

BALDY THREE DEPARTURE
(BALDY3,MAXXO) 28FEB19

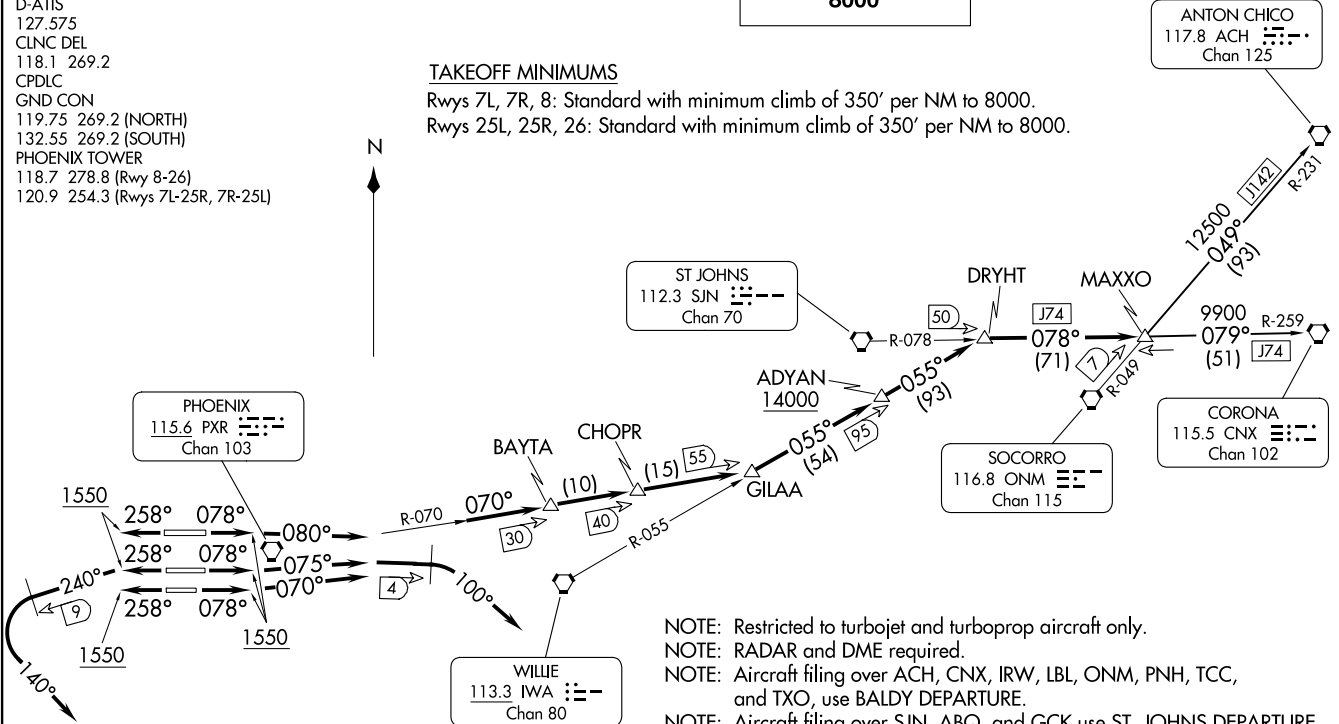
PHOENIX SKY HARBOR INTL (PHX)
PHOENIX, ARIZONA

PHOENIX DEP CON
126.8 269.6
D-ATIS
127.575
CLNC DEL
118.1 269.2
CPDLC
GND CON
119.75 269.2 (NORTH)
132.55 269.2 (SOUTH)
PHOENIX TOWER
118.7 278.8 (Rwy 8-26)
120.9 254.3 (Rwys 7L-25R, 7R-25L)

**TOP ALTITUDE:
8000**

TAKEOFF MINIMUMS

Rwys 7L, 7R, 8: Standard with minimum climb of 350' per NM to 8000.
Rwys 25L, 25R, 26: Standard with minimum climb of 350' per NM to 8000.



- NOTE: Restricted to turbojet and turboprop aircraft only.
- NOTE: RADAR and DME required.
- NOTE: Aircraft filing over ACH, CNX, IRW, LBL, ONM, PNH, TCC, and TXO, use BALDY DEPARTURE.
- NOTE: Aircraft filing over SJN, ABQ, and GCK use ST. JOHNS DEPARTURE.
- NOTE: MRA CHOPR/PXR 40 DME 9100 to receive PXR.
- NOTE: MRA GILAA/PXR 55 DME 14000 to receive PXR and IWA.
- NOTE: MRA ADYAN/IWA 95 DME FL240 to receive IWA.

(CONTINUED ON FOLLOWING PAGE)

NOTE: Chart not to scale.

(BALDY3,MAXXO) 28334
BALDY THREE DEPARTURE

AL-322 (FAA)

PHOENIX SKY HARBOR INTL (PHX)
PHOENIX, ARIZONA

BALDY THREE DEPARTURE



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 7L: Climb heading 078° to 1550, then climbing left turn heading 075°, at 4 DME east of PXR VORTAC, climbing right turn heading 100°. Thence

TAKEOFF RUNWAY 7R: Climb heading 078° to 1550, then climbing left turn heading 070°, at 4 DME east of PXR VORTAC, climbing right turn heading 100°. Thence

TAKEOFF RUNWAY 8: Climb heading 078° to 1550, then climbing right turn heading 080°, at 4 DME east of PXR VORTAC, climbing right turn heading 100°. Thence

TAKEOFF RUNWAY 25L: Climb heading 258° to 1550, then climbing left turn heading 240°, at 9 DME west of PXR VORTAC, climbing left turn heading 140°. Thence

TAKEOFF RUNWAY 25R: Climb heading 258° to 1550, then climbing left turn heading 240°, at 9 DME west of PXR VORTAC, climbing left turn heading 140°. Thence

TAKEOFF RUNWAY 26: Climb heading 258° to 1550, then climbing left turn heading 240°, at 9 DME west of PXR VORTAC, climbing left turn heading 140°. Thence

. . . . maintain 8000 for RADAR vectors to PXR R-070 to GILAA/PXR 55 DME, then pilot nav on IWA R-055 to ADYAN/IWA 95 DME, cross ADYAN at or above 14000 and proceed on RADAR vector 055° to join SJN R-078/CNX R-259 to MAXXO/CNX 51 DME; then (transition). Expect filed altitude 3 minutes after departure.

LOST COMMUNICATIONS: Expect filed altitude 3 minutes after departure.

ANTON CHICO TRANSITION (BALDY3.ACH): From over MAXXO INT on ONM R-049 and ACH R-231 to ACH VORTAC.

CORONA TRANSITION (BALDY3.CNX): From over MAXXO INT on CNX R-259 to CNX VORTAC.

SW-4, 22 FEB 2024 to 21 MAR 2024

SW-4, 22 FEB 2024 to 21 MAR 2024

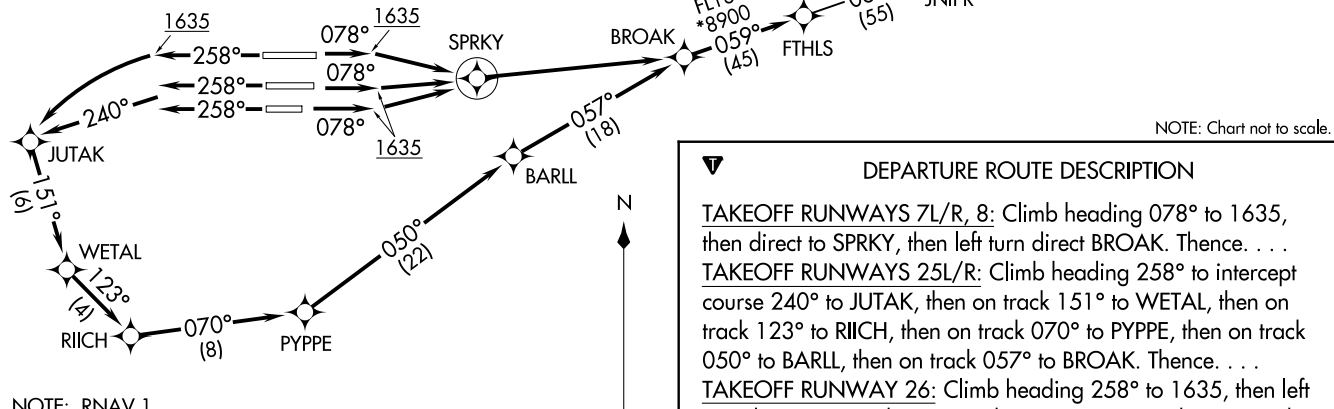
(BROAK1 .BROAK) 24MAY18
BROAK ONE DEPARTURE (RNAV)

D-ATIS
 127.575
 CLNC DEL
 118.1 269.2
 CPDLC
 GND CON
 119.75 269.2 (NORTH)
 132.55 269.2 (SOUTH)
 PHOENIX TOWER
 118.7 278.8 (Rwy 8-26)
 120.9 254.3 (Rwys 7L-25R, 7R-25L)
 PHOENIX DEP CON
 126.8 269.6

TAKEOFF MINIMUMS

Rwys 7L/R, 8: Standard with minimum climb
 of 500' per NM to 1635.
 Rwys 25L/R, 26: Standard with minimum climb
 of 500' per NM to 1900.

**TOP ALTITUDE:
8000**



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 7L/R, 8: Climb heading 078° to 1635, then direct to SPRKY, then left turn direct BROAK. Thence. . .
TAKEOFF RUNWAYS 25L/R: Climb heading 258° to intercept course 240° to JUTAK, then on track 151° to WETAL, then on track 123° to RIICH, then on track 070° to PYPPE, then on track 050° to BARLL, then on track 057° to BROAK. Thence. . .
TAKEOFF RUNWAY 26: Climb heading 258° to 1635, then left turn direct JUTAK, then on track 151° to WETAL, then on track 123° to RIICH, then on track 070° to PYPPE, then on track 050° to BARLL, then on track 057° to BROAK. Thence. . .
 . . . on track 059° to FTHLS, then on (transition). Maintain 8000, expect higher altitude 3 minutes after departure.

ALBUQUERQUE TRANSITION (BROAK1 .ABQ)
JNIPR TRANSITION (BROAK1 .JNIPR)
MAXXO TRANSITION (BROAK1 .MAXXO)

- NOTE: RNAV 1.
 NOTE: Turbojets and turboprops only.
 NOTE: RADAR required.
 NOTE: DME/DME/IRU or GPS required.
 NOTE: ABQ transition ATC assigned only.
 NOTE: Aircraft filing over ACH, LBL, ONM, CNX, PNH, MMB, TCC, IRW and TXO file BROAK DEPARTURE.
 NOTE: Aircraft filing over ABQ, CIM, FTI, and GCK file FORPE DEPARTURE.
 NOTE: Aircraft filing over DEN, RSK, ALS, and points north of ALS file MRBIL DEPARTURE.
 NOTE: For non-GPS equipped aircraft, PXR and TFD DMEs must be operational.

PHOENIX ARIZONA
 PHOENIX SKY HARBOR INTL (PHX)

(BROAK1 .BROAK) 181144
BROAK ONE DEPARTURE (RNAV)

AL-322 (FAA)

PHOENIX SKY HARBOR INTL (PHX)
 PHOENIX ARIZONA

PHOENIX DEP CON
 126.8 269.6
 D-ATIS
 127.575
 CLNC DEL
 118.1 269.2
 CPDLC
 GND CON
 119.75 269.2 (NORTH)
 132.55 269.2 (SOUTH)
 PHOENIX TOWER
 118.7 278.8 (Rwy 8-26)
 120.9 254.3 (Rwys 7L-25R, 7R-25L)

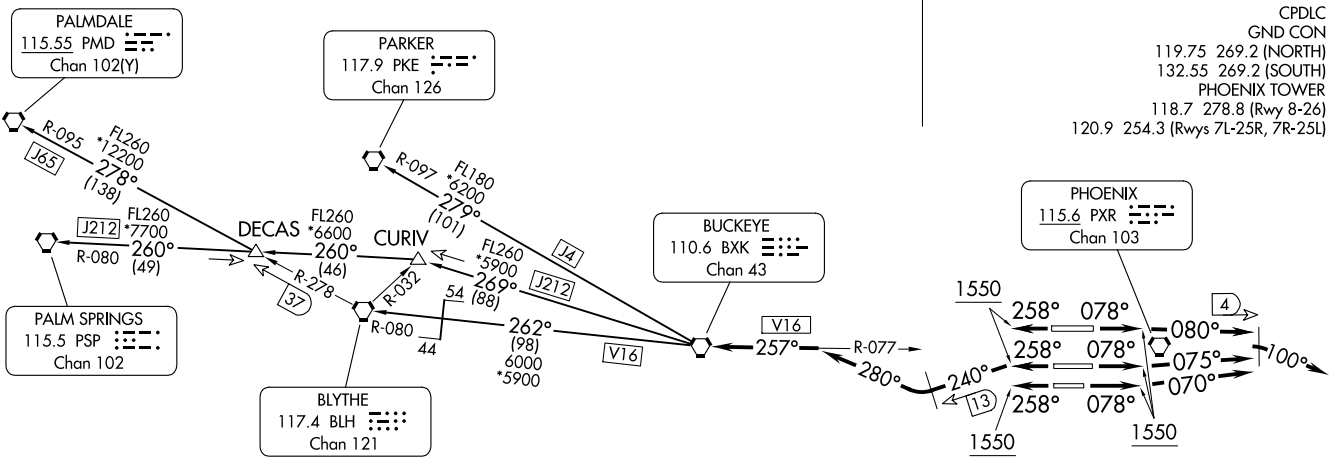


(BKK4.BXK) 23334
 BUCKEYE FOUR DEPARTURE

AL-322 (FAA)

PHOENIX SKY HARBOR INTL (PHX)
 PHOENIX, ARIZONA

**TOP ALTITUDE:
8000**



TAKEOFF MINIMUMS
 Rwys 7L/7R/8: Standard with minimum climb of 300' per NM to 8000.
 Rwys 25L/25R/26: Standard with minimum climb of 350' per NM to 8000.

- NOTE: Restricted to turbojet and turboprop aircraft only.
- NOTE: RADAR and DME required.
- NOTE: Aircraft requesting FL 220 and below must file BLYTHE Transition.
- NOTE: Turbojets landing LAX, file PARKER Transition.
- NOTE: Aircraft landing other than LAX and turboprops landing at LAX: Requesting FL240 and above, file PALMDALE or PALM SPRINGS Transition.

NOTE: Chart not to scale.

(CONTINUED ON FOLLOWING PAGE)

BUCKEYE FOUR DEPARTURE
 (BKK4.BXK) 25JUN15

PHOENIX, ARIZONA
 PHOENIX SKY HARBOR INTL (PHX)



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 8: Climb heading 078° to 1550, then climbing right turn heading 080°, at 4 DME east of PXR VORTAC, climbing right turn heading 100°. Expect RADAR vectors to BXX VORTAC. Thence

TAKEOFF RUNWAY 7L: Climb heading 078° to 1550, then climbing left turn heading 075°, at 4 DME east of PXR VORTAC, climbing right turn heading 100°. Expect RADAR vectors to BXX VORTAC. Thence

TAKEOFF RUNWAY 7R: Climb heading 078° to 1550, then climbing left turn heading 070°, at 4 DME east of PXR VORTAC, climbing right turn heading 100°. Expect RADAR vectors to BXX VORTAC. Thence

TAKEOFF RUNWAY 25L: Climb heading 258° to 1550, then climbing left turn heading 240°, at 13 DME west of PXR VORTAC, climbing right turn heading 280° to the BXX R-077 to BXX VORTAC. Thence

TAKEOFF RUNWAY 25R: Climb heading 258° to 1550, then climbing left turn heading 240°, at 13 DME west of PXR VORTAC, climbing right turn heading 280° to the BXX R-077 to BXX VORTAC. Thence

TAKEOFF RUNWAY 26: Climb heading 258° to 1550, then climbing left turn heading 240°, at 13 DME west of PXR VORTAC, climbing right turn heading 280° to the BXX R-077 to BXX VORTAC. Thence

. . . . maintain 8000, thence via (transition). Expect filed altitude 3 minutes after departure.

LOST COMMUNICATIONS: Expect filed altitude 3 minutes after departure.

BLYTHE TRANSITION (BXX4.BLH): From over BXX VORTAC via BXX R-262 and BLH R-080 to BLH VORTAC.

PALMDALE TRANSITION (BXX4.PMD): From over BXX VORTAC via BXX R-269 to CURIV INT, then via PSP R-080 to DECAS INT, then via BLH R-278 and PMD R-095 to PMD VORTAC.

PALM SPRINGS TRANSITION (BXX4.PSP): From over BXX VORTAC via BXX R-269 to CURIV INT, then via PSP R-080 to PSP VORTAC.

PARKER TRANSITION (BXX4.PKE): From over BXX VORTAC via BXX R-279 and PKE R-097 to PKE VORTAC.

SW-4, 22 FEB 2024 to 21 MAR 2024

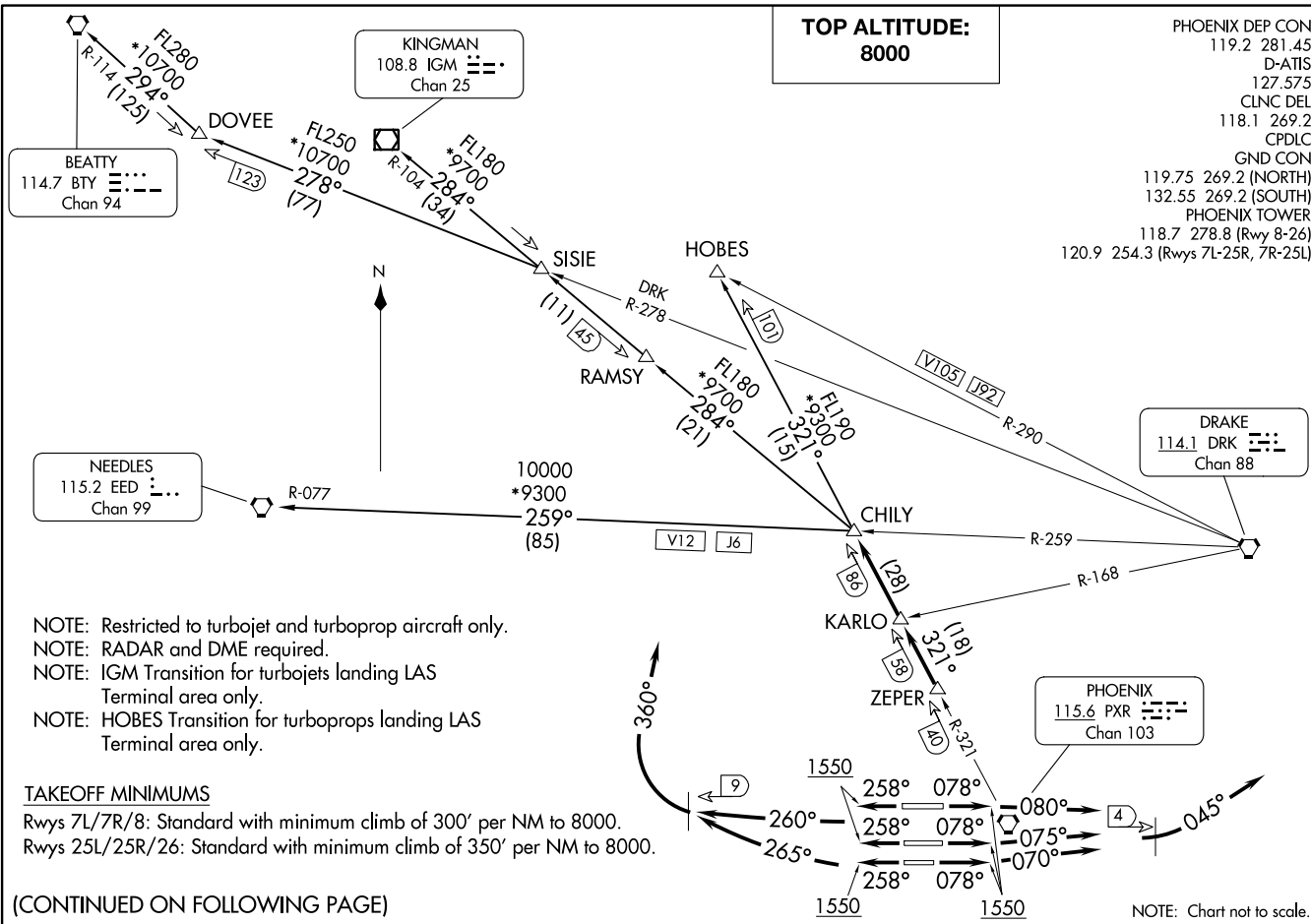
SW-4, 22 FEB 2024 to 21 MAR 2024

CHILY FOUR DEPARTURE
(CHILY4.CHILY) 25JUN15

(CHILY4.CHILY) 23334
CHILY FOUR DEPARTURE

AL-322 (FAA)

PHOENIX SKY HARBOR INTL (PHX)
PHOENIX, ARIZONA



PHOENIX DEP CON
 119.2 281.45
 D-ATIS
 127.575
 CLNC DEL
 118.1 269.2
 CPDLC
 GND CON
 119.75 269.2 (NORTH)
 132.55 269.2 (SOUTH)
 PHOENIX TOWER
 118.7 278.8 (Rwy 8-26)
 120.9 254.3 (Rwys 7L-25R, 7R-25L)

NOTE: Restricted to turbojet and turboprop aircraft.
 NOTE: RADAR and DME required.
 NOTE: IGM Transition for turbojets landing LAS Terminal area only.
 NOTE: HOBES Transition for turboprops landing LAS Terminal area only.

TAKEOFF MINIMUMS

Rwys 7L/7R/8: Standard with minimum climb of 300' per NM to 8000.
 Rwys 25L/25R/26: Standard with minimum climb of 350' per NM to 8000.

(CONTINUED ON FOLLOWING PAGE)



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 8: Climb heading 078° to 1550, then climbing right turn heading 080°, at 4 DME east of PXR VORTAC, climbing left turn heading 045°. Thence

TAKEOFF RUNWAY 7L: Climb heading 078° to 1550, then climbing left turn heading 075°, at 4 DME east of PXR VORTAC, climbing left turn heading 045°. Thence

TAKEOFF RUNWAY 7R: Climb heading 078° to 1550, then climbing left turn heading 070°, at 4 DME east of PXR VORTAC, climbing left turn heading 045°. Thence

TAKEOFF RUNWAY 25L: Climb heading 258° to 1550, then climbing right turn heading 265°, at 9 DME west of PXR VORTAC, climbing right turn heading 360°. Thence

TAKEOFF RUNWAY 25R: Climb heading 258° to 1550, then climbing right turn heading 260°, at 9 DME west of PXR VORTAC, climbing right turn heading 360°. Thence

TAKEOFF RUNWAY 26: Climb heading 258° to 1550, then climbing right turn heading 260°, at 9 DME west of PXR VORTAC, climbing right turn heading 360°. Thence

. . . . maintain 8000, expect RADAR vectors to PXR R-321 to ZEPER/PXR 40 DME then CHILY INT. Thence via (transition). Expect filed altitude 3 minutes after departure.

LOST COMMUNICATIONS: Expect filed altitude 3 minutes after departure.

BEATTY TRANSITION (CHILY4.BTY): From over CHILY INT via IGM R-104 to SISIE INT, then via DRK R-278 to DOVEE INT, then via BTY R-114 to BTY VORTAC.

HOBES TRANSITION (CHILY4.HOBES): From over CHILY INT via PXR R-321 to HOBES INT.

KINGMAN TRANSITION (CHILY4.IGM): From over CHILY INT via IGM R-104 to IGM VOR/DME.

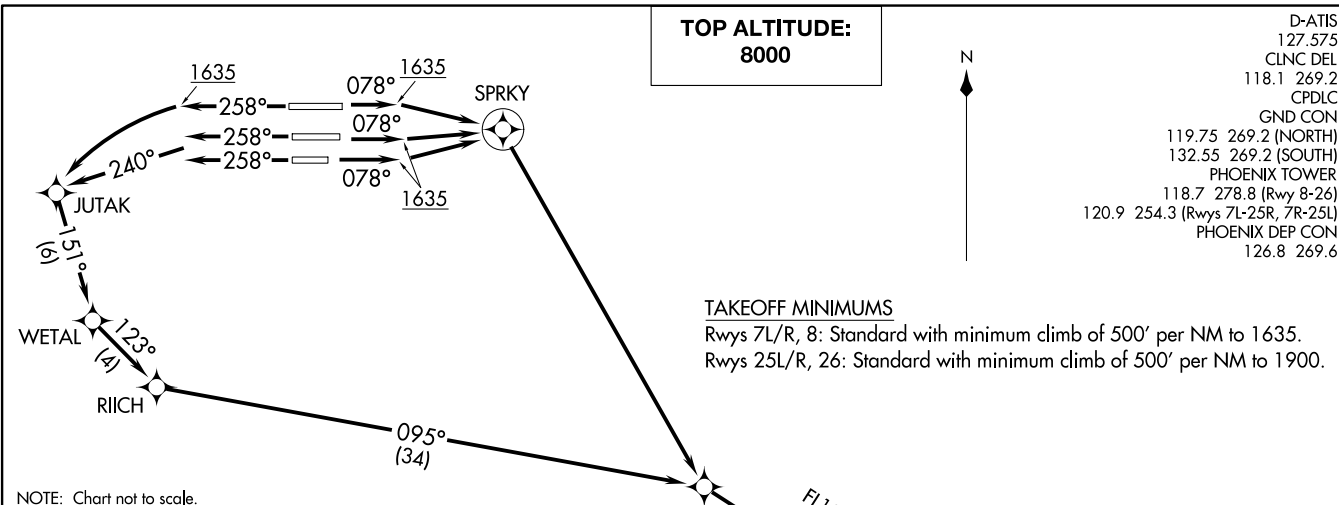
NEEDLES TRANSITION (CHILY4.EED): From over CHILY INT via DRK R-259 and EED R-077 to EED VORTAC.

SW-4, 22 FEB 2024 to 21 MAR 2024

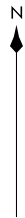
SW-4, 22 FEB 2024 to 21 MAR 2024

ECLPS ONE DEPARTURE (RNAV)
(ECLPS1, ECLPS) 24MAY18

PHOENIX, ARIZONA
PHOENIX SKY HARBOR INTL (PHX)



**TOP ALTITUDE:
8000**



D-ATIS
127.575
CLNC DEL
118.1 269.2
CPDLC
GND CON
119.75 269.2 (NORTH)
132.55 269.2 (SOUTH)
PHOENIX TOWER
118.7 278.8 (Rwy 8-26)
120.9 254.3 (Rwys 7L-25R, 7R-25L)
PHOENIX DEP CON
126.8 269.6

TAKEOFF MINIMUMS
Rwys 7L/R, 8: Standard with minimum climb of 500' per NM to 1635.
Rwys 25L/R, 26: Standard with minimum climb of 500' per NM to 1900.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 7L/R, 8: Climb heading 078° to 1635, then direct to SPRKY, then right turn direct ECLPS. Thence. . . .
TAKEOFF RUNWAYS 25L/R: Climb heading 258° to intercept course 240° to JUTAK, then on track 151° to WETAL, then on track 123° to RIICH, then on track 095° to ECLPS. Thence. . . .
TAKEOFF RUNWAY 26: Climb heading 258° to 1635, then left turn direct JUTAK, then on track 151° to WETAL, then on track 123° to RIICH, then on track 095° to ECLPS. Thence. . . .
 . . . on track 111° to KATMN. Then on (transition), expect filed altitude 3 minutes after departure.

PHASE TRANSITION (ECLPS1.PHASE)

- NOTE: RNAV 1.
- NOTE: Turbojets and turboprops only.
- NOTE: RADAR required.
- NOTE: DME/DME/IRU or GPS required.
- NOTE: For non-GPS equipped aircraft, TFD and DUG DMEs must be operational.

(ECLPS1, ECLPS) 18144
ECLPS ONE DEPARTURE (RNAV)

AL-322 (FAA)

PHOENIX SKY HARBOR INTL (PHX)
PHOENIX, ARIZONA

FORPE ONE DEPARTURE (RNAV)
(FORPE1.FORPE) 24MAY18

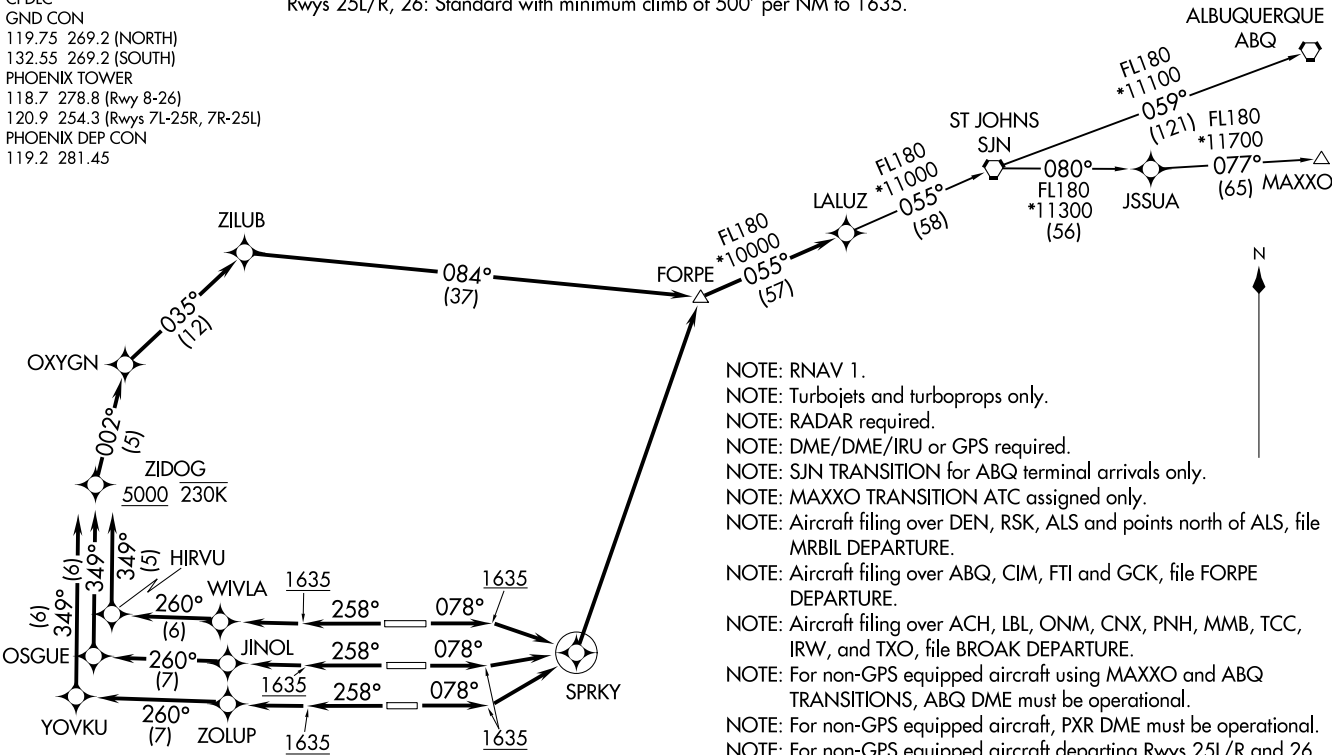
PHOENIX SKY HARBOR INTL (PHX)
PHOENIX, ARIZONA

D-ATIS
127.575
CLNC DEL
118.1 269.2
CPDLC
GND CON
119.75 269.2 (NORTH)
132.55 269.2 (SOUTH)
PHOENIX TOWER
118.7 278.8 (Rwy 8-26)
120.9 254.3 (Rwys 7L-25R, 7R-25L)
PHOENIX DEP CON
119.2 281.45

TAKEOFF MINIMUMS

Rwys 7L/R, 8: Standard with minimum climb of 500' per NM to 1635
then minimum climb of 250' per NM to 7300.
Rwys 25L/R, 26: Standard with minimum climb of 500' per NM to 1635.

**TOP ALTITUDE:
8000**



- NOTE: RNAV 1.
- NOTE: Turbojets and turboprops only.
- NOTE: RADAR required.
- NOTE: DME/DME/IRU or GPS required.
- NOTE: SJN TRANSITION for ABQ terminal arrivals only.
- NOTE: MAXXO TRANSITION ATC assigned only.
- NOTE: Aircraft filing over DEN, RSK, ALS and points north of ALS, file MRBIL DEPARTURE.
- NOTE: Aircraft filing over ABQ, CIM, FTI and GCK, file FORPE DEPARTURE.
- NOTE: Aircraft filing over ACH, LBL, ONM, CNX, PNH, MMB, TCC, IRW, and TXO, file BROAK DEPARTURE.
- NOTE: For non-GPS equipped aircraft using MAXXO and ABQ TRANSITIONS, ABQ DME must be operational.
- NOTE: For non-GPS equipped aircraft, PXR DME must be operational.
- NOTE: For non-GPS equipped aircraft departing Rwys 25L/R and 26, IWA and TFD DMEs must be operational.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

(FORPE1.FORPE) 18144
FORPE ONE DEPARTURE (RNAV)

PHOENIX SKY HARBOR INTL (PHX)
PHOENIX, ARIZONA

AL-322 (FAA)



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 7L, 7R, 8: Climb heading 078° to 1635, then direct SPRKY, then left turn direct FORPE, thence

TAKEOFF RUNWAY 25L: Climb heading 258° to 1635, then direct ZOLUP, then on track 260° to YOYKU, then on track 349° to cross ZIDOG at or above 5000 and at/below 230K, then on track 002° to OXYGN, then on track 035° to ZILUB, then on track 084° to FORPE, thence

TAKEOFF RUNWAY 25R: Climb heading 258° to 1635, then direct JINOL, then on track 260° to OSGUE, then on track 349° to cross ZIDOG at or above 5000 and at/below 230K, then on track 002° to OXYGN, then on track 035° to ZILUB, then on track 084° to FORPE, thence

TAKEOFF RUNWAY 26: Climb heading 258° to 1635, then direct WIVLA, then on track 260° to HIRVU, then on track 349° to cross ZIDOG at or above 5000 and at/below 230K, then on track 002° to OXYGN, then on track 035° to ZILUB, then on track 084° to FORPE, thence

. . . . on track 055° to LALUZ, then on (transition). Maintain 8000, expect higher altitude 3 minutes after departure.

ALBUQUERQUE TRANSITION (FORPE1.ABQ)

MAXXO TRANSITION (FORPE1.MAXXO)

ST JOHNS TRANSITION (FORPE1.SJN)

SW-4, 22 FEB 2024 to 21 MAR 2024

SW-4, 22 FEB 2024 to 21 MAR 2024

FYRBD ONE DEPARTURE (RNAV)
(FYRBD1.FYRBD) 24MMAY18

PHOENIX SKY HARBOR INTL (PHX)
PHOENIX, ARIZONA

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 7L/R, 8: Climb heading 078° to 1635, then direct FUTEP, then on track 132° to AZCRD, then on track 199° to USEYE, then on track 264° to cross MASVE at/above 7000 and at/below 220K, then on track 264° to OAKLI, then on track 222° to FYRBD, thence. . . .

TAKEOFF RUNWAYS 25L/R: Climb heading 258° to intercept course 240° to JUTAK, then on track 151° to WETAL, then on track 221° to FYRBD, thence. . . .

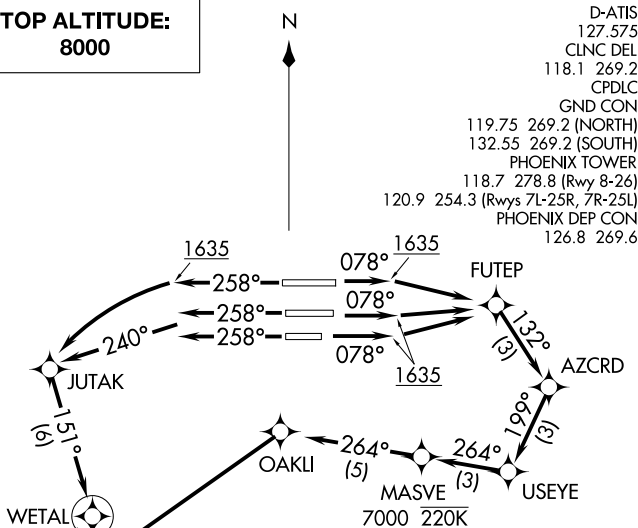
TAKEOFF RUNWAY 26: Climb heading 258° to 1635, then left turn direct JUTAK, then on track 151° to WETAL, then on track 221° to FYRBD, thence. . . .

. . . .on track 249° to JUDTH, then on (transition). Maintain 8000, expect higher altitude 3 minutes after departure.

MOHAK TRANSITION (FYRBD1.MOHAK)

**TOP ALTITUDE:
8000**

N



D-ATIS
127.575
CLNC DEL
118.1 269.2
CPDLC
GND CON
119.75 269.2 (NORTH)
132.55 269.2 (SOUTH)
PHOENIX TOWER
118.7 278.8 (Rwy 8-26)
120.9 254.3 (Rwys 7L-25R, 7R-25L)
PHOENIX DEP CON
126.8 269.6

NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.

TAKEOFF MINIMUMS

Rwys 7L/R, 8: Standard.

Rwys 25L/R, 26: Standard with minimum climb of 500' per NM to 1635, then minimum climb of 260' per NM to 5400.

NOTE: Chart not to scale.

(FYRBD1.FYRBD) 181.44
FYRBD ONE DEPARTURE (RNAV)

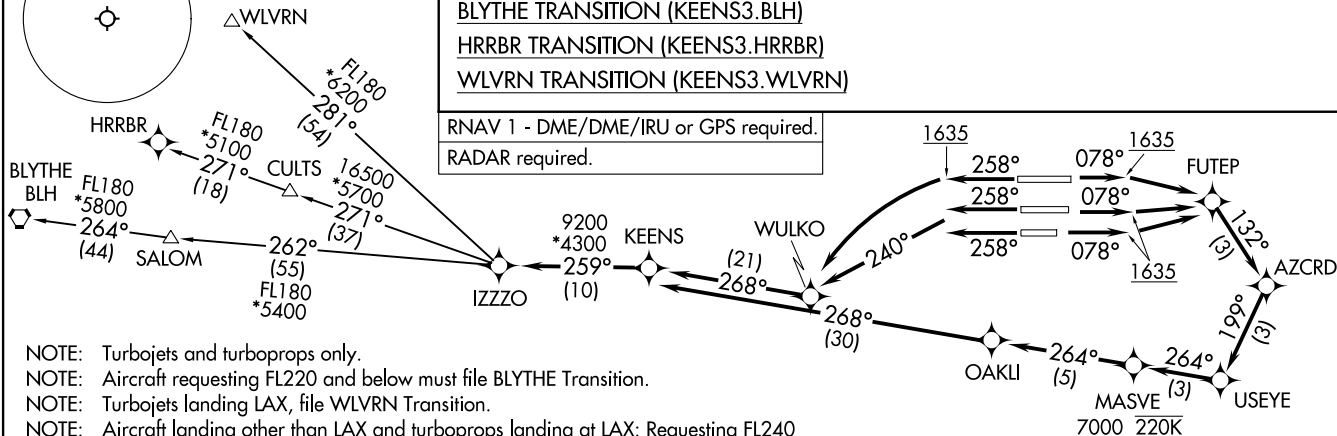
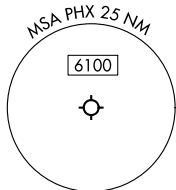
AL-322 (FAA)

PHOENIX SKY HARBOR INTL (PHX)
PHOENIX, ARIZONA

KEENS THREE DEPARTURE (RNAV)
(KEENS3.KEENS) 251AN24

PHOENIX DEP CON
126.8 269.6
D-ATIS
127.575
CLNC DEL
118.1 269.2
GND CON
119.75 269.2 (NORTH)
132.55 269.2 (SOUTH)
PHOENIX TOWER
118.7 278.8 (Rwy 8-26)
120.9 254.3 (Rwys 7L-25R, 7R-25L)

**TOP ALTITUDE:
8000**



RNAV 1 - DME/DME/IRU or GPS required.
RADAR required.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 7L/R, 8: Climb on heading 078° to 1635, then direct FUTEF, then on track 132° to AZCRD, then on track 199° to USEYE, then on track 264° to cross MASVE at/above 7000 and at/below 220K, then on track 264° to OAKLI, then on track 268° to KEENS, thence. . . .

TAKEOFF RUNWAYS 25L/R: Climb on heading 258° to intercept course 240° to WULKO, then on track 268° to KEENS, thence. . . .

TAKEOFF RUNWAY 26: Climb on heading 258° to 1635, then left turn direct WULKO, then on track 268° to KEENS, thence. . . .

. . . on track 259° to IZZO, then on (transition). Maintain 8000, expect higher altitude 3 minutes after departure.

BLYTHE TRANSITION (KEENS3.BLH)
HRRBR TRANSITION (KEENS3.HRRBR)
WLVN TRANSITION (KEENS3.WLVN)

- NOTE: Turbojets and turboprops only.
- NOTE: Aircraft requesting FL220 and below must file BLYTHE Transition.
- NOTE: Turbojets landing LAX, file WLVN Transition.
- NOTE: Aircraft landing other than LAX and turboprops landing at LAX: Requesting FL240 and above, file HRRBR Transition.

TAKEOFF MINIMUMS

Rwys 7L/R, 8: Standard.
 Rwys 25L/R, 26: Standard with minimum climb of 500'/NM to 1635.

NOTE: Chart not to scale.

PHOENIX SKY HARBOR INTL (PHX)
PHOENIX, ARIZONA
AL-322 (FAA)

PHOENIX SKY HARBOR INTL (PHX)
PHOENIX, ARIZONA
AL-322 (FAA)

(MOBIE4.MOBIE) 23334

MOBIE FOUR DEPARTURE

AL-322 (FAA)

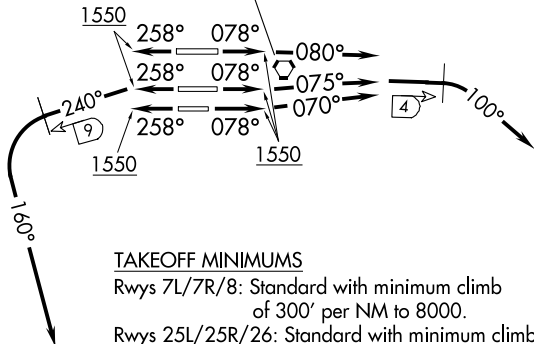
PHOENIX SKY HARBOR INTL (PHX)

PHOENIX, ARIZONA

PHOENIX DEP CON
 126.8 269.6
 D-ATIS
 127.575
 CLNC DEL
 118.1 269.2
 CPDLC
 GND CON
 119.75 269.2 (NORTH)
 132.55 269.2 (SOUTH)
 PHOENIX TOWER
 118.7 278.8 (Rwy 8-26)
 120.9 254.3 (Rwys 7L-25R, 7R-25L)

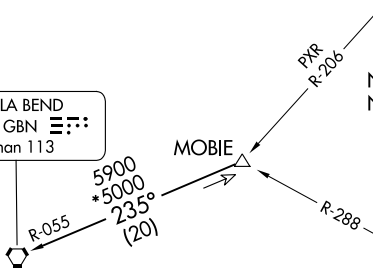
**TOP ALTITUDE:
8000**

PHOENIX
 115.6 PXR
 Chan 103



NOTE: Restricted to turbojet and turboprop aircraft only.
 NOTE: DME and RADAR required.

GILA BEND
 116.6 GBN
 Chan 113



STANFIELD
 114.8 TFD
 Chan 95

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 8: Climb heading 078° to 1550, then climbing right turn heading 080°, at 4 DME east of PXR VORTAC, climbing right turn heading 100°. Thence. . .

TAKEOFF RUNWAY 7L: Climb heading 078° to 1550, then climbing left turn heading 075°, at 4 DME east of PXR VORTAC, climbing right turn heading 100°. Thence. . .

TAKEOFF RUNWAY 7R: Climb heading 078° to 1550, then climbing left turn heading 070°, at 4 DME east of PXR VORTAC, climbing right turn heading 100°. Thence. . .

TAKEOFF RUNWAY 25L: Climb heading 258° to 1550, then climbing left turn heading 240°, at 9 DME west of PXR VORTAC, climbing left turn heading 160°. Thence. . .

TAKEOFF RUNWAY 25R: Climb heading 258° to 1550, then climbing left turn heading 240°, at 9 DME west of PXR VORTAC, climbing left turn heading 160°. Thence. . .

TAKEOFF RUNWAY 26: Climb heading 258° to 1550, then climbing left turn heading 240°, at 9 DME west of PXR VORTAC, climbing left turn heading 160°. Thence. . .

. . . maintain 8000, expect RADAR vectors to MOBIE INT thence via (transition). Expect filed altitude 3 minutes after departure.

LOST COMMUNICATIONS: Expect filed altitude 3 minutes after departure.

GILA BEND TRANSITION (MOBIE4.GBN): From over MOBIE INT via GBN R-055 to GBN VORTAC.

