

# Advisory Circular

U.S. Department  
of Transportation

Federal Aviation  
Administration

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**Subject: NORTH AMERICAN ROUTE PROGRAM (NRP)**      **Date:**      **AC No: 90-91E**  
**Initiated by: ATT-1**      **Change:**

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1. **PURPOSE.** This Advisory Circular provides guidance to users of the airspace system for participation in the North American Route Program (NRP).
2. **CANCELLATION.** Advisory Circular 90-91D dated August 23, 1999, National Route Program, is cancelled.
3. **BACKGROUND.** The North American Route Program is a joint Federal Aviation Administration (FAA) and NAV CANADA program, which harmonizes procedures between the FAA National Route Program and the Canadian Domestic Random Route Program. The objective of the NRP is to harmonize and adopt common procedures, to the extent possible, applicable to random route flight operations at and above Flight Level 290 (FL290) within the conterminous United States and Canada. Additionally, North Atlantic international flights operating within the North American Route (NAR) system, are eligible to participate in the NRP within specific guidelines and filing requirements, outlined in the Canadian Aeronautical Information Regulations and Control (AIRAC). The NRP has been implemented through various phases with the end result of allowing all international and domestic flight operations to participate in the NRP throughout the conterminous United States, Alaska, and Canada. This program allows aircraft operators to select operationally advantageous routings. These route selections could be based on factors such as minimum time, cost, fuel, weather avoidance, aircraft limitations and/or other factors.
4. **REQUIREMENTS.** Flights may participate in the NRP under specific guidelines and filing requirements provided the flight originates and terminates within the conterminous United States and Canada, or for North Atlantic international flights operating within the NAR system. NRP aircraft are not subject to route limiting restrictions (e.g., published preferred instrument flight rules (IFR) routes) beyond a 200NM radius of their point of departure (egress) or outside a 200 NM radius of their destination (ingress). Operators should refer to the Canadian AIRAC procedures for specific requirements while operating within Canadian airspace.
5. **PROCEDURES.**
  - a. Flights should be filed and flown via Departure Procedures (DP's), Standard Terminal Arrival Routes (STAR), or published preferred IFR routes for at least that portion of flight which is within 200NM from the point of departure (egress) or destination (ingress), (except as stated in paragraph 5b below). If the procedure(s) above are less than 200 NM, published airways may be used for the remainder of the 200 NM. If published procedure(s) do not exist, published airways may be used for the entire 200NM.
  - b. Flights may be filed and flown on the complete transition of DP's and/or STAR's for the airport areas listed in Appendix 1, Departure Procedures, and Appendix 2, Standard Terminal Arrival Routes, in lieu of the 200 NM ingress/egress filing requirements described in paragraph 5a above.

c. Flights should not be filed via DP/NRP/STAR transitions within offshore transition areas (12 miles or more off the United States shoreline).

d. Operators should ensure that the route of flight contains no less than one navigational aid (NAVAID), or waypoint (in the fix radial distance (FRD) format) in each delegated area of airspace jurisdiction for each FAA Air Route Traffic Control Center (ARTCC) in which a direct route segment traverses. These NAVAID's, or waypoints must be located within 200 NM of the preceding FAA ARTCC's boundary. Additional route description fixes for each turn point should be defined. Within Canadian airspace, a significant point (NAVAID/waypoint) may also be identified by a coordinate in degrees and minutes of latitude and longitude.

e. For routes that cross the United States/Canadian border west of Sault St. Marie (SSM), a significant point within 30 nautical miles of either side of the border should be filed. For those flights filed east of SSM file on one of these eight fixes: Sault St. Marie (SSM), London, Ontario (YXU) or QUBIS, TAFFY, TOPPS, EBONY, ALLEX, TUSKY.

f. Operators within the United States should ensure that the route avoids active restricted areas and prohibited areas by at least 3 NM unless permission has been obtained from the using agency to operate in that airspace and the appropriate air traffic control facility has been advised.

g. Operators should ensure that "NRP" is entered in the remarks section of each flight plan.

NOTE: "NRP" will be retained in the remarks section of the flight plan if the aircraft is moved due to weather, traffic, or other tactical reasons. In these situations, every effort will be made to ensure the aircraft is returned to the original filed flight plan/altitude as soon as conditions permit. If the route of flight is altered due to pilot requested or controller initiated direct route, "NRP" will be removed from the remarks section of the flight plan, and the flight will be considered as a non-participant of the NRP.

h. Flight plans should be filed at least one hour prior to departure.

i. Operators should not file a NRP route that conforms to published preferred IFR route(s).

j. Flights not meeting the FAA guidelines contained within this Advisory Circular are to be requested through the FAA nonpreferred route programs. Those requests will be approved or disapproved on a workload-permitting basis.



Bill Peacock  
Program Director for  
Air Traffic Tactical Operations

**APPENDIX 1. DEPARTURE PROCEDURES (DP)**

| <b>ARTCC</b> | <b>DP NAME</b>               | <b>TRANSITION</b>  | <b>PROCEDURE</b>   | <b>AIRPORT AREA</b>  |
|--------------|------------------------------|--|--|--|
| ZDV          | Denver Three                 | Rock Springs (OCS)<br>Meeker (EKR)<br>Red Table (DBL)<br>Grand Junction (JNC)<br>Blue Mesa (HBU)<br>Pueblo (PUB)<br>Garden City (GCK)<br>Goodland (GLD)<br>Hayes Center (HCT)<br>Sidney (SNY)<br>Cheyenne (CYS)<br>Laramie (LAR) | Vector<br>Vector<br>Vector<br>Vector<br>Vector<br>Vector<br>Vector<br>Vector<br>Vector<br>Vector<br>Vector<br>Vector | Denver Intl<br>Denver Intl<br>Denver Intl<br>Denver Intl<br>Denver Intl<br>Denver Intl<br>Denver Intl<br>Denver Intl<br>Denver Intl<br>Denver Intl<br>Denver Intl<br>Denver Intl |
| ZDV          | Pikes Two (PIKES2)           | Pueblo (PUB)<br>Alamosa (ALS)  | Pilot Nav<br>Pilot Nav   | Denver/Jeffco<br>Denver/Jeffco   |
| ZDV          | Plains Two (PLAIN2)          | Garden City (GCK)<br>Goodland (GLD)<br>Hayes Center (HCT)<br>McCook (MCK)  | Pilot Nav<br>Pilot Nav<br>Pilot Nav<br>Pilot Nav   | Denver/Jeffco<br>Denver/Jeffco<br>Denver/Jeffco<br>Denver/Jeffco   |
| ZDV          | Rockies Three<br>(ROCKI3)    | Blue Mesa (HBU)<br>Dove Creek (DVC)<br>Kremmling (RLG)<br>Meeker (EKR)<br>Red Table (DBL)  | Pilot Nav<br>Pilot Nav<br>Pilot Nav<br>Pilot Nav<br>Pilot Nav  | Denver/Jeffco<br>Denver/Jeffco<br>Denver/Jeffco<br>Denver/Jeffco<br>Denver/Jeffco  |
| ZDV          | Yellowstone One<br>(YELLOW1) | Cheyenne (CYS)<br>Hanki (HANKI)<br>Laramie (LAR)<br>Medicine Bow (MBW)<br>Scottsbluff (BFF)  | Pilot Nav<br>Pilot Nav<br>Pilot Nav<br>Pilot Nav<br>Pilot Nav  | Denver/Jeffco<br>Denver/Jeffco<br>Denver/Jeffco<br>Denver/Jeffco<br>Denver/Jeffco  |
| ZLC          | Fairfield Four<br>(FFU4)     | Bryce Canyon (BCE)<br>Delta (DTA)<br>Hanksville (HVE)<br>Milford (MLF)   | Pilot Nav<br>Pilot Nav<br>Pilot Nav<br>Pilot Nav   | Salt Lake City<br>Salt Lake City<br>Salt Lake City<br>Salt Lake City   |

