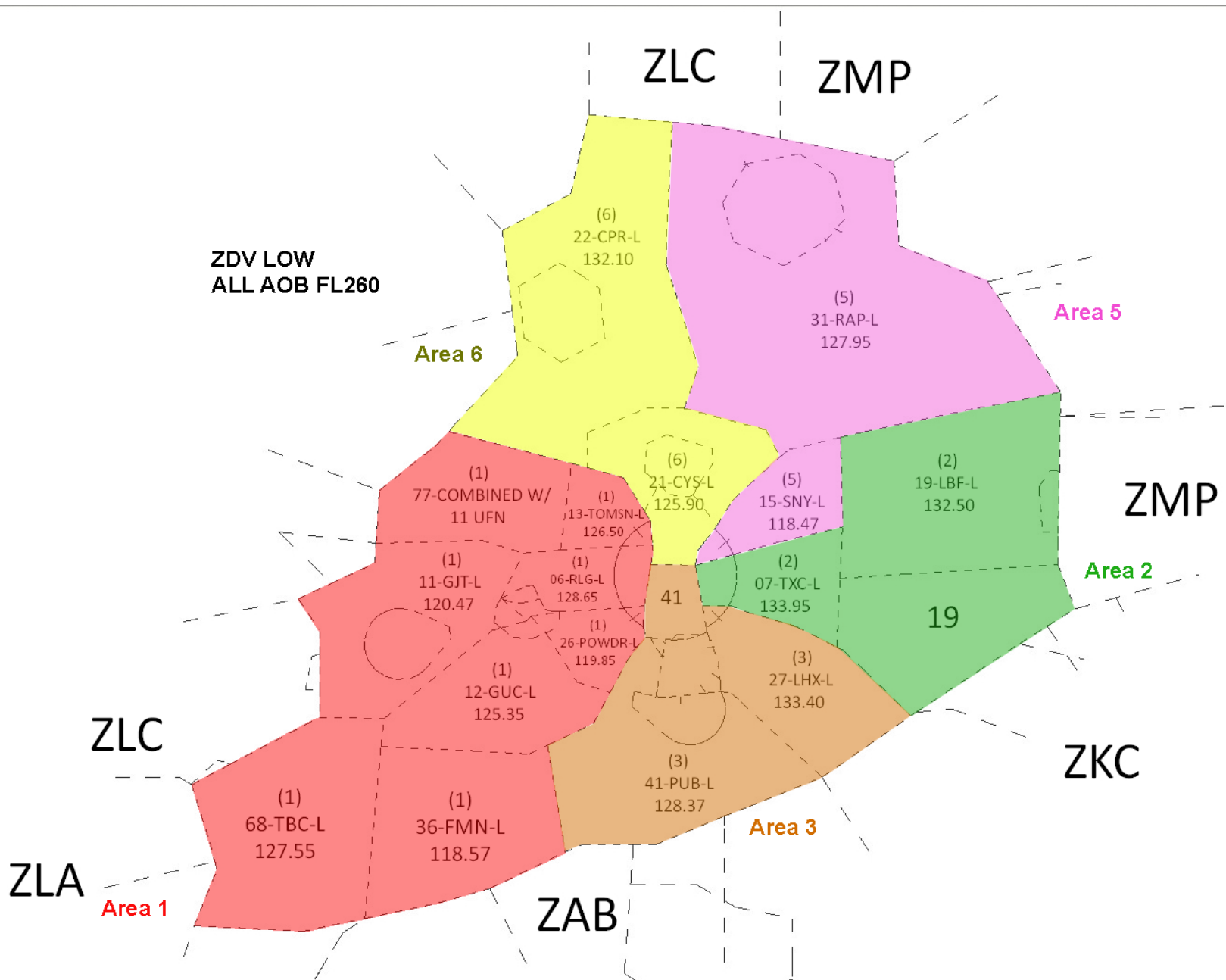
Section 5. ZDV Standard Sectorization

5-1. ZDV High Sectors



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5-2. ZDV Low Sectors



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5-3. ZDV Single Sector Operations

- a. All sectors combine into/decombine from Area 2. Thus when ZDV is fully combined ZLA shall handoff to DEN_2_CTR operating on 127.650.

5-4. ZDV Sectors/Splits

Stations are organized as follows:

- DEN_#_CTR will provide coverage for the area specified (1-6); e.g. DEN_2_CTR for Area 2
 - DEN_#R_CTR will provide relief coverage for the area specified.
- DEN_##_CTR will provide coverage for the sector specified (03-77); e.g. DEN_02_CTR for Sector 2
 - DEN_##R_CTR will provide relief coverage for the sector specified

Section 6. ZDV Required Routings

| LANDING ARPT | QUALIFIER | Altitude | ROUTE/RESTRICTION |
|--------------|---------------|-----------|--------------------------|
| DEN | | AOA FL270 | BUMMP.SSKII STAR |
| | | AOA FL270 | SHNPS.TBARR STAR |
| | Non-RNAV Jets | All | HBU.POWDR STAR |
| COS | All | All | ./..HBU.DBRY STAR |
| APA | RNAV Jets | AOA FL270 | STIFS.ZOMBZ STAR |
| ASE | All | All | DICEE..LOYYD..SKIER..DBL |

Section 7. ZLA Required Routing

| LANDING ARPT | QUALIFIER | ALTITUDE | ROUTE/RESTRICTION |
|-----------------------|---|-----------|---|
| LAX | Landing West | | HAKMN ANJLL STAR DNERO ANJLL STAR TBC J236 EED TNP SEAVU STAR [NON-RNAV] |
| | Landing East | | DNERO ANJLL STAR DNERO BIGBR STAR HEC BASET STAR [NON-RNAV] |
| | Noise Abatement (Landing 6R, Departing 25R) | | HAKMN MDNYT STAR DNERO MDNYT STAR HEC BASET STAR [NON-RNAV] |
| | Non-Turbojet (All landing configurations) | | HEC.PMD.KIMMO STAR |
| LAS | RNAV Turbojet | AOB FL320 | SQIRE RKSTR STAR TYEGR CHOWW STAR |
| | Non-RNAV Turbojets | AOB FL320 | PGA BLAID STAR |
| | RNAV Prop | | PGA.BOEGY.T338.LNDIN PGS.BOEGY.T338.LNDIN |
| HND | RNAV | | BOEGY STAR |
| VGT | RNAV | | WYLND STAR |
| Las Vegas Area | Non-RNAV Props | | PGA.MEADS.V562.LAS |
| SAN | Landing West | | TTRUE LUCKI STAR TNP BARET STAR [NON-RNAV] |
| | Landing East | | TTRUE TOPGN STAR TNP BARET STAR [NON-RNAV] |
| SNA | Landing South | | MARUE DSNEE STAR NATEE DSNEE STAR HEC.KAYOH STAR [NON-RNAV] |
| | Landing North | | MARUE ROOBY STAR NATEE ROOBY STAR HEC KAYOH STAR [NON-RNAV] |

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|---------------------|----------|--|---|
| ONT | Turbojet | | MARUE EAGLZ STAR NATEE EAGLZ STAR |
| Empire Area | Turbojet | | HEC.ZIGGY STAR [Non-RNAV] |
| Burbank Area | | | WELUM JANNY STAR PURSE JANNY STAR HEC LYNXX STAR [NON-RNAV] |