MOBIE FOUR DEPARTURE

(MOBIE4.MOBIE) 25JUN15

PHOENIX, ARIZONA
PHOENIX SKY HARBOR INTL (PHX)

SW-4, 22 FEB 2024 to 21 MAR 2024

SW-4, 22 FEB 2024 to 21 MAR 2024

MRBIL ONE DEPARTURE (RNAV)

AL-322 (FAA)

PHOENIX SKY HARBOR INTL (PHX)
PHOENIX, ARIZONA

D-ATIS
127.575
CLNC DEL
118.1 269.2
CPDLC
GND CON
119.75 269.2 (NORTH)
132.55 269.2 (SOUTH)
PHOENIX TOWER
118.7 278.8 (Rwy 8-26)
120.9 254.3 (Rwys 7L-25R, 7R-25L)
PHOENIX DEP CON
119.2 281.45

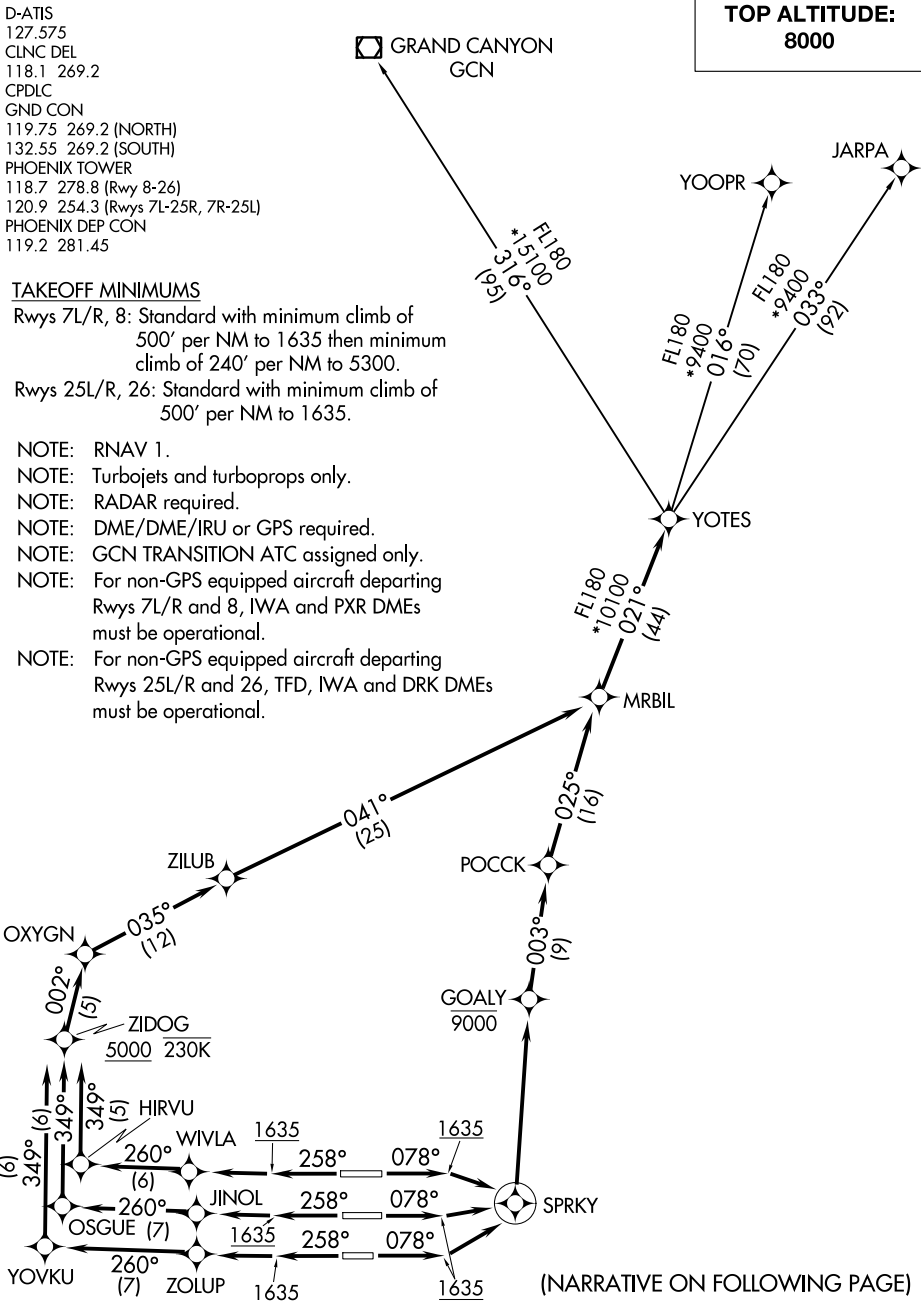
**TOP ALTITUDE:
8000**

TAKEOFF MINIMUMS

Rwys 7L/R, 8: Standard with minimum climb of 500' per NM to 1635 then minimum climb of 240' per NM to 5300.

Rwys 25L/R, 26: Standard with minimum climb of 500' per NM to 1635.

- NOTE: RNAV 1.
- NOTE: Turbojets and turboprops only.
- NOTE: RADAR required.
- NOTE: DME/DME/IRU or GPS required.
- NOTE: GCN TRANSITION ATC assigned only.
- NOTE: For non-GPS equipped aircraft departing Rwys 7L/R and 8, IWA and PXR DMEs must be operational.
- NOTE: For non-GPS equipped aircraft departing Rwys 25L/R and 26, TFD, IWA and DRK DMEs must be operational.



SW-4, 22 FEB 2024 to 21 MAR 2024

SW-4, 22 FEB 2024 to 21 MAR 2024

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

MRBIL ONE DEPARTURE (RNAV)



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 7L/R, 8: Climb heading 078° to 1635, then direct to SPRKY, then turn left direct to cross GOALY at/below 9000, then on track 003° to POCCK, then on track 025° to MRBIL, thence. . . .

TAKEOFF RUNWAY 25L: Climb heading 258° to 1635, then direct ZOLUP, then on track 260° to YOVKU, then on track 349° to cross ZIDOG at/above 5000 and at/below 230K, then on track 002° to OXYGN, then on track 035° to ZILUB, then on track 041° to MRBIL, thence. . . .

TAKEOFF RUNWAY 25R: Climb heading 258° to 1635, then direct JINOL, then on track 260° to OSGUE, then on track 349° to cross ZIDOG at/above 5000 and at/below 230K, then on track 002° to OXYGN, then on track 035° to ZILUB, then on track 041° to MRBIL, thence. . . .

TAKEOFF RUNWAY 26: Climb heading 258° to 1635, then direct WIVLA, then on track 260° to HIRVU, then on track 349° to cross ZIDOG at/above 5000 and at/below 230K, then on track 002° to OXYGN, then on track 035° to ZILUB, then on track 041° to MRBIL, thence. . . .

. . . .on track 021° to YOTES, then on (transition). Maintain 8000, expect higher altitude 3 minutes after departure.

GRAND CANYON TRANSITION (MRBIL1.GCN)

JARPA TRANSITION (MRBIL1.JARPA)

YOOPR TRANSITION (MRBIL1.YOOPR)

SW-4, 22 FEB 2024 to 21 MAR 2024

SW-4, 22 FEB 2024 to 21 MAR 2024

QUAKY ONE DEPARTURE (RNAV)

AL-322 (FAA)

PHOENIX SKY HARBOR INTL (PHX)
PHOENIX, ARIZONA

D-ATIS
127.575
CLNC DEL
118.1 269.2
CPDLC
GND CON
119.75 269.2 (NORTH)
132.55 269.2 (SOUTH)
PHOENIX TOWER
118.7 278.8 (Rwy 8-26)
120.9 254.3 (Rwys 7L-25R, 7R-25L)
PHOENIX DEP CON
119.2 281.45

GRAND CANYON 
GCN

**TOP ALTITUDE:
8000**

TAKEOFF MINIMUMS

Rwys 7L/R, 8: Standard with minimum climb of 500' per NM to 1635, then minimum climb of 230' per NM to 5200.
Rwys 25L/R, 26: Standard with minimum climb of 500' per NM to 1635.

NOTE: RNAV 1.

NOTE: Turbojets and turboprops only.

NOTE: RADAR required.

NOTE: DME/DME/IRU or GPS required.

NOTE: JARPA TRANSITION ATC assigned only.

NOTE: YOOPR TRANSITION ATC assigned only.

NOTE: CARTL TRANSITION for FLG or PGA terminal arrivals only.

NOTE: For non-GPS equipped aircraft using YOOPR TRANSITION, DRK DME must be operational.

NOTE: For non-GPS equipped aircraft, IWA DME must be operational.

NOTE: For non-GPS equipped aircraft departing Rwys 25L/R, 26, TFD and BXK DMEs must be operational.

NOTE: For non-GPS equipped aircraft departing Rwys 8, 25R, 26, DRK DME must be operational.

NOTE: For non-GPS equipped aircraft departing Rwys 7L/R, PXR DME must be operational.

FL180
*9400
342°
(26)

RIMMM
FL180
*11500
343°
(110)

LOFTS
FL180
*11500
343°
(36)

CARTL
FL180
*9100
343°
(20)

SNOB L
14600
*8200
343°
(20)

QUAKY
14600
*8200
343°
(20)

ZILUB
035°
(12)

OXYGN
002°
(6)

ZIDOG
5000 230K
002°
(6)

HIRVU
349°
(5)

OSGUE
349°
(9)

YOVKU
349°
(9)

ZOLUP
260°
(7)

WIVLA
260°
(6)

JINOL
260°
(7)

ZOLUP
260°
(7)

YOOPR
FL180
*10700
043°
(94)

JARPA
FL180
*10800
050°
(123)

GOALY
9000

SPRKY

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

SW-4, 22 FEB 2024 to 21 MAR 2024

SW-4, 22 FEB 2024 to 21 MAR 2024

QUAKY ONE DEPARTURE (RNAV)



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 7L/R, 8: Climb heading 078° to 1635, then direct SPRKY, then left turn direct to cross GOALY at/below 9000, then on track 337° to QUAKY, thence

TAKEOFF RUNWAY 25L: Climb heading 258° to 1635, then direct ZOLUP, then on track 260° to YOYKU, then on track 349° to cross ZIDOG at or above 5000 and at or below 230K, then on track 002° to OXYGN, then on track 035° to ZILUB, then on track 357° to QUAKY, thence

TAKEOFF RUNWAY 25R: Climb heading 258° to 1635, then direct JINOL, then on track 260° to OSGUE, then on track 349° to cross ZIDOG at or above 5000 and at or below 230K, then on track 002° to OXYGN, then on track 035° to ZILUB, then on track 357° to QUAKY, thence

TAKEOFF RUNWAY 26: Climb heading 258° to 1635, then direct WIVLA, then on track 260° to HIRVU, then on track 349° to cross ZIDOG at or above 5000 and at or below 230K, then on track 002° to OXYGN, then on track 035° to ZILUB, then on track 357° to QUAKY, thence

. . . . on track 343° to SNOBL, then on (transition). Maintain 8000, expect higher altitude 3 minutes after departure.

CARTL TRANSITION (QUAKY1.CARTL)

GRAND CANYON TRANSITION (QUAKY1.GCN)

JARPA TRANSITION (QUAKY1.JARPA)

RIMMM TRANSITION (QUAKY1.RIMMM)

YOOPR TRANSITION (QUAKY1.YOOPR)

SW-4, 22 FEB 2024 to 21 MAR 2024

SW-4, 22 FEB 2024 to 21 MAR 2024

STANFIELD FOUR DEPARTURE

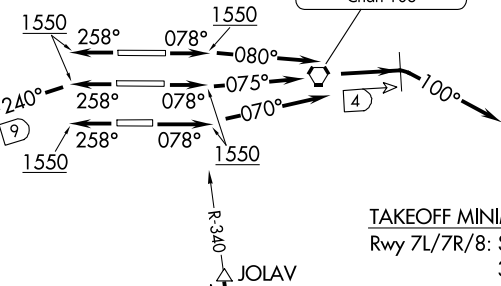
AL-322 (FAA)

PHOENIX SKY HARBOR INTL (PHX)
PHOENIX, ARIZONA

**TOP ALTITUDE:
8000**

PHOENIX DEP CON
126.8 269.6
D-ATIS
127.575
CLNC DEL
118.1 269.2
CPDLC
GND CON
119.75 269.2 (NORTH)
132.55 269.2 (SOUTH)
PHOENIX TOWER
118.7 278.8 (Rwy 8-26)
120.9 254.3 (Rwys 7L-25R, 7R-25L)

PHOENIX
115.6 PXR Chan 103



STANFIELD
114.8 TFD Chan 95

TUCSON
116.0 TUS Chan 107

TAKEOFF MINIMUMS

Rwy 7L/7R/8: Standard with minimum climb of 300' per NM to 8000.

Rwy 25L/25R/26: Standard with minimum climb of 350' per NM to 8000.

NOTE: STANFIELD DEPARTURE restricted to turbojet and turboprop aircraft only.

NOTE: RADAR and DME required.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 8: Climb heading 078° to 1550, then climbing right turn heading 080°, at 4 DME east of PXR VORTAC, climbing right turn heading 100°. Thence. . .

TAKEOFF RUNWAY 7L: Climb heading 078° to 1550, then climbing left turn heading 075°, at 4 DME east of PXR VORTAC, climbing right turn heading 100°. Thence. . .

TAKEOFF RUNWAY 7R: Climb heading 078° to 1550, then climbing left turn heading 070°, at 4 DME east of PXR VORTAC, climbing right turn heading 100°. Thence. . .

TAKEOFF RUNWAY 25L/25R/26: Climb heading 258° to 1550, then climbing left turn heading 240°, at 9 DME west of PXR VORTAC, climbing left turn heading 160°. Thence. . .

. . . maintain 8000, expect RADAR vectors to TFD R-340 to TFD VORTAC. Thence via (Transition). Expect further clearance to filed altitude 3 minutes after departure.

LOST COMMUNICATIONS: Expect filed altitude 3 minutes after departure.

OLIIN TRANSITION (TFD4.OLIIN): From over TFD VORTAC on TFD R-107 to OLIIN INT.

TUCSON TRANSITION (TFD4.TUS): From over TFD VORTAC on TFD R-121 and TUS R-301 to TUS VORTAC.

STANFIELD FOUR DEPARTURE

(TFD4.TFD) 25JUN15

PHOENIX, ARIZONA
PHOENIX SKY HARBOR INTL (PHX)

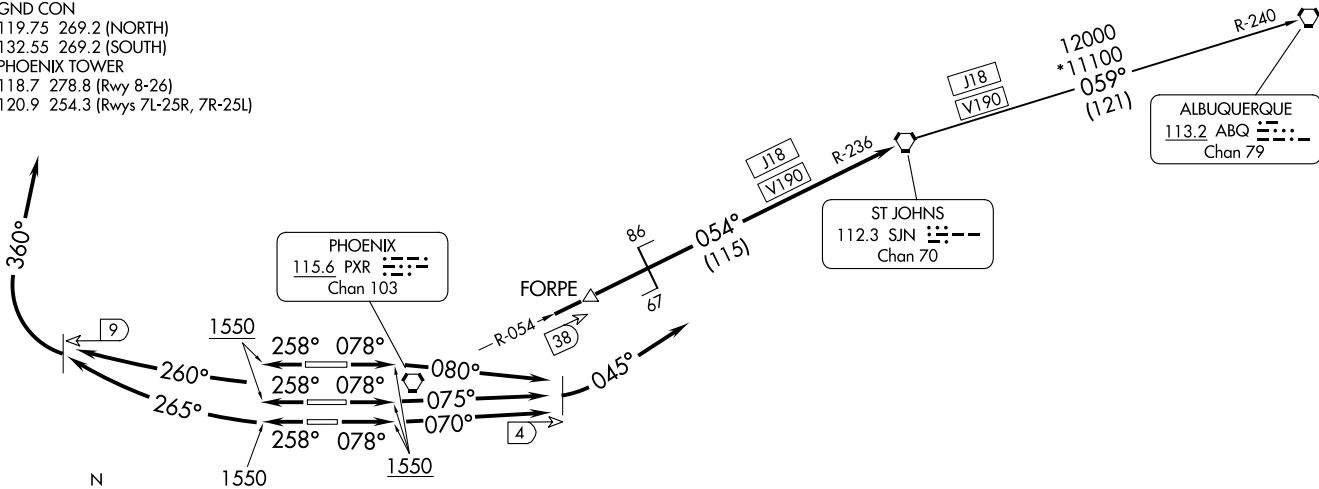
ST. JOHNS NINE DEPARTURE
(SIN9.SJN) 28FEB19

PHOENIX DEP CON
119.2 281.45
D-ATIS
127.575
CLNC DEL
118.1 269.2
CPDLC
GND CON
119.75 269.2 (NORTH)
132.55 269.2 (SOUTH)
PHOENIX TOWER
118.7 278.8 (Rwy 8-26)
120.9 254.3 (Rwys 7L-25R, 7R-25L)

TAKEOFF MINIMUMS

Rwys 7L, 7R, 8: Standard with minimum climb of 350' per NM to 8000.
Rwys 25L, 25R, 26: Standard with minimum climb of 350' per NM to 8000.

TOP ALTITUDE:
8000



- NOTE: Restricted to turbojet and turboprop aircraft only.
- NOTE: RADAR and DME required.
- NOTE: Aircraft filing over ACH, LBL, ONM, CNX, PNH, MMB, TCC, IRW and TXO file BALDY DEPARTURE.
- NOTE: Aircraft filing over CIM, FTI and GCK file ST JOHNS DEPARTURE.

(CONTINUED ON FOLLOWING PAGE)

NOTE: Chart not to scale.

PHOENIX SKY HARBOR INTL (PHX)
PHOENIX, ARIZONA

(SIN9.SJN) 23334
ST. JOHNS NINE DEPARTURE

AL-322 (FAA)

PHOENIX SKY HARBOR INTL (PHX)
PHOENIX, ARIZONA



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 7L: Climb heading 078° to 1550, then climbing left turn heading 075°, at 4 DME east of PXR VORTAC, climbing left turn heading 045° to PXR R-054 to SJN VORTAC, maintain 8000. Thence

TAKEOFF RUNWAY 7R: Climb heading 078° to 1550, then climbing left turn heading 070°, at 4 DME east of PXR VORTAC, climbing left turn heading 045° to PXR R-054 to SJN VORTAC, maintain 8000. Thence

TAKEOFF RUNWAY 8: Climb heading 078° to 1550, then climbing right turn heading 080°, at 4 DME east of PXR VORTAC, climbing left turn heading 045° to PXR R-054 to SJN VORTAC, maintain 8000. Thence

TAKEOFF RUNWAY 25L: Climb heading 258° to 1550, then climbing right turn heading 265°, at 9 DME west of PXR VORTAC, climbing right turn heading 360°, maintain 8000 for RADAR vectors to PXR R-054 to SJN VORTAC. Thence

TAKEOFF RUNWAY 25R: Climb heading 258° to 1550, then climbing right turn heading 260°, at 9 DME west of PXR VORTAC, climbing right turn heading 360°, maintain 8000 for RADAR vectors to PXR R-054 to SJN VORTAC. Thence

TAKEOFF RUNWAY 26: Climb heading 258° to 1550, then climbing right turn heading 260°, at 9 DME west of PXR VORTAC, climbing right turn heading 360°, maintain 8000 for RADAR vectors to PXR R-054 to SJN VORTAC. Thence

. . . . (transition). Expect filed altitude 3 minutes after departure.

LOST COMMUNICATIONS: Expect filed altitude 3 minutes after departure.

ALBUQUERQUE TRANSITION (SJN9.ABQ): From over SJN VORTAC on SJN R-059 and ABQ R-240 to ABQ VORTAC.

SW-4, 22 FEB 2024 to 21 MAR 2024

SW-4, 22 FEB 2024 to 21 MAR 2024

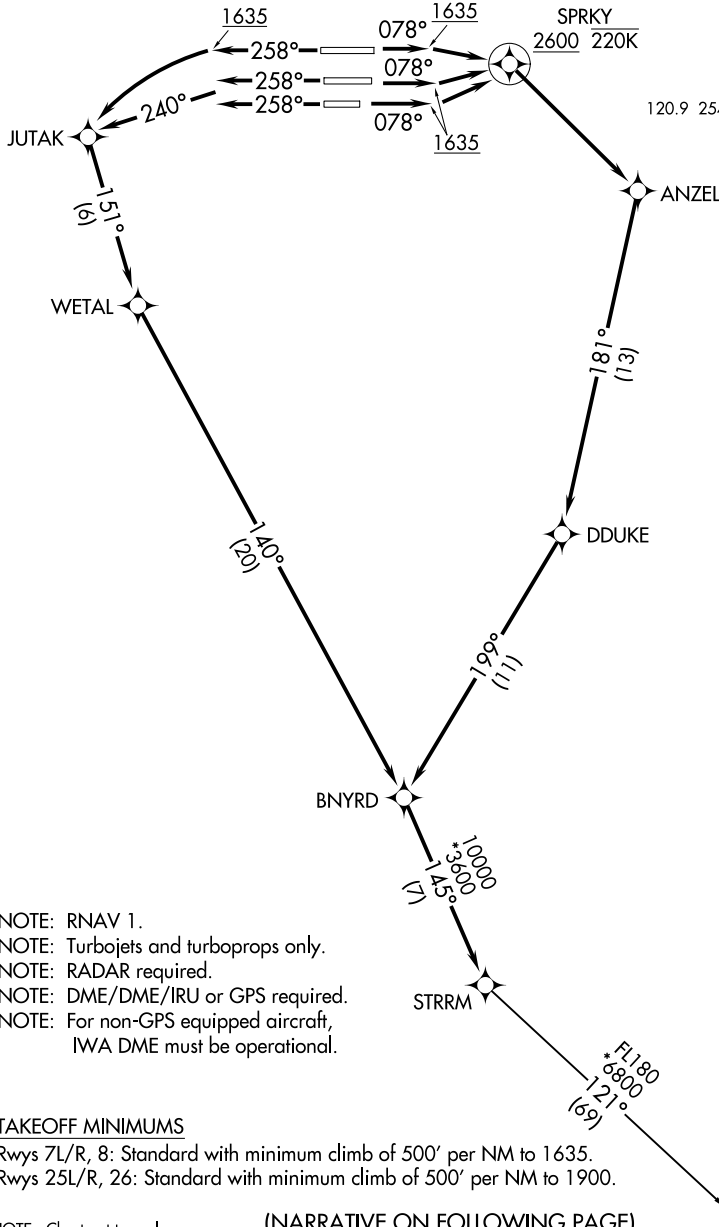
(STRM1.STRRM) 18144

STRM ONE DEPARTURE (RNAV)

AL-322 (FAA)

PHOENIX SKY HARBOR INTL (PHX)
PHOENIX, ARIZONA

**TOP ALTITUDE:
8000**



- NOTE: RNAV 1.
- NOTE: Turbojets and turboprops only.
- NOTE: RADAR required.
- NOTE: DME/DME/IRU or GPS required.
- NOTE: For non-GPS equipped aircraft, IWA DME must be operational.

TAKEOFF MINIMUMS

Rwys 7L/R, 8: Standard with minimum climb of 500' per NM to 1635.
 Rwys 25L/R, 26: Standard with minimum climb of 500' per NM to 1900.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

D-ATIS 127.575
 CLNC DEL 118.1 269.2
 CPDLC 119.75 269.2 (NORTH)
 GND CON 132.55 269.2 (SOUTH)
 PHOENIX TOWER 118.7 278.8 (Rwys 8-26)
 PHOENIX DEP CON 120.9 254.3 (Rwys 7L-25R, 7R-25L)
 126.8 269.6

SW-4, 22 FEB 2024 to 21 MAR 2024

SW-4, 22 FEB 2024 to 21 MAR 2024

STRM ONE DEPARTURE (RNAV)

(STRM1.STRRM) 24MAY18

PHOENIX, ARIZONA
PHOENIX SKY HARBOR INTL (PHX)



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 7L/R, 8: Climb heading 078° to 1635, then direct to cross SPRKY at or above 2600 and at or below 220K, then right turn direct ANZEL, then on track 181° to DDUKE, then on track 199° to BNYRD, thence

TAKEOFF RUNWAYS 25L/R: Climb heading 258° to intercept course 240° to JUTAK, then on track 151° to WETAL, then on track 140° to BNYRD, thence

TAKEOFF RUNWAY 26: Climb heading 258° to 1635, then left turn direct JUTAK, then on track 151° to WETAL, then on track 140° to BNYRD, thence

. . . . on track 145° to STRRM, then on (transition). Maintain 8000, expect higher altitude 3 minutes after departure.

TUCSON TRANSITION (STRRM1.TUS)

SW-4, 22 FEB 2024 to 21 MAR 2024

SW-4, 22 FEB 2024 to 21 MAR 2024

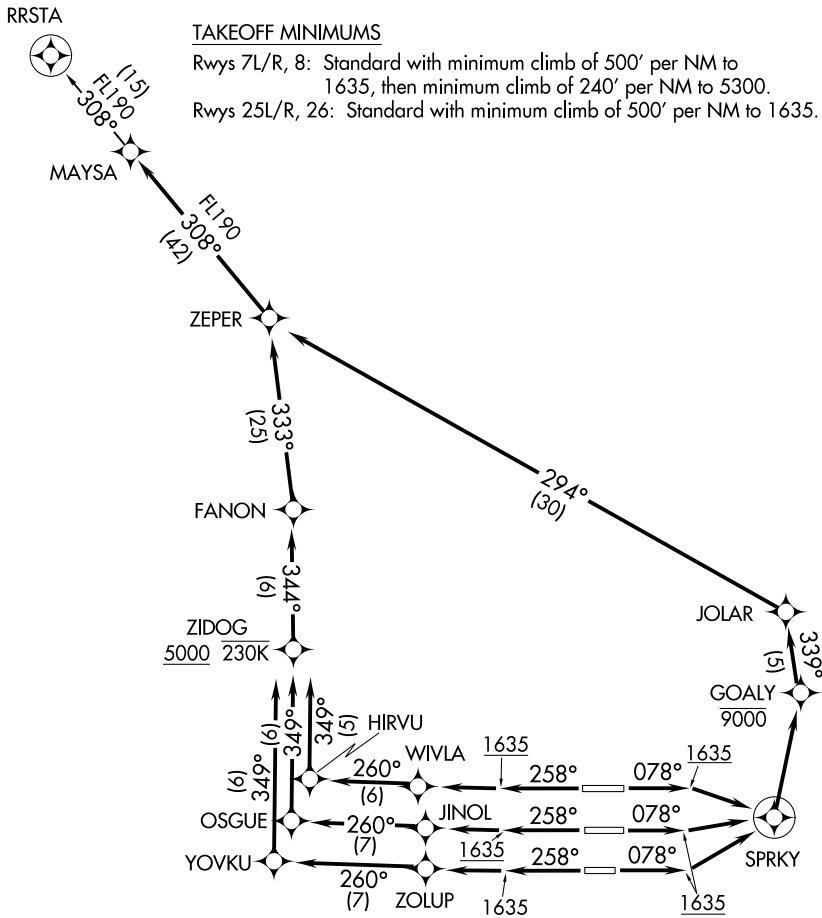
D-ATIS
127.575
CLNC DEL
118.1 269.2
CPDLC
GND CON
119.75 269.2 (NORTH)
132.55 269.2 (SOUTH)
PHOENIX TOWER
118.7 278.8 (Rwy 8-26)
120.9 254.3 (Rwys 7L-25R, 7R-25L)
PHOENIX DEP CON
119.2 281.45

**TOP ALTITUDE:
8000**

- NOTE: RNAV 1.
- NOTE: Turbojets and turboprops only.
- NOTE: RADAR required.
- NOTE: DME/DME/IRU or GPS required.

TAKEOFF MINIMUMS

Rwys 7L/R, 8: Standard with minimum climb of 500' per NM to 1635, then minimum climb of 240' per NM to 5300.
 Rwys 25L/R, 26: Standard with minimum climb of 500' per NM to 1635.



NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 7L/R, 8: Climb on heading 078° to 1635, then direct SPRKY, then turn left direct to cross GOALY at or below 9000, then on track 339° to JOLAR, then on track 294° to ZEPER. Thence

TAKEOFF RUNWAY 25L: Climb on heading 258° to 1635, then direct ZOLUP, then on track 260° to YOYKU, then on track 349° to cross ZIDOG at or above 5000 and at or below 230K, then on track 344° to FANON, then on track 333° to ZEPER, thence

TAKEOFF RUNWAY 25R: Climb on heading 258° to 1635, then direct JINOL, then on track 260° to OSGUE, then on track 349° to cross ZIDOG at or above 5000 and at or below 230K, then on track 344° to FANON, then on track 333° to ZEPER, thence

TAKEOFF RUNWAY 26: Climb on heading 258° to 1635, then direct WIVLA, then on track 260° to HIRVU, then on track 349° to cross ZIDOG at or above 5000 and at or below 230K, then on track 344° to FANON, then on track 333° to ZEPER, thence

. . . . on RRSTA transition. Maintain 8000, expect higher altitude 3 minutes after departure.

RRSTA TRANSITION (ZEPER2.RRSTA)

SW-4, 22 FEB 2024 to 21 MAR 2024

SW-4, 22 FEB 2024 to 21 MAR 2024

HOT SPOTS

An "airport surface hot spot" is a location on an aerodrome movement area with a history or potential risk of collision or runway incursion, and where heightened attention by pilots/drivers is necessary.

A "hot spot" is a runway safety related problem area on an airport that presents increased risk during surface operations. Typically it is a complex or confusing taxiway/taxiway or taxiway/runway intersection. The area of increased risk has either a history of or potential for runway incursions or surface incidents, due to a variety of causes, such as but not limited to: airport layout, traffic flow, airport marking, signage and lighting, situational awareness, and training. Hot spots are depicted on airport diagrams as open circles or polygons designated as "HS 1", "HS 2", etc. and tabulated in the list below with a brief description of each hot spot. Hot spots will remain charted on airport diagrams until such time the increased risk has been reduced or eliminated.

CITY/AIRPORT	HOT SPOT	DESCRIPTION*
CHANDLER, AZ CHANDLER MUNI (CHD)	HS 1	Rwy 22R may be used as an alternate taxi route.
GRAND CANYON, AZ GRAND CANYON NTL PARK (GCN)	HS 1	Twy A and Twy B at the Rwy 21 end.
LAS VEGAS, NV HENDERSON EXEC (HND)	HS 1 HS 2	Twy H, Twy G, and Rwy 17R. Twy E and ramp area. High volume of traffic.
LAS VEGAS, NV HARRY REID INTL (LAS)	HS 1	Wrong rwy departure risk. Aircraft departing Rwy 08L are sometime confused with Rwy 01L. Verify rwy heading and alignment with proper rwy prior to departure.
LAS VEGAS, NV NORTH LAS VEGAS (VGT)	HS 1 HS 2 HS 3 HS 4	Rwy hold lines at Twy G and Twy F in close proximity to edge of large paved area. Rwy 12R, Twy G. Rwy 12R, Twy A and Twy B. Rwy 12L, Twy A.
MINDEN, NV MINDEN-TAHOE (MEV)	HS 1 HS 2	Complex int. Frequent crossings for sailplane operations.
OGDEN, UT OGDEN-HINCKLEY (OGD)	HS 1	Confusing twy int in close proximity to rwy.
PHOENIX, AZ PHOENIX DEER VALLEY (DVT)	HS 1 HS 2	Inadvertent Rwy 07R-25L crossings from Twy B5. Inadvertent Rwy 07R-25L crossings from Twy B9.
PHOENIX, AZ PHOENIX SKY HARBOR INTL (PHX)	HS 1 HS 2	Pilots sometimes mistake Twy F for Rwy 07L or Rwy 07R. Pilots sometimes cross Rwy 07L-25R at Twy F8, Twy F9, or Twy F10, without authorization.
PRESCOTT, AZ PRESCOTT RGNL - ERNEST A LOVE FLD (PRC)	HS 1	Not visible from the twr.
SALT LAKE CITY, UT SALT LAKE CITY INTL (SLC)	HS 1 HS 2 HS 3	Wrong Rwy Departure Risk. Hold lines for Rwy 32 and Rwy 35 are at the same location at Twy K1 and Twy M with short taxi distance to either rwy. High risk of Rwy incursion at Rwy 14-32 on Twy Q due to short taxi distance between rwys. Twy A4 or Twy A5 at Twy A or Twy B mistakenly enter Rwy 16R-34L.

(SEE CONTINUATION PAGE FOR MORE LISTINGS)

HOT SPOTS

(CONTINUED)

CITY/AIRPORT	HOT SPOT	DESCRIPTION*
TUCSON, AZ RYAN FLD (RYN)	HS 1	Rwy 33 and Rwy 06R, Twy B.
TUCSON, AZ TUCSON INTL (TUS)	HS 1	Pilots taxiing to Rwy 12 via Twy D for departure sometimes cross the rwy holding position markings without authorization.

*See appropriate Chart Supplement HOT SPOT table for additional information.

LOC/DME I-RJG 110.75 Chan 44 (Y)	APP CRS 258°	Rwy Idg TDZE Apt Elev	7800 1126 1135
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ILS or LOC RWY 25L

PHOENIX SKY HARBOR INTL (PHX)

Autopilot coupled approach NA below 1925.
Simultaneous approach authorized with Rwy 26.

MALS

MISSED APPROACH: Climb to 3000 then climbing left turn to 5000 on heading 130° and PXR R-163 to POPKE/15 DME and hold.

D-ATIS 127.575	PHOENIX APP CON 128.65 353.9	PHOENIX TOWER 118.7 278.8 (Rwy 8-26) 120.9 254.3 (Rwy 7L-25R, 7R-25L)	GND CON 119.75 269.2 (N) 132.55 269.2 (S)	CLNC DEL 118.1 269.2	CPDLC
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Λ 2358

DME or RADAR REQUIRED

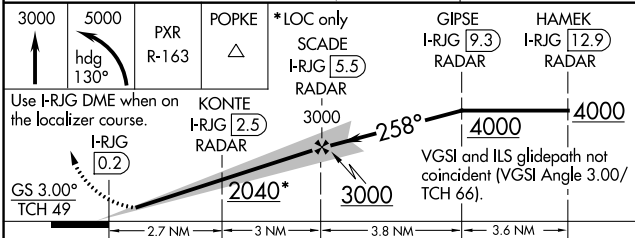
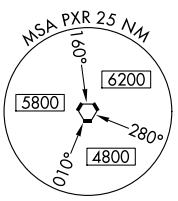
LOCALIZER 110.75
I-RJG
Chan 44 (Y)

PHOENIX 115.6 PXR
Chan 103

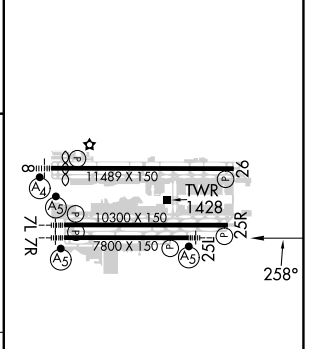
WILLIE 113.3 IWA
Chan 80

ALTERNATE MISSED APCH FIX

WILLIE IWA 113.3
Chan 80



ELEV 1135	D	TDZE 1126
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CATEGORY	A	B	C	D
S-ILS 25L	1326-1/2 200 (200-1/2)			
S-LOC 25L	1520-1/2 394 (400-1/2)		1520-3/4 394 (400-3/4)	
CIRCLING	1740-1 605 (700-1)	2040-2 3/4 905 (1000-2 3/4)	2560-3 1425 (1500-3)	

HIRL Rwys 8-26, 7L-25R and 7R-25L	FAF to MAP 5.6 NM					
REIL Rwy 26	Knots	60	90	120	150	180
	Min:Sec	5:36	3:44	2:48	2:14	1:52

SW-4, 22 FEB 2024 to 21 MAR 2024

SW-4, 22 FEB 2024 to 21 MAR 2024

LOC/DME I-CWJ 111.75 Chan 54 (Y)	APP CRS 258°	Rwy Idg 11489 TDZE 1135 Apt Elev 1135
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ILS or LOC RWY 26

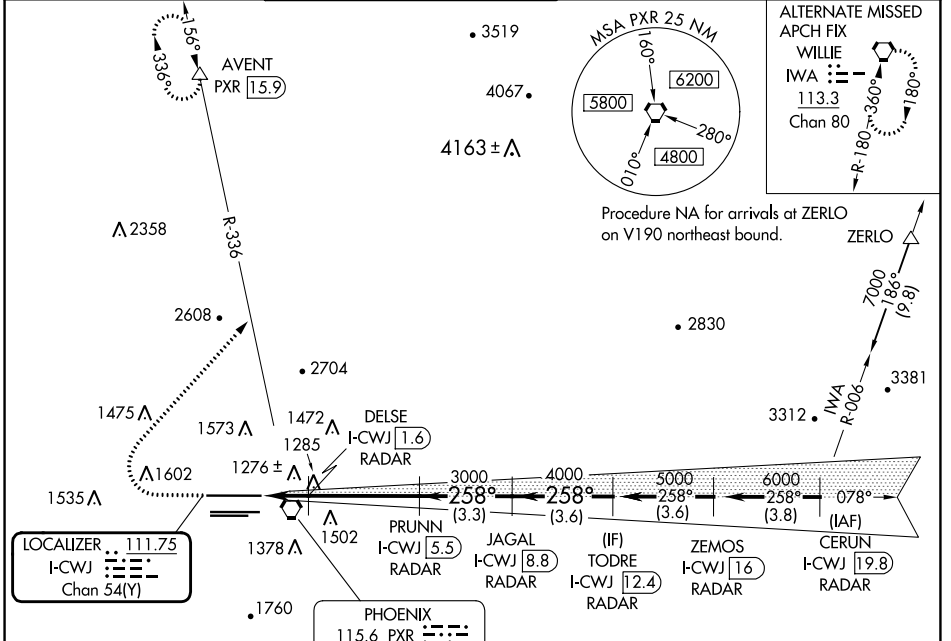
PHOENIX SKY HARBOR INTL (PHX)

DME or RADAR required.

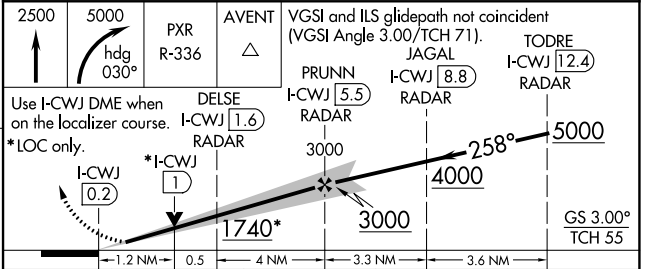
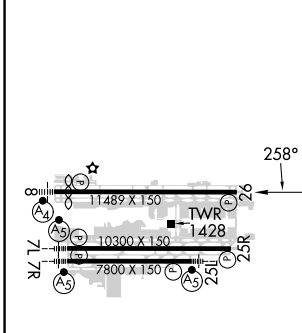
Simultaneous approach authorized.

MISSED APPROACH: Climb to 2500 then climbing right turn to 5000 on heading 030° and PXR VORTAC R-336 to AVENT/PXR 15.9 DME and hold.

D-ATIS 127.575	PHOENIX APP CON 128.65 353.9	PHOENIX TOWER 118.7 278.8 (Rwy 8-26) 120.9 254.3 (Rwy 7L-25R, 7R-25L)	GND CON 119.75 269.2 (N) 132.55 269.2 (S)	CLNC DEL 118.1 269.2	CPDLC
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ELEV 1135	D	TDZE 1135
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CATEGORY	A	B	C	D
S-ILS 26	1385-3/4 250 (300-3/4)			
S-LOC 26	1580-1	445 (500-1)	1580-1 3/8	445 (500-3/8)
C CIRCLING	1740-1	605 (700-1)	2040-2 3/4	2560-3
			905 (1000-2 3/4)	1425 (1500-3)

SW-4, 22 FEB 2024 to 21 MAR 2024

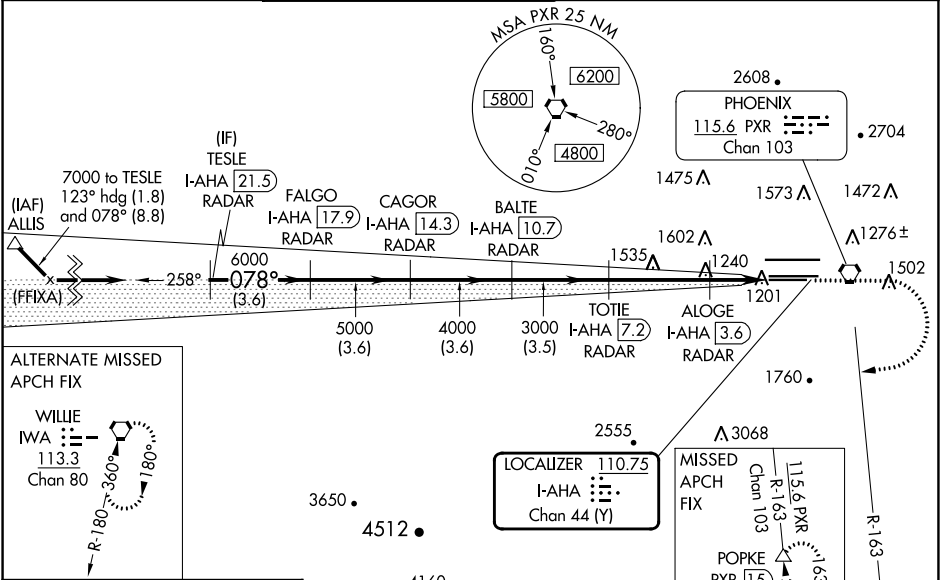
SW-4, 22 FEB 2024 to 21 MAR 2024

LOC/DME I-AHA 110.75 Chan 44 (Y)	APP CRS 078°	Rwy Idg 7800 TDZE 1116 Apt Elev 1135
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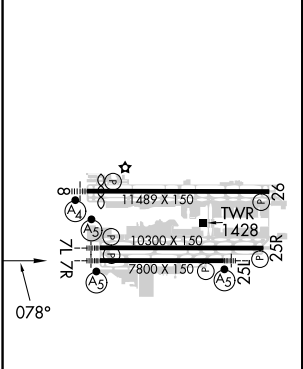
ILS or LOC RWY 7R
PHOENIX SKY HARBOR INTL (PHX)

DME required.	MALSR	MISSED APPROACH: Climb to 3300 then climbing right turn to 5000 on heading 250° and PXR VORTAC R-163 to POPKE/PXR 15 DME and hold.
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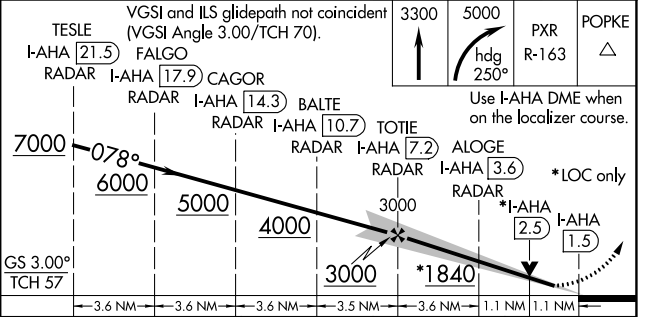
D-ATIS 127.575	PHOENIX APP CON 128.65 353.9	PHOENIX TOWER 118.7 278.8 (Rwy 8-26) 120.9 254.3 (Rwy 7L-25R, 7R-25L)	GND CON 119.75 269.2 (N) 132.55 269.2 (S)	CLNC DEL 118.1 269.2	CPDLC
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ELEV 1135	D	TDZE 1116
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HIRL Rwy 8-26, 7L-25R and 7R-25L					
REIL Rwy 26					
FAF to MAP 5.8 NM					
Knots	60	90	120	150	180
Min:Sec	5:48	3:52	2:54	2:19	1:56



CATEGORY	A	B	C	D
S-ILS 7R		1369-3/4	253 (300-3/4)	
S-LOC 7R		1520-3/4	404 (400-3/4)	
C CIRCLING	1740-1	605 (700-1)	2040-2 3/4 905 (1000-2 3/4)	2560-3 1425 (1500-3)

SW-4, 22 FEB 2024 to 21 MAR 2024

SW-4, 22 FEB 2024 to 21 MAR 2024

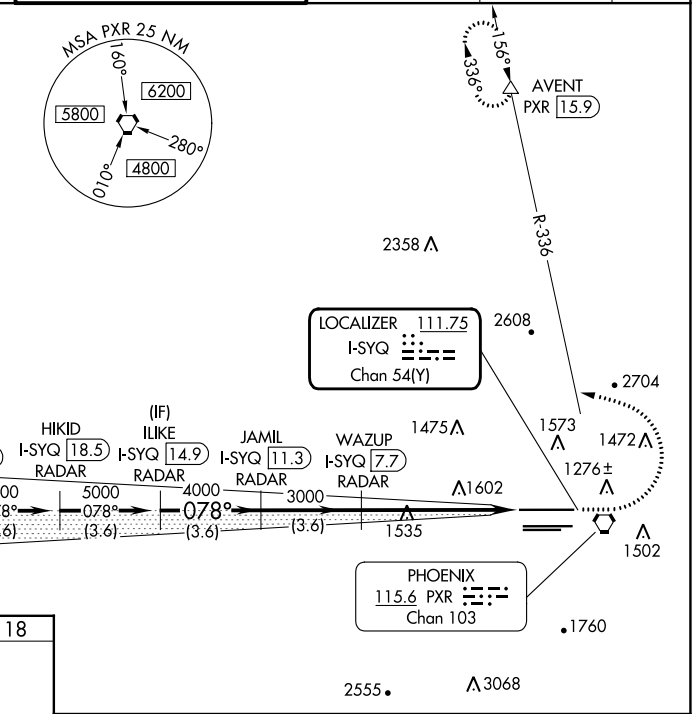
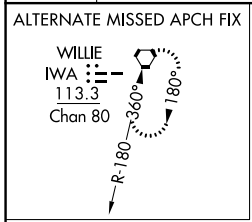
LOC/DME I-SYQ 111.75 Chan 54 (Y)	APP CRS 078°	Rwy ldg 10591 TDZE 1118 Apt Elev 1135
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ILS or LOC RWY 8

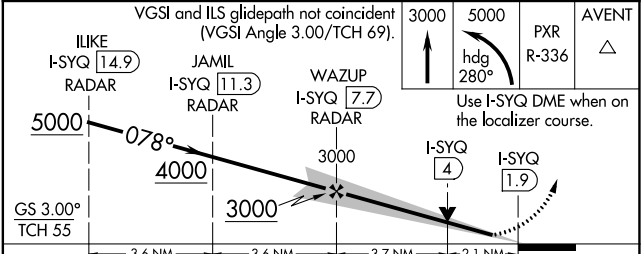
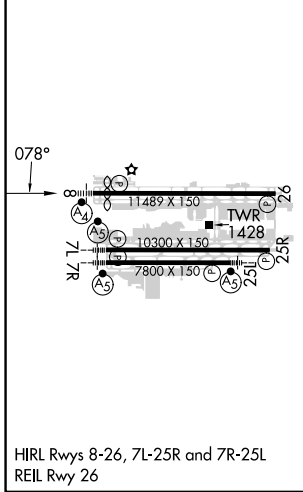
PHOENIX SKY HARBOR INTL (PHX)

DME or RADAR required.	MALSIF 	MISSED APPROACH: Climb to 3000 then climbing left turn to 5000 on heading 280° and PXR VORTAC R-336 to AVENT INT/15.9 DME and hold.
Autopilot coupled approach NA below 1307 MSL. Inop table does not apply to S-ILS 8. Simultaneous approach authorized. For inop ALS increase S-LOC 8 Cat C/D visibility to 2 SM.		