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|--------------|----------------------|--|--|--|
| ZLC          | Jazz Two (JAZZZ2)    | Mina (MVA)   | Vector   | Salt Lake City   |
| ZLC          | Milford Three (MLF3) | Milford (MLF)<br>Coaldale (OAL)  | Vector<br>Vector   | Salt Lake City<br>Salt Lake City   |
| ZLC          | Oquirrh One (OQUR1)  | Mina (MVA)   | Vector   | Salt Lake City   |
| ZLC          | Salt Lake Six (SLC6) | Rock Springs (OCS)<br>Myton (MTU)<br>Mina (MVA)<br>Twin Falls (TWF)<br>Malad City (MLD)  | Vector<br>Vector<br>Vector<br>Vector<br>Vector   | Salt Lake City<br>Salt Lake City<br>Salt Lake City<br>Salt Lake City<br>Salt Lake City   |
| ZAB          | Largo Two (LARGO2)   | Farmington (FMN)<br>Gallup (GUP)<br>Zuni (ZUN)   | Pilot Nav<br>Pilot Nav<br>Pilot Nav  | Albuquerque<br>Albuquerque<br>Albuquerque  |
| ZAB          | Albuquerque One      | Socorro (ONM)<br>Corona (CNX)<br>Texico (TXO)<br>Tucumcari (TCC)<br>Las Vegas (LVS)<br>Taos (TAS)<br>Alamosa (ALS)<br>Durango (DRO)<br>Farmington (FMN)<br>Gallup (GUP)<br>Zuni (ZUN)<br>St. Johns (SJN) | Vector<br>Vector<br>Vector<br>Vector<br>Vector<br>Vector<br>Vector<br>Vector<br>Vector<br>Vector<br>Vector<br>Vector | Albuquerque<br>Albuquerque<br>Albuquerque<br>Albuquerque<br>Albuquerque<br>Albuquerque<br>Albuquerque<br>Albuquerque<br>Albuquerque<br>Albuquerque<br>Albuquerque<br>Albuquerque |
| ZAB          | Tucson Six (TUS6)    | Cochise (CIE)<br>Gila Bend (GBN)<br>Phoenix (PXR)<br>San Simon (SSO)<br>Sunns (SUNNS)  | Pilot Nav<br>Pilot Nav<br>Pilot Nav<br>Pilot Nav<br>Pilot Nav  | Tucson<br>Tucson<br>Tucson<br>Tucson<br>Tucson   |

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| ARTCC | DP NAME                         | TRANSITION        | PROCEDURE | AIRPORT AREA               |
|-------|---------------------------------|-------------------|-----------|----------------------------|
| ZMP   | Minneapolis Eight<br><br>(MSP8) | Aberdeen (ABR)    | Vector    | Minneapolis-St. Paul Intl. |
|       |                                 | Grand Forks (GFK) | Vector    | Minneapolis-St. Paul Intl. |
|       |                                 | Fargo (FAR)       | Vector    | Minneapolis-St. Paul Intl. |
|       |                                 | Omaha (OVR)       | Vector    | Minneapolis-St. Paul Intl. |
|       |                                 | Brainerd (BRD)    | Vector    | Minneapolis-St. Paul Intl. |
|       |                                 | Duluth (DLH)      | Vector    | Minneapolis-St. Paul Intl. |
|       |                                 | Green Bay (GRB)   | Vector    | Minneapolis-St. Paul Intl. |
|       |                                 | Nodine (ODI)      | Vector    | Minneapolis-St. Paul Intl. |
|       |                                 | Dells (DLL)       | Vector    | Minneapolis-St. Paul Intl. |
|       |                                 | Rochester (RST)   | Vector    | Minneapolis-St. Paul Intl. |
|       |                                 | Des Moines (DSM)  | Vector    | Minneapolis-St. Paul Intl. |
|       |                                 | Kansas City (MKC) | Vector    | Minneapolis-St. Paul Intl. |
|       |                                 | Fort Dodge (FOD)  | Vector    | Minneapolis-St. Paul Intl. |
|       |                                 | St. Joseph (STJ)  | Vector    | Minneapolis-St. Paul Intl. |
|       |                                 | O'Neill (ONL)     | Vector    | Minneapolis-St. Paul Intl. |
|       |                                 | Sioux Falls (FSD) | Vector    | Minneapolis-St. Paul Intl. |
|       |                                 | Rapid City (RAP)  | Vector    | Minneapolis-St. Paul Intl. |
| ZMP   | Snine Two<br>(SHINE2)           | Green Bay (GRB)   | Vector    | Minneapolis-St. Paul Intl. |
| ZSE   | Summa Five<br>(SUMMA5)          | Summa (SUMMA)     | Vector    | Seattle-Tacoma Intl.       |

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|-------|------------------------|--|---|---|
| ZSE   | Mountain Four          | Moses Lake (MWH)   | Vector  | Seattle-Tacoma Intl.  |
| ZSE   | Elmaa Six (ELMAA6)     | Elmaa (ELMAA)  | Pilot Nav   | Seattle-Tacoma Intl.  |
| ZSE   | Portland Five (PTLD5)  | Eugene (EUG)<br>Klickitat (LTJ)<br>Deschutes (DSD)                                       | Vector<br>Vector<br>Vector                                    | Portland Intl.<br>Portland Intl.<br>Portland Intl.            |
| ZSE   | River Six (RIVR6)      | Eugene (EUG)<br>Klickitat (LTJ)<br>Deschutes (DSD)                                       | Vector<br>Vector<br>Vector                                    | Portland Intl.<br>Portland Intl.<br>Portland Intl.            |
| ZKC   | Chief Two (CHIEF2)     | Angey (ANGEY)<br>St. Joseph (STJ)  | Pilot Nav<br>Pilot Nav  | Kansas City<br>Kansas City                                    |
| ZKC   | Lakes Three (LAKES3)   | Columbia (COU)   | Pilot Nav   | Kansas City   |
| ZKC   | Racer Two (RACER2)     | Dosoa (DOSOA)<br>Springfield (SGF)   | Pilot Nav<br>Pilot Nav  | Kansas City<br>Kansas City                                    |
| ZKC   | Tifto One (TIFTO1)     | Tifto (TIFTO)  | Pilot Nav   | Kansas City   |
| ZKC   | Wildcat One (WLDCT1)   | Kentn (KENTN)<br>Salina (SLN)<br>Wichita (ICT)   | Pilot Nav<br>Pilot Nav<br>Pilot Nav                           | Kansas City<br>Kansas City<br>Kansas City                     |
| ZKC   | Blues Two (BLUES2)     | Louisville (IIU)   | Pilot Nav   | St. Louis   |
| ZKC   | Gateway Four (GATWY4)  | Brickyard (VHP)<br>Creep (CREEP)<br>Rosewood (ROD)                                       | Pilot Nav<br>Pilot Nav<br>Pilot Nav                           | St. Louis<br>St. Louis<br>St. Louis                           |
| ZKC   | Lindbergh Two (LINDY2) | Little Rock (LIT)<br>Malden (MAW)<br>Maples (MAP)<br>Myerz (MYERZ)<br>Walnut Ridge (ARG) | Pilot Nav<br>Pilot Nav<br>Pilot Nav<br>Pilot Nav<br>Pilot Nav | St. Louis<br>St. Louis<br>St. Louis<br>St. Louis<br>St. Louis |

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|--------------|-----------------------------|---|--|--|
| ZKC          | Ozark Two (OZARK2)          | Macon (MCM)   | Pilot Nav  | St. Louis  |
| ZKC          | Pless One (PLESS1)          | Denni (DENNI)<br>Nashville (BNA)  | Pilot Nav<br>Pilot Nav   | St. Louis<br>St. Louis   |
| ZKC          | Turbo Three (TURBO3)        | Decatur (DEC)<br>Pocket City (PXV)<br>Thomp (THOMP)   | Pilot Nav<br>Pilot Nav<br>Pilot Nav  | St. Louis<br>St. Louis<br>St. Louis  |
| ZHU          | Intercontinental One (IAH1) | Leona (LOA)<br><br>Frankston (FZT)<br><br>Lufkin (LFK)<br><br>Pekon (PEKON)<br><br>Rikks (RIKKS)              | Vector<br><br>Vector<br><br>Vector<br><br>Vector<br><br>Vector             | Bush<br>Intercontinental<br>Bush<br>Intercontinental<br>Bush<br>Intercontinental<br>Bush<br>Intercontinental<br>Bush<br>Intercontinental |
| ZHU          | Hobby One (HUB1)            | Leona (LOA)<br><br>Frankston (FZT)<br><br>Lufkin (LFK)<br><br>Pekon (PEKON)<br><br>Rikks (RIKKS)              | Vector<br><br>Vector<br><br>Vector<br><br>Vector<br><br>Vector             | William P. Hobby<br>William P. Hobby<br>William P. Hobby<br>William P. Hobby<br>William P. Hobby<br>William P. Hobby                     |
| ZHU          | Alamo Five (ALAMO5)         | Jumbo (JUMBO)<br>Lampasas (LZZ)<br>Eagle Lake (ELA)<br>Hobby (HUB)  | Pilot Nav<br>Pilot Nav<br>Pilot Nav<br>Pilot Nav                           | San Antonio<br>San Antonio<br>San Antonio<br>San Antonio   |
| ZHU          | Bowie One (BOWIE1)          | Corpus Christi (CRP)<br>Laredo (LRD)<br>Lejon (LEGON)<br>Milet (MILET)<br>Shuck (SHUCK)<br>Three Rivers (THX) | Pilot Nav<br>Pilot Nav<br>Pilot Nav<br>Pilot Nav<br>Pilot Nav<br>Pilot Nav | San Antonio<br>San Antonio<br>San Antonio<br>San Antonio<br>San Antonio<br>San Antonio   |