D-ATIS 127.575	PHOENIX APP CON 128.65 353.9	PHOENIX TOWER 118.7 278.8 (Rwy 8-26) 120.9 254.3 (Rwy 7L-25R, 7R-25L)	GND CON 119.75 269.2 (N) 132.55 269.2 (S)	CLNC DEL 118.1 269.2	CPDLC
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ELEV 1135	D	TDZE 1118
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GS 3.00° TCH 55	3.6 NM	3.6 NM	3.7 NM	2.1 NM
CATEGORY	A	B	C	D
S-ILS 8	1368- ³ / ₄		250 (300- ³ / ₄)	
S-LOC 8	1860- ³ / ₄ 742 (800- ³ / ₄)	1860-1 742 (800-1)	1860-1 ⁷ / ₈ 742 (800-1 ⁷ / ₈)	2560-3
C CIRCLING	1860-1 725 (800-1)	1860-1 ¹ / ₄ 725 (800-1 ¹ / ₄)	2040-2 ³ / ₄ 905 (1000-2 ³ / ₄)	2560-3 1425 (1500-3)


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SW-4, 22 FEB 2024 to 21 MAR 2024

LOC/DME I-PHX	APP CRS	Rwy Idg	10300
111.5	078°	TDZE	1116
Chan 52		Apt Elev	1135

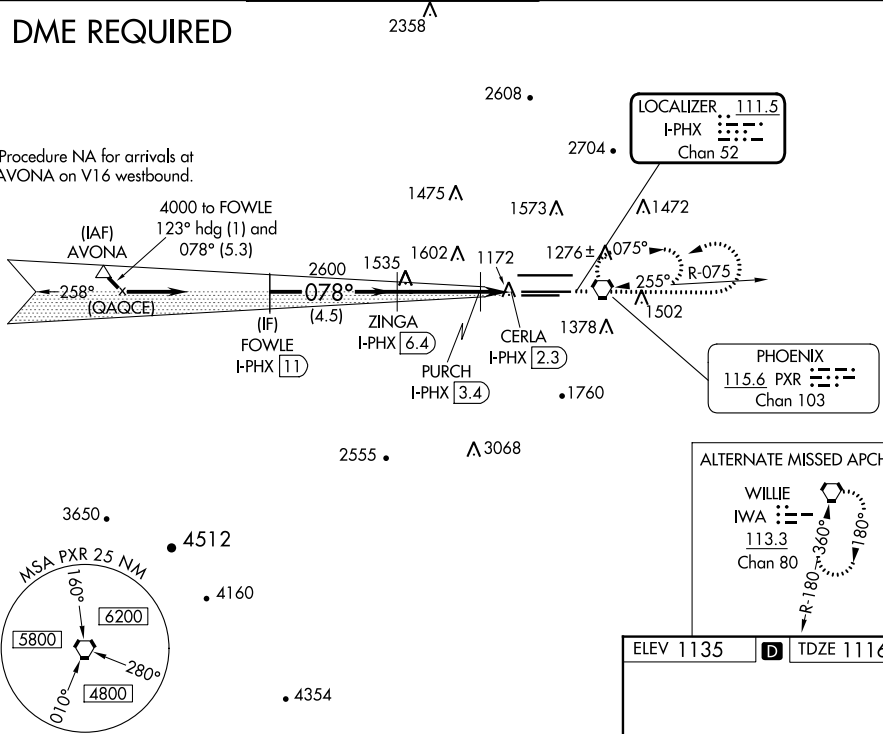
ILS or LOC/DME RWY 7L

PHOENIX SKY HARBOR INTL (PHX)

<p>▽ For inoperative ALS, increase S-LOC 7L Cats C/D visibility to RVR 5500.</p> <p>▲ MALSR</p> 	<p>MISSED APPROACH: Climb to 5000 then left turn direct PXR VORTAC and hold.</p>				
	<p>D-ATIS</p> <p>127.575</p>	<p>PHOENIX APP CON</p> <p>128.65 353.9</p>	<p>PHOENIX TOWER</p> <p>118.7 278.8 (Rwy 8-26)</p> <p>120.9 254.3 (Rwy 7L-25R, 7R-25L)</p>	<p>GND CON</p> <p>119.75 269.2 (N)</p> <p>132.55 269.2 (S)</p>	<p>CLNC DEL</p> <p>118.1 269.2</p>

DME REQUIRED

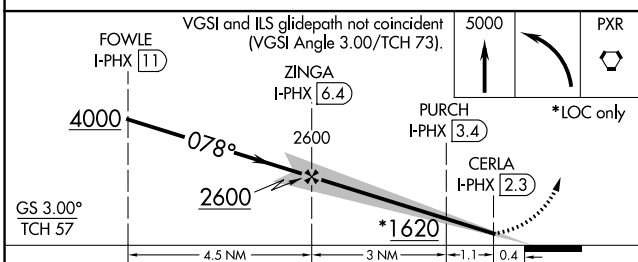
Procedure NA for arrivals at AVONA on V16 westbound.



SW-4, 22 FEB 2024 to 21 MAR 2024

SW-4, 22 FEB 2024 to 21 MAR 2024

ELEV 1135	D TDZE 1116
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<p>11489 X 150</p> <p>10300 X 150</p> <p>7800 X 150</p> <p>1428</p> <p>25R</p> <p>25L</p> <p>078°</p>
<p>HIRL Rwy 8-26, 7L-25R and 7R-25L</p> <p>REIL Rwy 26</p>

CATEGORY	A	B	C	D
S-ILS 7L	1326/24		210 (200-½)	
S-LOC 7L	1460/24	344 (400-½)	1460/30	344 (400-¾)
C CIRCLING	1740-1	605 (700-1)	2040-2¾ 905 (1000-2¾)	2560-3 1425 (1500-3)

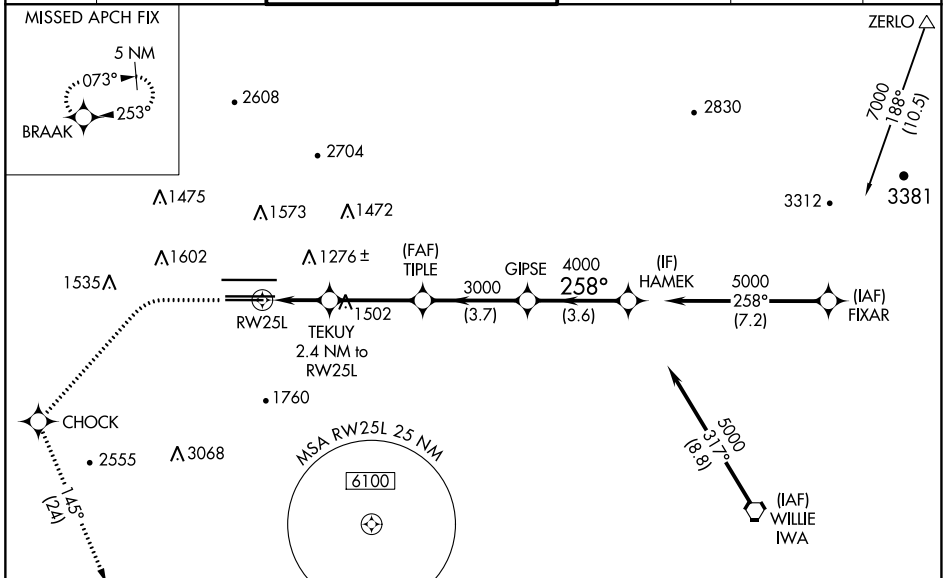
WAAS CH 82211 W25B	APP CRS 258°	Rwy Idg TDZE Apt Elev	7800 1126 1135
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RNAV (GPS) Y RWY 25L

PHOENIX SKY HARBOR INTL (PHX)

RNP APCH-GPS.		MALSR 	MISSED APPROACH: Climb to 1900 then climbing left turn to 5000 direct CHOCK and on track 145° to BRAAK and hold.
<p>⚠ Simultaneous approach authorized. LNAV procedure NA during simultaneous operations. Use of FD or AP required during simultaneous operations. For uncompensated Baro-VNAV systems, procedure NA below 2°C or above 54°C. For inop ALS, increase visibility LPV all Cats to 1 SM, LNAV/VNAV all Cats to 1½ SM and LNAV Cats C/D 1¾ SM.</p>			

D-ATIS 127.575	PHOENIX APP CON 128.65 353.9	PHOENIX TOWER 118.7 278.8 (Rwy 8-26) 120.9 254.3 (Rwy 7L-25R, 7R-25L)	GND CON 119.75 269.2 (N) 132.55 269.2 (S)	CLNC DEL 118.1 269.2	CPDLC
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ELEV 1135	D	TDZE 1126
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<p>HIRL Rwy 8-26, 7L-25R and 7R-25L REIL Rwy 26</p>	1900	5000	CHOCK	tr 145°	BRAAK	VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 66).	
	TEKUY 2.4 NM to RWY 25L TIPLE 3000 GIPSE 4000 HAMEK 5000		GP 3.00° TCH 49				
	RWY 25L 1.7 NM to TEKUY 0.7 NM to TIPLE 3.3 NM to GIPSE 3.7 NM to HAMEK 3.6 NM to FIXAR						
	CATEGORY	A		B		C	D
	LPV DA	1449-½		323 (400-½)			
LNAV/VNAV DA	1589-1		463 (500-1)		1674-1½ 548 (600-1½)		
LNAV MDA	1740-½		614 (700-½)		1740-¾ 614 (700-¾)		
C CIRCLING	1740-1		605 (700-1)		2040-¾ 1205 (1300-¾)		

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SW-4, 22 FEB 2024 to 21 MAR 2024

WAAS CH 40022 W25A	APP CRS 258°	Rwy Idg 10300 TDZE 1134 Apt Elev 1135
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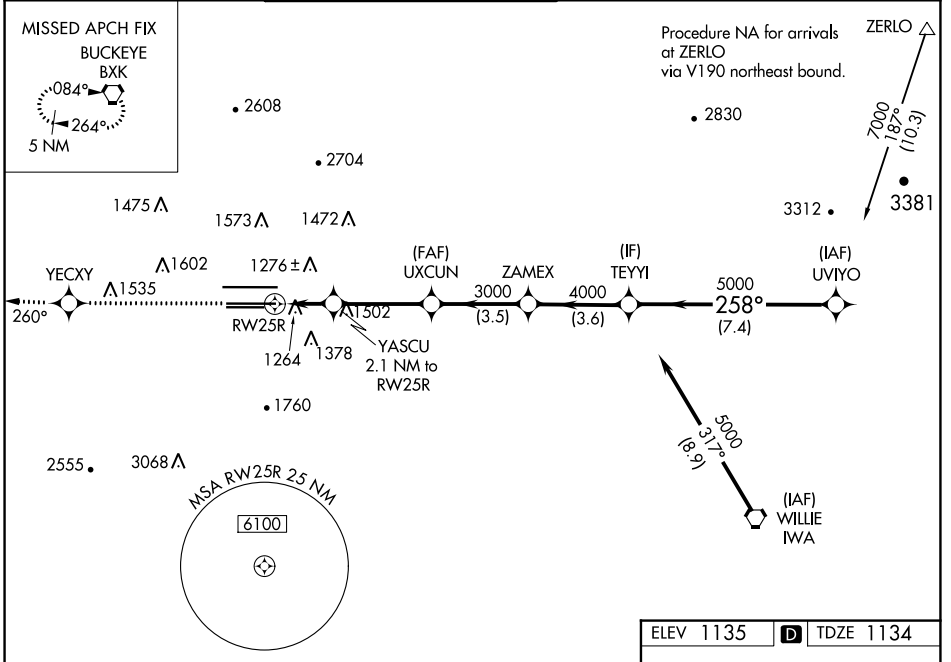
RNAV (GPS) Y RWY 25R

PHOENIX SKY HARBOR INTL (PHX)

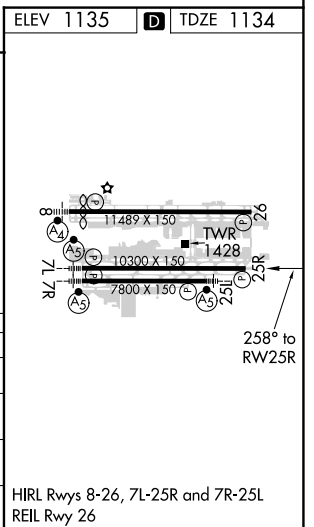
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA. Simultaneous approach authorized with ILS or LOC Rwy 26. Use of FD or AP providing RNAV track guidance required during simultaneous operations. LNAV procedure NA during simultaneous operations.

MISSED APPROACH: Climb to 5000 DIRECT YECXY and via 260° track to BXX VORTAC and hold.

D-ATIS 127.575	PHOENIX APP CON 128.65 353.9	PHOENIX TOWER 118.7 278.8 (Rwy 8-26) 120.9 254.3 (Rwy 7L-25R, 7R-25L)	GND CON 119.75 269.2 (N) 132.55 269.2 (S)	CLNC DEL 118.1 269.2	CPDLC
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5000	YECXY	fr 260°	BXX	VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 70).
*LNAV only.				
YASCU 2.1 NM to RW25R				
*1.4 NM to RW25R				
RW25R				
1860*				
3000				
1.4 NM 0.7 NM 3.5 NM 3.5 NM 3.6 NM 7.4 NM				
CATEGORY	A	B	C	D
LPV DA		1439-1	305 (400-1)	
LNAV/VNAV DA		1580-1½	446 (500-1½)	
LNAV MDA	1640-1	506 (600-1)	1640-1½	506 (600-1½)
C CIRCLING	1740-1	605 (700-1)	2040-2¾ 905 (1000-2¾)	2560-3 1425 (1500-3)



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SW-4, 22 FEB 2024 to 21 MAR 2024

WAAS CH 70321 W26A	APP CRS 258°	Rwy Idg 11489 TDZE 1135 Apt Elev 1135
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RNAV (GPS) Y RWY 26

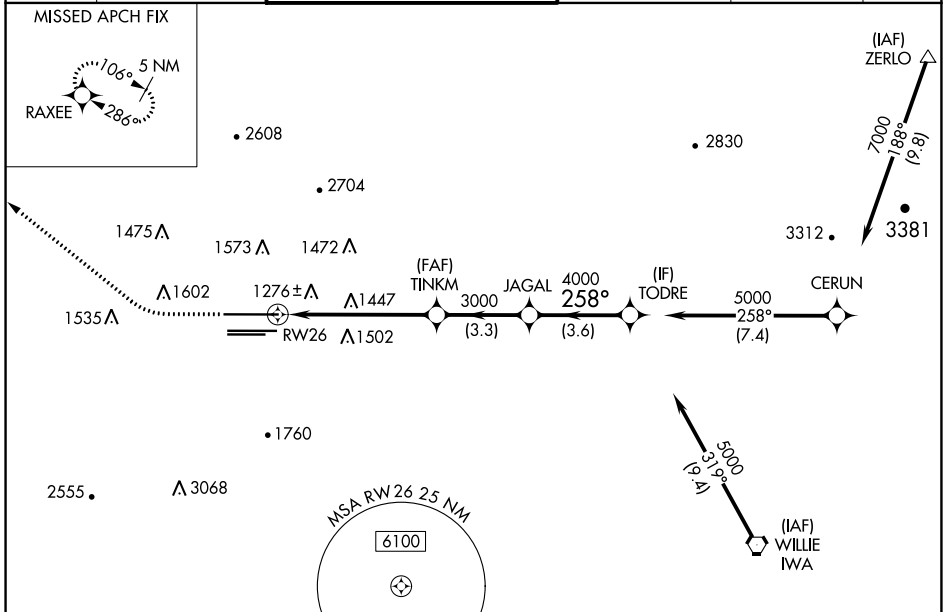
PHOENIX SKY HARBOR INTL (PHX)

RNP APCH-GPS.

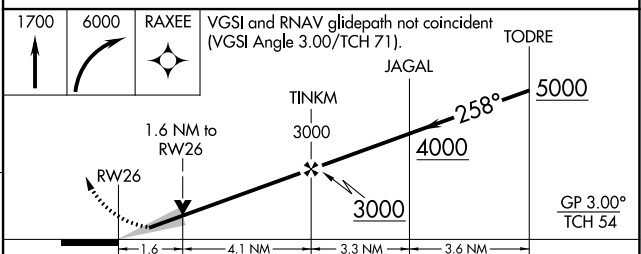
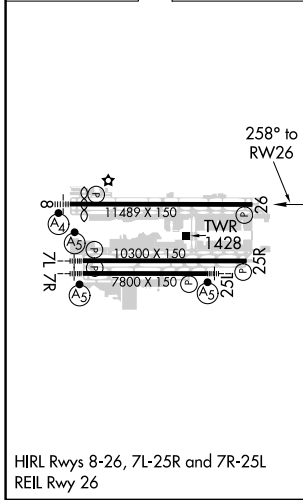
⚠ Simultaneous approach authorized. LNAV procedure NA during simultaneous operations. Use of FD or AP required during simultaneous operations. For uncompensated Baro-VNAV systems, procedure NA below 2°C or above 54°C.

MISSED APPROACH: Climb to 1700 then climbing right turn to 6000 direct RAXEE and hold.

D-ATIS 127.575	PHOENIX APP CON 128.65 353.9	PHOENIX TOWER 118.7 278.8 (Rwy 8-26) 120.9 254.3 (Rwy 7L-25R, 7R-25L)	GND CON 119.75 269.2 (N) 132.55 269.2 (S)	CLNC DEL 118.1 269.2	CPDLC
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ELEV 1135	D	TDZE 1135
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CATEGORY	A	B	C	D
LPV DA		1390-3/4	255 (300-3/4)	
LNAV/VNAV DA		1581-1 3/8	446 (500-1 3/8)	
LNAV MDA	1700-1	565 (600-1)	1700-1 1/8	565 (600-1 1/8)
CIRCLING	1740-1	605 (700-1)	2040-2 3/4 905 (1000-2 3/4)	2340-3 1205 (1300-3)

SW-4, 22 FEB 2024 to 21 MAR 2024

SW-4, 22 FEB 2024 to 21 MAR 2024

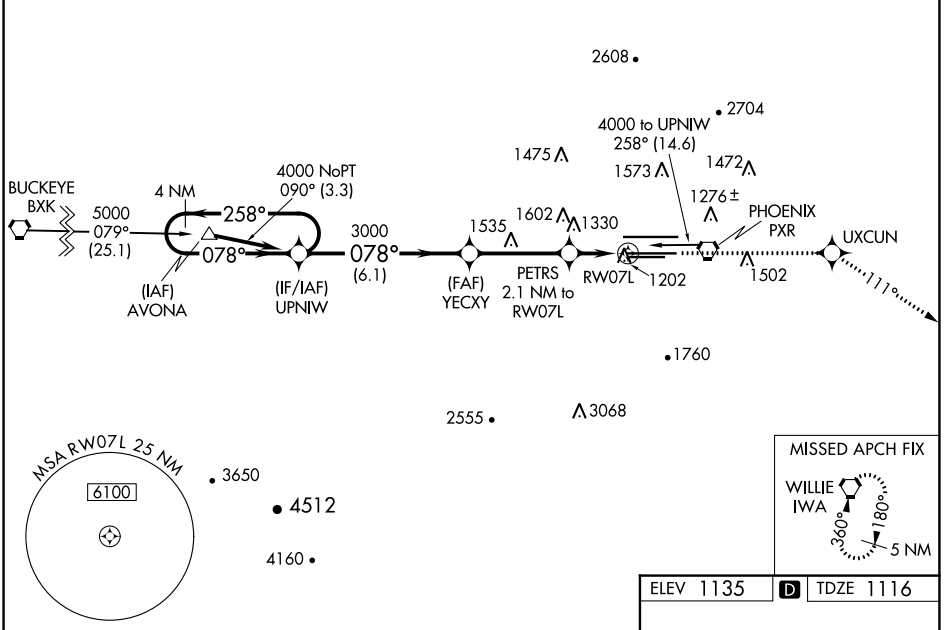
WAAS CH 65811 W07A	APP CRS 078°	Rwy Idg 10300 TDZE 1116 Apt Elev 1135
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RNAV (GPS) Y RWY 7L

PHOENIX SKY HARBOR INTL (PHX)

RNP APCH - GPS.		MALSR	MISSED APPROACH: Climb to 5000 direct UXCUN and via 111° track to IWA VORTAC and hold.
<p>▼ For inop ALS, increase visibility LPV all Cats to RVR 4500, LNAV/VNAV all Cats to RVR 6000, LNAV Cats C/D to 1 3/8 SM. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C or above 46°C. Simultaneous approach authorized. Use of FD or AP providing RNAV track guidance required during simultaneous operations. LNAV procedure NA during simultaneous operations.</p>			

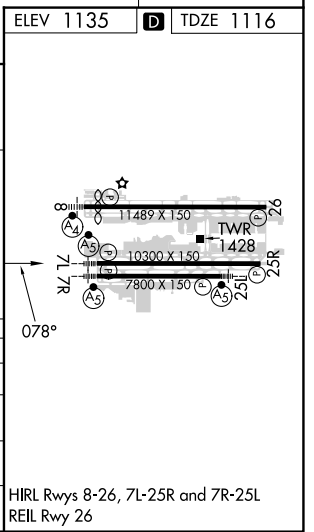
D-ATIS 127.575	PHOENIX APP CON 128.65 353.9	PHOENIX TOWER 118.7 278.8 (Rwy 8-26) 120.9 254.3 (Rwy 7L-25R, 7R-25L)	GND CON 119.75 269.2 (N) 132.55 269.2 (S)	CLNC DEL 118.1 269.2	CPDLC
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SW-4, 22 FEB 2024 to 21 MAR 2024

SW-4, 22 FEB 2024 to 21 MAR 2024

VGSi and RNAV glidepath not coincident (VGSi Angle 3.00/TCH 73).		5000	UXCUN	tr 111°	IWA
4 NM Holding Pattern		4000	3000	1840	0.8
GP 3.00° TCH 57		6.1 NM	3.6 NM	1.3 NM	1.3 NM
CATEGORY	A	B	C	D	
LPV DA	1389/24		273 (300-1/2)		
LNAV/VNAV DA	1519/50		403 (400-1)		
LNAV MDA	1580/24	464 (500-1/2)	1580/40	1580/50	464 (500-1)
CIRCLING	1740-1	605 (700-1)	2040-2 3/4	2560-3	905 (1000-2 3/4)




WAAS CH 73011 W07B	APP CRS 078°	Rwy Idg TDZE 1116 Apt Elev 1135
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RNAV (GPS) Y RWY 7R

PHOENIX SKY HARBOR INTL (PHX)

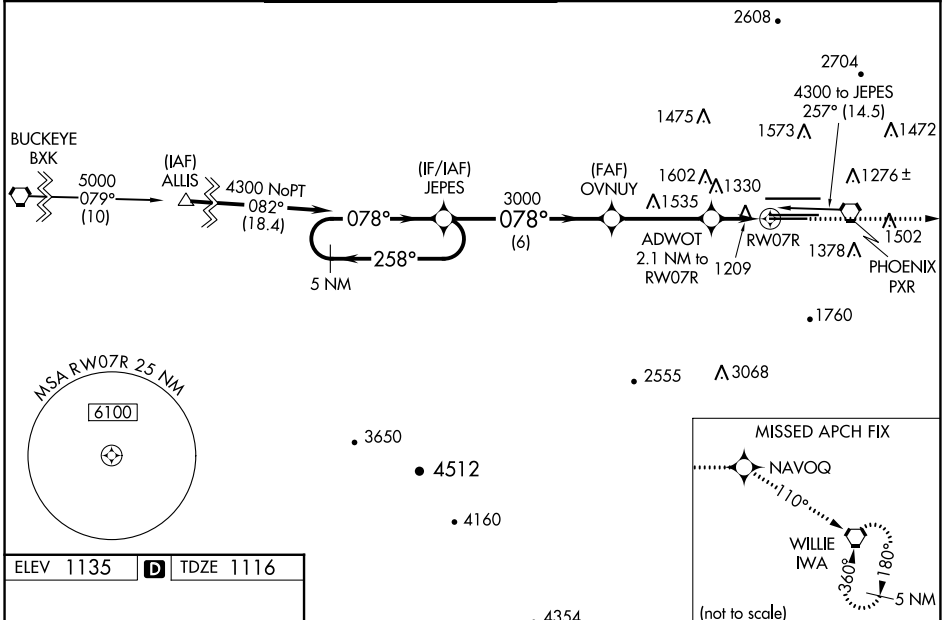
RNP APCH - GPS.

⚠ For inop ALS, increase visibility LPV all Cats to ½ SM, LNAV/VNAV all Cats to 1½ SM, LNAV Cats A/B to 1 SM and C/D to 1¾ SM. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C or above 46°C. Rwy 7R helicopter visibility reduction below ¾ SM NA. Simultaneous approach authorized. Use of FD or AP providing RNAV track guidance required during simultaneous operations. LNAV procedure NA during simultaneous operations.

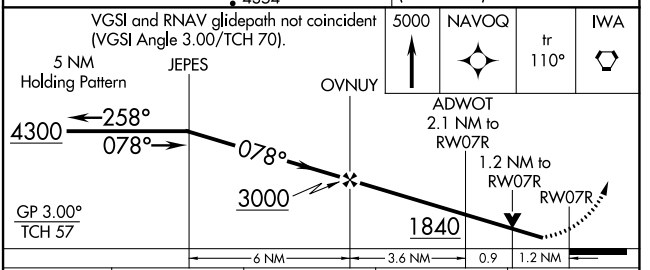
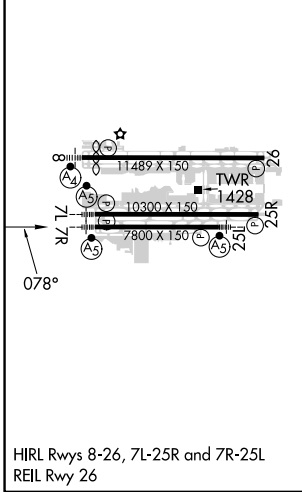
MALSR 

MISSED APPROACH: Climb to 5000 direct NAVOQ and via 110° track to IWA VORTAC and hold.

D-ATIS 127.575	PHOENIX APP CON 128.65 353.9	PHOENIX TOWER 118.7 278.8 (Rwy 8-26) 120.9 254.3 (Rwy 7L-25R, 7R-25L)	GND CON 119.75 269.2 (N) 132.55 269.2 (S)	CLNC DEL 118.1 269.2	CPDLC
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ELEV 1135	D	TDZE 1116
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CATEGORY	A	B	C	D
LPV DA		1390-¾	274 (300-¾)	
LNAV/VNAV DA		1520-1	404 (400-1)	
LNAV MDA	1580-¾	464 (500-¾)	1580-1	464 (500-1)
C CIRCLING	1740-1	605 (700-1)	2040-2¾ 905 (1000-2¾)	2560-3 1425 (1500-3)

SW-4, 22 FEB 2024 to 21 MAR 2024

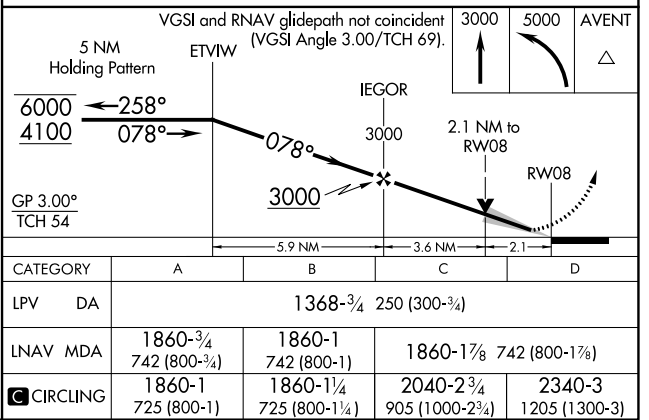
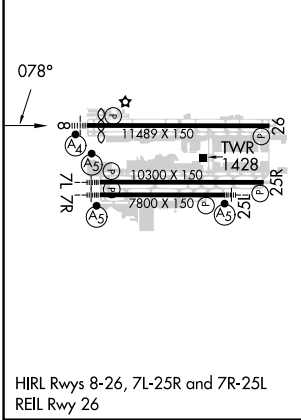
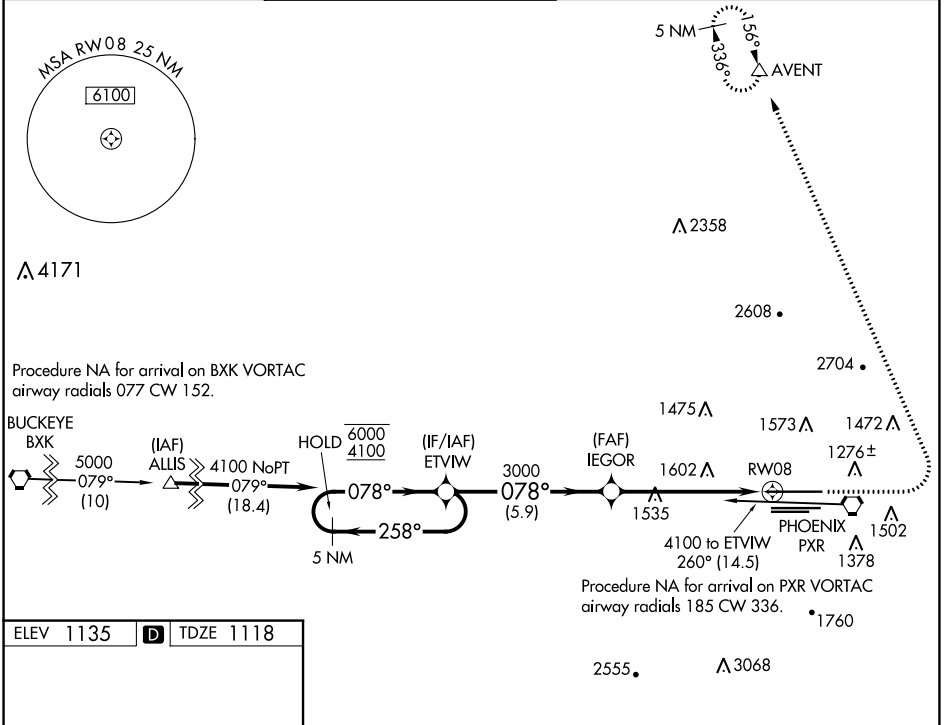
SW-4, 22 FEB 2024 to 21 MAR 2024

WAAS CH 86611 W08A	APP CRS 078°	Rwy Idg 10591 TDZE 1118 Apt Elev 1135
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RNAV (GPS) Y RWY 8

PHOENIX SKY HARBOR INTL (PHX)

RNP APCH - GPS.		MALSF	MISSED APPROACH: Climb to 3000 then climbing left turn to 5000 direct AVENT and hold.		
<p>⚠ Simultaneous approach authorized. LNAV procedure NA during simultaneous operations. Inop table does not apply to LPV all Cats. For inop ALS, increase LNAV Cats C and D visibility to 2 SM.</p>		A4			
D-ATIS 127.575	PHOENIX APP CON 128.65 353.9	PHOENIX TOWER 118.7 278.8 (Rwy 8-26) 120.9 254.3 (Rwy 7L-25R, 7R-25L)	GND CON 119.75 269.2 (N) 132.55 269.2 (S)	CLNC DEL 118.1 269.2	CPDLC



SW-4, 22 FEB 2024 to 21 MAR 2024

SW-4, 22 FEB 2024 to 21 MAR 2024

INSTRUMENT APPROACH PROCEDURE CHARTS

A IFR ALTERNATE AIRPORT MINIMUMS

Pilots must review the IFR Alternate Minimums Notes to determine alternate airport suitability.

ANA designation on the approach chart means that pilots may not use that approach as an alternate due to unmonitored facility, absence of weather reporting service, or lack of adequate navigation coverage. Approaches with the **A**NA designation are not listed in this section. **A** designation on the approach chart indicates that the approach procedure has non-standard minimums (for aircraft other than helicopters) or restrictions (for all users) for its use as an alternate.

Alternate Minima (ref: 14 CFR 91.169)

	Precision Approach	Non-Precision Approach
Standard	600-2	800-2
A Non-Standard or restrictions	As indicated below	As indicated below
Helicopters	For the selected approach: Ceiling: 200' above published ceiling Visibility: the greater of 1 SM visibility or the published visibility	
US Military (USA/USN/USAF)	See Service Regulations	

Note: For alternate airport flight planning purposes, precision approach operations include: ILS, PAR, and GLS, and Non-Precision approach operations include: NDB, VOR, LOC, TACAN, LDA, SDF, ASR, RNAV (GPS) and RNAV (RNP).

NAME ALTERNATE MINIMUMS

BATTLE MOUNTAIN, NV

BATTLE MOUNTAIN (BAM).....RNAV (GPS) Rwy 22¹
VOR Rwy 4²

¹Category D, 1000-3.
²NA when local weather not available.

BEAVER, UT

BEAVER MUNI (U52).....RNAV (GPS)-A
Categories A, B, 1300-2; Category C, 1800-3.

BLANDING, UT

BLANDING MUNI (BDG).....RNAV (GPS) Rwy 35
NA when local weather not available.
Category C, 900-2½.

BOULDER CITY, NV

BOULDER CITY MUNI (BVU).....RNAV (GPS) Rwy 27
Category B, 1200-2; Category C, 1800-3.

NAME ALTERNATE MINIMUMS

BULLHEAD CITY, AZ

LAUGHLIN/BULLHEAD INTL (IFP).....RNAV (GPS) Rwy 16¹²
RNAV (GPS) Rwy 34³
VOR Rwy 34⁴

¹NA when local weather not available.
²Category A, 800-2½; Category B, 900-2½; Category C, 1100-3; Category D, 1700-3.
³Categories A, B, 1100-2; Category C, 1100-3; Category D, 1700-3.
⁴Categories A, B, 2200-2; Categories C, D, 2200-3.

CARSON CITY, NV

CARSON CITY (CXP).....RNAV (GPS)-B
Categories A, B, 1700-2; Category C, 1700-3; Category D, 3000-3.

CASA GRANDE, AZ

CASA GRANDE MUNI (CGZ).....RNAV (GPS) Rwy 5
RNAV (GPS) Rwy 23¹

Category D, 800-2½.
¹NA when local weather not available.

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NAME ALTERNATE MINIMUMS

CEDAR CITY, UT

CEDAR CITY
 RGNL (CDC).....RNAV (GPS) Rwy 2¹
 RNAV (GPS) Rwy 20
 VOR Rwy 20²

NA when local weather not available.

¹Categories A, B, C, D, 900-2½.

²Category D, 800-2¼.

COLORADO CITY, AZ

COLORADO CITY
 MUNI (AZC).....RNAV (GPS) Rwy 11
 RNAV (GPS) Rwy 29

Categories C, D, 2100-3.

COOLIDGE, AZ

COOLIDGE MUNI (P08).....RNAV (GPS) Rwy 23
 VOR Rwy 5

NA when local weather not available.

DOUGLAS BISBEE, AZ

BISBEE DOUGLAS
 INTL (DUG).....RNAV (GPS) Rwy 17¹
 VOR/DME Rwy 17¹
 VOR Rwy 17²

¹Category D, 1100-3.

²Category C, 800-2½; Category D, 1100-3.

ELKO, NV

ELKO RGNL (EKO).....LDA/DME Rwy 24¹
 RNAV (GPS) Rwy 6²
 RNAV (GPS) Rwy 24²
 VOR/DME-B³

¹Category B, 1000-2; Category C 1500-3;

Category D, 1900-3.

²Categories A, B, 1200-2; Category C 1500-3;

Category D, 1900-3.

³Categories A, B, 1300-2; Categories C, D, 1300-3.

ELY, NV

ELY/YELLAND
 FLD (ELY).....RNAV (GPS) Rwy 18¹²
 VOR-C³

¹NA when local weather not available.

²Categories A, B, C, 1100-4; Category D, 2000-4.

³Categories A, B, 1800-2; Category C, 1800-3;

Category D, 2000-3.

EUREKA, NV

EUREKA (05U).....RNAV (GPS) Rwy 18
 Categories A, B, C, D, 2000-6.

FILLMORE, UT

FILLMORE
 MUNI (FOM).....RNAV (GPS) Rwy 4
 RNAV (GPS) Rwy 22

NA when local weather not available.

Category C 1300-3.

NAME ALTERNATE MINIMUMS

FLAGSTAFF, AZ

FLAGSTAFF
 PULLIAM (FLG).....ILS or LOC Rwy 21¹
 RNAV (GPS) Rwy 3²
 RNAV (GPS) Rwy 21²
 VOR Rwy 21²

¹ILS, LOC, Category C, 1100-3; Category, D, 1600-3.

²Category C, 1100-3; Category, D, 1600-3.

FORT HUACHUCA SIERRA VISTA, AZ

SIERRA VISTA MUNI-
 LIBBY AAF (FHU).....ILS or LOC Rwy 26¹
 RNAV (GPS) Rwy 8¹
 RNAV (GPS) Rwy 26¹
 TACAN Rwy 8²³
 TACAN Rwy 26²³
 VOR Rwy 26¹

¹NA when control tower closed.

²NA when local weather not available.

³NA when GCA closed.

GLENDALE, AZ

GLENDALE
 MUNI (GEU).....RNAV (GPS) Rwy 1
 RNAV (GPS) Rwy 19

NA when local weather not available.

GRAND CANYON, AZ

GRAND CANYON NTL
 PARK (GCN).....ILS or LOC Rwy 3¹²
 RNAV (GPS) Rwy 3³
 VOR Rwy 3⁴

¹NA when control tower closed.

²ILS Category C, 700-2; Category D, 1100-3;

LOC, Category D, 1100-3.

³Category C, 800-3; Category D, 1100-3.

⁴Category D, 1100-3.

HAWTHORNE, NV

HAWTHORNE
 INDUSTRIAL (HTH).....RNAV (GPS) Rwy 28
 Category C, 1500-3.

HEBER, UT

HEBER
 VALLEY (HCR).....RNAV (GPS)-A
 Categories, A, B, 2400-2; Category C, 2400-3.

KANAB, UT

KANAB MUNI (KNB).....RNAV (GPS) Rwy 1
 Category B, 1300-2; Category C, 1600-3.

KINGMAN, AZ

KINGMAN (IGM).....RNAV (GPS) Rwy 3¹
 RNAV (GPS) Y Rwy 21¹
 VOR/DME Rwy 21²

¹Categories C, D, 1000-3.

²Category C, 1000-3; Category D, 1900-3.

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NAME ALTERNATE MINIMUMS

LAKE HAVASU CITY, AZ

LAKE HAVASU CITY (HII).....RNAV (GPS) Rwy 14¹
RNAV (GPS) Rwy 32²
VOR-A³

NA when local weather not available.
¹Categories A, B, 1600-2; Categories C, D, 1600-3.
²Categories A, B, 900-2; Category C 1100-3;
Category D 1400-3.
³Categories A, B, 1100-2; Category C 1100-3;
Category D 1400-3.

LAS VEGAS, NV

HENDERSON EXEC (HND).....RNAV (GPS)-B¹
VOR-C²

NA when local weather not available.
¹Categories A, B, 1400-2; Category C, 1400-3.
²Categories A, B, 2400-2; Category C, 2400-3.

HARRY REID

INTL (LAS).....ILS or LOC Rwy 1L¹
ILS Y or LOC Y Rwy 26L¹
ILS Y or LOC Y Rwy 26R¹
ILS Z or LOC Z Rwy 26L²
ILS Z or LOC Z Rwy 26R²
RNAV (GPS) Rwy 1R³
RNAV (GPS) Y Rwy 19L³
RNAV (GPS) Y Rwy 19R³
VOR Rwy 26L/R³
VOR/DME-A⁴

¹LOC, Categories A, B, 900-2;
Category C, 1000-2½; Category D, 1400-3.
²LOC, Categories A, B, 900-2; Category C, 1000-2½; Categories D, E, 1400-3.
³Categories A, B, 900-2; Category C, 1000-2½,
Categories D, 1400-3.
⁴Categories A, B, 900-2; Categories C, D, 1100-3.

NORTH LAS

VEGAS (VGT).....ILS or LOC Rwy 12L¹
RNAV (GPS) Rwy 12R²

NA when local weather not available.
¹NA when control tower closed.
²Category D, 1400-3.

LOGAN, UT

LOGAN-CACHE (LGU).....RNAV (GPS) Rwy 17
Categories A, B, 1400-2; Categories C, D, 1400-3.

LOVELOCK, NV

DERBY FLD (LOL).....RNAV (GPS) Rwy 2¹
RNAV (GPS) Rwy 20¹
VOR-A²

¹Category D, 800-2½.
²Categories A, B, 900-2; Category C, 900-2½;
Category D, 1000-3.

NAME ALTERNATE MINIMUMS

MARANA, AZ

MARANA RGNL (AVQ).....RNAV (GPS)-E
NA when local weather not available.
Category C, 800-2½.

MESA, AZ

FALCON FLD (FFZ).....RNAV (GPS) Rwy 4L
RNAV (GPS) Rwy 4R
RNAV (GPS)-B

NA when local weather not available.

MILFORD, UT

MILFORD MUNI/BEN AND JUDY BRISCOE FLD (MLF).....RNAV (GPS) Rwy 16
RNAV (GPS) Rwy 34
VOR/DME-A¹

NA when local weather not available.
¹Category C, 1300-3; Category D, 1500-3.

MINDEN, NV

MINDEN-TAHOE (MEV).....RNAV (GPS) Rwy 16¹
RNAV (GPS) Rwy 34²

¹Categories A, B, C, 1500-5; Category D, 1800-5.
²Categories A, B, 1000-2½; Category C, 1200-3.

MOAB, UT

CANYONLANDS RGNL (CNY).....RNAV (GPS) Rwy 3
VOR-A

Category C, 1100-3; Category D, 1700-3.

OGDEN, UT

OGDEN-HINCKLEY (OGD).....ILS or LOC Rwy 3¹
RNAV (GPS) Rwy 3²³
VOR-A²

¹NA when control tower closed.
²NA when local weather not available.
³Category D, 800-2½.

OWYHEE, NV

OWYHEE (10U).....RNAV (GPS) Rwy 5
Category D, 1500-3.

PANGUITCH, UT

PANGUITCH MUNI (U55).....RNAV (GPS) Rwy 18
RNAV (GPS) Rwy 36¹

NA when local weather not available.
¹Categories A, B, 1200-2.

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M3

NAME ALTERNATE MINIMUMS

PHOENIX, AZ

PHOENIX DEER

VALLEY (DVT).....RNAV (GPS)-B¹
RNAV (GPS) Rwy 7R²
RNAV (GPS) Rwy 25L²

NA when local weather not available.

¹Categories A, B, 1000-2; Category C, 1200-3.²Categories A, B, 1000-2; Category C, 1200-3;
Category D, 1300-3.

PHOENIX-MESA

GATEWAY (IWA).....ILS or LOC Rwy 30C¹⁴
RNAV (GPS) Rwy 12C²
RNAV (GPS) Rwy 12R³
RNAV (GPS) Rwy 30R
RNAV (GPS) Y Rwy 30C²
RNAV (GPS) Rwy 30L²
VOR or TACAN Rwy 30C²

NA when local weather not available.

¹NA when control tower closed.²Category E, 800-2½.³Category E, 1100-3.⁴ILS, Category E, 700-2½; LOC Category E,
800-2½.

PHOENIX SKY HARBOR

INTL (PHX).....ILS or LOC/DME Rwy 7L¹
ILS or LOC Rwy 7R¹
ILS or LOC Rwy 8¹
ILS or LOC Rwy 25L¹
ILS or LOC Rwy 26¹
RNAV (GPS) Y Rwy 7L²
RNAV (GPS) Y Rwy 7R²
RNAV (GPS) Y Rwy 8³
RNAV (GPS) Y Rwy 25L³
RNAV (GPS) Y Rwy 25R²
RNAV (GPS) Y Rwy 26³¹LOC, Category C, 1000-2¾; Category D, 1500-3.²Category C, 1000-2¾; Category D, 1500-3.³Category C, 1000-2¾; Category D, 1300-3.**PRESCOTT, AZ**

PRESCOTT RGNL - ERNEST A LOVE

FLD (PRC).....ILS or LOC/DME Rwy 21L¹²
RNAV (GPS) Y Rwy 3R³
RNAV (GPS) Rwy 12³
RNAV (GPS) Rwy 21L³
VOR Rwy 12⁴¹NA when control tower closed.²ILS, Category B, 700-2; Category C, 1100-3;
Category D, 1700-3. LOC, Category C, 1100-3;
Category D, 1700-3.³Category C, 1100-3; Category D, 1700-3.⁴Category C, 1100-3.**PRICE, UT**

CARBON COUNTY RGNL/BUCK DAVIS

FLD (PUC).....RNAV (GPS) Rwy 1
Category B, 1000-2; Category C, 1200-3.

NAME ALTERNATE MINIMUMS

PROVO, UT

PROVO

MUNI (PVU).....ILS or LOC Rwy 13¹²
RNAV (GPS) Rwy 13³¹NA when control tower closed.²LOC, Category D, 800-2½.³Category D, 800-2½.**RENO, NV**

RENO/TAHOE

INTL (RNO).....ILS or LOC Rwy 35L¹
ILS X or LOC X Rwy 17R²
ILS Y Rwy 17R³
ILS Z or LOC Z Rwy 17R²
LOC Y Rwy 17R⁴
RNAV (GPS) X Rwy 17L⁵
RNAV (GPS) X Rwy 17R⁶
RNAV (GPS) X Rwy 35L⁷
RNAV (GPS) X Rwy 35R⁸
RNAV (GPS) Y Rwy 35L⁹
RNAV (RNP) W Rwy 35L^a
RNAV (RNP) W Rwy 35R^a
RNAV (RNP) Z Rwy 35L^a
RNAV (RNP) Z Rwy 35R^a
TACAN-F^b
VOR-D^c¹ILS, 700-2; LOC, Categories A, B, 1000-2;
Category C, 2100-3.²ILS, Categories A, B, C, D, 800-2; LOC,
Categories A, B, 1100-2; Categories C, D,
2100-3.³Categories A, B, C, D, E, 1500-5.⁴Categories A, B, 1600-2;

Categories C, D, 2100-3; Category E, 2300-3.

⁵Categories A, B, 1000-2; Categories C, D, 2100-3.⁶Categories A, B, 1800-2; Categories C, D, 1800-3.⁷Categories A, B, 1200-4;

Categories C, D, 2100-4.

⁸Categories A, B, 1100-4; Categories C, D, 2100-4.⁹Categories A, B, C, D, 1000-2½.^aCategories A, B, C, D, 1000-2½.^bCategories A, B, 1900-2;

Categories C, D, E, 2100-3.

^cCategories A, B, 1900-2;

Categories C, D, 2100-3.

SAFFORD, AZSAFFORD RGNL (SAD).....RNAV (GPS) Rwy 12
RNAV (GPS) Rwy 30

NA when local weather not available.

Category D, 800-2½.

ST GEORGE, UT

ST GEORGE

RGNL (SGU).....RNAV (GPS) Rwy 1¹
RNAV (GPS) Rwy 19²¹Category A, 900-2; Category B, 1000-2; Category
C, 1000-3.²Categories A, B, 1100-2; Category C, 1100-3;
Category D, 1800-3.

NAME ALTERNATE MINIMUMS

ST JOHNS, AZ

ST JOHNS INDUSTRIAL
AIR PARK (SJJ).....RNAV (GPS) Rwy 14
VOR-A

NA when local weather not available.

SCOTTSDALE, AZ

SCOTTSDALE (SDL).....RNAV (GPS)-D¹
RNAV (GPS)-E¹
VOR/DME-A²

NA when local weather not available.

¹Category C, 1000-2 $\frac{3}{4}$; Category D, 1800-3.

²Categories A, B, 900-2; Category C, 1000-2 $\frac{3}{4}$;
Category D, 1800-3.

SEDONA, AZ

SEDONA (SEZ).....RNAV (GPS) Rwy 3
Category A, 900-2; Category B, 1100-2; Category C,
2300-3; Category D, 1900-3.

SHOW LOW, AZ

SHOW LOW
RGNL (SOW).....RNAV (GPS) Rwy 25
NA when local weather not available.
Category C, 800-2 $\frac{1}{4}$, Category D, 1000-3.

TONOPAH, NV

TONOPAH (TPH).....VOR or GPS-A
Category C, 900-2 $\frac{3}{4}$; Category D, 900-3.

TOOELE, UT

BOLINDER FIELD-TOOELE
VALLEY (TVY).....ILS or LOC Rwy 17¹
RNAV (GPS) Rwy 17²

¹ILS, Category C, 800-2; Category D, 1100-3;

LOC, Category D, 1100-3.

²Category D, 1100-3.

TUCSON, AZ

RYAN FLD (RYN).....RNAV (GPS) Rwy 6R
Category D, 1000-3.

TUCSON

INTL (TUS).....ILS or LOC Rwy 12¹
RNAV (GPS) Rwy 4²
RNAV (GPS) Rwy 22³
RNAV (GPS) Z Rwy 12⁴
RNAV (GPS) Z Rwy 30⁴
VOR or TACAN Rwy 12⁵
VOR or TACAN Rwy 30⁶

¹LOC, Categories A, B, 900-2;

Category C, 900-2 $\frac{3}{4}$; Category D, 1000-3;

Category E, 1300-3.

²Categories A, B, C, 800-2 $\frac{1}{2}$; Category D, 1100-3.

³Category D, 1100-3.

⁴Category D, 1000-3.

⁵Category D, 1000-3; Category E, 1300-3.

⁶Category D, 1100-3; Category E, 1300-3.

NAME ALTERNATE MINIMUMS

VERNAL, UT

VERNAL RGNL (VEL).....RNAV (GPS) Y Rwy 35¹
RNAV (GPS) Z Rwy 35²
VOR Rwy 35³

NA when local weather not available.

¹Categories A, B, 1100-2; Category C, 1100-3;

Category D, 1200-3.

²Categories A, B, C, D, 1000-2 $\frac{1}{2}$.

³Categories A, B, 900-2; Category C, 900-2 $\frac{3}{4}$;
Category D, 1200-3.

WENDOVER, UT

WENDOVER (ENV).....RNAV (GPS)-A³⁴
RNAV (GPS)-C⁴⁵
VOR/DME-B¹
VOR/DME or TACAN Rwy 26²

¹Categories A, B, 1300-2; Category C, 1300-3;
Category D, E 1500-3.

²Category D, 900-2 $\frac{3}{4}$; Category E, 1500-3.

³Categories A, B, 1900-2; Categories C, D, E,
1900-3.

⁴NA when local weather not available.

⁵Categories A, B, 1800-2; Categories C, D, E,
1800-3.

WILLCOX, AZ

COCHISE COUNTY (P33).....RNAV (GPS) Rwy 3
RNAV (GPS) Rwy 21

NA when local weather not available.

WILLIAMS, AZ

H A CLARK
MEML FLD (CMR).....RNAV (GPS) Rwy 18
Categories A, B, 900-2; Categories C, D, 1400-3.

WINDOW ROCK, AZ

WINDOW ROCK (RQE).....RNAV (GPS) Rwy 3¹
RNAV (GPS)-B²
VOR-A²

NA when local weather not available.

¹Categories A, B, 1000-2; Category C, 1100-3.

²Categories A, B, 1000-2; Category C, 1100-3;
Category D, 1400-3.

WINNEMUCCA, NV

WINNEMUCCA
MUNI (WMC).....RNAV (GPS) Rwy 14¹²
RNAV (GPS) Rwy 32¹

¹NA when local weather not available.

²Category C, 800-2 $\frac{1}{4}$; Category D, 800-2 $\frac{1}{2}$.

WINSLOW, AZ

WINSLOW-LINDBERGH
RGNL (INW).....VOR or GPS Rwy 11
Category D, 800-2 $\frac{1}{2}$.

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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INSTRUMENT APPROACH PROCEDURE CHARTS

IFR TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude, and/or airports that have civil IFR takeoff minimums other than standard, are listed below. Takeoff Minimums and Departure Procedures apply to all runways unless otherwise specified. An entry may also be listed that contains only Takeoff Obstacle Notes. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are textually described below, or published separately as a graphic procedure. If the ODP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or the applicable military volume, as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not specifically assigned an ODP, SID, or RADAR vector as part of an IFR clearance, an ODP may be required to be flown for obstacle clearance, even though not specifically stated in the IFR clearance. When doing so in this manner, ATC should be informed when the ODP being used contains a specified route to be flown, restrictions before turning, and/or altitude restrictions.

Some ODPs, which are established solely for obstacle avoidance, require a climb in visual conditions to cross the airport, a fix, or a NAVIAID in a specified direction, at or above a specified altitude. These procedures are called Visual Climb Over Airport (VCOA). To ensure safe and efficient operations, the pilot must verbally request approval from ATC to fly the VCOA when requesting their IFR clearance.

At some locations where an ODP has been established, a diverse vector area (DVA) may be created to allow RADAR vectors to be used in lieu of an ODP. DVA information will state that headings will be as assigned by ATC and climb gradients, when applicable, will be published immediately following the specified departure procedure.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard takeoff rules and establishes takeoff minimums for certain operators as follows: (1) For aircraft, other than helicopters, having two engines or less – one statute mile visibility. (2) For aircraft having more than two engines – one-half statute mile visibility. (3) For helicopters – one-half statute mile visibility. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) takeoff minima are published below. For military takeoff minima, refer to appropriate service directives.

BATTLE MOUNTAIN, NV

BATTLE MOUNTAIN (BAM)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 5 26MAR20 (20086) (FAA)

TAKEOFF MINIMUMS:

Rwy 4, std. w/min. climb of 335' per NM to 6300 or 4800-3 for VCOA.

Rwy 13, std. w/min. climb of 350' per NM to 6500 or 4800-3 for VCOA.

DEPARTURE PROCEDURE:

Rwy 4, climb on heading 036° and BAM VORTAC R-036 outbound to 8200 before proceeding on course.

Rwy 13, climbing right turn heading 240° and BAM VORTAC R-210 outbound to 10000 before proceeding on course.

Rwy 22, climb direct BAM VORTAC and proceed on BAM R-210 outbound to 10100 before proceeding on course.

Rwy 31, climb on heading 306° and BAM VORTAC R-329 outbound to 9100 before proceeding on course.

VCOA:

Rwys 4, 13, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Battle Mountain airport at or above 9200 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 4, trees beginning 129' from DER, 18' right of centerline, up to 45' AGL/4570' MSL.

Trees beginning 153' from DER, 55' left of centerline, up to 45' AGL/4570' MSL.

Rwy 13, vehicle on road 15' from DER, 171' right of centerline, 4558' MSL.

Sign 19' from DER, 250' left of centerline, 4' AGL/4537' MSL.

Tree, vehicle on road beginning 42' from DER, 23' right of centerline, up to 55' AGL/4566' MSL.

Trees beginning 116' from DER, 151' left of centerline, up to 45' AGL/4566' MSL.

Trees beginning 120' from DER, 47' right of centerline, up to 45' AGL/4570' MSL.

Trees beginning 497' from DER, 127' left of centerline, up to 45' AGL/4570' MSL.

Trees beginning 731' from DER, 71' right of centerline, up to 45' AGL/4573' MSL.

Trees beginning 956' from DER, 79' left of centerline, up to 45' AGL/4573' MSL.

Tree 1493' from DER, 667' right of centerline, 45' AGL/4576' MSL.

Rwy 22, tree, NAVIAID, wind indicator beginning 101' from DER, 13' right of centerline, up to 45' AGL/4570' MSL.

Trees beginning 125' from DER, 133' left of centerline, up to 45' AGL/4570' MSL.

Trees beginning 499' from DER, 60' left of centerline, up to 45' AGL/4573' MSL.

Trees beginning 1270' from DER, 215' left of centerline, up to 45' AGL/4576' MSL.

Rwy 31, vegetation 33' from DER, 487' left of centerline, 4540' MSL.

Trees beginning 50' from DER, 80' right of centerline, up to 45' AGL/4573' MSL.

Trees beginning 124' from DER, 46' left of centerline, up to 45' AGL/4573' MSL.

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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BEAVER, UT

BEAVER MUNI (U52)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-A 03JAN19 (19003) (FAA)

TAKEOFF MINIMUMS:

Rwys 7, 25, NA - Obstacles

Rwys 13, 31, 2600-2½ for VCOA.

VCOA:

Rwys 13, 31, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Beaver Muni at or above 8300, then climb to 10100 on MLF VORTAC R-102 to MLF VORTAC. Do not exceed 210K until established on MLF VORTAC R-102.

TAKEOFF OBSTACLE NOTES:

Rwy 13, vegetation 429' from DER, 46' right of centerline, 5877' MSL.
 Tree 642' from DER, 49' right of centerline, 5886' MSL.
 Terrain 1344' from DER, 802' right of centerline, 5899' MSL.
 Terrain 1725' from DER, 938' left of centerline, 5909' MSL.
 Terrain 1729' from DER, 762' right of centerline, 5913' MSL.
 Terrain beginning 1854' from DER, 7' left of centerline, up to 5913' MSL.
 Terrain 1857' from DER, 559' right of centerline, 5916' MSL.
 Terrain beginning 1981' from DER, 209' left of centerline, up to 5922' MSL.
 Terrain beginning 1984' from DER, 357' right of centerline, up to 5919' MSL.
 Terrain beginning 2109' from DER, 412' left of centerline, up to 5929' MSL.
 Terrain beginning 2112' from DER, 154' right of centerline, up to 5926' MSL.
 Terrain 2240' from DER, 47' left of centerline, 5932' MSL.
 Terrain 2366' from DER, 817' left of centerline, 5936' MSL.
 Terrain 2367' from DER, 250' left of centerline, 5939' MSL.
 Terrain beginning 2369' from DER, 316' right of centerline, up to 5932' MSL.
 Terrain beginning 2494' from DER, 452' left of centerline, up to 5942' MSL.
 Terrain beginning 2496' from DER, 114' right of centerline, up to 5939' MSL.
 Terrain beginning 2623' from DER, 88' left of centerline, up to 5949' MSL.
 Terrain beginning 2750' from DER, 291' left of centerline, up to 5955' MSL.
 Terrain beginning 2753' from DER, 275' right of centerline, up to 5942' MSL.
 Terrain beginning 2879' from DER, 493' left of centerline, up to 5962' MSL.
 Terrain beginning 2881' from DER, 73' right of centerline, up to 5949' MSL.
 Terrain beginning 3007' from DER, 129' left of centerline, up to 5965' MSL.
 Terrain beginning 3135' from DER, 169' left of centerline, up to 5968' MSL.
 Terrain beginning 3137' from DER, 235' right of centerline, up to 5952' MSL.
 Terrain beginning 3265' from DER, 32' right of centerline, up to 5955' MSL.
 Terrain 3268' from DER, 1166' right of centerline, 5959' MSL.
 Terrain beginning 3394' from DER, 396' right of centerline, up to 5962' MSL.
 Terrain beginning 3522' from DER, 194' right of centerline, up to 5965' MSL.
 Terrain beginning 3650' from DER, 8' left of centerline, up to 5972' MSL.
 Terrain beginning 3651' from DER, 558' right of centerline, up to 5968' MSL.
 Terrain beginning 3779' from DER, 356' right of centerline, up to 5975' MSL.
 Terrain beginning 3905' from DER, 413' left of centerline, up to 5975' MSL.
 Terrain beginning 3906' from DER, 153' right of centerline, up to 5978' MSL.
 Terrain 4033' from DER, 615' left of centerline, 5978' MSL.
 Terrain beginning 4034' from DER, 48' left of centerline, up to 5981' MSL.
 Terrain beginning 4035' from DER, 518' right of centerline, up to 5981' MSL.
 Terrain beginning 4162' from DER, 251' left of centerline, up to 5985' MSL.
 Terrain 4163' from DER, 315' right of centerline, 5985' MSL.
 Terrain 4164' from DER, 882' right of centerline, 5988' MSL.
 Terrain 4166' from DER, 1449' right of centerline, 6001' MSL.
 Tree, terrain beginning 4272' from DER, 113' right of centerline, up to 6024' MSL.
 Terrain 4417' from DER, 656' left of centerline, 5988' MSL.
 Terrain beginning 4418' from DER, 89' left of centerline, up to 5991' MSL.
 Terrain 4422' from DER, 1611' right of centerline, 6037' MSL.
 Terrain beginning 4454' from DER, 274' right of centerline, up to 6039' MSL.
 Terrain, tree beginning 4550' from DER, 72' right of centerline, up to 6050' MSL.
 Tree, terrain beginning 4554' from DER, 130' left of centerline, up to 6016' MSL.
 Terrain beginning 4678' from DER, 436' right of centerline, up to 6057' MSL.
 Terrain 4806' from DER, 1003' right of centerline, 6060' MSL.

CON'T

22 FEB 2024 to 21 MAR 2024

22 FEB 2024 to 21 MAR 2024

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

SW-4

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

BEAVER, UT (CON'T)

BEAVER MUNI (U52) (CON'T)

Rwy 13 (CON'T), terrain beginning 4807' from DER, 234' right of centerline, up to 6083' MSL.

Tree, terrain beginning 4892' from DER, 332' left of centerline, up to 6024' MSL.

Terrain, tree beginning 4935' from DER, 31' right of centerline, up to 6093' MSL.

Tree, terrain beginning 5122' from DER, 170' left of centerline, up to 6026' MSL.

Terrain, tree beginning 5191' from DER, 152' right of centerline, up to 6100' MSL.

Terrain, tree beginning 5444' from DER, 9' left of centerline, up to 6037' MSL.

Terrain beginning 5828' from DER, 49' left of centerline, up to 6050' MSL.

Terrain beginning 5961' from DER, 111' right of centerline, up to 6109' MSL.

Terrain beginning 1 NM from DER, 273' right of centerline, up to 6115' MSL.

Terrain beginning 1 NM from DER, 71' right of centerline, up to 6116' MSL.

Tree, terrain beginning 1 NM from DER, 435' right of centerline, up to 6117' MSL.

Terrain beginning 1 NM from DER, 232' right of centerline, up to 6126' MSL.

Tree, terrain beginning 1.1 NM from DER, 30' right of centerline, up to 6142' MSL.

Terrain, tree beginning 1.1 NM from DER, 192' right of centerline, up to 6146' MSL.

Terrain beginning 1.1 NM from DER, 10' left of centerline, up to 6070' MSL.

Terrain beginning 1.1 NM from DER, 151' right of centerline, up to 6159' MSL.

Terrain, tree beginning 1.2 NM from DER, 110' right of centerline, up to 6182' MSL.

Terrain beginning 1.2 NM from DER, 51' left of centerline, up to 6090' MSL.

Terrain, tree beginning 1.2 NM from DER, 272' right of centerline, up to 6201' MSL.

Terrain beginning 1.3 NM from DER, 91' left of centerline, up to 6109' MSL.

Terrain, tree beginning 1.3 NM from DER, 69' right of centerline, up to 6214' MSL.

Terrain beginning 1.3 NM from DER, 132' left of centerline, up to 6119' MSL.

Terrain, tree beginning 1.3 NM from DER, 29' right of centerline, up to 6237' MSL.

Terrain beginning 1.4 NM from DER, 190' right of centerline, up to 6257' MSL.

Terrain beginning 1.4 NM from DER, 11' left of centerline, up to 6126' MSL.

Terrain beginning 1.4 NM from DER, 150' right of centerline, up to 6264' MSL.

Terrain beginning 1.5 NM from DER, 109' right of centerline, up to 6267' MSL.

Terrain beginning 1.5 NM from DER, 52' left of centerline, up to 6139' MSL.

Terrain beginning 1.5 NM from DER, 271' right of centerline, up to 6277' MSL.

Terrain beginning 1.6 NM from DER, 93' left of centerline, up to 6159' MSL.

Terrain beginning 1.6 NM from DER, 295' left of centerline, up to 6195' MSL.

Terrain beginning 1.6 NM from DER, 27' right of centerline, up to 6280' MSL.

Terrain beginning 1.6 NM from DER, 134' left of centerline, up to 6211' MSL.

Terrain beginning 1.6 NM from DER, 2037' left of centerline, up to 6254' MSL.

Terrain beginning 1.7 NM from DER, 174' left of centerline, up to 6270' MSL.

Terrain beginning 1.7 NM from DER, 13' left of centerline, up to 6296' MSL.

Terrain beginning 1.7 NM from DER, 148' right of centerline, up to 6296' MSL.

Terrain beginning 1.8 NM from DER, 215' left of centerline, up to 6313' MSL.

Terrain beginning 1.8 NM from DER, 1552' left of centerline, up to 6336' MSL.

Terrain beginning 1.8 NM from DER, 1754' left of centerline, up to 6359' MSL.

Terrain beginning 1.8 NM from DER, 310' right of centerline, up to 6333' MSL.

Terrain beginning 1.8 NM from DER, 1390' left of centerline, up to 6375' MSL.

Terrain beginning 1.8 NM from DER, 1593' left of centerline, up to 6395' MSL.

Terrain beginning 1.8 NM from DER, 835' right of centerline, up to 6359' MSL.

Terrain beginning 1.9 NM from DER, 1795' left of centerline, up to 6408' MSL.

Terrain beginning 1.9 NM from DER, 1269' left of centerline, up to 6421' MSL.

Terrain beginning 2 NM from DER, 1310' left of centerline, up to 6441' MSL.

Terrain beginning 2 NM from DER, 664' left of centerline, up to 6447' MSL.

BLANDING, UT

BLANDING MUNI (BDG)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 29DEC22 (22363) (FAA)

TAKEOFF MINIMUMS:

Rwy 35, 300-1½ w/min. climb of 290' per NM to 6800, or 4700-5 for VCOA.

DEPARTURE PROCEDURE:

Rwy 17, climbing left turn heading 090° to intercept DVC R-223 to DVC VORTAC, continue climb to MEA of intended route.

Rwy 35, climbing right turn heading 035° to intercept DVC R-237 to DVC VORTAC, continue climb to MEA of intended route.

VCOA:

Rwy 35, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Blanding Muni airport at or above 10400 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 17, vegetation 131' from DER, 100' left of centerline, 5778' MSL.

Pole 611' from DER, 266' left of centerline, 25' AGL/5791' MSL.

Pole 620' from DER, 561' right of centerline, 27' AGL/5791' MSL.

Pole beginning 721' from DER, 467' right of centerline, up to 35' AGL/5798' MSL.

CON'T

22 FEB 2024 to 21 MAR 2024

22 FEB 2024 to 21 MAR 2024

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

SW-4

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

BLANDING, UT (CON'T)

BLANDING MUNI (BDG) (CON'T)

Rwy 35, vegetation, fence beginning 148' from DER, 247' right of centerline, up to 5880' MSL.
 Vehicle on road 173' from DER, 197' left of centerline, 5879' MSL.
 Tree, terrain beginning 276' from DER, 262' right of centerline, up to 5883' MSL.
 Tree, terrain, vehicle on road beginning 432' from DER, 16' right of centerline, up to 5887' MSL.
 Vehicle on road 467' from DER, 187' left of centerline, 5880' MSL.
 Vehicle on road 516' from DER, 37' left of centerline, 5882' MSL.
 Terrain, vehicle on road beginning 670' from DER, 194' right of centerline, up to 5889' MSL.
 Vehicle on road, terrain beginning 822' from DER, 363' right of centerline, up to 5893' MSL.
 Tree 1382' from DER, 822' right of centerline, 5909' MSL.
 Tree 2261' from DER, 1018' right of centerline, 5928' MSL.
 Trees beginning 2447' from DER, 1114' right of centerline, up to 5942' MSL.
 Pole 3149' from DER, 1300' right of centerline, 30' AGL/5956' MSL.
 Pole, building beginning 3242' from DER, 836' right of centerline, up to 46' AGL/5971' MSL.
 Tree 3651' from DER, 790' left of centerline, 5971' MSL.
 Pole, tree beginning 3889' from DER, 609' left of centerline, up to 33' AGL/5980' MSL.
 Pole beginning 3988' from DER, 65' right of centerline, up to 32' AGL/5975' MSL.
 Windmill, pole beginning 4135' from DER, 10' left of centerline, up to 5986' MSL.
 Pole, tree beginning 4174' from DER, 299' left of centerline, up to 36' AGL/5990' MSL.
 Pole 4199' from DER, 1272' right of centerline, 33' AGL/5979' MSL.
 Pole 4426' from DER, 1361' right of centerline, 34' AGL/5982' MSL.
 Pole 4467' from DER, 619' left of centerline, 29' AGL/5992' MSL.
 Pole 4492' from DER, 1264' right of centerline, 34' AGL/5984' MSL.
 Tree 4558' from DER, 739' left of centerline, 5998' MSL.
 Stadium, pole beginning 4594' from DER, 323' left of centerline, up to 6016' MSL.
 Pole beginning 4723' from DER, 1256' right of centerline, up to 32' AGL/5988' MSL.
 Pole 5080' from DER, 1356' right of centerline, 32' AGL/5996' MSL.
 Pole, tree beginning 5484' from DER, 370' left of centerline, up to 33' AGL/6019' MSL.
 Pole beginning 5494' from DER, 83' left of centerline, up to 37' AGL/6022' MSL.
 Tree 5561' from DER, 349' right of centerline, 6015' MSL.
 Tree, building beginning 5757' from DER, 189' left of centerline, up to 6026' MSL.
 Tree 1.1 NM from DER, 310' left of centerline, 6042' MSL.
 Building 1.1 NM from DER, 1517' right of centerline, 61' AGL/6054' MSL.
 Tower, pole beginning 1.2 NM from DER, 389' left of centerline, up to 65' AGL/6090' MSL.
 Tower 1.3 NM from DER, 104' right of centerline, 40' AGL/6070' MSL.
 Tower 1.3 NM from DER, 665' right of centerline, 66' AGL/6092' MSL.
 Trees beginning 1.5 NM from DER, 0' right of centerline, up to 6122' MSL.
 Tree 1.5 NM from DER, 159' left of centerline, 6114' MSL.
 Tree 1.6 NM from DER, 406' left of centerline, 6116' MSL.
 Trees beginning 1.6 NM from DER, 118' left of centerline, up to 6130' MSL.
 Trees beginning 1.6 NM from DER, 45' right of centerline, up to 6142' MSL.
 Trees beginning 1.6 NM from DER, 28' right of centerline, up to 6145' MSL.
 Tree 1.9 NM from DER, 43' right of centerline, 6175' MSL.
 Tree 2 NM from DER, 712' left of centerline, 6182' MSL.
 Tree 2 NM from DER, 912' right of centerline, 6189' MSL.

BOULDER CITY, NV

BOULDER CITY MUNI (BVU)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 05DEC19 (19339) (FAA)

TAKEOFF MINIMUMS:

Rwy 33, NA – Obstacles.

Rwy 9, std. w/min. climb of 280' per NM to 3700 or 2000-3 for VCOA.

Rwy 15, std. w/min. climb of 285' per NM to 3900 or 2000-3 for VCOA.

Rwy 27, std. w/min. climb of 450' per NM to 3000 or 2000-3 for VCOA.

DEPARTURE PROCEDURE:

Rwy 9, climbing right turn on heading 180° thence...

Rwy 15, climbing left turn on heading 140° thence...

Rwy 27, climbing left turn on heading 140°. Do not exceed 200 KIAS until turn completion, thence...

... intercept BLD VORTAC R-150, continue climb to 7600 on BLD VORTAC R-150 to LYNSY INT/BLD 21 DME.

VCOA:

Rwys 9, 15, 27, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross BLD VORTAC southeast bound at or above 4100 then on BLD VORTAC R-150 to LYNSY INT/BLD 21 DME.

TAKEOFF OBSTACLE NOTES:

Rwy 9, sign 124' from DER, 351' left of centerline, 4' AGL/2151' MSL.

Terrain, vegetation beginning 164' from DER, 198' left of centerline, up to 2155' MSL.

Vegetation, terrain beginning 401' from DER, 396' left of centerline, up to 3' AGL/2160' MSL.

Buildings, tanks beginning 776' from DER, 561' left of centerline, up to 25' AGL/2188' MSL.

Building 1116' from DER, 791' left of centerline, 25' AGL/2190' MSL.

Tree 1235' from DER, 593' left of centerline, 33' AGL/2198' MSL.

Trees beginning 1319' from DER, 348' left of centerline, up to 32' AGL/2200' MSL.

Trees, buildings, pole beginning 1523' from DER, 360' left of centerline, up to 38' AGL/2211' MSL.

Trees beginning 1791' from DER, 751' left of centerline, up to 46' AGL/2220' MSL.

CON'T

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

BOULDER CITY, NV (CON'T)

BOULDER CITY MUNI (BVU) (CON'T)

Rwy 9 (CON'T), trees beginning 1956' from DER, 294' left of centerline, up to 48' AGL/2221' MSL.

Catenaries beginning 2205' from DER, 1083' left of centerline, up to 79' AGL/2259' MSL.

Catenaries, transmission lines beginning 3391' from DER, 208' left of centerline, up to 76' AGL/2267' MSL.

Transmission line, catenary beginning 3730' from DER, 3' right of centerline, up to 98' AGL/2254' MSL.

Tower 3984' from DER, 227' right of centerline, 118' AGL/2275' MSL.

Transmission line 3989' from DER, 228' right of centerline, 119' AGL/2276' MSL.

Tower 5076' from DER, 1016' left of centerline, 112' AGL/2301' MSL.

Tower 5545' from DER, 1916' left of centerline, 110' AGL/2330' MSL.

Rwy 15, terrain 3' from DER, 395' left of centerline, 2103' MSL.

Terrain, vertical point beginning 3' from DER, 112' left of centerline, up to 2105' MSL.

Rwy 27, terrain 5' from DER, 395' right of centerline, 2119' MSL.

Terrain, sign, buildings beginning 15' from DER, 187' right of centerline, up to 2121' MSL.

Fence, tree beginning 206' from DER, 170' right of centerline, up to 2' AGL/2123' MSL.

BRIGHAM CITY, UT

BRIGHAM CITY RGNL (BMC)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 7 15JUN23 (23166) (FAA)

DEPARTURE PROCEDURE:

Use OGDEN DEPARTURE.

TAKEOFF OBSTACLE NOTES:

Rwy 17, pole, vehicle on road beginning 265' from DER, 559' right of centerline, up to 33' AGL/4259' MSL.

Pole 1063' from DER, 720' right of centerline, 36' AGL/4260' MSL.

Poles beginning 1494' from DER, 588' right of centerline, up to 50' AGL/4274' MSL.

Pole 2216' from DER, 1084' right of centerline, 82' AGL/4305' MSL.

Rwy 35, pole 9' from DER, 29' right of centerline, 6' AGL/4231' MSL.

BRYCE CANYON, UT

BRYCE CANYON (BCE)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 10MAR11 (11069) (FAA)

DEPARTURE PROCEDURE:

Use BRYCE DEPARTURE.

BULLHEAD CITY, AZ

LAUGHLIN/BULLHEAD INTL (IFP)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 02MAR17 (17061) (FAA)

TAKEOFF MINIMUMS:

Rwy 16, standard w/min. climb of 285' per NM to 1700, or 1700-3 for VCOA.

Rwy 34, standard w/min. climb of 500' per NM to 5500, or 1700-3 for VCOA.

DEPARTURE PROCEDURE:

Rwy 16, climb on heading 164° and EED VORTAC R-331 to EED VORTAC.

Rwy 34, climb on heading 344° to 2200, then climbing right turn direct EED VORTAC. All aircraft climb in EED VORTAC holding pattern (E, right turns, 257° inbound) to cross EED VORTAC at or above MEA for direction of flight before proceeding on course.

VCOA:

Rwy 16, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Laughlin/Bullhead Intl airport at or above 2300, then continue climbing on heading 155 and EED VORTAC R-335 to EED VORTAC.

Rwy 34, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Laughlin/Bullhead Intl airport at or above 2300, then continue climbing on heading 155 and EED VORTAC R-335 to EED VORTAC.

TAKEOFF OBSTACLE NOTES:

Rwy 16, grd 188' from DER, 83' left of centerline, 715' MSL.

Bush 349' from DER, 516' right of centerline, 722' MSL.

Grd 390' from DER, 528' left of centerline, 719' MSL.

Grd beginning 484' from DER, 481' left of centerline, up to 723' MSL.

Bush 532' from DER, 642' right of centerline, 727' MSL.

Grd beginning 568' from DER, 490' left of centerline, up to 727' MSL.

Bush 700' from DER, 663' right of centerline, 728' MSL.

Grd 798' from DER, 466' left of centerline, 729' MSL.

Bush, grd beginning 801' from DER, 541' left of centerline, up to 734' MSL.

Tree, bush, grd beginning 910' from DER, 557' left of centerline, up to 745' MSL.

Bush, grd beginning 1103' from DER, from 204' right to 1008' left of centerline, up to 777' MSL.

Grd, bush beginning 2134' from DER, 731' left of centerline, up to 778' MSL.

Grd, bush beginning 2214' from DER, 870' left of centerline, up to 786' MSL.

Grd beginning 2288' from DER, 801' left of centerline, up to 792' MSL.

Grd, tree beginning 2328' from DER, 724' left of centerline, up to 797' MSL.

Grd beginning 2811' from DER, 1128' left of centerline, up to 798' MSL.

CON'T

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

BULLHEAD CITY, AZ (CON'T)

LAUGHLIN/BULLHEAD INTL (IFP) (CON'T)

Rwy 16 (CON'T), grd beginning 2915' from DER, 1166' left of centerline, up to 800' MSL.

Grd beginning 3022' from DER, 1185' left of centerline, up to 804' MSL.

Grd beginning 3123' from DER, 1221' left of centerline, up to 809' MSL.

Grd beginning 3219' from DER, 1257' left of centerline, up to 814' MSL.

Grd beginning 3325' from DER, 1284' left of centerline, up to 818' MSL.

Grd beginning 3428' from DER, 1210' left of centerline, up to 821' MSL.

Grd beginning 3528' from DER, 1241' left of centerline, up to 824' MSL.

Grd, bush, tank beginning 3632' from DER, 1157' left of centerline, up to 825' MSL.

Tank 4810' from DER, 1528' left of centerline, 848' MSL.

Grd 5412' from DER, 1872' left of centerline, 852' MSL.

Grd, bushes beginning 5511' from DER, 926' left of centerline, up to 865' MSL.

Bushes beginning 5742' from DER, 1483' left of centerline, up to 883' MSL.

Grd, bushes beginning 5774' from DER, 793' left of centerline, up to 891' MSL.

Bush 5852' from DER, 1933' left of centerline, 904' MSL.

Grd, pole, bushes beginning 5856' from DER, 24' left of centerline, up to 920' MSL.

Trees, bushes, grd, tank beginning 1.2 NM from DER, left and right of centerline, up to 962' MSL.

Trees, bushes, grd beginning 1.3 NM from DER, 1' left of centerline, up to 985' MSL.

Bush 1.4 NM from DER, 1941' left of centerline, 993' MSL.

Bushes, grd, tank, pole beginning 1.5 NM from DER, 1919' left of centerline, up to 1036' MSL.

Bushes, vehicles on road, trees, pole beginning 1.9 NM from DER, 2218' left of centerline, up to 1086' MSL.

Tanks, bushes, pole beginning 2.2 NM from DER, 3103' left of centerline, up to 1121' MSL.

Rwy 34, airfield light 40' from DER, 148' right of centerline, 627' MSL.

T-1 twr, tree beginning 1818' from DER, 620' right of centerline, up to 65' AGL/687' MSL.

Pole, tree beginning 2214' from DER, 629' right of centerline, up to 709' MSL.

Pole, tree beginning 2638' from DER, 646' right of centerline, up to 719' MSL.

Pole, bushes, grd beginning 3054' from DER, 663' right of centerline, up to 741' MSL.

Pole, bush, bldg, grd, vehicles on road beginning 3661' from DER, 691' right of centerline, up to 773' MSL.

Poles, bushes, grd, vehicles on road, trees, bldgs, flagpole beginning 4024' from DER, 705' right of centerline, up to 796' MSL.

Comm twr 5197' from DER, 1015' right of centerline, 816' MSL.

Comm twr 5278' from DER, 1149' right of centerline, 821' MSL.

T-1 twr 1.6 NM from DER, 719' left of centerline, 894' MSL.

Grd beginning 1.8 NM from DER, 3419' right of centerline, up to 963' MSL.

Grd 2.1 NM from DER, 3212' right of centerline, 1018' MSL.

Grd, tree beginning 2.2 NM from DER, 1351' right of centerline, up to 1079' MSL.

Grd 2.6 NM from DER 3025' right of centerline, 2010' MSL.

CARSON CITY, NV

CARSON CITY (CXP)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 20NOV08 (21112) (FAA)

TAKEOFF MINIMUMS:

Rwy 27, NA - Obstacles.

DEPARTURE PROCEDURE:

Rwy 9, use JIMPA DEPARTURE.

CASA GRANDE, AZ

CASA GRANDE MUNI (CGZ)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1B 06FEB14 (14037) (FAA)

TAKEOFF MINIMUMS:

Rwy 5, 300-1 or std. w/ min. climb of 354' per NM to 1700.

DEPARTURE PROCEDURE:

Rwy 5, climbing right turn direct TFD VORTAC, thence...

Rwy 23, climb direct TFD VORTAC, thence...

...continue climb in holding pattern (SW, right turns, 048° inbound) to MEA for direction of flight.

TAKEOFF OBSTACLE NOTES:

Rwy 5, pole 4034' from DER, 805' left of centerline, 109' AGL/1593' MSL.

CEDAR CITY, UT

CEDAR CITY RGNL (CDC)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3A 17AUG17 (17229) (FAA)

TAKEOFF MINIMUMS:

Rwy 8, 4200-3 for VCOA.

Rwy 20, std. w/min. climb of 290' per NM to 7300 or 4200-3 for VCOA.

Rwy 26, std. w/min. climb of 255' per NM to 7000 or 4200-3 for VCOA.

DEPARTURE PROCEDURE:

Rwys 2, 8, climbing left turn direct EHK VOR/DME, thence...

CON'T

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

SW-4

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

CEDAR CITY, UT (CON'T) CEDAR CITY RGNL (CDC) (CON'T)

Rwys 20, 26, climbing right turn direct EHK VOR/DME, thence...

...continue climb on EHK VOR/DME R-278 until reaching the MEA/MCA for direction of flight.

VCOA:

Rwys 8, 20, 26, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Cedar City Rgnl airport at or above 9700, then proceed on EHK VOR/DME R-180 direct EHK VOR/DME, then on EHK VOR/DME R-278 until reaching the MEA/MCA for direction of flight.

TAKEOFF OBSTACLE NOTES:

Rwy 2, sign abeam DER, 313' right of centerline, 3' AGL/5604' MSL.
Terrain and bush beginning 145' from DER, 420' right of centerline, up to 5608' MSL.

Rwy 8, terrain 3' from DER, 112' right of centerline, 5622' MSL.
Terrain 18' from DER, 221' right of centerline, 5623' MSL.
Terrain beginning 30' from DER, 178' right of centerline, up to 5624' MSL.
Terrain 122' from DER, 473' right of centerline, 5626' MSL.
Bush 125' from DER, 234' left of centerline, 5628' MSL.
Terrain 193' from DER, 491' right of centerline, 5627' MSL.
Fence and vehicles on road beginning 638' from DER, 33' right of centerline, up to 10' AGL/5639' MSL.
Vehicles on road 686' from DER, 136' right of centerline, 5640' MSL.
Vehicles on road 701' from DER, 242' right of centerline, 5641' MSL.
Transmission tower 2865' from DER, 369' right of centerline, 51' AGL/5707' MSL.
Transmission tower 2902' from DER, 260' right of centerline, 53' AGL/5710' MSL.
Pole and transmission towers beginning 2918' from DER, 70' right of centerline, up to 62' AGL/5719' MSL.
Transmission towers beginning 3004' from DER, 39' left of centerline, up to 49' AGL/5705' MSL.
Pole 3175' from DER, 564' left of centerline, 56' AGL/5710' MSL.

Rwy 20, runway light 10' from DER, 54' right of centerline, 2' AGL/5579' MSL.
Terrain 12' from DER, 98' left of centerline, 5579' MSL.
Runway light and sign beginning 31' from DER, 275' left of centerline, up to 3' AGL/5583' MSL.
Pole 941' from DER, 446' right of centerline, 34' AGL/5604' MSL.
Pole 1066' from DER, 363' right of centerline, 38' AGL/5608' MSL.
Elevator and tank beginning 2081' from DER, 1051' left of centerline, up to 105' AGL/5690' MSL.
Tree 3789' from DER, 1512' left of centerline, 5692' MSL.
Tree 4004' from DER, 1526' left of centerline, 5693' MSL.
Tree 4265' from DER, 1530' left of centerline, 5718' MSL.
Trees beginning 4278' from DER, 1546' left of centerline, up to 5721' MSL.
Trees beginning 4526' from DER, 1533' left of centerline, up to 5733' MSL.
Trees beginning 4858' from DER, 1520' left of centerline, up to 5737' MSL.
Tree 5456' from DER, 1835' left of centerline, 5748' MSL.
Building and tree beginning 5497' from DER, 1518' left of centerline, up to 21' AGL/5759' MSL.
Pole and tree beginning 5737' from DER, 1543' left of centerline, up to 20' AGL/5769' MSL.
Pole and tree beginning 5964' from DER, 1545' left of centerline, up to 20' AGL/5779' MSL.
Trees beginning 1 NM from DER, 1665' left of centerline, up to 5783' MSL.
Tree 1.2 NM from DER, 2080' left of centerline, 5800' MSL.
Trees beginning 1.2 NM from DER, 2049' left of centerline, up to 5814' MSL.
Trees beginning 1.3 NM from DER, 2107' left of centerline, up to 5836' MSL.
Trees beginning 1.3 NM from DER, 2244' left of centerline, up to 5840' MSL.
Trees beginning 1.3 NM from DER, 2048' left of centerline, up to 5849' MSL.
Trees beginning 1.3 NM from DER, 2283' left of centerline, up to 5852' MSL.
Trees beginning 1.4 NM from DER, 2301' left of centerline, up to 5871' MSL.
Tree 1.4 NM from DER, 2599' left of centerline, 5874' MSL.
Trees beginning 1.4 NM from DER, 2436' left of centerline, up to 5895' MSL.
Pole and tree beginning 1.6 NM from DER, 2822' left of centerline, up to 50' AGL/5944' MSL.
Pole 2.3 NM from DER, 3922' left of centerline, 34' AGL/5952' MSL.

Rwy 26, sign 71' from DER, 167' right of centerline, 6' AGL/5584' MSL.
Pole 1375' from DER, 319' left of centerline, 44' AGL/5614' MSL.

CHANDLER, AZ CHANDLER MUNI (CHD)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 18SEP14 (14261) (FAA)

DEPARTURE PROCEDURE:

Rwys 4L/R, climbing left turn heading 220° to intercept TFD VORTAC R-350 southbound to TFD VORTAC.

Rwys 22L/R, climbing left turn heading 190° to intercept TFD VORTAC R-350 southbound to TFD VORTAC.

TAKEOFF OBSTACLE NOTES:

Rwy 4L, antenna on building 69' from DER, 515' left of centerline, 25' AGL/1281' MSL.
Tower 981' from DER, 615' left of centerline, 80' AGL/1319' MSL.
Trees and poles beginning 1100' from DER, 458' left of centerline, up to 30' AGL/1272' MSL.

Rwy 4R, poles beginning 1298' from DER, 56' left of centerline, up to 36' AGL/1283' MSL.

Rwy 22L, tree 336' from DER, 511' right of centerline, 15' AGL/1250' MSL.
Tree 98L' from DER, 756' left of centerline, 30' AGL/1266' MSL.

Rwy 22R, building 30' from DER, 441' right of centerline, 24' AGL/1254' MSL.
Vehicles beginning 199' from DER, 271' right of centerline, up to 15' AGL/1246' MSL.
Poles and trees beginning 471' from DER, 45' left of centerline, up to 36' AGL/1290' MSL.
Trees and poles beginning 1088' from DER, 50' right of centerline, up to 36' AGL/1274' MSL.

CON'T

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

CHANDLER, AZ (CON'T)

CHANDLER MUNI (CHD) (CON'T)
DIVERSE VECTOR AREA (RADAR VECTORS)
AMDT 1 20AUG15 (15232) (FAA)
Rwys 4L/R, 22L/R, heading as assigned by ATC.

STELLAR AIRPARK (P19)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 06DEC18 (18340) (FAA)

DEPARTURE PROCEDURE:

Rwy 17, climbing left turn heading 150° thence...

Rwy 35, climbing right turn heading 190° thence...

... Intercept TFD VORTAC R-350 southbound to TFD VORTAC.

TAKEOFF OBSTACLE NOTES:

Rwy 17, pole 648' from DER, 482' left of centerline, 52' AGL/1212' MSL.

Pole 656' from DER, 190' left of centerline, 52' AGL/1213' MSL.

Poles beginning 661' from DER, 39' right of centerline, up to 34' AGL/1196' MSL.

Poles beginning 671' from DER, 420' right of centerline, up to 52' AGL/1216' MSL.

Transmission line, sign beginning 869' from DER, 288' right of centerline, up to 50' AGL/1224' MSL.

Sign 906' from DER, 260' left of centerline, 42' AGL/1214' MSL.

Rwy 35, pole 72' from DER, 357' left of centerline, 30' AGL/1208' MSL.

Building 777' from DER, 300' right of centerline, 30' AGL/1218' MSL.

Building 1282' from DER, 767' right of centerline, 45' AGL/1233' MSL.

CLIFTON/MORENCI, AZ

GREENLEE COUNTY (CFT)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 29JUL10 (10210) (FAA)

DEPARTURE PROCEDURE:

Use SAN SIMON DEPARTURE.

COLORADO CITY, AZ

COLORADO CITY MUNI (AZC)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 25JAN24 (24025) (FAA)

TAKEOFF MINIMUMS:

Rwy 2, NA-Obstacles.

DEPARTURE PROCEDURE:

Rwys 11, 20, 29, use NORRA (RNAV) DEPARTURE.

TAKEOFF OBSTACLE NOTES:

Rwy 11, vegetation, trees beginning 16' from DER, 213' left of centerline, up to 4861' MSL.

Rwy 20, tree 27' from DER, 275' left of centerline, 4843' MSL.

Vegetation 45' from DER, 26' right of centerline, 4843' MSL.

Vehicles on road beginning 67' from DER, 389' left of centerline, up to 4853' MSL.

Tree 1.8 NM from DER, 2971' right of centerline, 5118' MSL.

Rwy 29, sign, tree beginning 15' from DER, 123' right of centerline, up to 5' AGL/4850' MSL.

Vegetation 60' from DER, 46' left of centerline, 4849' MSL.

COOLIDGE, AZ

COOLIDGE MUNI (P08)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 10OCT96 (96284) (FAA)

DEPARTURE PROCEDURE:

Rwys 5, 35, climbing left turn heading 280° to intercept TFD R-063, then via R-063 to TFD VORTAC before proceeding on course.

Rwy 17, climbing right turn heading 240° to intercept TFD R-090, then via R-090 to TFD VORTAC before proceeding on course.

Rwy 23, climb runway heading to intercept TFD R-090, then via R-090 to TFD VORTAC before proceeding on course.

COTTONWOOD, AZ

COTTONWOOD (P52)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 26MAY16 (16147) (FAA)

DEPARTURE PROCEDURE:

Use MINGY DEPARTURE.

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

DAVIS-MONTHAN AFB (KDMA)

TUCSON, AZ

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4 07SEP23 (23250) (USAF)

DEPARTURE PROCEDURE:

Rwy 12, climb to 5700 and track 125°, intercept DMA R-119 to WUDAR (DMA R-119/16 DME) expect RADAR vectors.**Rwy 30**, climb to 5500 and track 305°, intercept DMA R-310 to OTUKE (DMA R-310/16.4 DME) expect RADAR vectors.

TAKEOFF OBSTACLE NOTES:

Rwy 12, terrain 0' from DER, 500' left of centerline, 2707' MSL.**Rwy 30**, terrain 0' from DER, 500' right of centerline, 2592' MSL.

Terrain 0' from DER, 484' right of centerline, 2592' MSL.

DELTA, UT

DELTA MUNI (DTA)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 02DEC21 (21336) (FAA)

DEPARTURE PROCEDURE:

Use DELTA DEPARTURE.

TAKEOFF OBSTACLE NOTES:

Rwy 17, lighting beginning 41' from DER, 76' right of centerline, 3' AGL/4754' MSL.

Tree 609' from DER, 596' right of centerline, 4780' MSL.

Rwy 35, vegetation, lighting beginning 9' from DER, 77' right of centerline, up to 4763' MSL.

Vegetation 47' from DER, 349' left of centerline, 4763' MSL.

Fence 76' from DER, 390' right of centerline, 10' AGL/4769' MSL.

Vehicles on road 177' from DER, 477' right of centerline, 4770' MSL.

Vehicles on road 227' from DER, 458' right of centerline, 4771' MSL.