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|--------------|-----------------------|-----------------------|------------------|------------------------|
| ZFW          | Dallas Four (DALL4)   | El Dorado (ELD)       | Pilot Nav        | Dallas/Ft. Worth Intl. |
|              |                       | Little Rock (LIT)     | Pilot Nav        | Dallas/Ft. Worth Intl. |
|              |                       | Meridian (MEI)        | Pilot Nav        | Dallas/Ft. Worth Intl. |
|              |                       | Sidon (SQS)           | Pilot Nav        | Dallas/Ft. Worth Intl. |
| ZFW          | Joe Pool Six (JPOOL6) | College Station (CLL) | Pilot Nav        | Dallas/Ft. Worth Intl. |
|              |                       | San Antonio (SAT)     | Pilot Nav        | Dallas/Ft. Worth Intl. |
| ZFW          | Texoma Five (TEX5)    | Rolls (ROLLS)         | Pilot Nav        | Dallas/Ft. Worth Intl. |
|              |                       | Tulsa (TUL)           | Pilot Nav        | Dallas/Ft. Worth Intl. |
|              |                       | Will Rogers (IRW)     | Pilot Nav        | Dallas/Ft. Worth Intl. |
| ZFW          | Worth Nine (WORTH9)   | Abilene (ABI)         | Pilot Nav        | Dallas/Ft. Worth Intl. |
|              |                       | Amarillo (AMA)        | Pilot Nav        | Dallas/Ft. Worth Intl. |
|              |                       | Boomer (BOOMR)        | Pilot Nav        | Dallas/Ft. Worth Intl. |
|              |                       | Corona (CNX)          | Pilot Nav        | Dallas/Ft. Worth Intl. |
|              |                       | Guthrie (GTH)         | Pilot Nav        | Dallas/Ft. Worth Intl. |
|              |                       | Texico (TXO)          | Pilot Nav        | Dallas/Ft. Worth Intl. |
|              |                       | Tucumcari (TCC)       | Pilot Nav        | Dallas/Ft. Worth Intl. |



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|------------------|-----------------|---------------------|------------------|---------------------|
| ZME              | Memphis Five    | Centralia (ENL)     | Vector           | Memphis Intl.       |
|                  |                 | Farmington (FAM)    | Vector           | Memphis Intl.       |
|                  |                 | Malden (MAW)        | Vector           | Memphis Intl.       |
|                  |                 | Springfield (SGF)   | Vector           | Memphis Intl.       |
|                  |                 | Razorback (RZC)     | Vector           | Memphis Intl.       |
|                  |                 | Fort Smith (FSM)    | Vector           | Memphis Intl.       |
|                  |                 | Texarkana(TXK)      | Vector           | Memphis Intl.       |
|                  |                 | Belcher (EIC)       | Vector           | Memphis Intl.       |
|                  |                 | Walnut Ridge (ARG)  | Vector           | Memphis Intl.       |
|                  |                 | Little Rock (LIT)   | Vector           | Memphis Intl.       |
|                  |                 | Pine Bluff (PBF)    | Vector           | Memphis Intl.       |
|                  |                 | El Dorado (ELD)     | Vector           | Memphis Intl.       |
|                  |                 | Greenville (GLH)    | Vector           | Memphis Intl.       |
|                  |                 | Sidon (SQS)         | Vector           | Memphis Intl.       |
|                  |                 | Jackson (JAN)       | Vector           | Memphis Intl.       |
|                  |                 | Dyersburg (DYR)     | Vector           | Memphis Intl.       |
|                  |                 | Nashville (BNA)     | Vector           | Memphis Intl.       |
|                  |                 | Jacks Creek (JKS)   | Vector           | Memphis Intl.       |
|                  |                 | Muscle Shoals (MSL) | Vector           | Memphis Intl.       |
|                  |                 | Hamilton (HAB)      | Vector           | Memphis Intl.       |
| Vulcan (VUZ)     | Vector          | Memphis Intl.       |                  |                     |
| Meridian (MEI)   | Vector          | Memphis Intl.       |                  |                     |
| Montgomery (MGM) | Vector          | Memphis Intl.       |                  |                     |
| ZME              | Nashville Eight | Brickyard (VHP)     | Vector           | Nashville Intl.     |
|                  |                 | Louisville (IUU)    | Vector           | Nashville Intl.     |
|                  |                 | Livingston (LVT)    | Vector           | Nashville Intl.     |
|                  |                 | St. Louis (STL)     | Vector           | Nashville Intl.     |
|                  |                 | Walnut Ridge (ARG)  | Vector           | Nashville Intl.     |
|                  |                 | Bowling Green (BWG) | Vector           | Nashville Intl.     |
|                  |                 | Dyersburg (DYR)     | Vector           | Nashville Intl.     |
|                  |                 | Graham (GHM)        | Vector           | Nashville Intl.     |
|                  |                 | Memphis (MEM)       | Vector           | Nashville Intl.     |
|                  |                 | Jacks Creek (JKS)   | Vector           | Nashville Intl.     |
|                  |                 | Muscle Shoals (MSL) | Vector           | Nashville Intl.     |
|                  |                 | Rocket (RQZ)        | Vector           | Nashville Intl.     |
|                  |                 | Jackson (JAN)       | Vector           | Nashville Intl.     |
|                  |                 | Vulcan (VUZ)        | Vector           | Nashville Intl.     |
|                  |                 | Rome (RMG)          | Vector           | Nashville Intl.     |
|                  |                 | La Grange (LGC)     | Vector           | Nashville Intl.     |
|                  |                 | Atlanta (ATL)       | Vector           | Nashville Intl.     |
|                  |                 | Choo Choo (GQO)     | Vector           | Nashville Intl.     |
|                  |                 | Volunteer (VXV)     | Vector           | Nashville Intl.     |



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|--------------|--------------------------|---|---|--|
| ZOA          | Byron One<br>(BYRON1)    | Sunol (SUNOL)   | Pilot Nav   | Livermore  |
| ZOA          | Danville One<br>(DANV1)  | Red Bluff (RBL)   | Pilot Nav   | San Jose   |
| ZOA          | Dores Two<br>(DORES2)    | Haire (HAIRE)<br>Loddi (LODDI)<br>Oakey (OAKEY)   | Pilot Nav<br>Pilot Nav<br>Pilot Nav                           | Stockton<br>Stockton<br>Stockton                                 |
| ZOA          | Dudes Nine<br>(DUDES9)   | Lovelock (LLC)<br>Mina (MVA)  | Pilot Nav<br>Pilot Nav  | Sacramento<br>Sacramento   |
| ZOA          | Dunbarton Six<br>(DUMB6) | Red Bluff (RBL)   | Pilot Nav   | San Francisco  |
| ZOA          | Eugene Five<br>(EUGEN5)  | Big Sur (BSR)   | Pilot Nav   | San Francisco  |
| ZOA          | Frees Five (FREES5)      | Santa Rosa (STS)<br>Scaggs Island (SGD)<br>Point Reyes (PYE)<br>Mendocino (ENI)             | Pilot Nav<br>Pilot Nav<br>Pilot Nav<br>Pilot Nav              | Sonoma County<br>Sonoma County<br>Sonoma County<br>Sonoma County |
| ZOA          | Gongs One<br>(GONGS1)    | Maxwell (MXW)<br>Point Reyes (PYE)<br>Red Bluff (RBL)<br>Sacramento (SAC)<br>Williams (ILA) | Pilot Nav<br>Pilot Nav<br>Pilot Nav<br>Pilot Nav<br>Pilot Nav | Chico<br>Chico<br>Chico<br>Chico<br>Chico                        |
| ZOA          | Homan Two<br>(HOMAN2)    | Red Bluff (RBL)<br>Chico (CIC)  | Pilot Nav<br>Pilot Nav  | Redding<br>Redding   |
| ZOA          | Kendl One<br>(KENDL1)    | Red Bluff (RBL)<br>Tomad (TOMAD)  | Pilot Nav<br>Pilot Nav  | Redding<br>Redding   |
| ZOA          | Krest Three<br>(KREST3)  | Itmor (ITMOR)<br>Shata (SHATA)<br>Tomad (TOMAD)   | Pilot Nav<br>Pilot Nav<br>Pilot Nav                           | Redding<br>Redding<br>Redding                                    |