DOUGLAS BISBEE, AZ

BISBEE- DOUGLAS INTL (DUG)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 09FEB12 (12040) (FAA)

DEPARTURE PROCEDURE:

Rwys 8, 17, climbing right turn on heading 330° to intercept DUG VORTAC R-286 to 9500.**Rwy 26**, climbing right turn to intercept DUG VORTAC R-286 to 9500.**Rwy 35**, climbing left turn to intercept DUG VORTAC R-286 to 9600.

TAKEOFF OBSTACLE NOTES:

Rwy 8, trees and terrain beginning 145' from DER, 51' left of centerline, up to 8' AGL/4220' MSL.

Trees and terrain beginning 22' from DER, 247' right of centerline, up to 13' AGL/4197' MSL.

Rwy 17, trees and terrain beginning 91' from DER, 76' left of centerline, up to 5' AGL/4118' MSL.

Trees and terrain beginning 12' from DER, 146' right of centerline, up to 5' AGL/4115' MSL.

Rwy 26, tree and terrain beginning 16' from DER, 233' left of centerline, up to 5' AGL/4167' MSL.

Trees and terrain beginning 17' from DER, 32' right of centerline, up to 7' AGL/4167' MSL.

Rwy 35, trees and terrain beginning 118' from DER, 15' left of centerline, up to 6' AGL/4190' MSL.

Tree and terrain beginning 75' from DER, 100' right of centerline, up to 11' AGL/4200' MSL.

DUCHESNE, UT

DUCHESNE MUNI (U69)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 10OCT19 (19283) (FAA)

TAKEOFF MINIMUMS:

Rwys 8, 26, NA - Environmental.**Rwy 35**, std. w/min. climb of 235' per NM to 6900 or 1100-3 for VCOA.

DEPARTURE PROCEDURE:

Rwy 17, climbing left turn direct MTU VOR/DME, thence...**Rwy 35**, climbing right turn direct MTU VOR/DME, thence...

...continue climb in MTU VOR/DME holding pattern (hold northeast, right turns, 213° inbound) to cross MTU VOR/DME at or above MEA for route of flight.

VCOA:

Rwy 35, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Duchesne Muni

Airport at or above 6800 then on MTU VOR/DME R-269 to MTU VOR/DME. Continue climb in MTU VOR/DME holding

pattern (hold Northeast, right turns, 213° inbound) to cross MTU VOR/DME at or above MEA for route of flight.

TAKEOFF OBSTACLE NOTES:

Rwy 35, vehicles on road beginning 315' from DER, 95' right of centerline, up to 15' AGL/5844' MSL.

Vehicles on road beginning 327' from DER, 29' left of centerline, up to 15' AGL/5854' MSL.

Equipment 415' from DER, 515' left of centerline, 17' AGL/5856' MSL.

Building 876' from DER, 617' left of centerline, 30' AGL/5869' MSL.

Pole 1048' from DER, 682' left of centerline, 40' AGL/5889' MSL.

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

ELKO, NV

ELKO RGNL (EKO)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 6 26MAY16 (16147) (FAA)

TAKEOFF MINIMUMS:

Rwy 12, 30, NA-ATC.**Rwy 6**, std. w/min. climb of 500' per NM to 7200, or 2000-3 for climb in visual conditions.**Rwy 24**, std. w/min. climb of 390' per NM to 8400, or 2000-3 for climb in visual conditions.

DEPARTURE PROCEDURE:

Rwy 6, climb heading 057° to 6500, then climbing right turn direct BQU VOR/DME, thence...**Rwy 24**, climb heading 237° to 6100, then climbing left turn direct BQU VOR/DME, thence...

... Continue climb in BQU VOR/DME holding pattern (hold south, left turns, 340° inbound) to cross BQU VOR/DME at or above MEA/MCA for route of flight.

VCOA:

Rwy 6, 24, obtain ATC approval for climb in visual conditions when requesting IFR clearance. Climb in visual conditions to cross Elko Rgnl airport at or above 7000, then proceed to BQU VOR/DME and continue climb in BQU VOR/DME holding pattern (hold south, left turns, 340° inbound) to cross BQU VOR/DME at or above MEA/MCA for route of flight.

TAKEOFF OBSTACLE NOTES:

Rwy 6, OL on ltd wsk 253' from DER, 155' right of centerline, 5095' MSL.

Lt poles, beginning 277' from DER, 332' right of centerline, up to 5097' MSL.

Trees, buildings, and ants on ol buildings, beginning 676' from DER, 209' right of centerline, up to 5111' MSL.

Pole 765' from DER, 422' left of centerline, 5110' MSL.

Ols on poles, beginning 903' from DER, 435' left of centerline, up to 5130' MSL.

Trees, poles, and ols on poles, beginning 961' from DER, 130' left of centerline, up to 5207' MSL.

Ant 3007' from DER, 84' right of centerline, 5165' MSL.

Tree 3676' from DER, 251' right of centerline, 5191' MSL.

Rwy 24, vehicles on road, beginning 672' from DER, 315' right of centerline, up to 5075' MSL.

Poles, trees beginning 1179' from DER, 171' right of centerline, up to 36' AGL/5100' MSL.

Poles, beginning 1243' from DER, 663' left of centerline, up to 39' AGL/5085' MSL.

Signs, beginning 1566' from DER, 714' right of centerline, up to 5128' MSL.

Signs, elevators, silos beginning 2155' from DER, 437' right of centerline, up to 44' AGL/5132' MSL.

ELY, NV

ELY/YELLAND FLD (ELY)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 30JUN11 (21168) (FAA)

DEPARTURE PROCEDURE:

Use ELY DEPARTURE.

ESCALANTE, UT

ESCALANTE MUNI (1L7)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 25JAN24 (24025) (FAA)

TAKEOFF MINIMUMS:

Rwy 31, NA-Terrain.

DEPARTURE PROCEDURE:

Rwy 13, use HASSL DEPARTURE.

TAKEOFF OBSTACLE NOTES:

Rwy 13, light poles 10' from DER, 19' left of centerline, 4' AGL/5721' MSL.

Tree 32' from DER, 353' left of centerline, 5730' MSL.

Trees beginning 67' from DER, 198' left of centerline, up to 15' AGL/5734' MSL.

Trees beginning 381' from DER, 473' left of centerline, up to 5735' MSL.

Trees beginning 703' from DER, 277' left of centerline, up to 5744' MSL.

Tree 798' from DER, 481' left of centerline, 5747' MSL.

Trees beginning 811' from DER, 336' left of centerline, up to 5752' MSL.

Trees beginning 881' from DER, 441' left of centerline, up to 5756' MSL.

Trees beginning 996' from DER, 361' left of centerline, up to 5765' MSL.

Tree, terrain beginning 1119' from DER, 509' left of centerline, up to 5772' MSL.

Tree, vehicles on road beginning 1228' from DER, 160' left of centerline, up to 5774' MSL.

Trees beginning 1332' from DER, 402' left of centerline, up to 5775' MSL.

Transmission lines, trees, vehicle on road beginning 1439' from DER, 208' left of centerline, up to 5786' MSL.

EUREKA, NV

EUREKA (05U)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 22AUG13 (13234) (FAA)

TAKEOFF MINIMUMS:

Rwy 18, NA-Terrain.

DEPARTURE PROCEDURE:

Use MINES (RNAV) DEPARTURE.

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

SW-4

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

FALLON, NV

FALLON MUNI (FLX)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1A 20JUN19 (19171) (FAA)

TAKEOFF MINIMUMS:

Rwys 13, 31, NA - Environmental

DEPARTURE PROCEDURE:

Rwy 3, climbing left turn, thence...

Rwy 21, climbing right turn, thence...

... to 9300 direct HZN VORTAC, continue climb in HZN VORTAC holding pattern (hold west, left turn 075° inbound) cross HZN VORTAC at or above 9300 before proceeding on course, continue climb to MEA or assigned altitude.

TAKEOFF OBSTACLE NOTES:

Rwy 3, sign, trees beginning 9' from DER, 37' left of centerline, up to 5' AGL/3966' MSL.

Tree 121' from DER, 173' right of centerline, 3966' MSL.

Traverse way beginning 134' from DER, 357' right of centerline, up to 3972' MSL.

Trees beginning 146' from DER, 469' left of centerline, up to 6' AGL/3969' MSL.

Traverse way, tree beginning 315' from DER, 232' right of centerline, up to 3974' MSL.

Tree 1068' from DER, 199' left of centerline, 37' AGL/3995' MSL.

Trees beginning 1086' from DER, 208' left of centerline, up to 4002' MSL.

Tree 1093' from DER, 193' right of centerline, 38' AGL/3992' MSL.

Trees, pole beginning 1214' from DER, 306' left of centerline, up to 61' AGL/4018' MSL.

Trees beginning 2148' from DER, 819' left of centerline, up to 4023' MSL.

Tree 2319' from DER, 763' left of centerline, 58' AGL/4024' MSL.

Trees beginning 2960' from DER, 663' left of centerline, up to 97' AGL/4054' MSL.

Rwy 21, trees, terrain beginning 31' from DER, 150' left of centerline, up to 3969' MSL.

Traverse way 32' from DER, 497' right of centerline, 3981' MSL.

Pole 112' from DER, 397' right of centerline, 26' AGL/3991' MSL.

Tree 139' from DER, 401' left of centerline, 4' AGL/3970' MSL.

Poles, traverse way, vegetation, building beginning 149' from DER, 19' right of centerline, up to 36' AGL/4002' MSL.

Traverse way beginning 380' from DER, 308' left of centerline, up to 3984' MSL.

Traverse way beginning 525' from DER, 22' left of centerline, up to 3985' MSL.

Tree 1286' from DER, 785' right of centerline, 48' AGL/4016' MSL.

Tree 1407' from DER, 840' right of centerline, 57' AGL/4025' MSL.

Pole 1813' from DER, 798' left of centerline, 39' AGL/4013' MSL.

Tree 1896' from DER, 869' right of centerline, 76' AGL/4040' MSL.

FALLON NAS (VAN VOORHIS FLD) (KNFL)

FALLON, NV

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 21APR22 (22111) (USN)

TAKEOFF MINIMUMS:

Rwy 7, std. w/min. climb rate of 291' per NM to 9700.

Rwys 13L/R, std. w/min. climb rate of 235' per NM to 7200.

DEPARTURE PROCEDURE:

Rwys 13L/R, climb on hdg between 110° CW to 310° from DER.

Rwy 25, climb on hdg between 216° CW to 028° from DER.

Rwys 31L/R, climb on hdg between 220° CW to 025° from DER.

FILLMORE, UT

FILLMORE MUNI (FOM)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 18NOV10 (10322) (FAA)

TAKEOFF MINIMUMS:

Rwy 4, std. w/ min. climb of 250' per NM to 6200, or 1800-3 for climb in visual conditions.

DEPARTURE PROCEDURE:

Rwy 4, climbing left turn to 9600 on DTA R-141 to DTA VORTAC, climb in DTA VORTAC holding pattern (South, left turns, 004° inbound) to cross DTA VORTAC at or above MEA for route of flight or for climb in visual conditions cross Fillmore Muni airport Northwest bound at or above 6600, then climb to 9600 on DTA R-146 to DTA VORTAC. Continue climb in DTA VORTAC holding pattern (South, left turns, 004° inbound) to cross DTA VORTAC at or above MEA for route of flight.

Rwy 22, climbing right turn to 9600 on DTA R-152 to DTA VORTAC, climb in DTA VORTAC holding pattern (South, left turns, 004° inbound) to cross DTA VORTAC at or above MEA for route of flight.

TAKEOFF OBSTACLE NOTES:

Rwy 4, light 60' from DER, 393' left of centerline, 8' AGL/4987' MSL.

Windsock 129' from DER, 301' left of centerline, 21' AGL/5000' MSL.

Rising terrain 132' from DER, 385' right of centerline, 4989' MSL.

Fence beginning 138' from DER, 174' right of centerline, up to 15' AGL/4996' MSL.

Buildings beginning 259' from DER, 455' right of centerline, up to 13' AGL/5012' MSL.

Beacon 311' from DER, 505' left of centerline, 52' AGL/5031' MSL.

Trees beginning 333' from DER, 242' left of centerline, up to 37' AGL/5034' MSL.

Vehicle on road beginning 472' from DER, 608' left to 1093' right of centerline, up to 35' AGL/5073' MSL.

Pole 488' from DER, 620' left of centerline, 38' AGL/5037' MSL.

Windmeter, 623' from DER, 342' left of centerline, 9' AGL/5008' MSL.

Building 873' from DER, 196' left of centerline, 17' AGL/5016' MSL.

CONT

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

SW-4

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

FILLMORE, UT (CON'T)

FILLMORE MUNI (FOM) (CON'T)

Rwy 22, fence 97' from DER, 302' left of centerline, 15' AGL/4916' MSL.

Vehicle on road beginning 228' from DER, 398' left of centerline, up to 9' AGL/4928' MSL.

FLAGSTAFF, AZ

FLAGSTAFF PULLIAM (FLG)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2A 06FEB14 (23222) (FAA)

DEPARTURE PROCEDURE:

Rwy 3, turn right, aircraft departing FLG VOR/DME R-160 CW R-175 climb on course. All others climb southbound on FLG VOR/DME R-172 to 9000, then climbing left turn direct FLG VOR/DME.

Rwy 21, turn left, aircraft departing FLG VOR/DME R-160 CW R-175 climb on course. All others climb southbound on FLG VOR/DME R-172 to 9000, then climbing left turn direct FLG VOR/DME.

TAKEOFF OBSTACLE NOTES:

Rwy 21, trees beginning 73' from DER, left and right of centerline, up to 85' AGL/7065' MSL.

FORT HUACHUCA SIERRA VISTA, AZ

SIERRA VISTA MUNI-LIBBY AAF (FHU)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4 13SEP18 (18256) (FAA)

TAKEOFF MINIMUMS:

Rwy 21, NA-terrain.

Rwy 26, std. w/min. climb of 335' per NM to 7300', or 2800-3 for VCOA

DEPARTURE PROCEDURE:

Rwys 3, 8, 12, climbing left turn, thence...

Rwys 26, 30, climbing right turn, thence...

...all aircraft, intercept FHU VOR/DME R-021 to TOMBS INT/FHU 12.76 DME, continue climb in TOMBS holding pattern (hold north, left turns, 201° inbound) to 9500 before proceeding on course.

VCOA:

Rwy 26, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Sierra Vista Muni-Libby AAF airport at or above 7400' MSL then intercept and proceed on FHU VOR/DME R-021 to TOMBS INT/FHU 12.76 DME. Continue climb in TOMBS holding pattern (hold north, left turns, 201° inbound) to 9500 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 3, trees 253' from DER, 130' left of centerline, 10' AGL/4595' MSL.

Tree 199' from DER, 271' right of centerline, 10' AGL/4595' MSL.

Rwy 8, reflector, 121' from DER, 174' right of centerline, 4' AGL/4603' MSL.

Rwy 12, terrain beginning 22' from DER, 93' right of centerline, up to 4639' MSL.

Rwy 26, general utility 100' from DER, 173' right of centerline, 20' AGL/4723' MSL.

General utility 101' from DER, 175' left of centerline, 26' AGL/4730' MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)

ORIG 13NOV14 (14317) (FAA)

Rwys 3,12, heading as assigned by ATC.

Rwy 8, heading as assigned by ATC. Requires minimum climb of 300' per NM to 8600.

Rwy 26, heading as assigned by ATC. Requires minimum climb of 330' per NM to 8100.

Rwy 30, heading as assigned by ATC. Requires minimum climb of 330' per NM to 8700.

GLENDALE, AZ

GLENDALE MUNI (GEU)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 24MAY18 (18144) (FAA)

DEPARTURE PROCEDURE:

Use DRAKE (RNAV) DEPARTURE.

TAKEOFF OBSTACLE NOTES:

Rwy 1, light on blast fence 4' from DER, 130' left of centerline, up to 10' AGL/1,088' MSL.

Trees beginning 124' from DER, left and right of centerline, up to 30' AGL/1,104' MSL.

Vehicles beginning 299' from DER, 80' right of centerline, up to 15' AGL/1,091' MSL.

Poles and trees beginning 400' from DER, 197' right of centerline, up to 75' AGL/1,144' MSL.

Rwy 19, trees beginning 281' from DER, 331' left of centerline, up to 33' AGL/1,060' MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)

AMDT 1 15JUN23 (23166) (FAA)

Rwy 1, heading as assigned by ATC; requires min. climb of 285' per NM to 5700.

Rwy 19, heading as assigned by ATC.

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

GLOBE, AZ

SAN CARLOS APACHE (P13)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 10APR08 (08101) (FAA)

DEPARTURE PROCEDURE:

Use IZTIR DEPARTURE.

GOODYEAR, AZ

PHOENIX GOODYEAR (GYR)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 24MAY18 (18144) (FAA)

DEPARTURE PROCEDURE:

Use POTER (RNAV) DEPARTURE.

TAKEOFF OBSTACLE NOTES:

Rwy 3, poles beginning 159' from DER, 267' right of centerline, up to 47' AGL/1,015' MSL.

Building 1512' from DER, 828' right of centerline, 48' AGL/1,014' MSL.

Tree 1,957' from DER, 551' right of centerline, up to 49' AGL/1,019' MSL.

Rwy 21, transmission tower 2610' from DER, 1,078' left of centerline, 125' AGL/1,047' MSL.

Transmission tower 3,190' from DER, 311' left of centerline, 112' AGL/1,031' MSL.

Pole 3,193' from DER, 308' left of centerline, 112' AGL/1,030' MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)

AMDT 1 21JUL16 (16203) (FAA)

Rwy 3, 21, heading as assigned by ATC.

GRAND CANYON, AZ

GRAND CANYON NTL PARK (GCN)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 30AUG07 (21168) (FAA)

TAKEOFF MINIMUMS:

Rwy 3, NA-Environmental.

DEPARTURE PROCEDURE:

Rwy 21, use GRAND DEPARTURE.

VALLE (40G)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 18SEP14 (14261) (FAA)

DEPARTURE PROCEDURE:

Rwy 1, Climb on a heading between 188° CW to 091° from DER.

Rwy 19, climb on a heading between 170° CW to 008° from DER.

HAWTHORNE, NV

HAWTHORNE INDUSTRIAL (HTH)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 14SEP17 (17257)

TAKEOFF MINIMUMS:

Rwy 15, 33, NA – ATC.

Rwy 10, 28, 4200 - 3 for VCOA.

VCOA:

Rwy 10, 28, obtain ATC approval for VCOA when requesting IFR clearance. climb in visual conditions to cross Hawthorne Industrial airport at or above 8300 then climb to 11500 on MVA R-251 to MVA VORTAC before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 10, ground beginning at DER, 53' right of centerline, up to 4232' MSL.

Ground 139' from DER, 39' right of centerline, 4234' MSL.

Ground 145' from DER, 387' right of centerline, 4236' MSL.

Bush 193' from DER, 480' right of centerline, 2' AGL/4238' MSL.

Bush 363' from DER, 576' right of centerline, 3' AGL/4242' MSL.

Bush 557' from DER, 555' right of centerline, 1' AGL/4245' MSL.

Rwy 28, ground 1' from DER, 388' left of centerline, 4183' MSL.

Bush 10' from DER, 488' left of centerline, 2' AGL/4185' MSL.

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

HEBER, UT

HEBER VALLEY (HCR)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4A 15AUG19 (19227) (FAA)

TAKEOFF MINIMUMS:

Rwys 4, 22, 5800-5 for VCOA. VCOA NA at night.

VCOA:

Rwys 4, 22, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Heber Valley airport at or above 11300 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 4, fence abeam DER, 301' left of centerline, 16' AGL/5647' MSL.

Pole 24' from DER, 404' left of centerline, up to 33' AGL/5659' MSL.

Bush 23' from DER, 61' left of centerline, up to 5639' MSL.

Terrain 109' from DER, 428' right of centerline, 5642' MSL.

Multiple poles, tree, beginning 200' from DER, 269' left of centerline, up to 36' AGL/5666' MSL.

Tree, fence beginning 252' from DER, 249' right of centerline, up to 5659' MSL.

Pole 319' from DER, 404' left of centerline, up to 5670' MSL.

Tree, pole beginning 662' from DER, 404' left of centerline, up to 5681' MSL.

Tree, sign, pole beginning 710' from DER, 281' left of centerline, up to 5682' MSL.

Building beginning 1066' from DER, 42' right of centerline, up to 5674' MSL.

Tree, pole beginning 1120' from DER, 181' right of centerline, up to 5689' MSL.

Tree, pole beginning 1281' from DER, 278' right of centerline, up to 5690' MSL.

Trees beginning 1773' from DER, 238' left of centerline, up to 5689' MSL.

Tree, pole beginning 1901' from DER, 399' right of centerline, up to 5708' MSL.

Tree 1909' from DER, 498' left of centerline, 5692' MSL.

Rwy 22, pole abeam DER, 292' right of centerline, 16' AGL/5592' MSL.

Fence, vegetation, terrain 13' from DER, 225' left of centerline, up to 9' AGL/5597' MSL.

Trees beginning 608' from DER, 384' right of centerline, up to 5611' MSL.

Pole 829' from DER, 474' left of centerline, 22' AGL/5605' MSL.

Pole 988' from DER, 634' left of centerline, up to 33' AGL/5617' MSL.

Tree 1672' from DER, 777' left of centerline, 5628' MSL.

Terrain beginning 1.1 NM from DER, 1752' left of centerline, up to 5964' MSL.

Tree 1.3 NM from DER, 2420' left of centerline, 5821' MSL.

Terrain, trees beginning 1.4 NM from DER, 1124' left of centerline, up to 6128' MSL.

Terrain, trees beginning 1.5 NM from DER, 372' left of centerline, up to 6411' MSL.

HILL AFB (KHIF)

OGDEN, UT

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Diverse departures NA, use RADAR vectors or published Departure Procedures (DP) for obstacle avoidance.

HUNTINGTON, UT

HUNTINGTON MUNI (69V)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2B 19JUL18 (18200) (FAA)

TAKEOFF MINIMUMS:

Rwys 12, 18, 26, 30, 36, NA-Environmental.

DEPARTURE PROCEDURE:

Rwy 8, climbing left turn direct PUC VOR/DME...

...continue climb in PUC VOR/DME holding pattern (hold south, RT, 009° inbound) to MEA for direction of flight.

TAKEOFF OBSTACLE NOTES:

Rwy 8, tree 2663' from DER, 922' left of centerline, 40' AGL/5979' MSL.

KANAB, UT

KANAB MUNI (KNB)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 11FEB10 (10042) (FAA)

TAKEOFF MINIMUMS:

Rwy 1, std. with min. climb of 742' per NM to 6600, or 1100-3 with min. climb of 535' per NM to 6900, or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE:

Rwy 19, climb heading 171° to 6800 before turning.

Rwy 1, climb heading 006° to 6100 before turning, or for climb in visual conditions, cross Kanab Muni airport at or above 7100 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 1, vent on building 554' from DER, 370' left of centerline, 16' AGL/4884' MSL.

Trees beginning 1138' from DER, 302' left of centerline, up to 100' AGL/5939' MSL.

Rising terrain and trees beginning 1.68 NM from DER, 247' right of centerline, up to 100' AGL/5239' MSL.

Rising terrain and trees beginning 1.76 NM from DER, 766' left of centerline, up to 100' AGL/5599' MSL.

Rising terrain beginning 3.5 NM from DER, left and right of centerline, up to 6359' MSL.

Rwy 19, trees beginning 271' from DER, 506' right of centerline, up to 100' AGL/4899' MSL.

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

KINGMAN, AZ

KINGMAN (IGM)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1A 16JUL20 (21168) (FAA)

TAKEOFF MINIMUMS:

Rwys 3, 35, 2000-2 or std. w/min. climb of 275' per NM to 5500.

Rwys 17, 21, NA.

DEPARTURE PROCEDURE:

Climb northbound on IGM R-010 until reaching 6000; reverse course to the left and continue climb to 9000 direct to IGM. If unable to cross IGM at 9000 continue climb in IGM holding pattern (SW, left turns, 027° inbound).

TAKEOFF OBSTACLE NOTES:

Rwy 3, terrain and vegetation beginning 171' from DER, 264' right of centerline, up to 3402' MSL.

Rwy 35, terrain beginning 32' from DER, 172' right of centerline, up to 3363' MSL.

Fence 306' from DER, 392' right of centerline, 6' AGL/3368' MSL.

Traverse way 441' from DER, 274' right of centerline, up to 15' AGL/3372' MSL.

LAGUNA AAF (KLGf)

YUMA PROVING GROUND, AZ

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 05OCT23 (23278) (USA)

TAKEOFF MINIMUMS:

Rwy 6, std w/min climb of 284' per NM to 2700.

Rwy 18, std w/min climb of 248' per NM to 1200.

Rwy 36, 300-2 or std w/min climb of 222' per NM to 1200.

DEPARTURE PROCEDURE:

Rwys 6, 18, 36, climbing right turn to 3600, intercept BZA VORTAC R-055 to BZA. Do not exceed 240K until intercepting BZA R-055.

Rwy 24, climb to 3600 direct to BZA VORTAC.

TAKEOFF OBSTACLE NOTES:

Rwy 6, terrain 0' from DER, 500' left of centerline 426' MSL.

Berm 206' from DER, 171' left of centerline 441' MSL.

Berm 273' from DER, 137' right of centerline 435' MSL.

Berm 812' from DER, 260' left of centerline 459' MSL.

Berm 871' from DER, 130' left of centerline, 447' MSL.

Rwy 24, road 196' from DER, 152' left of centerline, 379' MSL.

Rwy 36, terrain, vegetation, 1 NM from DER, 720' right of centerline, 60' AGL/579' MSL.

Antenna 1.5 NM from DER, 55' right of centerline, 90' AGL/638' MSL.

LAKE HAVASU CITY, AZ

LAKE HAVASU CITY (HII)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 31MAY12 (12152) (FAA)

TAKEOFF MINIMUMS:

Rwy 14, std. w/min. climb of 465' per NM to 4800, or 1500-3 for climb in visual conditions.

Rwy 32, 600-1¼ w/min. climb of 492' per NM to 1100, or 1500-3 for climb in visual conditions.

DEPARTURE PROCEDURE:

Rwy 14, climbing right turn heading 300° to intercept EED VORTAC R-155 to EED VORTAC, continue climb in EED VORTAC holding pattern (East, right turns, 257° inbound) to cross EED VORTAC at or above 6100 before proceeding on course or ...

Rwy 32, climbing left turn heading 290° to intercept EED VORTAC R-155 to EED VORTAC, continue climb in EED VORTAC holding pattern (East, right turns, 257° inbound) to cross EED VORTAC at or above 6100 before proceeding on course or ...

Rwys 14, 32, ... For climb in visual conditions: cross Lake Havasu City airport northwest bound at or above 2300, then Intercept EED VORTAC R-138 to EED VORTAC, continue climb in EED VORTAC holding pattern (East, right turns, 257° inbound) to cross EED VORTAC at or above 6100 before proceeding on course. When executing VCOA, notify ATC prior to departure.

TAKEOFF OBSTACLE NOTES:

Rwy 14, pole 3327' from DER, 46' right of centerline, 107' AGL/868' MSL.

Poles 3468' from DER, 195' left of centerline, up to 107' AGL/890' MSL.

Trees/bushes 976' from DER, 380' left of centerline, up to 46' AGL/829' MSL.

Terrain 143' from DER, 346' left of centerline, up to 804' MSL.

Rwy 32, trees 1544' from DER, 416' right of centerline, up to 44' AGL/793' MSL.

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

LAS VEGAS, NV

HARRY REID INTL (LAS)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 8 17AUG17 (23138) (FAA)

TAKEOFF MINIMUMS:

- Rwy 1L**, 300-1 or std. w/min. climb of 269' per NM to 2300.
- Rwy 19L**, std. w/min. climb of 256' per NM to 3400.
- Rwy 19R**, std. w/min. climb of 242' per NM to 3400.
- Rwy 26L**, 300-2¼ or std. w/min. climb of 214' per NM to 2400.
- Rwy 26R**, 400-2½ or std. w/min. climb of 270' per NM to 2400.

DEPARTURE PROCEDURE:

- Rwys 1L/R**, climbing right turn direct BLD VORTAC before proceeding on course.
- Rwys 8L/R**, climb heading 079° to 3700, then climbing right turn direct BLD VORTAC before proceeding on course.
- Rwys 19L/R**, climb heading 194° to 2800, then climbing left turn heading 120° and BLD R-257 to BLD VORTAC before proceeding on course.
- Rwys 26L/R**, climb heading 259° to 2800, then climbing right turn direct BLD VORTAC before proceeding on course.

TAKEOFF OBSTACLE NOTES:

- Rwy 1L**, REIL 23' from DER, 153' left of centerline, 3' AGL/2090' MSL.
- Sign 1037' from DER, 695' left of centerline, 41' AGL/2125' MSL.
- Building 1556' from DER, 552' left of centerline, 2129' MSL.
- Building 1779' from DER, 649' left of centerline, 2147' MSL.
- Buildings beginning 1907' from DER, 186' left of centerline, up to 2150' MSL.
- Buildings beginning 1977' from DER, 214' left of centerline, up to 2150' MSL.
- Buildings beginning 2095' from DER, 275' left of centerline, up to 83' AGL/2153' MSL.
- Buildings beginning 3953' from DER, 1397' left of centerline, up to 162' AGL/2226' MSL.
- Building 4126' from DER, 1090' left of centerline, 2229' MSL.
- Building 4542' from DER, 1400' left of centerline, 183' AGL/2240' MSL.
- Building 4604' from DER, 1367' left of centerline, 186' AGL/2243' MSL.
- Rwy 1R**, building 609' from DER, 538' right of centerline, 28' AGL/2095' MSL.
- Sign 1336' from DER, 447' right of centerline, 60' AGL/2122' MSL.
- Rwy 8L**, pole 744' from DER, 442' right of centerline, 30' AGL/2057' MSL.
- Tree 758' from DER, 168' right of centerline, 2068' MSL.
- Tree 767' from DER, 589' left of centerline, 2060' MSL.
- Tree 850' from DER, 184' left of centerline, 2067' MSL.
- Trees beginning 886' from DER, 371' right of centerline, up to 2074' MSL.
- Rwy 8R**, tower 1457' from DER, 848' right of centerline, 64' AGL/2097' MSL.
- Rwy 19L**, railroad, pole beginning 952' from DER, 322' left of centerline, up to 2215' MSL.
- Railroad 1043' from DER, 178' left of centerline, 2218' MSL.
- Railroad, pole beginning 1122' from DER, 19' left of centerline, up to 2219' MSL.
- Railroad 1166' from DER, 75' right of centerline, 2220' MSL.
- Railroad 1219' from DER, 235' right of centerline, 2222' MSL.
- Railroad 1230' from DER, 281' right of centerline, 2223' MSL.
- Pole 1234' from DER, 178' left of centerline, 2221' MSL.
- Railroad 1241' from DER, 351' right of centerline, 2224' MSL.
- Railroad 1246' from DER, 489' right of centerline, 2225' MSL.
- Railroad, pole beginning 1247' from DER, 11' right of centerline, up to 2226' MSL.
- Poles, tree, vehicles on road, sign, parking lot beginning 1392' from DER, 115' right of centerline, up to 36' AGL/2238' MSL.
- Tree, pole beginning 1410' from DER, 9' left of centerline, up to 2232' MSL.
- Tree 1819' from DER, 124' left of centerline, 2236' MSL.
- Pole, tree, vehicles on road beginning 1824' from DER, 9' right of centerline, up to 34' AGL/2242' MSL.
- Pole 1933' from DER, 623' right of centerline, 34' AGL/2243' MSL.
- Pole, tree beginning 1936' from DER, 55' right of centerline, up to 36' AGL/2245' MSL.
- Pole, tree, parking lot beginning 2036' from DER, 386' right of centerline, up to 35' AGL/2246' MSL.
- Pole, parking lot, tree, vehicles on road beginning 2133' from DER, 183' right of centerline, up to 36' AGL/2247' MSL.
- Sign, tree, parking lot, vehicles on road, pole, building beginning 2179' from DER, 27' right of centerline, up to 2256' MSL.
- Pole 2229' from DER, 578' left of centerline, 2238' MSL.
- Poles beginning 2332' from DER, 583' left of centerline, up to 2240' MSL.
- Sign, tree, pole, parking lot, building beginning 2381' from DER, 53' right of centerline, up to 41' AGL/2257' MSL.
- Building, tree, pole beginning 2466' from DER, 591' right of centerline, up to 38' AGL/2258' MSL.
- Building, tree, poles, utility box beginning 2505' from DER, 157' right of centerline, up to 38' AGL/2259' MSL.
- Pole, building beginning 2738' from DER, 20' left of centerline, up to 2251' MSL.
- Building, tree beginning 2739' from DER, 1134' right of centerline, up to 57' AGL/2279' MSL.
- Building, tree beginning 2766' from DER, 869' right of centerline, up to 57' AGL/2280' MSL.
- Building, tree beginning 2822' from DER, 1006' right of centerline, up to 58' AGL/2281' MSL.
- Buildings, tree, poles beginning 2861' from DER, 665' right of centerline, up to 59' AGL/2282' MSL.
- Buildings, pole beginning 3418' from DER, 884' right of centerline, up to 61' AGL/2284' MSL.
- Building, pole beginning 3515' from DER, 424' right of centerline, up to 59' AGL/2287' MSL.
- Sign 5292' from DER, 1688' right of centerline, 55' AGL/2309' MSL.
- Building, pole beginning 5596' from DER, 1758' left of centerline, up to 110' AGL/2334' MSL.
- Communication tower 5717' from DER, 781' right of centerline, 80' AGL/2327' MSL.
- Building 2 NM from DER, 2897' left of centerline, 236' AGL/2491' MSL.
- Buildings beginning 2 NM from DER, 2936' left of centerline, up to 241' AGL/2494' MSL.

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

LAS VEGAS, NV (CON'T) HARRY REID INTL (LAS) (CON'T)

Rwy 19R, ground 60' from DER, 475' right of centerline, 2186' MSL.
 Ground 151' from DER, 529' right of centerline, 2190' MSL.
 Building 194' from DER, 444' right of centerline, 9' AGL/2199' MSL.
 NAVAID 262' from DER, 408' right of centerline, 14' AGL/2206' MSL.
 Vehicles on road, ground, control box beginning 348' from DER, 42' right of centerline, up to 2208' MSL.
 Pole, vehicles on road beginning 503' from DER, 434' right of centerline, up to 2218' MSL.
 Pole, sign, vehicles on road, flag pole, fence beginning 592' from DER, 277' right of centerline, up to 37' AGL/2234' MSL.
 Signs, parking lot, vehicles on road, building, pole, tree beginning 844' from DER, 266' right of centerline, up to 41' AGL/2240' MSL.
 Tower, fence, vehicles on road, sign beginning 961' from DER, 175' right of centerline, up to 41' AGL/2243' MSL.
 T-L tower, vehicles on road, railroad, pole, railroad crossing signal control box, parking lot beginning 1132' from DER, 8' right of centerline, up to 47' AGL/2249' MSL.
 Railroad 1219' from DER, 701' left of centerline, 2222' MSL.
 Railroad 1230' from DER, 656' left of centerline, 2223' MSL.
 Railroad 1240' from DER, 585' left of centerline, 2224' MSL.
 Railroad 1246' from DER, 448' left of centerline, 2225' MSL.
 Railroad, pole beginning 1247' from DER, 76' left of centerline, up to 2226' MSL.
 Poles, tree, vehicles on road, sign beginning 1392' from DER, 15' left of centerline, up to 36' AGL/2238' MSL.
 Poles, tree, parking lot, building beginning 1726' from DER, 11' right of centerline, up to 2254' MSL.
 Pole, tree beginning 1823' from DER, 78' left of centerline, up to 34' AGL/2242' MSL.
 Pole 1933' from DER, 313' left of centerline, 34' AGL/2243' MSL.
 Pole, tree beginning 1935' from DER, 12' left of centerline, up to 36' AGL/2245' MSL.
 Pole, tree beginning 2036' from DER, 5' left of centerline, up to 35' AGL/2246' MSL.
 Poles, building, tree beginning 2043' from DER, 221' right of centerline, up to 2255' MSL.
 Pole, tree beginning 2133' from DER, 19' left of centerline, up to 36' AGL/2247' MSL.
 Tree, poles, sign, building beginning 2146' from DER, 14' right of centerline, up to 2259' MSL.
 Pole, building, tree beginning 2234' from DER, 12' left of centerline, up to 35' AGL/2249' MSL.
 Pole, tree beginning 2335' from DER, 88' left of centerline, up to 36' AGL/2250' MSL.
 Sign, tree, poles, building beginning 2381' from DER, 37' left of centerline, up to 41' AGL/2257' MSL.
 Pole, buildings, tree beginning 2496' from DER, 5' right of centerline, up to 2274' MSL.
 Building beginning 2739' from DER, 196' right of centerline, up to 57' AGL/2279' MSL.
 Building, tree beginning 2766' from DER, 73' right of centerline, up to 57' AGL/2280' MSL.
 Building beginning 2767' from DER, 44' left of centerline, up to 36' AGL/2258' MSL.
 Building, tree beginning 2822' from DER, 68' right of centerline, up to 58' AGL/2281' MSL.
 Building, tree beginning 2861' from DER, 126' right of centerline, up to 59' AGL/2282' MSL.
 Buildings, tree beginning 2893' from DER, 6' right of centerline, up to 2288' MSL.
 Building beginning 2895' from DER, 2' left of centerline, up to 39' AGL/2262' MSL.
 Buildings, tree building beginning 3032' from DER, 301' right of centerline, up to 61' AGL/2290' MSL.
 Buildings, tree, pole beginning 3076' from DER, 58' right of centerline, up to 61' AGL/2291' MSL.
 Buildings, sign, poles beginning 3459' from DER, 287' right of centerline, up to 74' AGL/2302' MSL.
 Building 3495' from DER, 53' left of centerline, 52' AGL/2278' MSL.
 Communication tower 5717' from DER, 156' left of centerline, 80' AGL/2327' MSL.
Rwy 26L, building 1002' from DER, 250' left of centerline, 6' AGL/2183' MSL.
 Railroad, pole beginning 1857' from DER, 793' left of centerline, up to 2215' MSL.
 Railroad 2068' from DER, 796' left of centerline, 2218' MSL.
 Pole, railroad beginning 2148' from DER, 800' left of centerline, up to 2221' MSL.
 Tree, railroad beginning 2376' from DER, 780' left of centerline, up to 2232' MSL.
 Tree, railroad beginning 2528' from DER, 751' left of centerline, up to 2233' MSL.
 Pole 2861' from DER, 811' left of centerline, 36' AGL/2238' MSL.
 Pole 3167' from DER, 1144' left of centerline, 34' AGL/2242' MSL.
 Pole 3171' from DER, 1091' left of centerline, 34' AGL/2243' MSL.
 Pole 3313' from DER, 1200' left of centerline, 35' AGL/2246' MSL.
 Sign, T-L tower beginning 3672' from DER, 145' left of centerline, up to 2256' MSL.
 Pole, building beginning 4223' from DER, 1389' left of centerline, up to 2274' MSL.
 Building 4554' from DER, 1593' left of centerline, 2277' MSL.
 Building 4687' from DER, 1685' left of centerline, 53' AGL/2279' MSL.
 Building 4719' from DER, 1754' left of centerline, 61' AGL/2290' MSL.
 Building 4954' from DER, 1694' left of centerline, 61' AGL/2291' MSL.
 Transmission tower 5469' from DER, 1056' left of centerline, 2297' MSL.
 Pole 5879' from DER, 1519' left of centerline, 2309' MSL.
 Pole 6019' from DER, 2022' right of centerline, 101' AGL/2309' MSL.
 Pole 1 NM from DER, 1720' left of centerline, 46' AGL/2311' MSL.
 Pole 1 NM from DER, 1922' left of centerline, 45' AGL/2311' MSL.
 Tower 1.1 NM from DER, 1843' left of centerline, 80' AGL/2332' MSL.
 Pole 1.8 NM from DER, 1817' left of centerline, 131' AGL/2435' MSL.
CON'T

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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LAS VEGAS, NV (CON'T) HARRY REID INTL (LAS) (CON'T)

Rwy 26R, NAVAIDs, building beginning 533' from DER, 367' left of centerline, up to 14' AGL/2206' MSL.
NAVAIDs beginning 533' from DER, on centerline, up to 5' AGL/2195' MSL.
Vehicles on road beginning 666' from DER, crossing left and right of centerline, up to 2208' MSL.
Pole 785' from DER, 592' left of centerline, 2218' MSL.
Pole, tree beginning 786' from DER, 8' left of centerline, up to 2220' MSL.
Trees beginning 821' from DER, 49' right of centerline, up to 25' AGL/2214' MSL.
Pole, sign, tree, building beginning 873' from DER, 347' left of centerline, up to 37' AGL/2234' MSL.
Trees beginning 952' from DER, 48' right of centerline, up to 2233' MSL.
Pole, tree, railroad beginning 1093' from DER, 531' left of centerline, up to 38' AGL/2237' MSL.
Trees beginning 1559' from DER, 555' right of centerline, up to 2259' MSL.
Tree, building, railroad beginning 1812' from DER, 191' left of centerline, up to 2246' MSL.
Building 2501' from DER, 881' left of centerline, 2254' MSL.
Poles beginning 3002' from DER, 543' left of centerline, up to 44' AGL/2271' MSL.
Poles beginning 3005' from DER, 743' left of centerline, up to 48' AGL/2277' MSL.
Pole 3116' from DER, 1022' right of centerline, 101' AGL/2309' MSL.
Sign 3339' from DER, 278' left of centerline, up to 2286' MSL.
Communication tower 4521' from DER, 704' right of centerline, 2332' MSL.
Sign 1.3 NM from DER, 2649' left of centerline, 80' AGL/2384' MSL.
Pole 1.5 NM from DER, 2801' left of centerline, 100' AGL/2444' MSL.
Pole 1.6 NM from DER, 2832' left of centerline, up to 100' AGL/2455' MSL.
Pole, communication tower beginning 1.7 NM from DER, 2068' left of centerline, up to 100' AGL/2463' MSL.
Pole 1.7 NM from DER, 2845' left of centerline, 135' AGL/2469' MSL.
Transmission tower 2.1 NM from DER, 3453' left of centerline, 134' AGL/2490' MSL.

LAS VEGAS, NV HENDERSON EXEC (HND)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES AMDT 1 22JUN17 (21112) (FAA)

TAKEOFF MINIMUMS:

Rwys 17L/R, std. w/min. climb of 491' per NM to 6000 or 2800-2% for VCOA.

Rwys 35L/R, std. w/min. climb of 312' per NM to 4700 or 2800-2% for VCOA.

DEPARTURE PROCEDURE:

Rwys 17L/R, climbing right turn on LAS R-157 to LAS VORTAC before proceeding on course.

Rwys 35 L/R, climbing right turn on BLD R-257 to BLD VORTAC before proceeding on course.
VCOA:

All **Rwys**, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Henderson Exec airport eastbound at or above 5100, then proceed on BLD R-249 TO BLD VORTAC before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 17L, terrain beginning 2427' from DER, 18' left of centerline, 2552' MSL.

Poles beginning 4256' from DER, 678' right of centerline, up to 2598' MSL.

Rwy 17R, bush 134' from DER, 314' right of centerline, 2498' MSL.

Fence 629' from DER, 75' right of centerline, 2510' MSL.

Terrain 928' from DER, 717' left of centerline, 2552' MSL.

Tank 1096' from DER, 311' right of centerline, 2533' MSL.

Vehicles on road beginning 1149' from DER, crossing centerline, up to 1159' MSL.

Poles beginning 2756' from DER, from 400' left to 698' right of centerline, up to 2764' MSL.

NORTH LAS VEGAS (VGT)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES AMDT 3A 08NOV18 (18312) (FAA)

DEPARTURE PROCEDURE: Use BOULDER CITY DEPARTURE.

TAKEOFF OBSTACLE NOTES:

Rwy 7, tower 1.1 NM from DER, 1044' right of centerline, 252' AGL/2348' MSL.

Rwy 12R, multiple towers 1.0 NM from DER, 850' right of centerline, up to 267' AGL/2368' MSL.

Tower 1.2 NM from DER, 1355' right of centerline, 270' AGL/2367' MSL.

Power lines 1122' from DER, 764' right of centerline, traversing to the southeast out to 2345' from DER, 510' right of centerline, 106' AGL/2344' MSL.

Rwy 12L, light pole 254' from DER, 462' right of centerline, 36' AGL/2159' MSL.

Trucks on road 255' from DER, 502' right of centerline, 15' AGL/2155' MSL.

Power line 1289' from DER, 663' right of centerline traversing to the Northeast out to 1576' from DER, 716' left of centerline, up to 129' AGL/2226' MSL.

Multiple towers 5045' from DER, 1551' right of centerline, 267' AGL/2368' MSL.

Rwy 25, light pole, 1447' from DER, 21' right of centerline, 35' AGL/2255' MSL.

Rwy 30L, signs, building, light pole beginning 1692' from DER, 236' left of centerline, up to 49' AGL/2271' MSL.

Multiple trees beginning 1785' from DER, 78' right of centerline, up to 57' AGL/2296' MSL.

Tree, multiple towers/antennas beginning 2745' from DER, 511' left of centerline, up to 84' AGL/2397' MSL.

Rwy 30R, antenna tower 4639' from DER, 1736' left of centerline, 84' AGL/2327' MSL.

Anemometer 552' from DER, 570' left of centerline, 34' AGL/2216' MSL.

Vent on building 1632' from DER, 566' right of centerline, 58' AGL/2240' MSL.

Antenna on hanger 2012' from DER, 195' right of centerline, 61' AGL/2247' MSL.

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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LOGAN, UT

LOGAN-CACHE (LGU)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 8 17DEC09 (09351) (FAA)

TAKEOFF MINIMUMS:

Rwys 10, 28, NA-obstacles.

DEPARTURE PROCEDURE:

Rwys 17, 35, use ORNEY DEPARTURE.

LOVELOCK, NV

DERBY FLD (LOL)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 03JAN19 (21280) (FAA)

TAKEOFF MINIMUMS:

Rwy 2, std. w/min. climb of 415' per NM to 8200 or 3200-3 for climb in visual conditions.**Rwys 8, 20**, std. w/min. climb of 340' per NM to 8200 or 3200-3 for climb in visual conditions.**Rwy 26**, std. w/min. climb of 400' per NM to 8200 or 3200-3 for climb in visual conditions.

DEPARTURE PROCEDURE:

Rwy 2, climb to 6500 then climbing left turn direct LLC VORTAC, thence...**Rwys 8, 20, 26**, climb to 5700 then climbing left turn direct LLC VORTAC, thence...