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|--------------|-------------------------|---|---|---|
| ZOA          | Lizrd Two (LIZRD2)      | Oakland (OAK)<br>Santa Rosa (STS)   | Pilot Nav<br>Pilot Nav  | Napa County<br>Napa County  |
| ZOA          | Loupe Nine (LOUPE9)     | Red Bluff (RBL)   | Pilot Nav   | San Jose  |
| ZOA          | Marina Four (MARI4)     | Scaggs Island (SGD)   | Pilot Nav   | Oakland   |
| ZOA          | Molen Three (MOLEN3)    | Mendocino (ENI)   | Pilot Nav   | San Francisco   |
| ZOA          | Porte Three (PORTE3)    | Panoche (PXN)   | Pilot Nav   | San Francisco   |
| ZOA          | Quiet Two (QUIT2)       | Chico (CIC)<br>Linden (LIN)<br>Mendocino (ENI)<br>Red Bluff (RBL)<br>Sacramento (SAC) | Pilot Nav<br>Pilot Nav<br>Pilot Nav<br>Pilot Nav<br>Pilot Nav | San Francisco<br>San Francisco<br>San Francisco<br>San Francisco<br>San Francisco |
| ZOA          | Rebas Three (REBAS3)    | Chico (CIC)<br>Mendocino (ENI)<br>Red Bluff (RBL)                                     | Pilot Nav<br>Pilot Nav<br>Pilot Nav                           | San Francisco<br>San Francisco<br>San Francisco                                   |
| ZOA          | Richy Five (RICHY5)     | Genne (GENNE)<br>Marri (MARRI)<br>Spook (SPOOK)<br>Tilts (TILTS)                      | Pilot Nav<br>Pilot Nav<br>Pilot Nav<br>Pilot Nav              | Lake Tahoe<br>Lake Tahoe<br>Lake Tahoe<br>Lake Tahoe                              |
| ZOA          | Santa Rosa Five (STSS5) | Scaggs Island (SGD)   | Pilot Nav   | Sonoma County   |
| ZOA          | Shole One (SHOLE1)      | Spook (SPOOK)<br>Mustang (FMG)  | Pilot Nav<br>Pilot Nav  | Lake Tahoe<br>Lake Tahoe  |
| ZOA          | Shoreline One (SHOR1)   | Red Bluff (RBL)   | Pilot Nav   | San Francisco   |

**APPENDIX 1. DEPARTURE PROCEDURES (DP)**

| <b>ARTCC</b> | <b>DP NAME</b>                            | <b>TRANSITION</b>   | <b>PROCEDURE</b>  | <b>AIRPORT AREA</b>                                      |
|--------------|---|---|---|--|
| ZOA          | Silent Seven<br>(SLNT7)                   | Chico (CIC)<br>Red Bluff (RBL)<br>Sacramento (SAC)<br>Linden (LIN)<br>Mendocino (ENI) | Pilot Nav<br>Pilot Nav<br>Pilot Nav<br>Pilot Nav<br>Pilot Nav | Oakland<br>Oakland<br>Oakland<br>Oakland<br>Oakland      |
| ZOA          | Skyline Three<br>(SKYL3)                  | Clovis (CZQ)  | Pilot Nav   | Oakland  |
| ZOA          | Stockton Five<br>(STKN5)                  | Bushy (BUSHY)<br>Byron (BYRON)<br>Cedes (CEDES)<br>Modesto (MOD)<br>Tracy (TRACY)     | Pilot Nav<br>Pilot Nav<br>Pilot Nav<br>Pilot Nav<br>Pilot Nav | Stockton<br>Stockton<br>Stockton<br>Stockton<br>Stockton |
| ZOA          | Wagge (WAGGE1)                            | Lovelock (LLC)  | Pilot Nav   | Reno   |
| <u>ZID</u>   | <u>Whitewater Two</u><br><u>(WHWTR2)</u>  | <u>Boiler (BVT)</u><br><u>Kokomo (OKK)</u>  | <u>Pilot Nav</u><br><u>Pilot Nav</u>                          | <u>Cincinnati</u><br><u>Cincinnati</u>                   |
| <u>ZID</u>   | <u>Bluegrass Three</u><br><u>(BLGRS3)</u> | <u>Lexington (HYK)</u>  | <u>Pilot Nav</u>  | <u>Cincinnati</u>  |
| <u>ZID</u>   | <u>Dawnn One</u><br><u>(DAWNN2)</u>       | <u>Mystic (MYS)</u><br><u>Bowling Green High</u><br><u>(BWG)</u>                      | <u>Pilot Nav</u><br><u>Pilot Nav</u>                          | <u>Indianapolis</u><br><u>Indianapolis</u>               |
| <u>ZID</u>   | <u>Lunken Six (LNKN6)</u>                 | <u>Philipsburg (PSB)</u><br><u>Johnstown (JST)</u>                                    | <u>Pilot Nav</u><br><u>Pilot Nav</u>                          | <u>Cincinnati</u><br><u>Cincinnati</u>                   |
| <u>ZID</u>   | <u>Redss Three</u><br><u>(REDSS3)</u>     | <u>Philipsburg (PSB)</u><br><u>Johnstown (JST)</u>                                    | <u>Pilot Nav</u><br><u>Pilot Nav</u>                          | <u>Cincinnati</u><br><u>Cincinnati</u>                   |

APPENDIX 1. DEPARTURE PROCEDURES (DP)

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**APPENDIX 2. STANDARD TERMINAL ARRIVAL ROUTES**

| <b>ARTCC</b> | <b>STAR NAME</b>        | <b>TRANSITION</b>  | <b>PROCEDURE</b>             | <b>AIRPORT AREA</b>  |
|--------------|-------------------------|--|------------------------------|--|
| ZDV          | Dandd One (DANDD1)      | Oathe (OATHE)<br>Rylie (RYLIE)   | STAR<br>STAR                 | Denver<br>Denver   |
| ZDV          | Landr One (LANDR1)      | Scottsbluff (BFF)<br>Sidney (SNY)                                      | STAR<br>STAR                 | Denver<br>Denver   |
| ZDV          | Larks One (LARKS1)      | Alamosa (ALS)<br>Farmington (FMN)                                      | STAR<br>STAR                 | Denver<br>Denver   |
| ZDV          | Powdr Two (POWDR2)      | Blue Mesa (HBU)<br>Grand Junction (JNC)                                | STAR<br>STAR                 | Denver<br>Denver   |
| ZDV          | Quail One (QUAIL1)      | Lamar (LAA)<br>Todde (TODDE)   | STAR<br>STAR                 | Denver<br>Denver   |
| ZDV          | Ramms One (RAMMS1)      | Medicine Bow (MBW)   | STAR                         | Denver   |
| ZDV          | Sayge One (SAYGE1)      | North Platte (LBF)   | STAR                         | Denver   |
| ZDV          | Tomsn One (TOMSN1)      | Meeker (EKR)<br>Hayden (CHE)   | STAR<br>STAR                 | Denver<br>Denver   |
| ZLC          | Bearr Three (BEARR3)    | Burley (BYI)<br>Pocatello (PIH)<br>Malad (MLD)                         | STAR<br>STAR<br>STAR         | Salt Lake City<br>Salt Lake City<br>Salt Lake City                   |
| ZLC          | Brigham City One (LHO1) | Dubois (DBS)<br>Jackson (JAC)<br>Big Piney (BPI)<br>Rock Springs (OCS) | STAR<br>STAR<br>STAR<br>STAR | Salt Lake City<br>Salt Lake City<br>Salt Lake City<br>Salt Lake City |
| ZLC          | Spane Three (SPAN3)     | Myton (MTU)<br>Helpr (HELPR)   | STAR<br>STAR                 | Salt Lake City<br>Salt Lake City                                     |