...Climb in LLC VORTAC holding pattern (north, left turn, 169° inbound) to depart LLC VORTAC at or above 8800, continue climb on course to MEA or assigned altitude.

VCOA:

Obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Derby Fld airport at or above 7000 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 2, vegetation 13' from DER, 141' right of centerline, 3908' MSL.

Sign 17' from DER, 199' left of centerline, 2' AGL/3909' MSL.

Vegetation 54' from DER, 155' right of centerline, 3909' MSL.

Tree 80' from DER, 347' right of centerline, 3912' MSL.

Rwy 8, vegetation beginning 56' from DER, 172' left of centerline, up to 3910' MSL.

Vegetation 147' from DER, 376' left of centerline, 3911' MSL.

Rwy 20, vegetation beginning 47' from DER, 112' left of centerline, up to 3910' MSL.**Rwy 26**, terrain 15' from DER, 170' right of centerline, 3905' MSL.

Vegetation 67' from DER, 239' left of centerline, 3906' MSL.

Tree 258' from DER, 531' left of centerline, 3917' MSL.

LUKE AFB (KLUF)

GLENDALE, AZ

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 6 30NOV23 (23334) (USAF)

TAKEOFF MINIMUMS:

Rwys 3L/R, std w/min climb of 228'/NM to 9400.

DEPARTURE PROCEDURE:

Rwys 3L/R, climb hdg 033° to LUF 4 DME, then climbing left turn on a hdg between 323° CW to 003° from DER.

Expect RADAR vectors on course from Luke RAPCON.

Rwys 21L/R, climb hdg 213° to LUF 8 DME, then climb on a hdg between 183° CW to 225° from DER.

Expect RADAR vectors on course from Luke RAPCON.

TAKEOFF OBSTACLE NOTES:

Rwy 3L, taxiing aircraft, 1421' from DER, 609' left of centerline, 19' AGL/1123' MSL.

Taxiing aircraft, 1235' from DER, 782' left of centerline, 19' AGL/1123' MSL.

Rwy 21L, taxiing aircraft, 1422' from DER, 775' left of centerline, 38' AGL/1117' MSL.

MANTI, UT

MANTI-EPHRAIM (41U)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 22JUN17 (17173) (FAA)

DEPARTURE PROCEDURE:

Rwy 3, Use YMONT DEPARTURE.**Rwy 21**, Use WUXOT DEPARTURE.

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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MARANA, AZ

MARANA RGNL(AVQ)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-A 22AUG13 (13234) (FAA)

TAKEOFF MINIMUMS:

Rwys 3, 12, N/A-Obstacles

DEPARTURE PROCEDURE:

Rwy 21, climb to 6500 via heading 360° and TUS R-308 to TOTEC INT/TUS 57 DME, then as filed.

Rwy 30, climb to 6500 via heading 303° intercept TUS R-308 above 3500, to TOTEC INT/TUS 57 DME, then as filed.

TAKEOFF OBSTACLE NOTES:

Rwy 21, road 53' from DER, 413' left of centerline, 15' AGL/2035' MSL.

Tree 800' from DER, 695' left of centerline, 32' AGL/2043' MSL.

Multiple trees and poles beginning 518' from DER, 190' right of centerline, up to 38' AGL/2049' MSL.

Rwy 30, multiple trees beginning 148' from DER, 275' right of centerline, up to 19' AGL/2020' MSL.

MESA, AZ

FALCON FLD (FFZ)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4 29JUL10 (21112) (FAA)

DEPARTURE PROCEDURE:

Use MESA DEPARTURE.

DIVERSE VECTOR AREA (RADAR VECTORS)

AMDT 1 07JAN16 (16007) (FAA)

Rwy 4L, heading as assigned by ATC; requires minimum climb of 480' per NM to 3800.

Rwy 4R, heading as assigned by ATC; requires minimum climb of 500' per NM to 3700.

Rwys 22L/R, heading as assigned by ATC.

MESQUITE, NV

MESQUITE (67L)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 13SEP18 (18256) (FAA)

TAKEOFF MINIMUMS:

Rwy 2, 300-2¼ or std. w/min. climb of 455' per NM to 2300.

DEPARTURE PROCEDURE:

Rwy 2, climb heading 018° to 2400 then climbing left turn direct MMM VORTAC, continue climb-in hold (hold S, left turn, 015° inbound) to 11000 before proceeding on course.

Rwy 20, climbing right turn direct MMM VORTAC, continue climb-in hold (hold S, left turn 015° inbound) to 11000 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 2, terrain beginning 41' from DER, 227' left of centerline, up to 1992' MSL.

Terrain beginning 83' from DER, 456' right of centerline, up to 2000' MSL.

Fence, terrain beginning 190' from DER, 211' right of centerline, up to 3' AGL/2005' MSL.

Terrain beginning 197' from DER, 213' left of centerline, up to 2006' MSL.

Terrain beginning 295' from DER, 222' right of centerline, up to 2006' MSL.

Terrain beginning 365' from DER, 225' left of centerline, up to 2019' MSL.

Fence beginning 491' from DER, 238' right of centerline, up to 3' AGL/2014' MSL.

Terrain 783' from DER, 496' left of centerline, 2026' MSL.

Terrain beginning 846' from DER, 254' left of centerline, up to 2031' MSL.

Terrain, fence beginning 971' from DER, 272' left of centerline, up to 2036' MSL.

Terrain, fence beginning 1176' from DER, 269' left of centerline, up to 2038' MSL.

Terrain beginning 1289' from DER, 411' left of centerline, up to 2043' MSL.

Terrain beginning 1426' from DER, 647' left of centerline, up to 2048' MSL.

Terrain beginning 2059' from DER, 909' left of centerline, up to 2059' MSL.

Terrain 2960' from DER, 1201' left of centerline, 2065' MSL.

Terrain beginning 3160' from DER, 139' right of centerline, up to 2098' MSL.

Terrain beginning 3268' from DER, 73' right of centerline, up to 2119' MSL.

Terrain beginning 3317' from DER, 334' left of centerline, up to 2084' MSL.

Terrain beginning 3424' from DER, 674' right of centerline, up to 2139' MSL.

Terrain 3429' from DER, 459' right of centerline, 2149' MSL.

Terrain beginning 3434' from DER, 109' left of centerline, up to 2102' MSL.

Terrain 3460' from DER, 387' right of centerline, 2152' MSL.

Terrain, vegetation beginning 3484' from DER, 10' right of centerline, up to 2156' MSL.

Terrain 3794' from DER, 751' left of centerline, 2110' MSL.

Terrain beginning 3794' from DER, 163' left of centerline, up to 2118' MSL.

Terrain beginning 3903' from DER, 952' left of centerline, up to 2122' MSL.

Terrain, vegetation beginning 3911' from DER, 119' left of centerline, up to 2199' MSL.

Terrain, vegetation beginning 4387' from DER, 10' left of centerline, up to 2204' MSL.

Terrain 1.5 NM from DER, 2409' left of centerline, 2216' MSL.

Vegetation 1.5 NM from DER, 2758' left of centerline, 2231' MSL.

Terrain beginning 1.5 NM from DER, 2618' left of centerline, up to 2257' MSL.

CONT

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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MESQUITE, NV

MESQUITE (67L)

Rwy 2 (CON'T), terrain beginning 1.5 NM from DER, 2769' left of centerline, up to 2259' MSL.
Terrain 1.7 NM from DER, 3138' left of centerline, 2244' MSL.
Rwy 20, lighting 1' from DER, 46' left of centerline, 2' AGL/1876' MSL.
Lighting 3' from DER, 89' right of centerline, 2' AGL/1876' MSL.
Traverse way 4' from DER, 355' right of centerline, 1878' MSL.
Transmission line 453' from DER, 308' left of centerline, 70' AGL/1888' MSL.

MICHAEL AAF (KDPG),

DUGWAY PROVING GROUND, UT

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 23AUG12 (12236)

DEPARTURE PROCEDURES:

Rwy 12, Climb heading 122° to 5700, then climbing right turn on a heading between 202° CW to 302° to 10,000 before proceeding on course.
Rwy 30, Climbing left turn on a heading between 267° CW to 300° to 10,000 before proceeding on course.

MILFORD, UT

MILFORD MUNI/BEN AND JUDY BRISCOE FLD (MLF)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 05APR12 (21112) (FAA)

TAKEOFF MINIMUMS:

Rwy 34, std. w/min. climb of 487' per NM to 6500 or 1500-3 for climb in visual conditions.

DEPARTURE PROCEDURE:

Rwy 16, climb direct MLF VORTAC, thence...

...aircraft departing on V235 or V21 southbound proceed on course.

...all other aircraft climb to 11000 on MLF VORTAC R-168, then right turn direct MLF VORTAC. Continue climb-in-hold, right turns, 348° inbound to cross MLF VORTAC at or above MEA/MCA for route of flight.

Rwy 34, climbing left turn to intercept MLF VORTAC R-310 to MLF VORTAC, thence...

...aircraft departing on V235 or V21 southbound; proceed on course.

...all other aircraft, climb-in-hold, MLF VORTAC, right turns, 348° inbound to cross MLF VORTAC at or above MEA/MCA for route of flight.

...or climb in visual conditions to cross Milford Muni/Ben and Judy Briscoe Fld airport southbound at or above 6400, then climb on MLF VORTAC R-345 to MLF VORTAC. Aircraft departing on V235 and V21 southbound; proceed on course. All other aircraft climb to 11000 on MLF VORTAC R-168, then, right turn direct MLF VORTAC. Continue climb in-hold, right turns, 348° inbound to cross MLF VORTAC at or above MEA/MCA for route of flight.

TAKEOFF OBSTACLE NOTES:

Rwy 16, trees beginning 440' from DER, 332' right of centerline, up to 100' AGL/5159' MSL.

Trees beginning 4912' from DER, 1451' right of centerline, up to 100' AGL/5179' MSL.

Rwy 34, vehicles on roadway 231' from DER, across centerline, up to 15' AGL/5054' MSL.

Trees beginning 3177' from DER, 508' left of centerline, up to 100' AGL/5119' MSL.

MINDEN, NV

MINDEN-TAHOE (MEV)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 15DEC11 (11349) (FAA)

TAKEOFF MINIMUMS:

Rwys 12, 16, 30, NA - Obstacles.

DEPARTURE PROCEDURE:

Rwy 34, use MINDEN (RNAV) DEPARTURE.

MOAB, UT

CANYONLANDS RGNL (CNY)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4 03JAN19 (21056) (FAA)

TAKEOFF MINIMUMS:

Rwys 15, 33, NA - Runway Surface.

Rwy 3, std. w/ min. climb of 405' per NM to 6100 or 5000-3 for VCOA.

Rwy 21, std. w/ min. climb of 456' per NM to 6100 or 5000-3 for VCOA.

DEPARTURE PROCEDURE:

Rwy 3, climbing left turn to 6700 on OAB R-298, thence...

Rwy 21, climbing right turn to 6700 on OAB R-298, thence...

...Climbing right turn to 10000 direct OAB VOR/DME. Continue climb in holding to 10000 at OAB VOR/DME (northwest, left turn, 118° inbound) before proceeding on course.

VCOA:

Rwys 3, 21, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Canyonlands Field at or above 9400 before proceeding on course.

CON'T

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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MOAB, UT (CON'T)

CANYONLANDS RGNL (CNY) (CON'T)

TAKEOFF OBSTACLE NOTES:

- Rwy 3**, terrain 46' from DER, 484' right of centerline, 4559' MSL.
- Tree 63' from DER, 481' left of centerline, 4564' MSL.
- Tree 86' from DER, 509' left of centerline, 4565' MSL.
- Electrical system 135' from DER, 529' right of centerline, 34' AGL/4595' MSL.
- Transmission line 1108' from DER, 589' right of centerline, 51' AGL/4596' MSL.
- Transmission line 1786' from DER, 606' left of centerline, 50' AGL/4603' MSL.
- Terrain 1.5 NM from DER, 1600' right of centerline, 4827' MSL.
- Terrain 2.5 NM from DER, 1185' left of centerline, 4990' MSL.
- Rwy 21**, bush beginning 60' from DER, 79' left of centerline, up to 10' AGL/4581' MSL.
- Bush beginning 132' from DER, 65' right of centerline, up to 10' AGL/4597' MSL.
- Pole 1658' from DER, 128' left of centerline, 85' AGL/4625' MSL.
- Pole 1710' from DER, 319' right of centerline, 4602' MSL.
- Pole 1827' from DER, 831' right of centerline, 4623' MSL.
- Bush 1.5 NM from DER, 2256' left of centerline, 10' AGL/4797' MSL.
- Bush beginning 1.9 NM from DER, 3289' right of centerline, up to 4868' MSL.
- Terrain 1.9 NM from DER, 2742' right of centerline, 4899' MSL.
- Traverse way beginning 2 NM from DER, 39' left of centerline, up to 10' AGL/4984' MSL.
- Traverse way beginning 2.1 NM from DER, 297' left of centerline, up to 10' AGL/4994' MSL.
- Trees beginning 2.1 NM from DER, 91' left of centerline, up to 10' AGL/5014' MSL.

MONTICELLO, UT

MONTICELLO (U64)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 15JUN23 (23166) (FAA)

TAKEOFF MINIMUMS:

- Rwy 16**, std. w/min. climb of 240' per NM to 14700 or 4800-5 for VCOA.
- Rwy 34**, std. w/min. climb of 260' per NM to 14700 or 4800-5 for VCOA.

DEPARTURE PROCEDURE:

- Rwy 16**, climb on a heading between 002° CW to 166°.
- Rwy 34**, climb on a heading between 301° CW to 142°.

VCOA:

All runways, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Monticello airport at or above 11600 before proceeding on course.

NELLIS AFB (KLSV)

LAS VEGAS, NV

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 6 10AUG23 (23222) (USAF)

TAKEOFF MINIMUMS:

- Rwy 3L**, 2700-3 SR-SS or std. w/min. climb of 304'/NM to 4000.
- Rwy 3R**, 2900-3 SR-SS or std. w/min. climb of 263'/NM to 5000.
- Rwys 21L/R**, 10100-3 SR-SS or std. w/min. climb of 380'/NM (Mil)/415'/NM (Civ) to 13,300.

DEPARTURE PROCEDURE:

- Rwys 3L/R**, climb hdg 040°, expect RADAR vectors passing 5400' MSL from RAPCON.
- Rwys 21L/R**, climb on hdg between 210° CW to 285° from DER.

TAKEOFF OBSTACLE NOTES:

- Rwy 21L**, trees 1387' from DER, 744' left of centerline, 49' AGL/1871' MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)

AMDT 3 10AUG23 (23222) (USAF)

Rwys 3L/R, NA-Terrain.

Rwys 21L/R, hdg as assigned by ATC; requires min. climb of 296'/NM (Mil)/314'/NM (Civ) until 12,000.

NEPHI, UT

NEPHI MUNI (U14)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 20OCT11 (11293) (FAA)

DEPARTURE PROCEDURE:

Use NEPHI DEPARTURE.

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

NOGALES, AZ

NOGALES INTL (OLS)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 08NOV18 (18312) (FAA)

TAKEOFF MINIMUMS:

Use NOGALES DEPARTURE.

TAKEOFF OBSTACLE NOTES:

Rwy 3, tree 58' from DER, 455' left of centerline, 3963' MSL.
 Trees 80' from DER, 174' right of centerline, 6' AGL/3958' MSL.
 Trees beginning 97' from DER, 446' left of centerline, up to 15' AGL/3964' MSL.
 Tree 252' from DER, 43' right of centerline, 5' AGL/3962' MSL.
 Tree 261' from DER, 463' left of centerline, 3971' MSL.
 Trees beginning 308' from DER, 37' right of centerline, up to 9' AGL/3964' MSL.
 Trees, fence beginning 334' from DER, 136' left of centerline, up to 3987' MSL.
 Trees beginning 368' from DER, 64' right of centerline, up to 3991' MSL.
 Tree, terrain beginning 603' from DER, 546' right of centerline, up to 3993' MSL.
 Trees, fence, terrain beginning 659' from DER, 13' left of centerline, up to 3995' MSL.
 Trees, terrain, fence beginning 833' from DER, 103' right of centerline, up to 4010' MSL.
 Trees, terrain beginning 1179' from DER, 118' left of centerline, up to 5' AGL/3996' MSL.
 Trees, terrain beginning 1199' from DER, 97' right of centerline, up to 4036' MSL.
 Trees, terrain beginning 1241' from DER, 66' left of centerline, up to 4018' MSL.
 Trees, terrain beginning 1412' from DER, 90' right of centerline, up to 4043' MSL.
 Traverse way, terrain beginning 1624' from DER, 642' left of centerline, up to 4028' MSL.
 Terrain beginning 1637' from DER, 2' right of centerline, up to 4052' MSL.
 Trees, traverse way, terrain beginning 1688' from DER, 45' left of centerline, up to 4035' MSL.
 Terrain beginning 1825' from DER, 38' right of centerline, up to 4067' MSL.
 Pole, traverse way, trees beginning 1853' from DER, 475' left of centerline, up to 21' AGL/4043' MSL.
 Terrain 2033' from DER, 186' left of centerline, 4047' MSL.
 Trees, traverse way, terrain beginning 2041' from DER, 74' left of centerline, up to 7' AGL/4052' MSL.
 Terrain 2221' from DER, 269' left of centerline, 4055' MSL.
 Tree, traverse way, terrain beginning 2253' from DER, 170' left of centerline, up to 18' AGL/4080' MSL.
 Terrain beginning 2354' from DER, 20' right of centerline, up to 4068' MSL.
 Trees, traverse way, pole, terrain beginning 2491' from DER, 55' left of centerline, up to 14' AGL/4093' MSL.
 Terrain beginning 2539' from DER, 125' right of centerline, up to 4087' MSL.
 Traverse way 2657' from DER, 32' left of centerline, 15' AGL/4095' MSL.
 Traverse way, trees, terrain beginning 2672' from DER, 6' left of centerline, up to 15' AGL/4096' MSL.
 Traverse way, terrain beginning 2688' from DER, 2' right of centerline, up to 15' AGL/4096' MSL.
 Terrain, traverse way beginning 2768' from DER, 98' right of centerline, up to 4112' MSL.
 Traverse way 2987' from DER, 530' right of centerline, 4117' MSL.
 Traverse way 2995' from DER, 635' right of centerline, 4121' MSL.
 Traverse way, terrain beginning 3009' from DER, 489' right of centerline, up to 4123' MSL.
 Tree, traverse way, terrain beginning 3351' from DER, 12' right of centerline, up to 4130' MSL.
 Traverse way, terrain beginning 3449' from DER, 633' right of centerline, up to 4143' MSL.
 Traverse way 3499' from DER, 1364' right of centerline, 4149' MSL.
 Traverse way, terrain, vegetation beginning 3570' from DER, 101' right of centerline, up to 4155' MSL.
 Tree, terrain beginning 3581' from DER, 42' left of centerline, up to 4112' MSL.
 Terrain beginning 4127' from DER, 627' right of centerline, up to 4156' MSL.
 Tree, terrain beginning 4143' from DER, 768' right of centerline, up to 4180' MSL.
 Trees, terrain beginning 4262' from DER, 426' right of centerline, up to 4184' MSL.
 Tree, terrain beginning 4495' from DER, 709' right of centerline, up to 4210' MSL.
 Terrain beginning 4627' from DER, 1171' right of centerline, up to 4217' MSL.
 Tree, terrain beginning 4737' from DER, 216' right of centerline, up to 4223' MSL.
 Tree, terrain beginning 5806' from DER, 409' right of centerline, up to 4241' MSL.
 Trees, terrain beginning 5953' from DER, 420' right of centerline, up to 4254' MSL.
 Trees, terrain beginning 1 NM from DER, 58' right of centerline, up to 4256' MSL.
 Trees, terrain beginning 1 NM from DER, 1260' left of centerline, up to 4136' MSL.
 Trees, terrain beginning 1.1 NM from DER, 442' left of centerline, up to 4151' MSL.
 Pole, trees, terrain beginning 1.2 NM from DER, 164' left of centerline, up to 16' AGL/4221' MSL.
 Trees, terrain beginning 1.3 NM from DER, 84' left of centerline, up to 4254' MSL.
 Trees, terrain beginning 1.4 NM from DER, 58' right of centerline, up to 11' AGL/4326' MSL.
 Trees, terrain beginning 1.4 NM from DER, 25' left of centerline, up to 11' AGL/4283' MSL.
 Trees, terrain beginning 1.5 NM from DER, 79' right of centerline, up to 11' AGL/4327' MSL.
 Trees, terrain beginning 1.7 NM from DER, 639' right of centerline, up to 4345' MSL.
 Trees, terrain beginning 1.8 NM from DER, 172' right of centerline, up to 4367' MSL.
 Trees, terrain beginning 1.9 NM from DER, 628' right of centerline, up to 4384' MSL.
 Terrain, traverse way, trees beginning 2 NM from DER, 935' right of centerline, up to 4406' MSL.
 Terrain 2.1 NM from DER, 616' left of centerline, 4299' MSL.
 Trees, terrain, traverse way beginning 2.2 NM from DER, 1859' right of centerline, up to 4451' MSL.
 Trees, traverse way, terrain beginning 2.2 NM from DER, 234' left of centerline, up to 4359' MSL.
 Trees, terrain, traverse way beginning 2.3 NM from DER, 835' right of centerline, up to 14' AGL/4535' MSL.
Rwy 21, tree 3' from DER, 445' left of centerline, 3847' MSL.
 Tree 19' from DER, 141' left of centerline, 10' AGL/3848' MSL.
 Tree 29' from DER, 339' left of centerline, 3849' MSL.
 Tree, vegetation beginning 45' from DER, 201' left of centerline, up to 17' AGL/3851' MSL.
 Tree 48' from DER, 504' right of centerline, 3845' MSL.
 Trees, vegetation beginning 112' from DER, 49' right of centerline, up to 24' AGL/3854' MSL.

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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**TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND
DIVERSE VECTOR AREA (RADAR VECTORS)**


24025

OGDEN, UT**OGDEN-HINCKLEY (OGD)****TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES**

AMDT 2B 28FEB19 (23054) (FAA)

DEPARTURE PROCEDURE:

Use EMONT DEPARTURE.

TAKEOFF OBSTACLE NOTES:**Rwy 3**, NAV/AID, vehicle on road beginning 195' from DER, 267' right of centerline, up to 17' AGL/4426' MSL.

Pole 241' from DER, 535' left of centerline, 39' AGL/4447' MSL.

Pole 348' from DER, 582' right of centerline, 41' AGL/4451' MSL.

Trees, building beginning 375' from DER, 62' left of centerline, up to 4451' MSL.

Tree, pole beginning 430' from DER, 502' right of centerline, up to 4455' MSL.

Rwy 21, tree 702' from DER, 649' left of centerline, 4492' MSL.

Tree 1133' from DER, 701' left of centerline, 4513' MSL.

Trees, building, pole beginning 2074' from DER, 792' left of centerline, up to 4570' MSL.

Tree 3429' from DER, 421' right of centerline, 4561' MSL.

Rwy 35, tree 209' from DER, 185' left of centerline, 4446' MSL.

Tree 243' from DER, 233' left of centerline, 4447' MSL.

Trees beginning 292' from DER, 87' right of centerline, up to 4454' MSL.

Tree 686' from DER, 397' right of centerline, 4479' MSL.

OWYHEE, NV**OWYHEE (10U)****TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES**

ORIG 17JUN21 (23054) (FAA)

TAKEOFF MINIMUMS:**Rwy 5**, std. w/min. climb of 495' per NM to 9000, or 3200-3 for VCOA.**Rwy 23**, std. w/min. climb of 395' per NM to 10100, or 3200-3 for VCOA.**VCOA:****All runways**, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Owyhee airport at or above 8400 before proceeding on course.**TAKEOFF OBSTACLE NOTES:****Rwy 5**, fence 11' from DER, 440' right of centerline, 4' AGL/5367' MSL.

Fence beginning 94' from DER, 319' left of centerline, up to 7' AGL/5372' MSL.

Rwy 23, fence 17' from DER, 319' right of centerline, 7' AGL/5380' MSL.

Fence beginning 91' from DER, 399' left of centerline, up to 6' AGL/5382' MSL.

Fence 119' from DER, 319' right of centerline, 5381' MSL.

PAGE, AZ**PAGE MUNI (PGA)****TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES**

AMDT 2A 21JUL16 (16203) (FAA)

TAKEOFF MINIMUMS:**Rwys 7, 25**, NA – obstacles.**Rwy 15**, std. w/ min. climb of 285' per NM to 6500, or 3100-3 for climb in visual conditions.**DEPARTURE PROCEDURE:****Rwy 33**, Climb heading 336° to 6000, then climbing left turn direct PGA VOR/DME, thence...**Rwy 15**, Climb heading 156° to 6200, then climbing right turn direct PGA VOR/DME, thence...

...cross PGA VOR/DME at or above 7700. Continue climb in PGA VOR/DME holding pattern (hold nw, right turns 147° inbound) to cross PGA VOR/DME at or above MEA/MCA for direction of flight.

VCOA:**Rwy 15**, obtain ATC approval for climb in visual conditions when requesting IFR clearance. Climb in visual conditions to cross Page Muni airport at or above 7300 before proceeding on course.**TAKEOFF OBSTACLE NOTES:****Rwy 15**, rising terrain 192' from DER, 272' right of centerline, 4323' MSL.

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**TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND
DIVERSE VECTOR AREA (RADAR VECTORS)**


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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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PANGUITCH, UT

PANGUITCH MUNI (U55)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 02JUN11 (11153) (FAA)

TAKEOFF MINIMUMS:

Rwy 18, std. w/min. climb of 350' per NM to 9200 or 2200-3 for climb in visual conditions.

Rwy 36, std. w/min. climb of 450' per NM to 9500 or 2200-3 for climb in visual conditions.

DEPARTURE PROCEDURE:

Rwy 18, climb heading 185° to 9200 then left turn to intercept BCE VORTAC R-274, continue climb to 12000 to BCE VORTAC, or for climb in visual conditions: cross Panguitch Muni Airport southeast bound at or above 8800' MSL then via BCE R-320 to BCE VORTAC thence ...

Rwy 36, climb heading 005° to 9500 then left turn to intercept BCE VORTAC R-323 (V257), continue climb to 12000 to BCE VORTAC, or for climb in visual conditions: cross Panguitch Muni Airport southeast bound at or above 8800' MSL then via BCE R-320 to BCE VORTAC thence...

...continue climb in BCE VORTAC holding pattern (hold southwest, right turn, 045° inbound) to cross BCE VORTAC at or above MEA for route of flight.

TAKEOFF OBSTACLE NOTES:

Rwy 36, terrain 64' from DER, 426' right of centerline, 6775' MSL.

Terrain 426' from DER, 565' right of centerline, 6779' MSL.

Rwy 18, terrain beginning 114' from DER, 306' left of centerline, 6758' MSL.

Terrain 26' from DER, 229' left of centerline 6756' MSL.

Terrain 388' from DER, 91' left of centerline 6766' MSL.

Terrain 316' from DER, 321' left of centerline 6766' MSL.

PARKER, AZ

AVI SUQUILLA (P20)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 05OCT23 (23278) (FAA)

TAKEOFF MINIMUMS:

Rwy 2, std w/min climb of 275'/NM to 2700, or 1800-3 for VCOA.

Rwy 20, std w/min climb of 243'/NM to 2700, or 1800-3 for VCOA.

DEPARTURE PROCEDURE:

Rwy 2, climb on heading 016° to 1400 then climbing right turn direct PKE VORTAC.

Rwy 20, climb heading 196° to 1500 then climbing left turn direct PKE VORTAC.

VCOA:

All runways, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Avi Suquilla airport southwest bound at or above 2100 before proceeding direct PKE VORTAC.

TAKEOFF OBSTACLE NOTES:

Rwy 2, trees beginning 94' from DER, 214' right of centerline, up to 20' AGL/463' MSL.

Tree 477' from DER, 307' right of centerline, 20' AGL/480' MSL.

Rwy 20, trees beginning 1' from DER, 178' right of centerline, up to 20' AGL/463' MSL.

Tree 50' from DER, 274' left of centerline, 20' AGL/460' MSL.

Tree 161' from DER, 47' left of centerline, 20' AGL/463' MSL.

PAYSON, AZ

PAYSON (PAN)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1A 15NOV12 (12320) (FAA)

TAKEOFF MINIMUMS:

Rwy 6, std. w/ min. climb of 360' per NM to 9300, or 2500-3 for climb in visual conditions.

Rwy 24, std. w/ min. climb of 375' per NM to 9300, or 2500-3 for climb in visual conditions.

DEPARTURE PROCEDURE:

Rwys 6, 24, for climb in visual conditions: Cross Payson Airport at or above 7500 MSL before proceeding on course. When executing VCOA, notify ATC prior to departure.

TAKEOFF OBSTACLE NOTES:

Rwy 6, tree 197' from DER, 118' right of centerline, up to 12' AGL/5170' MSL.

Bush 83' from DER, 99' right of centerline, up to 3' AGL/5161' MSL.

Rwy 24, bush 15' from DER, 133' right of centerline, 6' AGL/5148' MSL.

Tree 320' from DER, 183' right of centerline, 12' AGL/5154' MSL.

Fence 85' from DER, 84' left of centerline, 4' AGL/5141' MSL.

Tree 164' from DER, 126' left of centerline, 9' AGL/5147' MSL.

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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PHOENIX, AZ

PHOENIX DEER VALLEY (DVT)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 7 23FEB23 (23054) (FAA)

DEPARTURE PROCEDURE:

Use DEER VALLEY DEPARTURE.

TAKEOFF OBSTACLE NOTES:

Rwy 7L, general utility, vertical point beginning 30' from DER, 120' right of centerline, up to 3' AGL/1479' MSL.

Vertical point 33' from DER, 125' left of centerline, 2' AGL/1479' MSL.

Sign 89' from DER, 160' left of centerline, 3' AGL/1480' MSL.

Pole, NAVAID beginning 340' from DER, 315' right of centerline, up to 13' AGL/1488' MSL.

Tree 665' from DER, 537' left of centerline, 1498' MSL.

Trees beginning 746' from DER, 499' left of centerline, up to 1499' MSL.

Tree 913' from DER, 338' left of centerline, 1502' MSL.

Tree 3574' from DER, 381' left of centerline, 13' AGL/1569' MSL.

Terrain 3610' from DER, 165' left of centerline, 1579' MSL.

Terrain, tree beginning 3611' from DER, 253' left of centerline, up to 1587' MSL.

Vegetation 3686' from DER, 38' right of centerline, 3' AGL/1570' MSL.

Trees beginning 3693' from DER, 380' left of centerline, up to 10' AGL/1602' MSL.

Terrain, tree, vegetation beginning 3713' from DER, 9' left of centerline, up to 1624' MSL.

Trees beginning 3824' from DER, 0' right of centerline, up to 1596' MSL.

Tree, terrain beginning 1 NM from DER, 1748' left of centerline, up to 1670' MSL.

Tree, vegetation beginning 1 NM from DER, 1461' left of centerline, up to 1683' MSL.

Tree, vegetation beginning 1 NM from DER, 1319' left of centerline, up to 1708' MSL.

Vegetation, tree beginning 1.4 NM from DER, 2084' left of centerline, up to 1732' MSL.

Trees beginning 1.4 NM from DER, 2485' left of centerline, up to 1765' MSL.

Trees beginning 1.5 NM from DER, 2240' left of centerline, up to 1772' MSL.

Trees, vegetation beginning 1.5 NM from DER, 1971' left of centerline, up to 1810' MSL.

Terrain 1.5 NM from DER, 2961' left of centerline, 1821' MSL.

Tree 1.5 NM from DER, 2620' left of centerline, 1831' MSL.

Trees beginning 1.5 NM from DER, 1869' left of centerline, up to 1845' MSL.

Tree, vegetation beginning 1.5 NM from DER, 1835' left of centerline, up to 1882' MSL.

Vegetation 1.5 NM from DER, 2796' left of centerline, 1900' MSL.

Trees beginning 1.5 NM from DER, 2043' left of centerline, up to 1926' MSL.

Tree, terrain beginning 1.5 NM from DER, 1816' left of centerline, up to 24' AGL/1930' MSL.

Tree, terrain, fence beginning 1.5 NM from DER, 2059' left of centerline, up to 19' AGL/1943' MSL.

Antenna 1.5 nm from DER, 2150' left of centerline, 18' AGL/1955' MSL.

Pole, vegetation, tree, terrain beginning 1.5 NM from DER, 1810' left of centerline, up to 24' AGL/1956' MSL.

Rwy 7R, lighting 42' from DER, 484' left of centerline, 1' AGL/1482' MSL.

Vegetation 146' from DER, 515' left of centerline, 1483' MSL.

Tree 393' from DER, 602' left of centerline, 1488' MSL.

Tree, pole beginning 513' from DER, 499' right of centerline, up to 1498' MSL.

Tree 557' from DER, 266' left of centerline, 1494' MSL.

Pole 848' from DER, 503' right of centerline, 24' AGL/1507' MSL.

Building 930' from DER, 712' right of centerline, 1510' MSL.

Terrain 990' from DER, 359' right of centerline, 1514' MSL.

Vertical structure 1027' from DER, 602' left of centerline, 1518' MSL.

Pole 1028' from DER, 601' left of centerline, 39' AGL/1526' MSL.

Pole, vegetation, tree beginning 1031' from DER, 384' right of centerline, up to 28' AGL/1536' MSL.

Pole 1137' from DER, 548' left of centerline, 43' AGL/1530' MSL.

Pole, tree beginning 1149' from DER, 707' left of centerline, up to 48' AGL/1536' MSL.

Trees beginning 1845' from DER, 878' right of centerline, up to 1558' MSL.

Trees beginning 1935' from DER, 762' left of centerline, up to 14' AGL/1542' MSL.

Trees beginning 1950' from DER, 924' right of centerline, up to 1578' MSL.

Tree, vegetation beginning 1953' from DER, 660' left of centerline, up to 12' AGL/1554' MSL.

Terrain 2041' from DER, 865' left of centerline, 1579' MSL.

Terrain, vegetation, tree beginning 2043' from DER, 422' left of centerline, up to 1587' MSL.

Pole, terrain beginning 2136' from DER, 796' left of centerline, up to 30' AGL/1645' MSL.

Antenna 2165' from DER, 821' left of centerline, 21' AGL/1657' MSL.

Pole, tree, terrain, vegetation beginning 2166' from DER, 504' left of centerline, up to 38' AGL/1660' MSL.

Tree 1.1 NM from DER, 2239' right of centerline, 1662' MSL.

Tree, pole, transmission line, traverse way beginning 1.1 NM from DER, 2058' right of centerline, up to 1706' MSL.

Tree 1.2 NM from DER, 2336' right of centerline, 1720' MSL.

Tree, terrain beginning 1.2 NM from DER, 2417' right of centerline, up to 1725' MSL.

Tree 1.2 NM from DER, 2497' left of centerline, 1669' MSL.

Tree 1.2 NM from DER, 2389' left of centerline, 1675' MSL.

Vegetation beginning 1.2 NM from DER, 2441' left of centerline, up to 1733' MSL.

Tree, vegetation beginning 1.3 nm from DER, 2409' left of centerline, up to 1764' MSL.

Tree, terrain beginning 1.3 NM from DER, 2435' left of centerline, up to 1827' MSL.

Vegetation 1.3 NM from DER, 2757' left of centerline, 1706' MSL.

Rwy 25L, tree, fence beginning 19' from DER, 498' right of centerline, up to 1455' MSL.

Tree 37' from DER, 505' left of centerline, 1461' MSL.

Tree, building beginning 195' from DER, 505' left of centerline, up to 31' AGL/1465' MSL.

Tree, building beginning 304' from DER, 506' right of centerline, up to 1469' MSL.

Tree 421' from DER, 498' right of centerline, 1470' MSL.

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

PHOENIX, AZ (CON'T)

PHOENIX DEER VALLEY (DVT) (CON'T)

Rwy 25L (CON'T), tree, building, antenna, pole beginning 542' from DER, 502' right of centerline, up to 39' AGL/1475' MSL.
Tree, building, pole beginning 630' from DER, 505' left of centerline, up to 1467' MSL.
Pole 1070' from DER, 375' left of centerline, 1468' MSL.

Poles beginning 1077' from DER, 374' left of centerline, up to 39' AGL/1470' MSL.

Pole 1126' from DER, 498' right of centerline, 44' AGL/1478' MSL.

Poles beginning 1183' from DER, 495' left of centerline, up to 41' AGL/1471' MSL.

Signs beginning 1234' from DER, 356' left of centerline, up to 48' AGL/1478' MSL.

Rwy 25R, lighting 30' from DER, 114' left of centerline, 3' AGL/1456' MSL.

Lighting, general utility beginning 30' from DER, 112' right of centerline, up to 2' AGL/1456' MSL.

General utility 31' from DER, 112' left of centerline, 4' AGL/1457' MSL.

Tree 1139' from DER, 798' right of centerline, 1490' MSL.

Terrain 1.3 NM from DER, 2396' right of centerline, 1686' MSL.

Vegetation, tree beginning 1.3 NM from DER, 2270' right of centerline, up to 1697' MSL.

Pole, traverse way beginning 1.3 NM from DER, 1847' right of centerline, up to 30' AGL/1713' MSL.

Antenna 1.3 NM from DER, 2640' right of centerline, 57' AGL/1732' MSL.

Tower, tree, pole, vegetation beginning 1.3 NM from DER, 2073' right of centerline, up to 66' AGL/1741' MSL.

Antenna, tower, traverse way, tree beginning 1.4 NM from DER, 2749' right of centerline, up to 91' AGL/1769' MSL.

Tree 1.6 NM from DER, 3023' right of centerline, 25' AGL/1700' MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)

ORIG 13NOV14 (14317) (FAA)

Rwys 25L, 25R, heading as assigned by ATC; requires minimum climb of 370' per NM to 4600.

PHOENIX SKY HARBOR INTL (PHX)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 6 18SEP14 (14261) (FAA)

TAKEOFF MINIMUMS:

Rwy 26, 600-2¼ or std. w/min. climb of 326' per NM to 1900.

DEPARTURE PROCEDURE:

Rwys 7L, 7R, 8, climb heading 078° to 3000, then climbing right turn direct PXR VORTAC.

Rwys 25L, 25R, climb heading 258° to 1900 then climbing right turn to join PXR R-260 (V16) westbound, climb to 5000.

Rwy 26, climb heading 258° to 1550, then join PXR R-260 (V16) westbound, climb to 5000. Westbound departures continue climb on PXR R-260. All others, climbing right turn direct PXR VORTAC.

TAKEOFF OBSTACLE NOTES:

Rwy 7R, transmission towers and power lines, 3201' from DER, 1122' right of centerline, up to 131' AGL/1260' MSL.

Rwy 8, multiple light poles, beginning 2539' from DER, 900' left of centerline, up to 82' AGL/1234' MSL.

Light pole, 1639' from DER, 793' right of centerline, 46' AGL/1177' MSL.

Rwy 25L, multiple light poles, beginning 681' from DER, 521' left of centerline, up to 63' AGL/1166' MSL.

Sign, 902' from DER, 711' left of centerline, 64' AGL/1170' MSL.

Multiple light poles, beginning 1519' from DER, 535' left of centerline, up to 99' AGL/1201' MSL.

Multiple light poles, beginning 1919' from DER, 598' left of centerline, up to 90' AGL/1192' MSL.

Rwy 26, pole, 42' from DER, 440' left of centerline, 26' AGL/1135' MSL.

Fence, 176' from DER, 547' left of centerline, 11' AGL/1120' MSL.

Pole, 315' from DER, 499' left of centerline, 11' AGL/1120' MSL.

Tree, 763' from DER, 642' left of centerline, 24' AGL/1135' MSL.

Pole, 1959' from DER, 923' left of centerline, 59' AGL/1163' MSL.

Pole, 2312' from DER, 318' left of centerline, 66' AGL/1169' MSL.

Pole, 2336' from DER, 578' left of centerline, 67' AGL/1170' MSL.

Pole, 78' from DER, 456' right of centerline, 32' AGL/1142' MSL.

Pole, 82' from DER, 64' right of centerline, 18' AGL/1127' MSL.

Tree, 118' from DER, 294' right of centerline, 22' AGL/1133' MSL.

Tree, 239' from DER, 214' right of centerline, 22' AGL/1133' MSL.

Tree, 414' from DER, 522' right of centerline, 24' AGL/1135' MSL.

Sign, 520' from DER, 567' right of centerline, 16' AGL/1125' MSL.

Pole, 2301' from DER, 193' right of centerline, 69' AGL/1171' MSL.

Pole, 2302' from DER, 661' right of centerline, 68' AGL/1171' MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)

AMDT 2 13NOV14 (14317) (FAA)

Rwys 7L, 7R, 8, heading as assigned by ATC.

Rwy 25L, heading as assigned by ATC; requires minimum climb of 305' per NM to 6000.

Rwy 25R, heading as assigned by ATC; requires minimum climb of 325' per NM to 6000.

Rwy 26, heading as assigned by ATC; requires minimum climb of 300' per NM to 6000.

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

SW-4

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

PHOENIX, AZ (CON'T)

PHOENIX-MESA GATEWAY (IWA)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 24MAY18 (18144) (FAA)

DEPARTURE PROCEDURE:

Use PHOENIX DEPARTURE.

TAKEOFF OBSTACLE NOTES:

Rwy 30L/C/R, trees beginning 351' from DER, 351' left of centerline, up to 20' AGL/1,359' MSL.

Trees beginning 689' from DER, 398' right of centerline, up to 20' AGL/1,359' MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)

AMDT 1 20AUG15 (15232) (FAA)

Rwys 12L, 12C, 12R, as assigned by ATC; requires minimum climb of 250' per NM to 3100.**Rwys 30L, 30C, 30R**, heading as assigned by ATC.

PRESCOTT, AZ

PRESCOTT RGNL - ERNEST A LOVE FLD (PRC)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 5A 20JUN19 (21224) (FAA)

DEPARTURE PROCEDURE:

Use PRESCOTT DEPARTURE.

TAKEOFF OBSTACLE NOTES:

Rwy 3L, lighting 8' from DER, 19' right of centerline, 1' AGL/4939' MSL.

Sign 15' from DER, 126' left of centerline, 3' AGL/4939' MSL.

Tree 20' from DER, 408' left of centerline, 4949' MSL.

Tree 184' from DER, 404' left of centerline, 4951' MSL.

Rwy 12, tree 4' from DER, 323' right of centerline, 5066' MSL.

Buildings, lighting, sign beginning 9' from DER, 122' left of centerline, up to 31' AGL/5057' MSL.

Tree, utility pole, sign, terrain beginning 19' from DER, 65' right of centerline, up to 28' AGL/5086' MSL.

Terrain, trees, building, lighting beginning 24' from DER, 111' left of centerline, up to 46' AGL/5062' MSL.

Terrain, road beginning 196' from DER, 317' left of centerline, up to 5069' MSL.

Trees beginning 302' from DER, 361' left of centerline, up to 45' AGL/5083' MSL.

Tower, road, trees, pole beginning 426' from DER, 267' left of centerline, up to 46' AGL/5092' MSL.

Terrain, trees beginning 2.1 NM from DER, 2368' right of centerline, up to 56' AGL/5656' MSL.

Rwy 21R, sign, terrain beginning 11' from DER, 82' left of centerline, up to 2' AGL/4977' MSL.

Sign, trees, road, building, electrical system, pole, tank beginning 11' from DER, 19' right of centerline, up to 50' AGL/5024' MSL.

MSL.

Trees beginning 90' from DER, 70' left of centerline, up to 50' AGL/5041' MSL.

Trees, poles, building beginning 752' from DER, 22' right of centerline, up to 50' AGL/5031' MSL.

Tree, pole beginning 940' from DER, 3' left of centerline, up to 50' AGL/5044' MSL.

Trees, poles, building beginning 980' from DER, 22' right of centerline, up to 50' AGL/5044' MSL.

Fence, trees, poles, road, building, stack, tank beginning 1207' from DER, 35' right of centerline, up to 57' AGL/5054' MSL.

Trees, poles beginning 1561' from DER, left and right of centerline, up to 50' AGL/5064' MSL.

Trees beginning 1954' from DER, 129' left of centerline, 50' AGL/5064' MSL.

Trees beginning 2325' from DER, left and right of centerline, up to 50' AGL/5080' MSL.

Trees beginning 2615' from DER, 140' left of centerline, up to 50' AGL/5077' MSL.

Building, trees beginning 2718' from DER, 35' right of centerline, up to 50' AGL/5093' MSL.

Trees, pole beginning 3134' from DER, 128' left of centerline, up to 50' AGL/5090' MSL.

Trees, beginning 3442' from DER, 24' right of centerline, up to 50' AGL/5103' MSL.

Trees beginning 3527' from DER, 175' left of centerline, up to 50' AGL/5103' MSL.

Antenna, building, trees beginning 3772' from DER, left and right of centerline, up to 90' AGL/5116' MSL.

Trees beginning 4194' from DER, 145' right of centerline, up to 5113' MSL.

Trees beginning 4759' from DER, left and right of centerline, up to 75' AGL/5117' MSL.

Trees beginning 5180' from DER, 15' right of centerline, 70' AGL/5119' MSL.

Trees beginning 5408' from DER, 743' right of centerline, up to 50' AGL/5126' MSL.

Rwy 21L, lighting, fence beginning 30' from DER, 336' left of centerline, up to 7' AGL/5042' MSL.

Road, fence, tree beginning 111' from DER, 469' left of centerline, up to 5051' MSL.

Road, fence beginning 300' from DER, 455' left of centerline, up to 5056' MSL.

Wind indicator, pole, tree, roads beginning 402' from DER, 269' right of centerline, up to 5076' MSL.

Tree, fence, roads, lighting, pole, sign, NAVAID, building beginning 614' from DER, 41' left of centerline, up to 5113' MSL.

Trees, road beginning 782' from DER, 528' right of centerline, up to 47' AGL/5089' MSL.

Trees, road, pole, fence, electrical system, building, lighting, antenna beginning 971' from DER, 2' right of centerline, up to 70' AGL/5117' MSL.

Trees beginning 1779' from DER, 108' left of centerline, up to 71' AGL/5116' MSL.

Rwy 30, buildings, sign, poles beginning 28' from DER, 127' left of centerline, up to 25' AGL/5041' MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)

ORIG-A 20JUN19 (19171) (FAA)

Rwys 3L/R, heading as assigned by ATC.**Rwy 12**, heading as assigned by ATC; requires min. climb of 370' per NM to 7700.**Rwys 21L/R**, heading as assigned by ATC; requires min. climb of 390' per NM to 8300.**Rwy 30**, heading as assigned by ATC.