**APPENDIX 2. STANDARD TERMINAL ARRIVAL ROUTES**

| ARTCC | STAR NAME              | TRANSITION   | PROCEDURE                    | AIRPORT AREA   |
|-------|------------------------|--|------------------------------|--|
| ZAB   | Curly Two (CURLY2)     | Gallup (GUP)<br>Taner (TANER)                                  | STAR<br>STAR                 | Albuquerque<br>Albuquerque   |
| ZAB   | Friho Three (FRIHO3)   | Espan (ESPAN)<br>Las Vegas (LVS)                               | STAR<br>STAR                 | Albuquerque<br>Albuquerque   |
| ZAB   | Lavan Three (LAVAN3)   | St. Johns (SJN)<br><br>Zuni (ZUN)                              | STAR<br><br>STAR             | Albuquerque<br><br>Albuquerque   |
| ZAB   | Miera Two (MIERA2)     | Chisum (CME)<br>Texico (TXO)<br>Tucumcari (TCC)                | STAR<br>STAR<br>STAR         | Albuquerque<br>Albuquerque<br>Albuquerque  |
| ZAB   | Dingo Five (DINGO5)    | Gila Bend (GBN)<br>Phoenix (PXR)<br>Stanfield (TFD)            | STAR<br>STAR<br>STAR         | Tucson<br>Tucson<br>Tucson   |
| ZMP   | Eau Claire Four (EAU4) | Green Bay (GRB)<br><br>Badger (BAE)                            | STAR<br><br>STAR             | Minneapolis-St. Paul Intl.<br><br>Minneapolis-St. Paul Intl.                                   |
| ZMP   | Kaspr Two (KASPR2)     | Fort Dodge (FOD)<br><br>Mason City (MCW)<br><br>Waterloo (ALO) | STAR<br><br>STAR<br><br>STAR | Minneapolis-St. Paul Intl.<br><br>Minneapolis-St. Paul Intl.<br><br>Minneapolis-St. Paul Intl. |
| ZMP   | Gopher Three (GEP3)    | Alexandria (AXN)<br><br>Brainerd (BRD)<br><br>Fargo (FAR)      | STAR<br><br>STAR<br><br>STAR | Minneapolis-St. Paul Intl.<br><br>Minneapolis-St. Paul Intl.<br><br>Minneapolis-St. Paul Intl. |
| ZMP   | Sketr One (SKETR1)     | Redwood Falls (RWF)  | STAR                         | Minneapolis-St. Paul Intl.   |



**APPENDIX 2. STANDARD TERMINAL ARRIVAL ROUTES**

| ARTCC | STAR NAME             | TRANSITION  | PROCEDURE            | AIRPORT AREA   |
|-------|-----------------------|---|----------------------|--|
| ZSE   | Olympia Two (OLM2)    | Battle Ground (BTG)   | STAR                 | Seattle  |
| ZSE   | Glasr Three (GLASR3)  | Templ (TEMPL)   | STAR                 | Seattle  |
| ZSE   | Chins Two (CHINS2)    | Suned (SUNED)   | STAR                 | Seattle  |
| ZSE   | Moxee Three (MOXEE3)  | Moxee (MOXEE)   | STAR                 | Portland   |
| ZSE   | Bonvl Three (BONVL3)  | Dufur (DUFUR)   | STAR                 | Portland   |
| ZHU   | Cugar Six (CUGAR6)    | Milsap (MQP)<br>Junction (JCT)                              | STAR<br>STAR         | Bush<br>Intercontinental<br>Bush<br>Intercontinental                                   |
| ZHU   | Daisetta Three (DAS3) | Alexandria (AEX)<br>Lake Charles (LCH)<br>McComb (MCB)      | STAR<br>STAR<br>STAR | Bush Intcntl<br>W P. Hobby<br>Bush Intcntl<br>W P. Hobby<br>Bush Intcntl<br>W P. Hobby |
| ZHU   | Gland Seven (GLAND7)  | Corpus Christi (CRP)<br>San Antonio (SAN)                   | STAR<br>STAR         | Bush<br>Intercontinental<br>Bush<br>Intercontinental                                   |
| ZHU   | Rokit Two (ROKIT2)    | Alexandria (AEX)<br>Lake Charles (LCH)                      | STAR<br>STAR         | Bush Intcntl<br>W P. Hobby<br>Bush Intcntl<br>W P. Hobby                               |
| ZHU   | Sabine Five (SBI5)    | Pekon (PEKON)   | STAR                 | Bush<br>Intercontinental   |
| ZHU   | Gilco One (GILCO1)    | Pekon (PEKON)   | STAR                 | W. P. Hobby  |
| ZHU   | Lisse Four (LISSE4)   | Corpus Christi (CRP)<br>Palacios (PSX)<br>San Antonio (SAT) | STAR<br>STAR<br>STAR | W. P. Hobby<br>W. P. Hobby<br>W. P. Hobby  |

**APPENDIX 2. STANDARD TERMINAL ARRIVAL ROUTES**

| ARTCC | STAR NAME              | TRANSITION   | PROCEDURE                                | AIRPORT AREA  |
|-------|------------------------|--|--|---|
| ZHU   | Struk Eight (STRUK8)   | Colledge Station (CLL)   | STAR                                     | W. P. Hobby   |
| ZHU   | Biter One (BITER1)     | Industry (IDU)   | STAR                                     | Austin  |
| ZHU   | Texez Two (TEXEZ2)     | Waco (ACT)<br>Windu (WINDU)  | STAR<br>STAR                             | Austin<br>Ausitn  |
| ZHU   | Centerpoint One (CSII) | Fort Stockton (FST)<br>Junction (JCT)  | STAR<br>STAR                             | San Antonio<br>San Antonio  |
| ZHU   | Lemig One (LEMIG1)     | Corpus Christi (CRP)<br>Cotulla (COT)<br>Laredo (LRD)<br>Three Rivers (THX)                        | STAR<br>STAR<br>STAR<br>STAR             | San Antonio<br>San Antonio<br>San Antonio<br>San Antonio  |
| ZHU   | Marc's Four (MARCS4)   | Industry (IDU)<br>Lufkin (LFK)<br>Waco (ACT)<br>Windu (WINDU)                                      | STAR<br>STAR<br>STAR<br>STAR             | San Antonio<br>San Antonio<br>San Antonio<br>San Antonio  |
| ZHU   | Stonewall One (STV1)   | Abilene (ABI)<br>Junction (JCT)<br>Llano (LLO)   | STAR<br>STAR<br>STAR                     | San Antonio<br>San Antonio<br>San Antonio   |
| ZHU   | Awdad Six (AWDAD6)     | Baton Rouge (BTR)<br><br>Lafayette (LFT)<br><br>Lake Charles (LCH)                                 | STAR<br><br>STAR<br><br>STAR             | Moisant/Lake<br>Front<br>Moisant/Lake<br>Front<br>Moisant/Lake<br>Front   |
| ZHU   | Oledd One (OLEDD1)     | Tibby (TBY)<br><br>White Lake (LLA)<br><br>McComb (MCB)<br><br>Meridian (MEI)<br><br>Natchez (HEZ) | STAR<br><br>STAR<br><br>STAR<br><br>STAR | Moisant/Lake<br>Front<br>Moisant/Lake<br>Front<br>Moisant/Lake<br>Front<br>Moisant/Lake<br>Front<br>Moisant/Lake<br>Front |

**APPENDIX 2. STANDARD TERMINAL ARRIVAL ROUTES**

| <b>ARTCC</b> | <b>STAR NAME</b>         | <b>TRANSITION</b> | <b>PROCEDURE</b> | <b>AIRPORT AREA</b>     |
|--------------|--------------------------|-------------------|------------------|-------------------------|
| ZHU          | Slidd Two (SLIDD2)       | Gulfport (GPT)    | STAR             | Moisant/Lake Front      |
|              |                          | Semmes (SJI)      | STAR             | Moisant/Lake Front      |
| ZFW          | Bonham Three (BYP3)      | Tulsa (TUL)       | STAR             | Dallas-Fort Worth Intl. |
|              |                          | Fort Smith (FSM)  | STAR             | Dallas-Fort Worth Intl. |
|              |                          | Little Rock (LIT) | STAR             | Dallas-Fort Worth Intl. |
| ZFW          | Bowie Four (UKW4)        | Amarillo (AMA)    | STAR             | Dallas-Fort Worth Intl. |
|              |                          | Borger (BGD)      | STAR             | Dallas-Fort Worth Intl. |
|              |                          | Texico (TXO)      | STAR             | Dallas-Fort Worth Intl. |
|              |                          | Tulsa (TUL)       | STAR             | Dallas-Fort Worth Intl. |
|              |                          | Will Rogers (IRW) | STAR             | Dallas-Fort Worth Intl. |
| ZFW          | Cedar Creek Three (CQY3) | Alexandria (AEX)  | STAR             | Dallas-Fort Worth Intl. |
| ZFW          | Cedar Creek Three (CQY3) | Austin (AUS)      | STAR             | Dallas-Fort Worth Intl. |
|              |                          | Humble (IAH)      | STAR             | Dallas-Fort Worth Intl. |
|              |                          | Jackson (JAN)     | STAR             | Dallas-Fort Worth Intl. |
|              |                          | Leona (LOA)       | STAR             | Dallas-Fort Worth Intl. |
|              |                          | Sidon (SQS)       | STAR             | Dallas-Fort Worth Intl. |
| ZFW          | Glen Rose Three (JEN3)   | Austin (AUS)      | STAR             | Dallas-Fort Worth Intl. |
|              |                          | San Antonio (SAT) | STAR             | Dallas-Fort Worth Intl. |
|              |                          | Wink (INK)        | STAR             | Dallas-Fort Worth Intl. |

**APPENDIX 2. STANDARD TERMINAL ARRIVAL ROUTES**

| ARTCC | STAR NAME            | TRANSITION        | PROCEDURE | AIRPORT AREA       |
|-------|----------------------|-------------------|-----------|--------------------|
| ZFW   | Fingr Three (FINGR3) | Fort Smith (FSM)  | STAR      | Dallas-Fort Worth. |
|       |                      | Little Rock (LIT) | STAR      | Dallas-Fort Worth. |
|       |                      | Tulsa (TUL)       | STAR      | Dallas-Fort Worth  |
| ZFW   | Flipp Two (FLIPP2)   | Alexandria (AEX)  | STAR      | Dallas-Fort Worth. |
|       |                      | Austin (AUS)      | STAR      | Dallas-Fort Worth. |
|       |                      | Humble (IAH)      | STAR      | Dallas-Fort Worth  |
|       |                      | Jackson (JAN)     | STAR      | Dallas-Fort Worth. |
|       |                      | Leona (LOA)       | STAR      | Dallas-Fort Worth. |
|       |                      | Monroe (MLU)      | STAR      | Dallas-Fort Worth  |
|       |                      | Sidon (SQS)       | STAR      | Dallas-Fort Worth  |
| ZFW   | Gregs Three (GREGS3) | Amarillo (AMA)    | STAR      | Dallas-Fort Worth. |
|       |                      | Borger (BGD)      | STAR      | Dallas-Fort Worth. |
|       |                      | Texico (TXO)      | STAR      | Dallas-Fort Worth  |
|       |                      | Tulsa (TUL)       | STAR      | Dallas-Fort Worth  |
|       |                      | Will Rogers (IRW) | STAR      | Dallas-Fort Worth  |
| ZFW   | Knead Three (KNEAD3) | Austin (AUS)      | STAR      | Dallas-Fort Worth. |
|       |                      | San Antonio (SAT) | STAR      | Dallas-Fort Worth. |
|       |                      | Wink (INK)        | STAR      | Dallas-Fort Worth  |

**APPENDIX 2. STANDARD TERMINAL ARRIVAL ROUTES**

| ARTCC | STAR NAME            | TRANSITION   | PROCEDURE                            | AIRPORT AREA   |
|-------|----------------------|--|--------------------------------------|--|
| ZTL   | Rome Two (RMG2)      | Salms (SALMS)<br>Bowling Green (BWG)<br>Memphis (MEM)<br>Nashville (BNA)                   | STAR<br>STAR<br>STAR<br>STAR         | Atlanta Intl.<br>Atlanta Intl.<br>Atlanta Intl.<br>Atlanta Intl. |
| ZTL   | Unarm One (UNARM1)   | Atlanta (ATL)<br>Colliers (IRQ)  | STAR<br>STAR                         | Charlotte Intl.<br>Charlotte Intl.                               |
| ZTL   | Brook Two (BROOK2)   | Glade Spring (GZG)<br>Spartanburg (SPA)  | STAR<br>STAR                         | Greensboro<br>Greensboro   |
| ZTL   | Smokn Two (SMOKN2)   | Pulaski (PSK)  | STAR                                 | Greensboro<br>Winston-Salem                                      |
| ZID   | Sweed Four (SWEED4)  | Holston Mountain (HNV)   | STAR                                 | Cincinnati   |
| ZID   | Darby Two (DARBY2)   | Hinch Mountain (HCH)<br>Volunteer (VXV)  | STAR<br>STAR                         | Louisville<br>Louisville   |
| ZME   | Gilmore Three (GOE3) | Farmington (FAM)<br>Fort Smith (FSM)<br>Razorback (RZC)<br>Walnut Ridge (ARG)              | STAR<br>STAR<br>STAR<br>STAR         | Memphis<br>Memphis<br>Memphis<br>Memphis                         |
| ZME   | Holly One (HLI1)     | Choo Choo (GQO)<br>Hamilton (HAB)<br>Muscle Shoals (MSL)<br>Tupelo (TUP)<br>Vulcan (VUZ)   | STAR<br>STAR<br>STAR<br>STAR<br>STAR | Memphis<br>Memphis<br>Memphis<br>Memphis<br>Memphis              |
| ZME   | Marvell Three (UJM3) | El Dorado (ELD)<br>Greenville (GLH)<br>Little Rock (LIT)<br>Sidon (SQS)<br>Texarkana (TXK) | STAR<br>STAR<br>STAR<br>STAR<br>STAR | Memphis<br>Memphis<br>Memphis<br>Memphis<br>Memphis              |

**APPENDIX 2. STANDARD TERMINAL ARRIVAL ROUTES**

| <b>ARTCC</b> | <b>STAR NAME</b>          | <b>TRANSITION</b>   | <b>PROCEDURE</b>                                     | <b>AIRPORT AREA</b>   |
|--------------|---------------------------|---|--|---|
| ZME          | Wilder Three(WLDER3)      | Bowling Green (BWG)<br>Jacks Creek (JKS)<br>McKeller (MKL)<br>Nashville (BNA)<br>Pocket City (PXV)                                      | STAR<br>STAR<br>STAR<br>STAR<br>STAR                 | Memphis<br>Memphis<br>Memphis<br>Memphis<br>Memphis                                     |
| ZME          | Graham Four (GHM4)        | Bigbee (IGB)<br>Memphis (MEM)<br>Sidon (SQS)<br>Vulcan (VUZ)  | STAR<br>STAR<br>STAR<br>STAR                         | Nashville<br>Nashville<br>Nashville<br>Nashville  |
| ZME          | Guitr One (GUITR1)        | Lexington (HYK)<br>Livingston (LVT)<br>Louisville (IIU)<br>Yocky (YOCKY)  | STAR<br>STAR<br>STAR<br>STAR                         | Nashville<br>Nashville<br>Nashville<br>Nashville  |
| ZME          | Hehaw Three (HEHAW3)      | Bowling Green (BWG)<br>Central City (CCT)<br>Farmington (FAM)<br>Louisville (IIU)<br>Mystic (MYS)<br>Terre Haute (TTH)<br>Tings (TINGS) | STAR<br>STAR<br>STAR<br>STAR<br>STAR<br>STAR<br>STAR | Nashville<br>Nashville<br>Nashville<br>Nashville<br>Nashville<br>Nashville<br>Nashville |
| ZME          | Volls Five (VOLLS5)       | Atlanta (ATL)<br>Choo Choo (GQO)<br>Rocket (RQZ)<br>Volunteer (VXV)<br>Hinch Mountain (HCH)   | STAR<br>STAR<br>STAR<br>STAR<br>STAR                 | Nashville<br>Nashville<br>Nashville<br>Nashville<br>Nashville                           |
| ZDC          | South Boston Three (SBV3) | Pulaski (PSK)   | STAR   | Raleigh-Durham  |
| ZJX          | Alma One (AMG1)           | Alma (AMG)  | STAR   | Jacksonville  |
| ZJX          | Pogie One (POGIE1)        | Orlando (ORL)   | STAR   | Jacksonville  |
| ZJX          | Clamp Four (CLAMP4)       | Seminole (SZW)  | STAR   | Sarasota  |