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

PRICE, UT

CARBON COUNTY RGNL/BUCK DAVIS FLD (PUC)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 5 05MAR15 (21280) (FAA)

TAKEOFF MINIMUMS:

Rwy 1, std. w/min. climb of 400' per NM to 6800 or 3300-3 for climb in visual conditions.

Rwy 8, NA-Obstacles.

Rwy 33, std. w/min. climb of 370' per NM to 6700 or 3300-3 for climb in visual conditions.

DEPARTURE PROCEDURE:

Rwy 1, climb to 6400 then climbing right turn on a heading between 144° CW to 187°, maintain 210 KIAS until completion of turn, thence . . .

Rwy 15, climb on a heading between 129° CW to 196°, thence . . .

Rwy 19, climb on a heading between 195° CCW to 128°, thence . . .

Rwy 26, climb on a heading between 179° CCW to 127°, thence . . .

Rwy 33, climb to 6300 then climbing left turn on a heading between 178° CCW to 148°, thence . . .

. . . continue climb to assigned altitude for direction of flight.

VCOA:

Rwys 1, 33, obtain ATC approval for climb in visual conditions when requesting IFR clearance. Climb in visual conditions to cross Carbon County Rgnl/Buck Davis Fld airport at or above 9100 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 1, multiple trees and poles beginning 164' from DER, left and right of centerline, up to 64' AGL/6207' MSL.

PROVO, UT

PROVO MUNI (PVU)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 6 30SEP04 (04274) (FAA)

DEPARTURE PROCEDURE:

Use PROVO DEPARTURE.

RENO, NV

RENO/STEAD (RTS)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3A 02JUL09 (09183) (FAA)

TAKEOFF MINIMUMS:

CAT A, B only, CAT C, D NA.

Rwys 8, 14, 1300-2 or std. with a min. climb of 400' per NM to 6500.

Rwy 26, 1900-2 or std. with a min. climb of 410' per NM to 7200.

Rwy 32, 2300-2 or std. with a min. climb of 420' per NM to 7200.

DEPARTURE PROCEDURE:

Rwys 8, 32, climbing right turn heading 100° and FMG VORTAC R-314 to FMG VORTAC.

Rwy 14, left turn climb direct FMG VORTAC.

Rwy 26, climbing right turn heading 050° and FMG VORTAC R-314 to FMG VORTAC.

All aircraft climb in FMG VORTAC holding pattern (NE, right turns, 221° inbound) to depart FMG VORTAC; R-260 CW R-170 at or above 10000; R-171 CW R-195 at or above 10500; R-196 CW R-259 at or above 12000.

RENO/TAHOE INTL (RNO)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 5 29DEC22 (22363) (FAA)

DEPARTURE PROCEDURE:

Use SPARKS DEPARTURE.

TAKEOFF OBSTACLE NOTES:

Rwy 17L, building 78' from DER, 262' left of centerline, 8' AGL/4413' MSL.

Antenna 130' from DER, 379' right of centerline, 41' AGL/4444' MSL.

Tree 719' from DER, 555' left of centerline, 4434' MSL.

Tree 1055' from DER, 132' left of centerline, 4435' MSL.

Pole 1108' from DER, 487' left of centerline, 34' AGL/4445' MSL.

Pole, building beginning 1331' from DER, 458' left of centerline, up to 34' AGL/4446' MSL.

Pole 1428' from DER, 229' left of centerline, 36' AGL/4449' MSL.

Tree 1843' from DER, 132' left of centerline, 4456' MSL.

Tree 1879' from DER, 126' left of centerline, 4466' MSL.

Tower 2389' from DER, 975' left of centerline, 55' AGL/4469' MSL.

Tower 2747' from DER, 853' left of centerline, 66' AGL/4482' MSL.

Terrain 4845' from DER, 1693' left of centerline, 4546' MSL.

Terrain 5161' from DER, 1451' left of centerline, 4547' MSL.

Terrain beginning 5253' from DER, 1698' left of centerline, up to 4776' MSL.

Terrain 5470' from DER, 1838' left of centerline, 4846' MSL.

Terrain beginning 5524' from DER, 1371' left of centerline, up to 4919' MSL.

Terrain beginning 5702' from DER, 1691' left of centerline, up to 4926' MSL.

Terrain beginning 5874' from DER, 1768' left of centerline, up to 4953' MSL.

Terrain 1 NM from DER, 1981' left of centerline, 4837' MSL.

Rwy 17R, lighting 10' from DER, 85' left of centerline, 1' AGL/4415' MSL.

Lighting 10' from DER, 85' right of centerline, 1' AGL/4415' MSL.

CON'T

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

RENO, NV (CON'T)

RENO/TAHOE INTL (RNO) (CON'T)

Rwy 17R (CON'T), tree 746' from DER, 379' left of centerline, 4435' MSL.
 Trees beginning 1156' from DER, 772' left of centerline, up to 4456' MSL.
 Tree 1306' from DER, 840' left of centerline, 4457' MSL.
 Trees beginning 1409' from DER, 818' left of centerline, up to 4466' MSL.
 Trees beginning 1593' from DER, 658' left of centerline, up to 4474' MSL.
 Tree 1873' from DER, 936' left of centerline, 4475' MSL.
 Tree 2164' from DER, 653' left of centerline, 4478' MSL.
 Trees beginning 2783' from DER, 172' right of centerline, up to 4501' MSL.
 Tree 3135' from DER, 590' right of centerline, 4507' MSL.
 Tree 3285' from DER, 504' right of centerline, 4510' MSL.
Rwy 26, lighting 9' from DER, 54' left of centerline, 1' AGL/4410' MSL.
 Lighting 10' from DER, 54' right of centerline, 1' AGL/4410' MSL.
 Pole 119' from DER, 464' left of centerline, 32' AGL/4440' MSL.
 Pole, transmission line, fence beginning 142' from DER, 270' right of centerline, up to 30' AGL/4438' MSL.
 Pole 499' from DER, 466' left of centerline, 39' AGL/4452' MSL.
 Pole 1274' from DER, 469' left of centerline, 39' AGL/4458' MSL.
 Pole 1369' from DER, 387' right of centerline, 27' AGL/4447' MSL.
 Sign 1501' from DER, 206' right of centerline, 30' AGL/4448' MSL.
 Tree 1618' from DER, 42' right of centerline, 4473' MSL.
 Signs, trees beginning 1656' from DER, 66' left of centerline, up to 59' AGL/4482' MSL.
 Tree 1663' from DER, 15' right of centerline, 4475' MSL.
 Trees beginning 1664' from DER, 16' right of centerline, up to 4484' MSL.
 Tree 1878' from DER, 28' left of centerline, 4483' MSL.
 Trees beginning 1913' from DER, 162' left of centerline, up to 4484' MSL.
 Trees beginning 1916' from DER, 20' left of centerline, up to 4487' MSL.
 Trees beginning 2053' from DER, 25' left of centerline, up to 4497' MSL.
 Tree 2099' from DER, 206' right of centerline, 4490' MSL.
 Trees beginning 2102' from DER, 12' right of centerline, up to 4493' MSL.
 Trees beginning 2255' from DER, 45' right of centerline, up to 4500' MSL.
 Trees beginning 2268' from DER, 5' left of centerline, up to 4506' MSL.
 Pole, tree beginning 2635' from DER, 114' right of centerline, up to 100' AGL/4527' MSL.
 Antenna 3413' from DER, 298' left of centerline, 80' AGL/4514' MSL.
Rwy 35L, lighting 10' from DER, 85' left of centerline, 2' AGL/4416' MSL.
 Lighting 10' from DER, 86' right of centerline, 2' AGL/4416' MSL.
 Sign 40' from DER, 437' right of centerline, 4' AGL/4417' MSL.
 Lighting 999' from DER, on centerline, 22' AGL/4440' MSL.
 Antenna 1029' from DER, 49' left of centerline, 22' AGL/4441' MSL.
 Antenna 1029' from DER, 49' right of centerline, 23' AGL/4441' MSL.
 Pole 1176' from DER, 629' right of centerline, 32' AGL/4451' MSL.
 Tree 1193' from DER, 400' left of centerline, 4454' MSL.
 Trees beginning 1216' from DER, 227' left of centerline, up to 4476' MSL.
 Tree 1229' from DER, 349' right of centerline, 4458' MSL.
 Trees beginning 1267' from DER, 207' right of centerline, up to 4465' MSL.
 Tree 1974' from DER, 898' right of centerline, 4469' MSL.
 Tree 2326' from DER, 938' right of centerline, 4473' MSL.
 Tree 2350' from DER, 885' right of centerline, 4474' MSL.
 Trees beginning 2489' from DER, 178' right of centerline, up to 4493' MSL.
 Trees, poles beginning 2528' from DER, 16' right of centerline, up to 4498' MSL.
 Trees beginning 2789' from DER, 69' left of centerline, up to 4490' MSL.
 Trees beginning 2877' from DER, 292' left of centerline, up to 4492' MSL.
Rwy 35R, sign 40' from DER, 262' left of centerline, 4' AGL/4417' MSL.
 Building 87' from DER, 272' right of centerline, 7' AGL/4420' MSL.
 Lighting 999' from DER, 699' left of centerline, 22' AGL/4440' MSL.
 Antennas beginning 1028' from DER, 649' left of centerline, up to 22' AGL/4441' MSL.
 Poles beginning 1066' from DER, 165' right of centerline, up to 40' AGL/4458' MSL.
 Pole 1176' from DER, 70' left of centerline, 32' AGL/4451' MSL.
 Tree 1229' from DER, 349' left of centerline, 4458' MSL.
 Tree 1267' from DER, 492' left of centerline, 4465' MSL.
 Trees beginning 1711' from DER, 255' right of centerline, up to 4466' MSL.
 Tree 1973' from DER, 198' right of centerline, 4469' MSL.
 Trees beginning 1991' from DER, 186' right of centerline, up to 4491' MSL.
 Trees, pole beginning 2489' from DER, 361' right of centerline, up to 4493' MSL.
 Tree 2505' from DER, 520' left of centerline, 4480' MSL.
 Trees, pole beginning 2528' from DER, 201' left of centerline, up to 4498' MSL.
 Pole 2815' from DER, 531' right of centerline, 82' AGL/4497' MSL.

RICHFIELD, UT

RICHFIELD MUNI (RIF)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 05JUN08 (08157) (FAA)

DEPARTURE PROCEDURE:

Rwy 1, use RICHFIELD (RNAV) DEPARTURE.

Rwy 19, use HAMET (RNAV) DEPARTURE.

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

SW-4

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

ROOSEVELT, UT

ROOSEVELT MUNI (74V)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMD T 2 10NOV16 (16315) (FAA)

TAKEOFF MINIMUMS:

Rwy 7, std.

Rwy 25, std. w/min. climb of 300' per NM to 6100 or 1300-3 for VCOA.

DEPARTURE PROCEDURE:

Rwy 7, turn right.

Rwy 25, turn left.

All aircraft, climb direct MTU VOR/DME. Aircraft departing MTU VOR/DME R-040 CW R-150, climb on course. All others continue climb in MTU holding pattern (NE, right turns, 213° inbound) to cross MTU VOR/DME; R-151 CW R-290 at or above 8000; R-291 CW R-039 at or above 10000. Then climb on course.

VCOA:

Rwy 25, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Roosevelt Muni airport southbound at or above 6300 on MTU R-010 to MTU VOR/DME, continue climb in hold (NE, right turns, 213° inbound) to MEA for direction of flight.

TAKEOFF OBSTACLE NOTES:

Rwy 7, NAVAID 38' from DER, 110' left of centerline, 5' AGL/5111' MSL.

Vehicles on road beginning 76' from DER, 250' left of centerline, up to 15' AGL/5122' MSL.

Rwy 25, NAVAID 39' from DER, 112' left of centerline, 2' AGL/5177' MSL.

Tree 95' from DER, 384' left of centerline, 9' AGL/5179' MSL.

Trees beginning 180' from DER, 403' left and right of centerline, up to 22' AGL/5192' MSL.

Tree, building, vehicle on road, pole beginning 5668' from DER, 1461' right of centerline, up to 45' AGL/5345' MSL.

Trees, poles, buildings, vehicle on road beginning 1 NM from DER, 1031' right of centerline, up to 100' AGL/5410' MSL.

Tree, vehicle on road, terrain beginning 1.2 NM from DER, 1904' right of centerline, up to 16' AGL/5416' MSL.

Poles, tree, vehicle on road beginning 1.3 NM from DER, 1915' right of centerline, up to 56' AGL/5426' MSL.

Trees beginning 1.5 NM from DER, 1553' right of centerline, up to 55' AGL/5485' MSL.

Trees beginning 1.8 NM from DER, 1871' right of centerline, up to 53' AGL/5493' MSL.

Tree 1.9 NM from DER, 1987' right of centerline, 20' AGL/5483' MSL.

SAFFORD, AZ

SAFFORD RGNL (SAD)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMD T 1 29JUL10 (10210) (FAA)

TAKEOFF MINIMUMS:

Rwys 8, 26, NA - Airspace.

DEPARTURE PROCEDURE:

Rwys 12, 30, use SAFFORD RNAV DEPARTURE.

ST. GEORGE, UT

ST GEORGE RGNL (SGU)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-A 26MAY16 (16147) (FAA)

DEPARTURE PROCEDURE:

Use JITKA DEPARTURE.

ST JOHNS, AZ

ST JOHNS INDUSTRIAL AIR PARK (SJN)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMD T 1B 10NOV16 (23110) (FAA)

TAKEOFF MINIMUMS:

Rwy 21, 700-2¾ or std. w/min. climb of 378' per NM to 6600.

DEPARTURE PROCEDURE:

Rwys 3, 32, climbing right turn.

Rwys 14, 21, climbing left turn.

All aircraft, climb direct SJN VORTAC. Aircraft departing SJN VORTAC R-240 CW to R-080 climb on course. All others continue climb in SJN VORTAC holding pattern (hold NE, right turns, 239° inbound) to cross SJN VORTAC at or above 9000.

CON'T

22 FEB 2024 to 21 MAR 2024

22 FEB 2024 to 21 MAR 2024

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

SW-4

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

ST JOHNS, AZ (CON'T)

ST JOHNS INDUSTRIAL AIR PARK (SJN) (CON'T)

TAKEOFF OBSTACLE NOTES:

Rwy 3, sign 15' from DER, 125' left of centerline, 3' AGL/5736' MSL.

Rwy 14, vehicle on road 1' from DER, 113' right of centerline, up to 15' AGL/5750' MSL.

Tree, fence, post, obstruction light on building, ant on building and transmission line tower beginning 27' from DER, 94' left of centerline, up to 5780' MSL.

Airport beacon lighted, tower, pole, windsock, building, obstruction light on building, light pole, transmission light tower and tree, beginning 58' from DER, 88' right of centerline, up to 57' AGL/5793' MSL.

Vehicle on road 67' from DER, crossing centerline, 15' AGL/5752' MSL.

Trees and poles beginning 515' from DER, 73' left of centerline, up to 76' AGL/5784' MSL.

Vehicle on road 559' from DER, crossing centerline, 15' AGL/5762' MSL.

Rwy 32, vehicle on road and generator utility beginning 34' from DER, 3' right of centerline, up to 15' AGL/5745' MSL.

Generator utility 40' from DER, 79' left of centerline, 10' AGL/5736' MSL.

Vehicle on road 102' from DER, crossing centerline, 15' AGL/5741' MSL.

Buildings beginning 201' from DER, 327' left of centerline up to 5743' MSL.

Pole 307' from DER, 570' left of centerline, up to 30' AGL/5757' MSL.

Rwy 21, tree and fence 15' from DER, 248' left of centerline, 5767' MSL.

Trees and buildings beginning 23' from DER, 276' right of centerline, up to 5798' MSL.

Trees beginning 92' from DER, 27' left of centerline, up to 5778' MSL.

Fence beginning 208' from DER, crossing centerline, up to 5738' MSL.

Vehicles on road 265' from DER, crossing centerline, 15' AGL/5756' MSL.

Trees, buildings, signs and poles beginning 285' from DER, 2' right of centerline, up to 5781' MSL.

Trees, buildings, signs and poles beginning 597' from DER, 3' left of centerline, up to 5780' MSL.

Trees, buildings and poles beginning 808' from DER, 10' right of centerline, up to 5833' MSL.

Trees, buildings and poles beginning 867' from DER, 3' left of centerline, up to 5788' MSL.

Trees beginning 1257' from DER, 20' left of centerline, up to 5816' MSL.

Buildings, poles and trees beginning 3704' from DER, 662' right of centerline, up to 5914' MSL.

Poles beginning 3491' from DER, 1293' left of centerline, up to 5872' MSL.

Communications tower 2.2 NM from DER, 1415' left of centerline, 199' AGL/6356' MSL.

Pole 2.2 NM from DER, 1467' left of centerline, 31' AGL/6133' MSL.

SALT LAKE CITY, UT

SALT LAKE CITY INTL (SLC)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 11A 17AUG17 (17229) (FAA)

TAKEOFF MINIMUMS:

Rwy 32, 400-1 or std. w/ min. climb of 498' per NM to 4700.

DEPARTURE PROCEDURE:

Rwy 14, climb to 10000 on heading 192° and FFU R-341 to FFU VORTAC before proceeding on course.

Rwy 16R, climb to 10000 on heading 164° and FFU R-341 to FFU VORTAC before proceeding on course.

Rwy 16L, climb to 10000 on heading 164° and FFU R-341 to FFU VORTAC before proceeding on course.

Rwy 17, climb to 10000 on heading 169° and FFU R-341 to FFU VORTAC before proceeding on course.

Rwy 32, climb to 9000 on heading 002° and OGD R-153 to OGD VORTAC before proceeding on course.

Rwy 34L, climb to 9000 on heading 344° and OGD R-153 to OGD VORTAC before proceeding on course.

Rwy 35, climb to 9000 on heading 339° and OGD R-153 to OGD VORTAC before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 14, antenna 1349' from DER, 544' left of centerline, 42' AGL/4263' MSL.

Rwy 16L, vehicle on road 124' from DER, 14' right of centerline, 15' AGL/4239' MSL.

Light pole 988' from DER, 726' right of centerline, 34' AGL/4254' MSL.

Pole 1024' from DER, 689' right of centerline, 34' AGL/4254' MSL.

Rwy 17, vehicles on road beginning 335' from DER, on centerline, up to 17' AGL/4241' MSL.

Rwy 32, ATC tower 5,266' from DER, 1767' left of centerline, 335' AGL/4549' MSL.

Crane 5196' from DER, 1630' left of centerline, 240' AGL/4463' MSL.

Flag on OL 5,153' from DER, 1619' left of centerline, 249' AGL/4463' MSL.

Aircraft beginning 969' from DER, 722' left of centerline, up to 79' AGL/4306' MSL.

Rwy 34R, post 13' from DER, 349' right of centerline, 3' AGL/4227' MSL.

Rwy 35, post 56' from DER, 249' left of centerline, 2' AGL/4220' MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)

AMDT 1 14SEP17 (17257)

Rwys 14, 16L/R, 17, 34L/R, 35, heading as assigned by ATC.

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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SW-4

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

SALT LAKE CITY, UT (CON'T)

SOUTH VALLEY RGNL (U42)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 6 01FEB18 (18032) (FAA)

TAKEOFF MINIMUMS:

Rwy 16, std. w/ min. climb of 300' per NM to 10700.

Rwy 34, std. w/ min. climb of 330' per NM to 9000.

DEPARTURE PROCEDURE:

Rwy 16, climbing left turn to 10700 on FFU VORTAC R-341 to FFU VORTAC, continue climb in FFU VORTAC holding pattern (hold S, right turn, 008° inbound) to cross FFU VORTAC at or above MEA/MCA for route of flight.

Rwy 34, climbing right turn to 9000 on TCH VORTAC R-161 to TCH VORTAC, continue climb in TCH VORTAC holding pattern (hold NW, right turn, 120° inbound) to cross TCH VORTAC at or above MEA/MCA for route of flight.

TAKEOFF OBSTACLE NOTES:

Rwy 16, NAVAID abeam DER, 99' right of centerline, 4602' MSL.

Terrain, sign beginning 34' from DER, 207' right of centerline, up to 4606' MSL.

Vehicle on road 83' from DER, 252' left of centerline, 4611' MSL.

Vehicle on road 171' from DER, 132' left of centerline, 4614' MSL.

Pole 551' from DER, 631' right of centerline, 15' AGL/4626' MSL.

Vehicle on road, vegetation beginning 672' from DER, 490' right of centerline, up to 4629' MSL.

Pole 1000' from DER, 638' right of centerline, 4638' MSL.

Pole 1008' from DER, 466' right of centerline, 31' AGL/4640' MSL.

Pole beginning 1092' from DER, 687' right of centerline, up to 31' AGL/4644' MSL.

Rwy 34, NAVAID 10' from DER, 96' left of centerline, 4606' MSL.

NAVAID 10' from DER, 94' right of centerline, 4604' MSL.

Terrain 58' from DER, 424' left of centerline, 4608' MSL.

SCOTTSDALE, AZ

SCOTTSDALE (SDL)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 9 24MAY18 (18144) (FAA)

DEPARTURE PROCEDURE: Use MARICOPA DEPARTURE.

TAKEOFF OBSTACLE NOTES:

Rwy 3, multiple light standards beginning 63' from DER, 445' left of centerline, up to 44' AGL/1,554 MSL.

Hoist on dike 878' from DER, 735' left of centerline, 51' AGL/1,561' MSL.

Dike beginning 1,066' from DER, 316' left of centerline, 38' AGL/1548' MSL.

Day marker on dike, 1,230' from DER, 5' left of centerline, 39' AGL/1,549' MSL.

Tree 765' from DER, 115' left of centerline, 22' AGL/1,532' MSL.

Road beginning 647' from DER, 296' left of centerline, 19' AGL/1,529' MSL.

Fence beginning 5' from DER, 338' right of centerline, 6' AGL/1,511' MSL.

Light standard 1,013' from DER, 430' right of centerline, 44' AGL/1,552' MSL.

Rwy 21, trees 1,072' from DER, 426' right of centerline, 53' AGL/1,497' MSL.

Building 316' from DER, 537' right of centerline, 23' AGL/1,467' MSL.

Tree 2,087' from DER, 418' left of centerline, 61' AGL/1,505' MSL.

Tree 1,432' from DER, 438' right of centerline, 38' AGL/1,482' MSL.

Tree 2,234' from DER, 559' left of centerline, 58' AGL/1,502' MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)

AMDT 1 13NOV14 (14317) (FAA)

Rwy 3, heading as assigned by ATC; requires minimum climb of 445' per NM to 4600.

Rwy 21, heading as assigned by ATC; do not exceed 210 KTS until established on assigned heading.

SEDONA, AZ

SEDONA (SEZ)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 15JUN23 (23166) (FAA)

TAKEOFF MINIMUMS:

Rwy 3, NA-Obstacles.

DEPARTURE PROCEDURE:

Rwy 21, use BYTER (RNAV) DEPARTURE.

TAKEOFF OBSTACLE NOTES:

Rwy 21, trees, terrain, light poles, vegetation and fence beginning from DER, 94' left of centerline, up to 12' AGL/4758' MSL.

Light poles 9' from DER, 93' right of centerline, 4' AGL/4737' MSL.

Vegetation 16' from DER, 173' right of centerline, 4738' MSL.

Vegetation, trees, fence beginning 19' from DER, 144' left of centerline, up to 4760' MSL.

Pole and vegetation beginning 31' from DER, 130' right of centerline, up to 21' AGL/4743' MSL.

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

SHOW LOW, AZ

SHOW LOW RGNL (SOW)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 19JUL18 (22139) (FAA)

DEPARTURE PROCEDURE:

Rwy 4, climbing left turn heading 360° to 7800 before proceeding on course.

Rwy 7, climbing left turn heading 360° to 8100 before proceeding on course.

Rwy 22, climbing right turn heading 255° to 7700 before proceeding on course.

Rwy 25, climb on heading 246° to 7600 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 4, sign, building, fence, pole beginning 44' from DER, 183' right of centerline, up to 6' AGL/6406' MSL.

Tree 88' from DER, 488' left of centerline, 6411' MSL.

Trees beginning 185' from DER, 428' left of centerline, up to 6417' MSL.

Pole 240' from DER, 222' right of centerline, 16' AGL/6411' MSL.

Rwy 7, general utility 39' from DER, 92' right of centerline, 19' AGL/6402' MSL.

General utility 40' from DER, 88' left of centerline, 20' AGL/6402' MSL.

Rwy 22, tree 94' from DER, 197' left of centerline, 6424' MSL.

Trees beginning 133' from DER, 87' right of centerline, up to 6420' MSL.

Pole 397' from DER, 141' left of centerline, 23' AGL/6426' MSL.

Pole 469' from DER, 166' left of centerline, 27' AGL/6430' MSL.

Building 677' from DER, 423' left of centerline, 24' AGL/6433' MSL.

Elevator, tank, pole beginning 1191' from DER, 5' left of centerline, up to 63' AGL/6496' MSL.

Rwy 25, pole 10' from DER, 29' right of centerline, 18' AGL/6401' MSL.

Pole 640' from DER, 310' right of centerline, 6418' MSL.

Pole 644' from DER, 307' right of centerline, 37' AGL/6419' MSL.

Pole beginning 704' from DER, 677' left of centerline, up to 53' AGL/6437' MSL.

Pole, catenary beginning 726' from DER, 3' left of centerline, up to 54' AGL/6438' MSL.

Pole 763' from DER, 158' right of centerline, 47' AGL/6430' MSL.

Pole 763' from DER, 159' right of centerline, 49' AGL/6432' MSL.

Pole, catenary beginning 764' from DER, 77' right of centerline, up to 54' AGL/6437' MSL.

Pole beginning 842' from DER, 317' right of centerline, up to 57' AGL/6438' MSL.

SILVER SPRINGS, NV

SILVER SPRINGS (SPZ)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-A 04NOV21 (21308) (FAA)

TAKEOFF MINIMUMS:

Rwy 24, 2900-3 for VCOA.

DEPARTURE PROCEDURE:

Rwy 6, climb heading 056° to intercept HZN R-220 to 8000. Continue climb in HZN VORTAC holding pattern (hold northeast, rt, 211° inbound) to cross HZN VORTAC at or above MEA for route of flight.

VCOA:

Rwy 24, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Silver Springs airport at or above 7000, then proceed on HZN VORTAC R-220 to 8000 to HZN VORTAC.

TAKEOFF OBSTACLE NOTES:

Rwy 6, windsock, sign beginning 29' from DER, 204' left of centerline, up to 23' AGL/4235' MSL.

Rwy 24, terrain 52' from DER, 495' right of centerline, 4267' MSL.

Pole, transmission line beginning 2258' from DER, 938' right of centerline, up to 33' AGL/4324' MSL.

Transmission line, pole beginning 2277' from DER, 883' right of centerline, up to 38' AGL/4328' MSL.

SPANISH FORK, UT

SPANISH FORK MUNI/WOODHOUSE FLD (SPK)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 03JAN19 (21112) (FAA)

DEPARTURE PROCEDURE:

Use SPANISH FORK DEPARTURE.

TAKEOFF OBSTACLE NOTES:

Rwy 12, lighting 10' from DER, 29' left of centerline, 2' AGL/4530' MSL.

Fence 60' from DER, 481' right of centerline, 4535' MSL.

Building 198' from DER, 449' right of centerline, 12' AGL/4541' MSL.

Sign, building beginning 297' from DER, 461' right of centerline, up to 4552' MSL.

Building 1023' from DER, 600' right of centerline, 4555' MSL.

Tree 1031' from DER, 651' left of centerline, 4563' MSL.

Tree, building beginning 1140' from DER, 503' left of centerline, up to 4565' MSL.

Building 1173' from DER, 560' right of centerline, 4559' MSL.

Building 1434' from DER, 855' right of centerline, 4572' MSL.

Tree 1514' from DER, 742' left of centerline, 4568' MSL.

Pole 1818' from DER, 352' right of centerline, 4576' MSL.

Pole beginning 3232' from DER, 1134' right of centerline, up to 4621' MSL.

Pole, sign beginning 3499' from DER, 801' left of centerline, up to 106' AGL/4673' MSL.

Electrical system 3922' from DER, 628' right of centerline, 4637' MSL.

Pole 4450' from DER, 893' right of centerline, 4649' MSL.

Pole 4709' from DER, 1365' right of centerline, 4662' MSL.

CON'T

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

SW-4

22 FEB 2024 to 21 MAR 2024

22 FEB 2024 to 21 MAR 2024

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

SPANISH FORK, UT (CON'T)

SPANISH FORK MUNI/WOODHOUSE FLD (SPK) (CON'T)

Rwy 12 (CON'T), pole 5162' from DER, 1194' right of centerline, 4664' MSL.

Pole 2 NM from DER, 3639' left of centerline, 4853' MSL.

Rwy 30, lighting 9' from DER, 29' right of centerline, 2' AGL/4525' MSL.

Vegetation 36' from DER, 145' right of centerline, 9' AGL/4527' MSL.

Tree 750' from DER, 557' left of centerline, 4546' MSL.

Pole 1182' from DER, 595' left of centerline, 50' AGL/4570' MSL.

Pole beginning 1479' from DER, 268' left of centerline, up to 60' AGL/4579' MSL.

Tree 1505' from DER, 550' right of centerline, 49' AGL/4565' MSL.

SPRINGERVILLE, AZ

SPRINGERVILLE MUNI (JTC)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-A 02DEC21 (21336) (FAA)

TAKEOFF MINIMUMS:

Rwy 3, std. w/min. climb of 240' per NM to 7800 or 3300-5 for VCOA.

Rwy 11, std. w/min. climb of 440' per NM to 8200 or 3300-5 for VCOA.

Rwy 21, std. w/min. climb of 365' per NM to 8600 or 3300-5 for VCOA.

Rwy 29, 400-2½ or std. w/min. climb of 280' per NM to 7300.

DEPARTURE PROCEDURE:

Rwy 3, climbing left turn to 9100 on heading 360° before proceeding on course.

Rwy 11, climbing left turn to 10500 on heading 360° before proceeding on course.

Rwy 21, climbing right turn to 10300 on heading 360° before proceeding on course.

Rwy 29, climbing right turn to 9100 on heading 360° before proceeding on course.

VCOA:

Rwys 3, 11, 21, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Springerville Muni airport at or above 10400 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 11, trees beginning 9' from DER, 12' left of centerline, up to 100' AGL/7121' MSL.

Trees beginning 162' from DER, 8' right of centerline, up to 100' AGL/7125' MSL.

Trees beginning 3240' from DER, 48' right of centerline, up to 100' AGL/7135' MSL.

Trees beginning 3440' from DER, 289' right of centerline, up to 100' AGL/7138' MSL.

Trees beginning 3625' from DER, 135' right of centerline, up to 100' AGL/7148' MSL.

Trees beginning 3825' from DER, 376' right of centerline, up to 100' AGL/7151' MSL.

Trees beginning 4010' from DER, 222' right of centerline, up to 100' AGL/7158' MSL.

Trees beginning 4210' from DER, 463' right of centerline, up to 100' AGL/7161' MSL.

Trees beginning 4395' from DER, 703' right of centerline, up to 100' AGL/7167' MSL.

Trees beginning 4779' from DER, 790' right of centerline, up to 100' AGL/7174' MSL.

Trees beginning 4964' from DER, 1031' right of centerline, up to 100' AGL/7177' MSL.

Trees beginning 5349' from DER, 1512' right of centerline, up to 100' AGL/7184' MSL.

Tree 5734' from DER, 1993' right of centerline, 100' AGL/190' MSL.

Rwy 21, fence beginning 163' from DER, 300' left of centerline, up to 7065' MSL.

Terrain beginning 211' from DER, 391' left of centerline, up to 7066' MSL.

Tree 4771' from DER, 1744' right of centerline, 100' AGL/7184' MSL.

Trees beginning 4776' from DER, 1755' left of centerline, up to 100' AGL/7190' MSL.

Tree 5339' from DER, 1899' right of centerline, 100' AGL/7194' MSL.

Tree 5732' from DER, 1871' right of centerline, 100' AGL/7204' MSL.

Rwy 29, trees beginning 52' from DER, 1' right of centerline, up to 100' AGL/7121' MSL.

Tree 67' from DER, 39' left of centerline, 100' AGL/7121' MSL.

Trees beginning 82' from DER, 18' left of centerline, up to 100' AGL/7125' MSL.

Tree 2822' from DER, 1006' left of centerline, 100' AGL/7128' MSL.

Trees beginning 2942' from DER, 130' left of centerline, up to 7139' MSL.

Tree 4191' from DER, 1292' left of centerline, 100' AGL/7141' MSL.

Trees beginning 4299' from DER, 524' right of centerline, up to 100' AGL/7141' MSL.

Tree 4376' from DER, 1052' left of centerline, 100' AGL/7154' MSL.

Trees beginning 4391' from DER, 23' left of centerline, up to 100' AGL/7158' MSL.

Trees beginning 4499' from DER, 370' right of centerline, up to 100' AGL/7151' MSL.

Tree 4560' from DER, 811' left of centerline, 100' AGL/7164' MSL.

Trees beginning 4576' from DER, 176' left of centerline, up to 100' AGL/7181' MSL.

Tree 4683' from DER, 1005' right of centerline, 100' AGL/7158' MSL.

Trees beginning 4699' from DER, 217' right of centerline, up to 100' AGL/7167' MSL.

Tree 4883' from DER, 852' right of centerline, 100' AGL/7181' MSL.

Trees beginning 4899' from DER, 63' right of centerline, up to 100' AGL/7187' MSL.

Trees beginning 5299' from DER, 151' right of centerline, up to 100' AGL/7190' MSL.

Trees beginning 5361' from DER, 2' left of centerline, up to 100' AGL/7200' MSL.

Trees beginning 5561' from DER, 156' left of centerline, up to 100' AGL/7204' MSL.

Trees beginning 5684' from DER, 238' right of centerline, up to 100' AGL/7194' MSL.

Tree 5884' from DER, 84' right of centerline, 100' AGL/7197' MSL.

Trees beginning 5918' from DER, 325' right of centerline, up to 7199' MSL.

Trees beginning 5930' from DER, 68' left of centerline, up to 100' AGL/7207' MSL.

Trees beginning 1 NM from DER, 222' left of centerline, up to 100' AGL/7210' MSL.

Trees beginning 1 NM from DER, 171' right of centerline, up to 100' AGL/7200' MSL.

Trees beginning 1 NM from DER, 375' left of centerline, up to 100' AGL/7213' MSL.

CON'T

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

SW-4

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

SPRINGERVILLE, AZ (CON'T)

SPRINGERVILLE MUNI (JTC) (CON'T)

Rwy 29 (CON'T), trees beginning 1 NM from DER, 18' right of centerline, up to 100' AGL/7204' MSL.
Trees beginning 1 NM from DER, 135' left of centerline, up to 100' AGL/7217' MSL.
Trees beginning 1.1 NM from DER, 288' left of centerline, up to 100' AGL/7220' MSL.
Trees beginning 1.1 NM from DER, 442' left of centerline, up to 100' AGL/7223' MSL.
Trees beginning 1.1 NM from DER, 989' left of centerline, up to 100' AGL/7230' MSL.
Tree 1.2 NM from DER, 2479' left of centerline, 100' AGL/7233' MSL.
Tree 2 NM from DER, 1412' right of centerline, 100' AGL/7361' MSL.

TAYLOR, AZ

TAYLOR (TYL)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 02DEC21 (21336) (FAA)

TAKEOFF MINIMUMS:

Rwy 21, 300-1 or std. w/min. climb of 260' per NM to 6100, or alternatively, with standard takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 2100' prior to DER.

TAKEOFF OBSTACLE NOTES:

Rwy 3, buildings beginning 42' from DER, 339' right of centerline, up to 14' AGL/5728' MSL.
Tree 44' from DER, 113' left of centerline, 5723' MSL.
Building 745' from DER, 694' left of centerline, 23' AGL/5739' MSL.
Pole 852' from DER, 705' left of centerline, 24' AGL/5741' MSL.
Power lines crossing departure course 1000' from DER, pole 1309' from DER, 465' left of centerline, 15' AGL/5758' MSL.
Pole 1460' from DER, 597' left of centerline, 42' AGL/5764' MSL.
Rwy 21, utility lights, fence beginning 40' from DER, 113' right of centerline, up to 5' AGL/5828' MSL.
Trees beginning 86' from DER, 316' right of centerline, up to 5835' MSL.
Trees beginning 247' from DER, 268' right of centerline, up to 5836' MSL.
Tree 447' from DER, 248' right of centerline, 5838' MSL.
Trees beginning 552' from DER, 269' right of centerline, up to 5839' MSL.
Pole 1055' from DER, 659' left of centerline, 58' AGL/5874' MSL.
Pole 1170' from DER, 602' right of centerline, 31' AGL/5860' MSL.
Pole 1388' from DER, 479' right of centerline, 31' AGL/5873' MSL.
Pole, trees beginning 1468' from DER, 239' right of centerline, up to 43' AGL/5885' MSL.
Pole 1479' from DER, 544' left of centerline, 55' AGL/5883' MSL.
Poles beginning 1633' from DER, 228' left of centerline, up to 51' AGL/5884' MSL.
Tree 2369' from DER, 974' right of centerline, 5886' MSL.
Trees beginning 2400' from DER, 903' right of centerline, up to 5888' MSL.
Tree 2606' from DER, 1009' right of centerline, 5892' MSL.
Tree 2702' from DER, 983' right of centerline, 5893' MSL.
Terrain, tree beginning 2827' from DER, 1025' right of centerline, up to 5897' MSL.
Trees beginning 3013' from DER, 1028' right of centerline, up to 5904' MSL.
Tree 3120' from DER, 1254' left of centerline, 5910' MSL.
Terrain 3131' from DER, 1291' right of centerline, 5906' MSL.
Vehicles on road, tree beginning 3235' from DER, 607' right of centerline, up to 5923' MSL.
Trees beginning 3653' from DER, 672' right of centerline, up to 5924' MSL.
Tree 3795' from DER, 1387' left of centerline, 5923' MSL.
Vehicles on road, tree, terrain beginning 3820' from DER, 972' right of centerline, up to 5941' MSL.
Trees beginning 3894' from DER, 1148' left of centerline, up to 5928' MSL.
Vehicles on road, trees, terrain beginning 3901' from DER, 621' right of centerline, up to 5945' MSL.
Trees beginning 4009' from DER, 1161' left of centerline, up to 5929' MSL.
Vehicles on road, tree beginning 4039' from DER, 516' right of centerline, up to 5952' MSL.
Trees, terrain beginning 4124' from DER, 1262' left of centerline, up to 5934' MSL.
Vehicles on road, trees, terrain beginning 4126' from DER, 678' right of centerline, up to 5956' MSL.
Vehicles on road, terrain, trees beginning 4222' from DER, 635' right of centerline, up to 5959' MSL.
Trees beginning 4358' from DER, 1396' left of centerline, up to 5942' MSL.
Vehicles on road 4447' from DER, 959' right of centerline, 5960' MSL.
Trees beginning 4494' from DER, 1296' left of centerline, up to 5950' MSL.
Vehicles on road, trees beginning 4523' from DER, 545' right of centerline, up to 5965' MSL.
Trees beginning 4643' from DER, 1248' left of centerline, up to 5964' MSL.
Vehicles on road, trees, terrain beginning 4727' from DER, 488' right of centerline, up to 15' AGL/5973' MSL.
Vehicle on road 4837' from DER, 809' right of center line up to 5975' MSL.

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

TONOPAH, NV

TONOPAH (TPH)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 17AUG17 (17229) (FAA)

TAKEOFF MINIMUMS:

Rwys 11, 29, NA - ATC.**Rwy 15**, std. with a min. climb of 320' per NM to 9100 or 2500-3 for VCOA.**Rwy 33**, std. with a min. climb of 352' per NM to 9100 or 2500-3 for VCOA.

DEPARTURE PROCEDURE:

Rwy 15, climbing left turn direct TONOPAH (TPH) VORTAC thence...**Rwy 33**, climbing right turn direct TONOPAH (TPH) VORTAC thence...

...continue climb in TPH holding pattern (NE, RT, 246° inbound) to cross TPH VORTAC at or above 9300 before proceeding on course.

VCOA:

Rwy 15, 33, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Tonopah airport at or above 7800 direct TONOPAH VORTAC, continue climb in TPH holding pattern (NE, RT, 246° inbound) to cross TPH VORTAC at or above 9300 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 15, transmission line tower 515' from DER, 473' left of centerline, 23' AGL/5418' MSL.**Rwy 33**, fence beginning 173' from DER, 401' right of centerline, 6' AGL/5438' MSL.

TONOPAH TEST RANGE (KTNX)

TONOPAH, NV

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 19JUL18 (18200)

DEPARTURE PROCEDURE:

Rwy 14, 1000-3 with min. climb of 320 ft/NM to 10,700 or 2700-3 for Climb in Visual Conditions. Climb on a heading between 325° CW to 155° from DER or Climb in Visual Conditions to cross KZ - KTNX airport at or above 8100 MSL before proceeding on course.**Rwy 32**, 1000-3 with min. climb of 260 ft/NM to 5900 or 2700-3 for Climb in Visual Conditions. Climb on a heading between 295° CW to 005° from DER or Climb in Visual Conditions to cross KZ-KTNX airport at or above 8100 MSL before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 14, terrain 1204' from DER, 823' right of cntrln, 5582' MSL.

Terrain 63' from DER, 517' right of cntrln, 5565' MSL.

Terrain 46' from DER, 480' right of cntrln, 5564' MSL.

Terrain 0' from DER, 353' right of cntrln, 5561' MSL.

Terrain 62' from DER, 200' right of cntrln, 5558' MSL.

Terrain 14' from DER, 292' right of cntrln, 5561' MSL.

Terrain 0' from DER, 287' right of cntrln, 5561' MSL.

Terrain 0' from DER, 222' right of cntrln, 5559' MSL.

Surveyed terrain 215' from DER, 427' right of cntrln, 5560' MSL.

Rwy 32, terrain 0' from DER, 500' left of cntrln, 5476' MSL.

Terrain 19' from DER, 465' left of cntrln, 5476' MSL.

Terrain 110' from DER, 529' left of cntrln, 5476' MSL.

TOOELE, UT

BOLINDER FIELD-TOOELE VALLEY (TVY)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 22AUG13 (13234) (FAA)

TAKEOFF MINIMUMS:

Rwy 17, std. w/min. climb of 348' per NM to 9000 or 5600-3 for climb in visual conditions.**Rwy 35**, std. w/min. climb of 380' per NM to 9000 or 5600-3 for climb in visual conditions.

DEPARTURE PROCEDURE:

Rwy 17, climbing right turn to 9000 on heading 337° and OGD VORTAC R-197 to STACO INT, or for climb in visual conditions: cross Bolinder Field-Tooele Valley airport at or above 9800' MSL before proceeding on course. When executing VCOA, notify ATC prior to departure.**Rwy 35**, climbing left turn to 9000 on heading 300° and OGD VORTAC R-197 to STACO INT, or for climb in visual conditions: cross Bolinder Field-Tooele Valley airport at or above 9800' MSL before proceeding on course. When executing VCOA, notify ATC prior to departure.

TAKEOFF OBSTACLE NOTES:

Rwy 17, tree 230' from DER, 255' right of centerline, 35' AGL/4335' MSL.

Tree 342' from DER, 363' right of centerline, 35' AGL/4360' MSL.

Trees beginning 601' from DER, 486' right of centerline, up to 35' AGL/4399' MSL.

Pole 1000' from DER, 409' left of centerline, 42' AGL/4363' MSL.

Pole 1092' from DER, 118' right of centerline, 42' AGL/4363' MSL.

Tree 1369' from DER, 393' right of centerline, 35' AGL/4381' MSL.

Tree 2018' from DER, 257' right of centerline, 35' AGL/4384' MSL.

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

TUCSON, AZ

RYAN FLD (RYN)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 29JUL10 (21168) (FAA)

TAKEOFF MINIMUMS:

Rwys 6L, 15, 24R, 33, NA, ATC.

DEPARTURE PROCEDURE:

Rwys 6R, 24L, use ALMON DEPARTURE.

TUCSON INTL (TUS)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 6 30NOV23 (23334) (FAA)

TAKEOFF MINIMUMS:

Rwy 4, 300-2 or std w/min climb of 230'/NM to 3000.

DEPARTURE PROCEDURE:

Rwy 4, climb on heading 036° to 3000 then climbing right turn on heading 172° and TUS R-018 to TUS VORTAC, continue climb in TUS VORTAC holding pattern (hold NW, right turns, 128° inbound) to 9000 before proceeding on course.

Rwy 12, climb on heading 126° to 4000 then climbing left turn direct TUS VORTAC, continue climb in TUS VORTAC holding Pattern (hold NW, right turns, 128° inbound) to 9000 before proceeding on course.

Rwy 22, climb on heading 216° to 3000 then climbing left turn on heading 078° and TUS VORTAC R-227 to TUS VORTAC, continue climb in TUS VORTAC holding pattern (hold NW, right turns, 128° inbound) to 9000 before proceeding on course.

Rwy 30, climbing right turn direct TUS VORTAC, continue climb in TUS VORTAC holding pattern (hold NW, right turns, 128° inbound) to 9000 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 4, light poles beginning 5' from DER, 52' right of centerline, up to 2' AGL/2570' MSL.

Light pole 9' from DER, 149' left of centerline, 4' AGL/2570' MSL.

Light poles, terrain beginning 10' from DER, 149' right of centerline, up to 3' AGL/2571' MSL.

Sign 35' from DER, 445' right of centerline, 3' AGL/2573' MSL.

Signs, utility building beginning 70' from DER, 378' right of centerline, up to 5' AGL/2575' MSL.

Sign 189' from DER, 509' right of centerline, 2578' MSL.

Building 557' from DER, 647' left of centerline, 17' AGL/2583' MSL.

Building, poles beginning 795' from DER, 609' left of centerline, up to 2607' MSL.

Pole, tree beginning 993' from DER, 436' left of centerline, up to 2609' MSL.

Trees, building, pole beginning 1104' from DER, 550' right of centerline, up to 2611' MSL.

Poles, signs, trees beginning 1131' from DER, 133' left of centerline, up to 2611' MSL.

Poles beginning 1475' from DER, 704' right of centerline, up to 35' AGL/2613' MSL.