**APPENDIX 2. STANDARD TERMINAL ARRIVAL ROUTES**

| <b>ARTCC</b> | <b>STAR NAME</b>         | <b>TRANSITION</b>                                  | <b>PROCEDURE</b>     | <b>AIRPORT AREA</b>            |
|--------------|--------------------------|--|----------------------|--------------------------------|
| ZJX          | Brunswick Two<br>(SSI2)  | Savannah (SAV)<br>Charleston (CHS)                 | STAR<br>STAR         | Jacksonville<br>Jacksonville   |
| ZJX          | Darbs One<br>(DARBS1)    | Seminole (SZW)                                     | STAR                 | Tampa                          |
| ZJX          | Leese Nine (LEESE9)      | Valdosta (OTK)<br>Savannah (SAV)<br>Alma (AMG)     | STAR<br>STAR<br>STAR | Orlando<br>Orlando<br>Orlando  |
| ZJX          | Taylor One (TAY1)        | Seminole (SZW)                                     | STAR                 | Jacksonville                   |
| ZMA          | Heatt Five (HEATT5)      | Hobee (HOBEE)                                      | STAR                 | Miami                          |
| ZMA          | Surfn Seven<br>(SURFN7)  | Hobee (HOBEE)                                      | STAR                 | Boca Raton                     |
| ZMA          | Bridge Five<br>(BRDGE5)  | LaBelle (LBV)<br>Pahokee (PHK)<br>Lee County (RSW) | STAR<br>STAR<br>STAR | Tampa<br>Tampa<br>Tampa        |
| ZMA          | Goofy Four<br>(GOOFY4)   | Pahokee (PHK)<br>Palm Beech (PBI)                  | STAR<br>STAR         | Orlando<br>Orlando             |
| ZLA          | Vista One (VISTA1)       | Julian (JLI)                                       | STAR                 | Los Angeles                    |
| ZLA          | Paradise Three<br>(PDZ3) | Twenty Nine Palms<br>(TNP)<br>Julian (JLI)         | STAR                 | Los Angeles<br><br>Los Angeles |
| ZLA          | Creso Three<br>(CRESO3)  | Hector (HEC)                                       | STAR                 | Los Vegas                      |
| ZLA          | Fuzzy Four<br>(FUZZY4)   | Beatty (BTY)                                       | STAR                 | Los Vegas                      |
| ZLA          | Cardi Three<br>(CARDI3)  | Los Angeles (LAX)                                  | STAR                 | San Diego                      |
| ZLA          | Shamu One<br>(SHAMU1)    | Los Angeles (LAX)                                  | STAR                 | San Diego                      |

**APPENDIX 2. STANDARD TERMINAL ARRIVAL ROUTES**

| ARTCC | STAR NAME              | TRANSITION   | PROCEDURE  | AIRPORT AREA  |
|-------|------------------------|--|--|---|
| ZLA   | Baret Four (BARET4)    | Twenty Nine Palms (TNP)<br>Imperial (IPL)<br>Needles (EED)<br>Parker (PKE)   | STAR<br>STAR<br>STAR<br>STAR                         | San Diego<br>San Diego<br>San Diego<br>San Diego  |
| ZLA   | Ziggy Three (ZIGGY3)   | Palmdale (PMD)<br>Tule (TTE)<br>Shafter (EHF)<br>Hector (HEC)  | STAR<br>STAR<br>STAR<br>STAR                         | Ontario<br>Ontario<br>Ontario<br>Ontario  |
| ZLA   | Seter Two (SETER2)     | Palm Springs (PSP)<br>Julian (JLI)   | STAR<br>STAR   | Los Angeles<br>Los Angeles  |
| ZLA   | Leena Three (LEENA3)   | Cyprs (CYPRS)<br>Ficky (FICKY)<br>Goatz (GOATZ)<br>Malit (MALIT)<br>Rosin (ROSIN)<br>Fillmore (FIM)<br>Fellows (FLW) | STAR<br>STAR<br>STAR<br>STAR<br>STAR<br>STAR<br>STAR | Los Angeles<br>Los Angeles<br>Los Angeles<br>Los Angeles<br>Los Angeles<br>Los Angeles<br>Los Angeles |
| ZLA   | Moorpark Three (MOOR3) | Dinty (DINTY)<br>Derbb (DERBB)<br>Avenal (AVE)   | STAR<br>STAR<br>STAR                                 | Los Angeles<br>Los Angeles<br>Los Angeles   |
| ZLA   | Ocean Two (OCEAN2)     | Julian (JLI)   | STAR   | Los Angeles   |
| ZLA   | Redeye One (RDEYE1)    | Twenty Nine Palms (TNP)<br>Peach Springs (PGS)<br>Hector (HEC)   | STAR<br>STAR<br>STAR                                 | Los Angeles<br>Los Angeles<br>Los Angeles   |
| ZLA   | Reedr Three (REEDR3)   | Twenty Nine Palms (TNP)<br>Peach Springs (PGS)<br>Hector (HEC)   | STAR<br>STAR<br>STAR                                 | Los Angeles<br>Los Angeles<br>Los Angeles   |



**APPENDIX 2. STANDARD TERMINAL ARRIVAL ROUTES**

| <b>ARTCC</b> | <b>STAR NAME</b>        | <b>TRANSITION</b>  | <b>PROCEDURE</b>   | <b>AIRPORT AREA</b>  |
|--------------|-------------------------|--|--|--|
| ZLA          | Sadde Six (SADDE6)      | Ventura (VTU)<br>San Marcos (RZS)<br>Palmdale (PMD)<br>Fillmore (FIM)<br>Elkey (ELKEY)<br>Dinty (DINTY)<br>Derbb (DERBB)<br>Avenal (AVE) | STAR<br>STAR<br>STAR<br>STAR<br>STAR<br>STAR<br>STAR<br>STAR | Los Angeles<br>Los Angeles<br>Los Angeles<br>Los Angeles<br>Los Angeles<br>Los Angeles<br>Los Angeles<br>Los Angeles |
| ZOA          | Big Sur Two (BSR2)      | Big Sur (BSR)  | STAR   | San Francisco  |
| ZOA          | Cannon Two (CANN2)      | Squaw Valley (SWR)   | STAR   | Reno   |
| ZOA          | Capital Three (CAPO3)   | Sacramento (SAC)   | STAR   | San Jose   |
| ZOA          | Concord One (CCR1)      | Concord (CCR)  | STAR   | Sacramento   |
| ZOA          | Flunk Three (FLUNK3)    | Squaw Valley (SWR)   | STAR   | Sacramento   |
| ZOA          | Given Four (GIVEN4)     | Coaldale (OAL)   | STAR   | Fresno   |
| ZOA          | Hadley Two (HADLY2)     | Sausalito (SAU)  | STAR   | San Francisco  |
| ZOA          | Squaw Valley One (SWR1) | Squaw Valley (SWR)   | STAR   | Travis AFB   |
| ZOA          | Vikes One (VIKES1)      | Lovelock (LLC)   | STAR   | Reno   |
| ZOA          | Wraps Five (WRAPS5)     | Clovis (CZQ)   | STAR   | Sacramento   |
| ZOA          | Jawws One (JAWWS1)      | Avenal (AVE)<br>San Marcos (RZS)<br>Coaldale (OAL)<br>Mustang (FMG)  | STAR<br>STAR<br>STAR<br>STAR                                 | San Jose<br>San Jose<br>San Jose<br>San Jose   |

**APPENDIX 2. STANDARD TERMINAL ARRIVAL ROUTES**

| ARTCC | STAR NAME                 | TRANSITION  | PROCEDURE                    | AIRPORT AREA   |
|-------|---------------------------|---|------------------------------|--|
| ZOA   | Panoche Two (PXN2)        | Gorman (GMN)<br>Avenal (AVE)  | STAR<br>STAR                 | Oakland<br>Oakland   |
| ZOA   | Robie Two (ROBIE2)        | Avenal (AVE)<br>San Marcos (RZS)                                    | STAR<br>STAR                 | San Jose<br>San Jose   |
| ZOA   | Anaho Two (ANAHO2)        | Gassi (GASSI)<br>Lovelock (LLC)                                     | STAR<br>STAR                 | Reno<br>Reno   |
| ZOA   | Briny One (BRINY1)        | Mendocino<br>Mustang (FMG)<br>Red Bluff (RBL)                       | STAR<br>STAR<br>STAR         | San Jose<br>San Jose<br>San Jose                                 |
| ZOA   | El Nido Four (HYP4)       | Coaldale (OAL)<br>Mustang (FMG)                                     | STAR<br>STAR                 | San Jose<br>San Jose   |
| ZOA   | Golden Gate Four (GOLDN4) | Red Bluff (RBL)<br>Mustang (FMG)<br>Fortuna (FOT)<br>Roseburg (RBG) | STAR<br>STAR<br>STAR<br>STAR | San Francisco<br>San Francisco<br>San Francisco<br>San Francisco |
| ZOA   | Locke One (LOCKE1)        | Mina (MVA)<br>Coaldale (OAL)<br>Mustang (FMG)                       | STAR<br>STAR<br>STAR         | San Francisco<br>San Francisco<br>San Francisco                  |
| ZOA   | Madwin Three (MADN3)      | Mina (MVA)<br>Coaldale (OAL)<br>Mustang (FMG)                       | STAR<br>STAR<br>STAR         | Oakland<br>Oakland<br>Oakland                                    |
| ZOA   | Modesto Two (MOD2)        | Mina (MVA)<br>Coaldale (OAL)<br>Mustang (FMG)                       | STAR<br>STAR<br>STAR         | San Francisco<br>San Francisco<br>San Francisco                  |
| ZOA   | Oakey Two (OAKEY)         | Clovis (CZQ)<br>Coaldale (OAL)<br>Mina (MVA)                        | STAR<br>STAR<br>STAR         | Travis AFB<br>Travis AFB<br>Travis AFB                           |
| ZOA   | Point Reyes One (PYE1)    | Mendocino (ENI)<br>Maxwell (MXW)                                    | STAR<br>STAR                 | San Francisco<br>San Francisco                                   |

**APPENDIX 2. STANDARD TERMINAL ARRIVAL ROUTES**

| ARTCC      | STAR NAME                  | TRANSITION  | PROCEDURE  | AIRPORT AREA   |
|------------|----------------------------|---|--|--|
| ZOA        | Seato Two (SEATO2)         | Fuell (FUELL)<br>Red Bluff (RBL)<br>Scaggs Island (SGD)<br>Mendocino (ENI)                      | STAR<br>STAR<br>STAR<br>STAR                             | Travis AFB<br>Travis AFB<br>Travis AFB<br>Travis AFB                                     |
| ZOA        | Stins One (STINS1)         | Red Bluff (RBL)<br>Mustang (FMG)<br>Fortuna (FOT)<br>Roseburg (RBG)                             | STAR<br>STAR<br>STAR<br>STAR                             | San Francisco<br>San Francisco<br>San Francisco<br>San Francisco                         |
| ZOA        | Tarvr One (TARVR1)         | Mina (MVA)<br>Coaldale (OAL)<br>Sacramento (SAC)<br>Tilts (TILTS)                               | STAR<br>STAR<br>STAR<br>STAR                             | Reno<br>Reno<br>Reno<br>Reno   |
| ZOA        | Tudor One<br>(TUDOR1)      | Red Bluff (RBL)<br>Williams (ILA)<br>Klamath Falls (LMT)  | STAR<br>STAR<br>STAR                                     | Sacramento<br>Sacramento<br>Sacramento   |
| <u>ZDC</u> | <u>Brade Four (BRADE4)</u> | <u>Wilmington (ILM)</u>   | <u>STAR</u>  | <u>Raleigh-Durham</u>  |
| <u>ZDC</u> | <u>Drone One (DRONE1)</u>  | <u>Kinston (ISO)</u>  | <u>STAR</u>  | <u>Norfolk</u>   |
| <u>ZID</u> | <u>Tarne One (TARNE1)</u>  | <u>Danville (DNV)</u><br><u>Fort Wayne (FWA)</u><br><u>Muncie (MIE)</u>                         | <u>STAR</u><br><u>STAR</u><br><u>STAR</u>                | <u>Cincinnati</u><br><u>Cincinnati</u><br><u>Cincinnati</u>                              |
| <u>ZID</u> | <u>Clang Five (CLANG5)</u> | <u>Fort Wayne (FWA)</u><br><u>Dayton (DON)</u><br><u>Empty (EMPTY)</u><br><u>Rosewood (ROD)</u> | <u>STAR</u><br><u>STAR</u><br><u>STAR</u><br><u>STAR</u> | <u>Indianapolis</u><br><u>Indianapolis</u><br><u>Indianapolis</u><br><u>Indianapolis</u> |
| <u>ZID</u> | <u>Ponie Two (PONIE2)</u>  | <u>Cincinnati (CVG)</u><br><u>Rosewood (ROD)</u><br><u>Appleton (APE)</u>                       | <u>STAR</u><br><u>STAR</u><br><u>STAR</u>                | <u>Louisville</u><br><u>Louisville</u><br><u>Louisville</u>                              |
| <u>ZID</u> | <u>Bucke Four (BUCKE4)</u> | <u>Falmouth (FLM)</u>   | <u>STAR</u>  | <u>Wright-Patterson AFB</u>  |
| <u>ZID</u> | <u>Kekee One (KEKEE1)</u>  | <u>Falmouth (FLM)</u>   | <u>STAR</u>  | <u>Dayton</u>  |

**APPENDIX 2. STANDARD TERMINAL ARRIVAL ROUTES**

| <b>ARTCC</b> | <b>STAR NAME</b>              | <b>TRANSITION</b>   | <b>PROCEDURE</b>   | <b>AIRPORT AREA</b>  |
|--------------|-------------------------------|---|--|--|
| <u>ZID</u>   | <u>Decee Three (DECEE3)</u>   | <u>Louisville (IIU)</u>   | <u>STAR</u>  | <u>Indianapolis</u>  |
| <u>ZID</u>   | <u>Cheri One (CHERI1)</u>     | <u>Pocket City (PXV)</u><br><u>Terre Haute (TTH)</u>  | <u>STAR</u><br><u>STAR</u>                               | <u>Louisville</u><br><u>Louisville</u>   |
| <u>ZID</u>   | <u>Mosey Five (MOSEY5)</u>    | <u>Pocket City (PXV)</u>  | <u>STAR</u>  | <u>Cincinnati</u>  |
| <u>ZID</u>   | <u>Cince Three (CINCE3)</u>   | <u>Rosewood (ROD)</u><br><u>Bellaire (AIR)</u><br><u>Findlay (FDY)</u><br><u>Appleton (APE)</u> | <u>STAR</u><br><u>STAR</u><br><u>STAR</u><br><u>STAR</u> | <u>Cincinnati</u><br><u>Cincinnati</u><br><u>Cincinnati</u><br><u>Cincinnati</u> |
| <u>ZID</u>   | <u>Bremn Two (BREMN2)</u>     | <u>Morgantown (MGW)</u>   | <u>STAR</u>  | <u>Ohio State University</u>   |
| <u>ZID</u>   | <u>Danei One (DANE11)</u>     | <u>Appleton (APE)</u>   | <u>STAR</u>  | <u>Dayton</u>  |
| <u>ZAU</u>   | <u>Knox Three (OXI3)</u>      | <u>Fort Wayne (FWA)</u><br><u>Dryer (DJB)</u><br><u>Waterville (VWV)</u>                        | <u>STAR</u><br><u>STAR</u><br><u>STAR</u>                | <u>Chicago</u><br><u>Chicago</u><br><u>Chicago</u>                               |
| <u>ZAU</u>   | <u>Veena One (VEENA1)</u>     | <u>Janesville (JVL)</u><br><br><u>Joliet (JOT)</u>  | <u>STAR</u><br><br><u>STAR</u>                           | <u>General Mitchell</u><br><br><u>General Mitchell</u>                           |
| <u>ZAU</u>   | <u>Bradford Three (BDF3)</u>  | <u>Bayli (BAYLI)</u><br><u>Kirksville (IRK)</u>   | <u>STAR</u><br><u>STAR</u>                               | <u>Chicago</u><br><u>Chicago</u>   |
| <u>ZAU</u>   | <u>(MOTIF2)</u>               | <u>Capital (CAP)</u><br><u>Kirksville (IRK)</u><br><u>Lamoni (LMN)</u>                          | <u>STAR</u><br><u>STAR</u><br><u>STAR</u>                | <u>Chicago</u><br><u>Chicago</u><br><u>Chicago</u>                               |
| <u>ZAU</u>   | <u>Janesville Four (JVL4)</u> | <u>Mason City (MCW)</u>   | <u>STAR</u>  | <u>Chicago</u>   |
| <u>ZAU</u>   | <u>Pullman Four (PMM4)</u>    | <u>Traverse City (TVC)</u><br><u>Flint (FNT)</u>  | <u>STAR</u><br><u>STAR</u>                               | <u>Chicago</u><br><u>Chicago</u>   |