Pole 1688' from DER, 915' right of centerline, 34' AGL/2617' MSL.

Poles beginning 1691' from DER, 585' right of centerline, up to 38' AGL/2618' MSL.

Pole 1725' from DER, 948' right of centerline, 36' AGL/2620' MSL.

Poles beginning 1749' from DER, 503' right of centerline, up to 2621' MSL.

Tree 1863' from DER, 852' left of centerline, 2628' MSL.

Poles beginning 1886' from DER, 437' right of centerline, up to 2625' MSL.

Tree 1955' from DER, 771' left of centerline, 2630' MSL.

Poles, tree beginning 1991' from DER, 331' right of centerline, up to 2626' MSL.

Poles beginning 2080' from DER, 414' right of centerline, up to 2627' MSL.

Poles beginning 2321' from DER, 560' right of centerline, up to 2632' MSL.

Pole 2397' from DER, 905' right of centerline, 2634' MSL.

Tree 2532' from DER, 715' right of centerline, 2635' MSL.

Pole 2613' from DER, 959' right of centerline, 49' AGL/2642' MSL.

Poles beginning 2668' from DER, 951' right of centerline, up to 55' AGL/2647' MSL.

Tree 3078' from DER, 700' right of centerline, 2650' MSL.

Trees beginning 3095' from DER, 738' right of centerline, up to 2654' MSL.

Tower, antenna, building beginning 3224' from DER, 853' right of centerline, up to 77' AGL/2670' MSL.

Tower 1.5 NM from DER, 1690' left of centerline, 246' AGL/2831' MSL.

Rwy 12, light poles, sign beginning 9' from DER, 150' left of centerline, up to 2' AGL/2645' MSL.

Light pole 10' from DER, 151' right of centerline, 4' AGL/2644' MSL.

Vegetation 36' from DER, 349' right of centerline, 2653' MSL.

Vegetation, utility building beginning 53' from DER, 152' right of centerline, up to 2656' MSL.

Vegetation, pole beginning 100' from DER, 146' left of centerline, up to 2652' MSL.

Vegetation beginning 190' from DER, 355' right of centerline, up to 2657' MSL.

Vegetation 358' from DER, 507' left of centerline, 2655' MSL.

Vegetation 398' from DER, 590' left of centerline, 2657' MSL.

Vegetation beginning 419' from DER, 328' right of centerline, up to 2658' MSL.

Tree, vegetation beginning 445' from DER, 394' left of centerline, up to 2665' MSL.

Vegetation beginning 523' from DER, 347' right of centerline, up to 2661' MSL.

Vegetation beginning 593' from DER, 393' right of centerline, up to 2662' MSL.

Vegetation beginning 631' from DER, 423' right of centerline, up to 2663' MSL.

Tree, vegetation beginning 650' from DER, 411' left of centerline, up to 2668' MSL.

Tree, vegetation beginning 679' from DER, 395' left of centerline, up to 2671' MSL.

Vegetation 742' from DER, 662' right of centerline, 2664' MSL.

Vegetation 832' from DER, 583' right of centerline, 2665' MSL.

Vegetation 841' from DER, 693' right of centerline, 2666' MSL.

Vegetation beginning 892' from DER, 677' right of centerline, up to 2669' MSL.

CONT

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

TUCSON, AZ (CON'T)

TUCSON INTL (TUS) (CON'T)

- Rwy 12 (CON'T)**, trees, vegetation beginning 893' from DER, 412' left of centerline, up to 2674' MSL.
 Trees beginning 1046' from DER, 527' left of centerline, up to 2677' MSL.
 Tree 1573' from DER, 909' right of centerline, 2684' MSL.
 Tree 1708' from DER, 899' right of centerline, 2686' MSL.
 Tree 1726' from DER, 705' left of centerline, 2687' MSL.
 Tree 1756' from DER, 918' right of centerline, 2690' MSL.
 Transmission lines beginning 4721' from DER, 984' left of centerline, up to 66' AGL/2765' MSL.
 Transmission line 4969' from DER, 997' left of centerline, 77' AGL/2775' MSL.
Rwy 22, vegetation, light poles beginning 8' from DER, 53' right of centerline, up to 10' AGL/2568' MSL.
 Light poles 10' from DER, 51' left of centerline, 2' AGL/2561' MSL.
 Tree 30' from DER, 380' right of centerline, 2572' MSL.
 Vehicle on road, tree, fence beginning 32' from DER, 324' right of centerline, up to 2580' MSL.
 Trees, vegetation, fence beginning 45' from DER, 255' left of centerline, up to 2573' MSL.
 Vehicle on road, trees, vegetation, poles beginning 60' from DER, 74' right of centerline, up to 2581' MSL.
 Trees beginning 267' from DER, 479' left of centerline, up to 2577' MSL.
 Trees, vegetation, vehicle on road, pole beginning 288' from DER, 8' left of centerline, up to 2590' MSL.
 Vehicle on road 357' from DER, 140' right of centerline, 2582' MSL.
 Pole, trees, vehicle on road beginning 362' from DER, 17' right of centerline, up to 33' AGL/2585' MSL.
 Poles, trees, vehicle on road beginning 401' from DER, 42' right of centerline, up to 34' AGL/2586' MSL.
 Tree, poles beginning 580' from DER, 35' right of centerline, up to 2600' MSL.
 Poles, tree beginning 1029' from DER, 84' left of centerline, up to 46' AGL/2599' MSL.
 Pole 1282' from DER, 781' left of centerline, 43' AGL/2602' MSL.
 Poles, buildings beginning 1298' from DER, 138' left of centerline, up to 57' AGL/2616' MSL.
 Buildings, poles beginning 1301' from DER, 158' right of centerline, up to 2611' MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)

AMDT 1 30NOV23 (23334) (FAA)

- Rwy 4**, heading as assigned by ATC; requires min climb of 228' per NM to 3000.
Rwy 12, heading as assigned by ATC.
Rwy 22, heading as assigned by ATC.
Rwy 30, heading as assigned by ATC; requires min climb of 328' per NM to 6700.

VERNAL, UT

VERNAL RGNL (VEL)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 07DEC17 (17341) (FAA)

TAKEOFF MINIMUMS:

Rwy 17, std. w/min. climb of 210' per NM to 6000, or alternatively with std. takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1800' prior to DER or 2200-3 for VCOA.

Rwy 35, std. w/min. climb of 410' per NM to 7700 or 2200-3 for VCOA.

DEPARTURE PROCEDURE:

Rwy 17, climbing left turn direct VEL VOR/DME, thence . . .

Rwy 35, climbing right turn direct VEL VOR/DME, thence . . .

. . . on VEL VOR/DME R-142 to ENSEN INT/VEL 9.7 DME and hold (hold SE, right turn, 322° inbound). Continue Climb-in-hold to the MEA/MCA for route of flight.

VCOA:

Rwys 17, 35, obtain ATC approval for VCOA when requesting IFR clearance: Climb in visual conditions to cross Vernal RGNL Airport at or above 7300, then continue climb on VEL VOR/DME R-142 until reaching the MEA/MCA for route of flight.

TAKEOFF OBSTACLE NOTES:

- Rwy 17**, terrain beginning 19' from DER, 140' right of centerline, up to 5290' MSL.
 Terrain and agricultural equipment beginning 118' from DER, 15' left of centerline, up to 6' AGL/5284' MSL.
 Tree 1333' from DER, 295' left of centerline, 5315' MSL.
 Tree 1378' from DER, 221' left of centerline, 5317' MSL.
 Tree 1456' from DER, 112' left of centerline, 5318' MSL.
 Tree 1498' from DER, 32' left of centerline, 5320' MSL.
 Poles beginning 1948' from DER, 46' right of centerline, up to 35' AGL/5334' MSL.
 Trees beginning 2411' from DER, 19' left of centerline, up to 5370' MSL.
 Tree 2439' from DER, 296' right of centerline, 5339' MSL.
 Tree 2468' from DER, 288' right of centerline, 5341' MSL.
 Trees beginning 2497' from DER, 290' right of centerline, up to 5344' MSL.
 Trees beginning 2511' from DER, 105' left of centerline, up to 5374' MSL.
 Tree 2534' from DER, 361' right of centerline, 5355' MSL.
 Tree 2553' from DER, 355' right of centerline, 5362' MSL.
 Trees beginning 2573' from DER, 323' right of centerline, up to 5370' MSL.
 Trees beginning 4620' from DER, 71' left of centerline, up to 5397' MSL.
 Tree 4749' from DER, 184' right of centerline, 5401' MSL.
 Tree 4895' from DER, 65' left of centerline, 5403' MSL.
Rwy 35, pole 178' from DER, 153' left of centerline, 5290' MSL.
 Tree and pole beginning 934' from DER, 625' right of centerline, up to 5302' MSL.

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

WENDOVER, UT

WENDOVER (ENV)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 7 31MAR16 (16091) (FAA)

TAKEOFF MINIMUMS:

Rwy 26, std. w/min. climb of 300' per NM to 5900.

Rwy 30, NA-ATC.

DEPARTURE PROCEDURE:

Rwys 8, 12, 26, climbing left turn direct BVL VORTAC, thence...

...continue climb in holding pattern (hold NE, right turns, 253' inbound) to cross BVL VORTAC at/above MEA for route of flight.

TAKEOFF OBSTACLE NOTES:

Rwy 12, bush 92' from DER, 258' left of centerline, 4' AGL/4227' MSL.

Rwy 26, tree 100' from DER, 500' right of centerline, 11' AGL/4240' MSL.

Bush 90' from DER, 278' left of centerline, 4' AGL/4233' MSL.

WILLCOX, AZ

COCHISE COUNTY (P33)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1A 03NOV22 (22307) (FAA)

DEPARTURE PROCEDURE:

Use COCHISE DEPARTURE (OBSTACLE).

WILLIAMS, AZ

H A CLARK MEML FLD (CMR)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 05OCT23 (23278) (FAA)

TAKEOFF MINIMUMS:

Rwy 18, std w/min climb of 490' per NM to 9500 or 3400-3 for VCOA.

Rwy 36, std w/min climb of 340' per NM to 7400 or 3400-3 for VCOA.

DEPARTURE PROCEDURE:

Rwy 18, climb on heading 178° to 7100, then climbing left turn on a heading between 360° CW 030° from DER.

Rwy 36, climb on heading 358° to 7700, then climbing left turn on a heading between 250° CW 350° from DER.

VCOA:

Rwys 18, 36, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross H A Clark Meml Fld airport at or above 9900 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 18, pole 7' from DER, 37' right of centerline, 6' AGL/6692' MSL.

NAVAID 40' from DER, 124' left of centerline, 9' AGL/6693' MSL.

Terrain 69' from DER, 241' right of centerline, 6693' MSL.

Vegetation 198' from DER, 305' right of centerline, 3' AGL/6696' MSL.

Fence 215' from DER, 556' right of centerline, 8' AGL/6697' MSL.

Tree 306' from DER, 170' left of centerline, 16' AGL/6699' MSL.

Trees beginning 321' from DER, 340' right of centerline, up to 6711' MSL.

Tree 337' from DER, 195' left of centerline, 19' AGL/6700' MSL.

Tree 391' from DER, 175' left of centerline, 19' AGL/6702' MSL.

Trees beginning 444' from DER, 172' left of centerline, up to 6711' MSL.

Trees beginning 494' from DER, 267' right of centerline, up to 6714' MSL.

Trees beginning 604' from DER, 158' left of centerline, up to 6719' MSL.

Tree 635' from DER, 258' right of centerline, 6720' MSL.

Trees beginning 651' from DER, 416' right of centerline, up to 6726' MSL.

Trees beginning 924' from DER, 426' right of centerline, up to 6729' MSL.

Tree 1069' from DER, 387' left of centerline, 6725' MSL.

Trees beginning 1192' from DER, 127' left of centerline, up to 6733' MSL.

Tree 1255' from DER, 95' right of centerline, 29' AGL/6731' MSL.

Tree 1259' from DER, 613' right of centerline, 6734' MSL.

Trees beginning 1275' from DER, 246' right of centerline, up to 6736' MSL.

Tree 1411' from DER, 265' left of centerline, 41' AGL/6737' MSL.

Trees beginning 1428' from DER, 113' right of centerline, up to 39' AGL/6744' MSL.

Trees beginning 1452' from DER, 158' left of centerline, up to 40' AGL/6738' MSL.

Trees beginning 1483' from DER, 7' right of centerline, up to 41' AGL/6745' MSL.

Tree 1575' from DER, 215' left of centerline, 41' AGL/6740' MSL.

Trees beginning 1619' from DER, 3' left of centerline, up to 52' AGL/6752' MSL.

Tree 2322' from DER, 360' right of centerline, 6752' MSL.

Tree 2485' from DER, 706' right of centerline, 6756' MSL.

Tree 3128' from DER, 1202' right of centerline, 6770' MSL.

Tree 3389' from DER, 255' right of centerline, 43' AGL/6777' MSL.

Tree 3493' from DER, 809' right of centerline, 6779' MSL.

Trees beginning 3571' from DER, 312' right of centerline, up to 6785' MSL.

Trees beginning 3630' from DER, 383' right of centerline, up to 25' AGL/6792' MSL.

Trees beginning 3671' from DER, 230' right of centerline, up to 6811' MSL.

Trees beginning 4165' from DER, 407' left of centerline, up to 64' AGL/6799' MSL.

Tree 4201' from DER, 742' left of centerline, 6806' MSL.

CONT

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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SW-4

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

WILLIAMS, AZ (CON'T)

H A CLARK MEML FLD (CMR) (CON'T)

Rwy 18 (CON'T), tree 4954' from DER, 781' left of centerline, 6821' MSL.
 Tree 5223' from DER, 1377' left of centerline, 6841' MSL.
 Tree 1 NM from DER, 810' left of centerline, 6860' MSL.
 Tree 1.1 NM from DER, 2194' right of centerline, 6865' MSL.
 Tree 1.1 NM from DER, 2128' right of centerline, 6873' MSL.
 Trees beginning 1.1 NM from DER, 2138' right of centerline, up to 6886' MSL.
 Trees beginning 1.1 NM from DER, 1975' right of centerline, up to 6887' MSL.
 Trees beginning 1.1 NM from DER, 2078' right of centerline, up to 6898' MSL.
 Trees beginning 1.2 NM from DER, 1525' right of centerline, up to 6913' MSL.
 Trees beginning 1.2 NM from DER, 1865' right of centerline, up to 6933' MSL.
 Trees beginning 1.2 NM from DER, 1139' right of centerline, up to 6963' MSL.
 Trees beginning 1.2 NM from DER, 1009' right of centerline, up to 6966' MSL.
 Trees beginning 1.2 NM from DER, 1710' right of centerline, up to 6973' MSL.
 Trees beginning 1.2 NM from DER, 1580' right of centerline, up to 6980' MSL.
 Tree 1.2 NM from DER, 2039' right of centerline, 6986' MSL.
 Tree, terrain beginning 1.2 NM from DER, 1309' right of centerline, up to 7007' MSL.
 Trees beginning 1.3 NM from DER, 1013' right of centerline, up to 7030' MSL.
 Tree 1.3 NM from DER, 1992' right of centerline, 7040' MSL.
 Trees beginning 1.3 NM from DER, 903' right of centerline, up to 7055' MSL.
 Trees beginning 1.3 NM from DER, 1023' right of centerline, up to 7067' MSL.
 Trees beginning 1.3 NM from DER, 1128' right of centerline, up to 7073' MSL.
 Trees beginning 1.3 NM from DER, 1540' right of centerline, up to 7100' MSL.
 Trees beginning 1.3 NM from DER, 891' right of centerline, up to 7156' MSL.
 Tree, terrain beginning 1.3 NM from DER, 1104' right of centerline, up to 7160' MSL.
 Tree, terrain beginning 1.3 NM from DER, 1' right of centerline, up to 56' AGL/7193' MSL.
 Tree 1.3 NM from DER, 577' left of centerline, 6898' MSL.
 Trees beginning 1.3 NM from DER, 81' left of centerline, up to 6912' MSL.
 Trees beginning 1.4 NM from DER, 233' left of centerline, up to 6929' MSL.
 Trees beginning 1.4 NM from DER, 121' left of centerline, up to 6934' MSL.
 Trees beginning 1.4 NM from DER, 194' left of centerline, up to 6940' MSL.
 Trees beginning 1.4 NM from DER, 68' left of centerline, up to 6956' MSL.
 Tree, terrain beginning 1.4 NM from DER, 22' left of centerline, up to 6960' MSL.
 Tree, terrain beginning 1.5 NM from DER, 11' left of centerline, up to 6966' MSL.
 Trees beginning 1.5 NM from DER, 16' left of centerline, up to 46' AGL/6977' MSL.
 Tree 1.9 NM from DER, 3407' right of centerline, 6992' MSL.
Rwy 36, light poles 7' from DER, 36' left of centerline, 2' AGL/6632' MSL.
 Trees beginning 10' from DER, 368' left of centerline, up to 6640' MSL.
 Trees beginning 72' from DER, 177' left of centerline, up to 18' AGL/6645' MSL.
 Trees beginning 114' from DER, 289' right of centerline, up to 6642' MSL.
 Trees beginning 400' from DER, 410' right of centerline, up to 6645' MSL.
 Trees beginning 2 NM from DER, 2541' left of centerline, up to 7011' MSL.
 Trees beginning 2 NM from DER, 2885' left of centerline, up to 7104' MSL.
 Tree 2.1 NM from DER, 3044' left of centerline, 13' AGL/7146' MSL.
 Tree 2.1 NM from DER, 3577' left of centerline, 16' AGL/7164' MSL.
 Antenna, trees beginning 2.1 NM from DER, 2316' left of centerline, up to 20' AGL/7179' MSL.
 Building, tree beginning 2.5 NM from DER, 1502' left of centerline, up to 15' AGL/7203' MSL.

WINDOW ROCK, AZ

WINDOW ROCK (RQE)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 05DEC19 (19339) (FAA)

TAKEOFF MINIMUMS:

Rwy 3, 800-3 w/min. climb of 385' per NM to 8100 or std. w/min. climb of 565' per NM to 7700 or 1600-3 for VCOA.

Rwy 21, std. w/min. climb of 285' per NM to 8100 or 1600-3 for VCOA.

DEPARTURE PROCEDURE:

Rwy 3, climb on heading 025° to 7500, then right turn to intercept GUP VORTAC R-321 to GUP VORTAC before proceeding on course.

Rwy 21, climb on heading 205° to 7400 then left turn direct GUP VORTAC before proceeding on course.

VCOA:

Rwys 3, 21, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Window Rock Airport at or above 8200 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 3, vegetation beginning 32' from DER, 73' left of centerline, up to 6745' MSL.

Building 416' from DER, 609' right of centerline, 19' AGL/6766' MSL.

Poles beginning 477' from DER, 344' right of centerline, up to 33' AGL/6772' MSL.

Tree, pole beginning 1336' from DER, 114' left of centerline, up to 6796' MSL.

Sign 1380' from DER, 109' right of centerline, 29' AGL/6777' MSL.

Pole 1448' from DER, 291' right of centerline, 39' AGL/6788' MSL.

Tree 1586' from DER, 392' left of centerline, 6806' MSL.

Sign, pole beginning 1774' from DER, 225' right of centerline, up to 52' AGL/6805' MSL.

Pole 1868' from DER, 746' left of centerline, 38' AGL/6823' MSL.

Pole 3038' from DER, 91' right of centerline, 40' AGL/6824' MSL.

CON'T

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

SW-4

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

WINDOW ROCK, AZ (CON'T) WINDOW ROCK (RQE) (CON'T)

Rwy 3 (CON'T), pole 3356' from DER, 457' left of centerline, 31' AGL/6840' MSL.

Tree 3532' from DER, 613' left of centerline, 6850' MSL.

Tree 3801' from DER, 682' left of centerline, 6871' MSL.

Vertical structure, poles beginning 3832' from DER, 57' right of centerline, up to 6926' MSL.

Pole 4044' from DER, 310' left of centerline, 44' AGL/6874' MSL.

Tree 4616' from DER, 625' left of centerline, 6888' MSL.

Vertical structure 5938' from DER, 147' right of centerline, 7024' MSL.

Pole, vertical structures, towers beginning 1 NM from DER, 59' left of centerline, up to 6' AGL/7083' MSL.

Tower, tree beginning 1.1 NM from DER, 102' right of centerline, up to 103' AGL/7096' MSL.

Trees beginning 1.3 NM from DER, 2063' right of centerline, up to 50' AGL/7309' MSL.

Vertical structures beginning 1.4 NM from DER, 1852' left of centerline, up to 7127' MSL.

Trees beginning 1.4 NM from DER, 121' right of centerline, up to 50' AGL/7369' MSL.

Vertical structure, tree beginning 1.5 NM from DER, 628' left of centerline, up to 50' AGL/7139' MSL.

Trees beginning 1.6 NM from DER, 875' right of centerline, up to 50' AGL/7375' MSL.

Tree 1.8 NM from DER, 357' left of centerline, 50' AGL/7351' MSL.

Tree 1.9 NM from DER, 77' left of centerline, 50' AGL/7369' MSL.

Tree 2.1 NM from DER, 26' left of centerline, 50' AGL/7429' MSL.

Tree 2.4 NM from DER, 2921' right of centerline, 50' AGL/7449' MSL.

Rwy 21, tree 955' from DER, 382' left of centerline, 6736' MSL.

Tree 1018' from DER, 620' left of centerline, 6768' MSL.

WINNEMUCCA, NV

WINNEMUCCA MUNI (WMC)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 05OCT23 (23278) (FAA)

DEPARTURE PROCEDURE:

Use FESKO (RNAV) DEPARTURE.

TAKEOFF OBSTACLE NOTES:

Rwy 2, trees, NAVAID beginning 3' from DER, 113' right of centerline, up to 4356' MSL.

NAVAID 39' from DER, 118' left of centerline, 8' AGL/4311' MSL.

Tree 81' from DER, 402' right of centerline, 4357' MSL.

Trees, vehicles on road beginning 98' from DER, 166' right of centerline, up to 4373' MSL.

Tree 1177' from DER, 576' left of centerline, 4346' MSL.

Tree 1265' from DER, 763' left of centerline, 4349' MSL.

Tree 1404' from DER, 647' left of centerline, 4360' MSL.

Rwy 14, pole 1' from DER, 24' left of centerline, 4304' MSL.

NAVAID 40' from DER, 126' left of centerline, 4305' MSL.

Vehicles on road, vegetation, trees beginning 121' from DER, 328' left of centerline, up to 4319' MSL.

Tree 178' from DER, 438' right of centerline, 4310' MSL.

Vehicles on road beginning 259' from DER, 406' left of centerline, up to 4321' MSL.

Rwy 20, tree 26' from DER, 406' right of centerline, 4306' MSL.

Pole 65' from DER, 385' left of centerline, 8' AGL/4311' MSL.

Tree 129' from DER, 192' right of centerline, 4308' MSL.

Rwy 32, NAVAID 39' from DER, 123' left of centerline, 3' AGL/4303' MSL.

Vegetation 77' from DER, 351' left of centerline, 4304' MSL.

Tree 166' from DER, 478' right of centerline, 4306' MSL.

Vehicles on road beginning 184' from DER, 405' left of centerline, up to 4314' MSL.

Vehicles on road beginning 273' from DER, 267' right of centerline, up to 4316' MSL.

WINSLOW, AZ

WINSLOW-LINDBERGH RGNL (INW)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 11DEC14 (14345) (FAA)

DEPARTURE PROCEDURE:

Rwy 22, climb to 6000, then right turn direct INW VORTAC and hold, thence . . .

Rwy 4, climb to 6000, then left turn direct INW VORTAC and hold, thence . . .

Rwys 11, 29, climb to 6000, then direct INW VORTAC and hold, thence . . .

. . . continue climb-in-hold (hold West, right turns, 068° inbound) to 8900 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 11, vehicle on road beginning 389' from DER, 329' right of centerline, 15' AGL/4894' MSL.

Trees beginning 120' from DER, 398' right of centerline, 100' AGL/4901' MSL.

Tank 3681' from DER, 1304' right of centerline, 129' AGL/5014' MSL.

Grain silo 2901' from DER, 25' right of centerline, up to 4957' MSL.

Obstruction light on hopper 2908' from DER, 27' right of centerline, up to 4955' MSL.

Chimney 2899' from DER, 28' right of centerline, up to 4953' MSL.

Light support structure 13' from DER, 55' left of centerline, up to 4871' MSL.

Light support structure 13' from DER, 56' right of centerline, up to 4871' MSL.

Vertical point 234' from DER, 14' left of centerline, up to 4876' MSL.

CON'T

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

SW-4

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

WINSLOW, AZ (CON'T)

WINSLOW-LINDBERGH RGNL (INW) (CON'T)

Rwy 29, tree 332' from DER, 589' left of centerline 100' AGL/4915' MSL.
 Trees beginning 385' from DER, 124' right of centerline, 100' AGL/4923' MSL.
 Vehicle on road beginning 31' from DER, 389' right of centerline 15' AGL/4920' MSL.
 REIL abeam DER, 139' left of centerline, up to 4904' MSL.
 Bush 38' from DER, 179' right of centerline, up to 4903' MSL.
 Pole 2132' from DER, 1052' right of centerline, up to 4956' MSL.
 Vertical point 241' from DER, 318' right of centerline, up to 4907' MSL.
 Ground 71' from DER, 456' left of centerline, up to 4902' MSL.
Rwy 4, light 4' from DER, 425' left of centerline, up to 4920' MSL.
 Obstruction light on lighted windsock 12' from DER, 424' left of centerline, up to 4918' MSL.
 Tree 34' from DER, 263' left of centerline, 100' AGL/4901' MSL.
 Tower 2740' from DER, 1086' left of centerline, up to 4968' MSL.
 Ground 42' from DER, 455' left of centerline, up to 4892' MSL.
Rwy 22, poles beginning 1575' from DER, 360' right of centerline, up to 5010' MSL.
 Antenna 1867' from DER 360' right of centerline up to 5019' MSL.
 Vehicle on road beginning 198' from DER, 12' right of centerline, 15' AGL/4994' MSL.
 Vehicle on road beginning 499' from DER, 93' left of centerline, 15' AGL/4962' MSL.
 Tree 1746' from DER, 581' right of centerline, 100' AGL/4993' MSL.
 Vertical point 31' from DER, 479' left of centerline, up to 4946' MSL.
 Building 525' from DER, 528' right of centerline, up to 4956' MSL.
 Light support structures 10' from DER, 54' right of centerline, up to 4942' MSL.

YUMA MCAS/YUMA INTL (KNYL)

YUMA, AZ

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 22APR21 (21112) (USN)

DEPARTURE PROCEDURE:

Rwys 3L/R, 17, 21L/R, 26, 35, diverse departures authorized.

Rwy 8, diverse departures authorized between 258' CW 058'.

TAKEOFF OBSTACLE NOTES:

Rwy 3L, terrain 0' from DER, 500' left of cntrln, 194' MSL.
 Terrain 0' from DER, 500' right of cntrln, 197' MSL.
 Sisoo tree 4274' from DER, 927' left of cntrln, 86' AGL/300' MSL.
 Sisoo tree 4185' from DER, 1016' left of cntrln, 91' AGL/304' MSL.
 Twr N of airfield 5273' from DER, 1538' left of cntrln, 335' MSL.
 Twr 2688' from DER, 1232' left of cntrln, 62' AGL/299' MSL.
Rwy 3R, terrain 0' from DER, 500' right of cntrln, 208' MSL.
 Palm 1184' from DER, 742' left of cntrln, 41' AGL/255' MSL.
 Palm 1134' from DER, 792' left of cntrln, 36' AGL/250' MSL.
Rwy 8, security antenna 1135' from DER, 806' right of cntrln, 32' AGL/242' MSL.
Rwy 17, twr 4362' from DER, 1180' right of cntrln, 65' AGL/265' MSL.
 Twr 4506' from DER, 1284' right of cntrln, 50' AGL/250' MSL.
 Twr 4510' from DER, 1343' right cntrln, 50' AGL/250' MSL.
 Terrain 0' from DER, 500' right of cntrln, 184' MSL.
 Antenna 303' from DER, 403' right of cntrln, 190' MSL.
Rwy 21L, TACAN antenna 705' from DER, 286' left of cntrln, 220' MSL.
 PAR antenna 661' from DER, 295' right of cntrln, 214' MSL.
Rwy 26, palm 577' from DER, 604' right of cntrln, 44' AGL/239' MSL.
 Metal pole 74' from DER, 244' right of cntrln, 199' MSL.
Rwy 35, terrain 0' from DER, 500' right of cntrln, 197' MSL.
 Billboard 747' from DER, 562' right of cntrln, 225' MSL.
 Lgt pole 679' from DER, 344' left of cntrln, 25' AGL/220' MSL.
 Metal lgt pole N of afld 714' from DER, 544' left of cntrln, 119' AGL/231' MSL.
 Palm 1075' from DER, 721' left of cntrln, 57' AGL/253' MSL.
 Pylon pole 711' from DER, 476' left of cntrln, 32' AGL/228' MSL.
 Pylon power 711' from DER, 520' left of cntrln, 37' AGL/232' MSL.
 Pylon power 712' from DER, 540' left of cntrln, 38' AGL/233' MSL.

22 FEB 2024 to 21 MAR 2024

22 FEB 2024 to 21 MAR 2024

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

SW-4

ARLIN FOUR ARRIVAL
(ARLIN,ARLIN4) 27 APR 17

(ARLIN,ARLIN4) 23334
ARLIN FOUR ARRIVAL

ARRIVAL ROUTE DESCRIPTION

BLYTHE TRANSITION (BLH.ARLIN4): From over BLH VORTAC on BLH R-089 and IWA R-256 to ARLIN INT. Thence. . . .

MOHAK TRANSITION (MOHAK.ARLIN4): From over MOHAK INT on GBN R-247 and BXK R-215 to HYDRR INT, then on IWA R-256 to ARLIN INT. Thence. . . .

PHOENIX SKY HARBOR INTL: Rwy 7L/R or 8: From over ARLIN, Expect vectors to final approach course; Rwy 25L/R or 26: From over ARLIN, on IWA R-256 to TUKEE. Expect vectors to final approach course prior to TUKEE.

SATELLITE AIRPORTS: Expect vectors after passing SCOPE or JUDTH.

LOST COMMUNICATIONS: After ARLIN, on IWA R-256 and PXR R-143 to PXR VORTAC.

- PHOENIX APP CON 124.1 256.9
- PHOENIX TOWER 118.7 278.8 (Rwy 8-26)
- 120.9 254.3 (Rwy 7L-25R, 7R-25L)
- PHOENIX GND CON 119.75 269.2
- CHD ATIS 128.325
- FFZ ATIS 118.25
- DVT ATIS 126.5
- IWA ATIS★ 133.5 270.275
- PHX D-ATIS 127.575
- SDL ATIS★ 118.6



PHOENIX-DEER VALLEY

SCOTTSDALE

PHOENIX
115.6 PXR
Chan 103

FALCON
FLD

PHOENIX-SKY HARBOR INTL

STELLAR AIRPARK

PHOENIX-MESA GATEWAY

CHANDLER MUNI

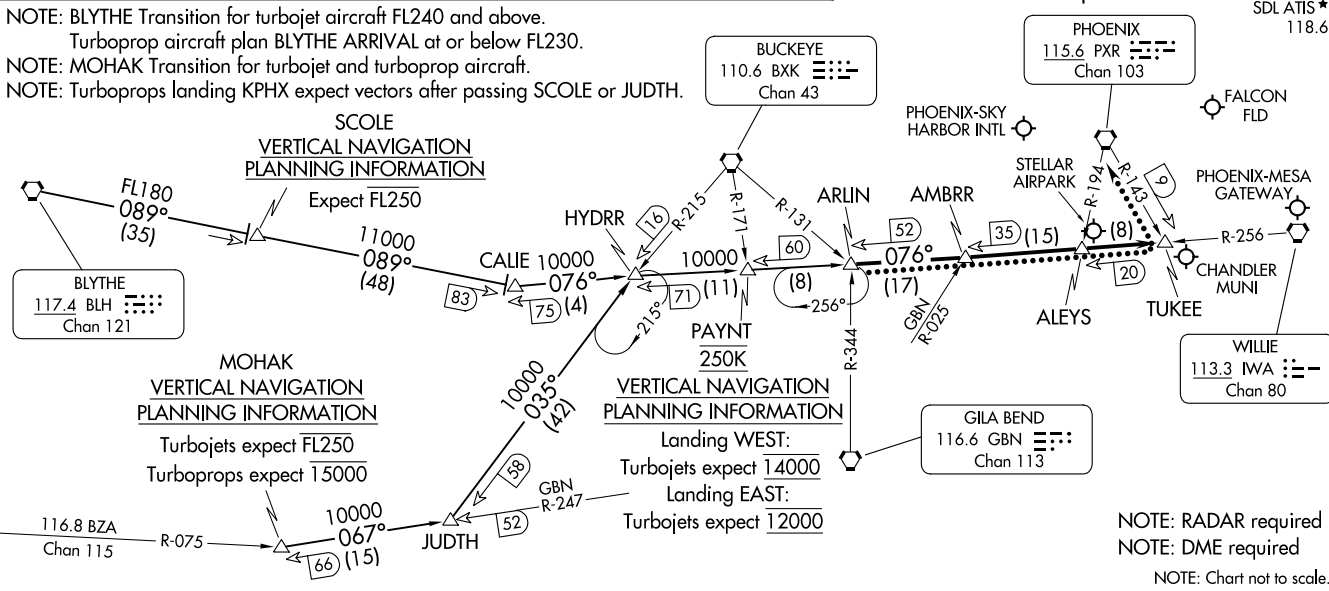
WILLIE
113.3 IWA
Chan 80

GILA BEND
116.6 GBN
Chan 113

NOTE: RADAR required
NOTE: DME required
NOTE: Chart not to scale.

AL-322 (FAA)

PHOENIX, ARIZONA



SCOPE
VERTICAL NAVIGATION
PLANNING INFORMATION
Expect FL250

MOHAK
VERTICAL NAVIGATION
PLANNING INFORMATION
Turbojets expect FL250
Turboprops expect 15000

VERTICAL NAVIGATION
PLANNING INFORMATION
Landing WEST:
Turbojets expect 14000
Landing EAST:
Turbojets expect 12000

PHOENIX, ARIZONA

ARRIVAL ROUTE DESCRIPTION

BLYTHE TRANSITION (BLH.BLH5): From over BLH VORTAC on BLH R-082 to SALOM, then on GBN R-285 and IWA R-256 to ARLIN. Thence . . .

PHOENIX SKY HARBOR INTL: Rwy 7L/R or 8: From over ARLIN, expect vectors to final approach course; Rwy 25L/R or 26: From over ARLIN, on IWA R-256 to TUKEE. Expect vectors to final approach course prior to TUKEE.

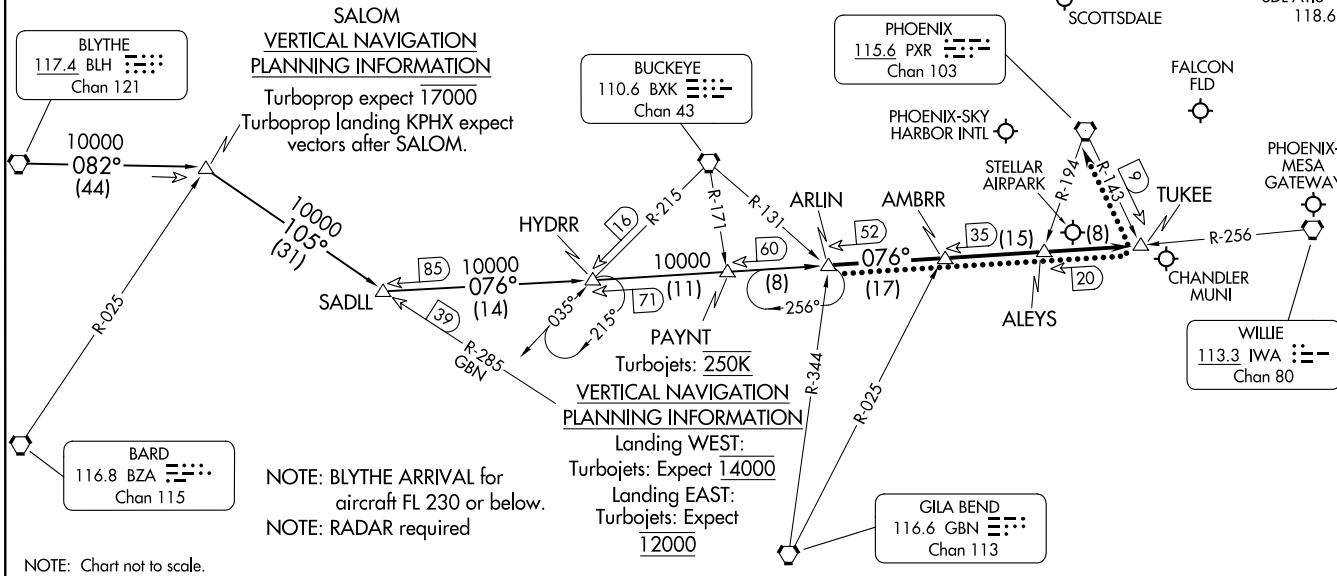
SATELLITE AIRPORTS: Expect vectors after passing SALOM.

LOST COMMUNICATIONS: After ARLIN, on IWA R-256 and PXR R-143 to PXR VORTAC.

- PHOENIX APP CON 124.1 256.9
- PHOENIX TOWER 118.7 278.8 (Rwy 8-26)
- 120.9 254.3 (Rwy 7L-25R, 7R-25L)
- PHOENIX GND CON 119.75 269.2
- CHD ATIS 128.325
- FFZ ATIS 118.25
- DVT ATIS 126.5
- IWA ATIS * 133.5 270.275
- PHX D-ATIS 127.575
- SDL ATIS * 118.6

BLYTHE FIVE ARRIVAL
(BLH.BLH5) 27 APR 17

BLYTHE FIVE ARRIVAL
23334



NOTE: Chart not to scale.

PHOENIX, ARIZONA

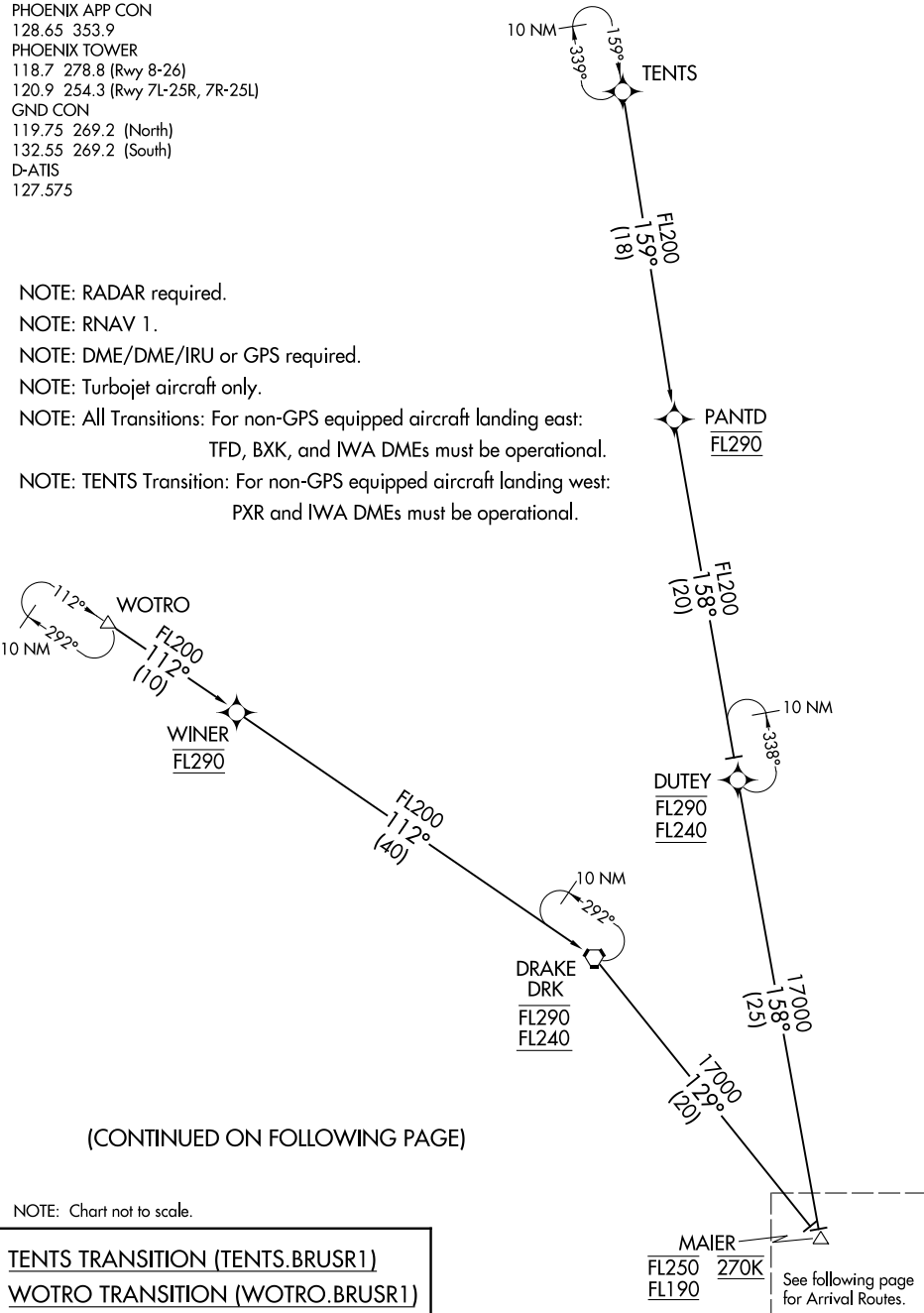
AL-322 (FAA)

PHOENIX, ARIZONA

BRUSR ONE ARRIVAL (RNAV) Transition Routes

PHOENIX APP CON
 128.65 353.9
 PHOENIX TOWER
 118.7 278.8 (Rwy 8-26)
 120.9 254.3 (Rwy 7L-25R, 7R-25L)
 GND CON
 119.75 269.2 (North)
 132.55 269.2 (South)
 D-ATIS
 127.575

- NOTE: RADAR required.
- NOTE: RNAV 1.
- NOTE: DME/DME/IRU or GPS required.
- NOTE: Turbojet aircraft only.
- NOTE: All Transitions: For non-GPS equipped aircraft landing east:
TFD, BXK, and IWA DMEs must be operational.
- NOTE: TENTS Transition: For non-GPS equipped aircraft landing west:
PXR and IWA DMEs must be operational.



(CONTINUED ON FOLLOWING PAGE)

NOTE: Chart not to scale.

TENTS TRANSITION (TENTS.BRUSR1)
 WOTRO TRANSITION (WOTRO.BRUSR1)

MAIER
 FL250 270K
 FL190
 See following page
 for Arrival Routes.

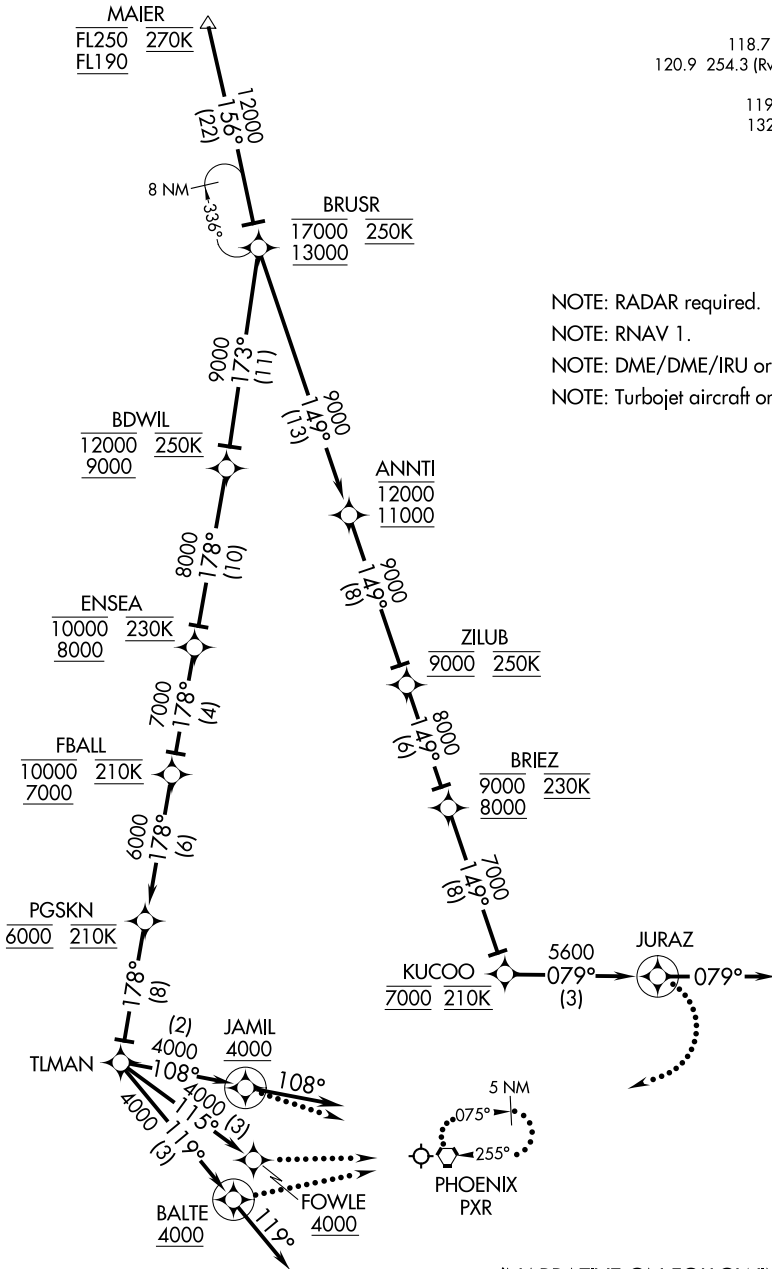
BRUSR ONE ARRIVAL (RNAV) Arrival Routes

PHOENIX APP CON
128.65 353.9
PHOENIX TOWER
118.7 278.8 (Rwy 8-26)
120.9 254.3 (Rwy 7L-25R, 7R-25L)
GND CON
119.75 269.2 (North)
132.55 269.2 (South)
D-ATIS
127.575

NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Turbojet aircraft only.

SW-4, 22 FEB 2024 to 21 MAR 2024

SW-4, 22 FEB 2024 to 21 MAR 2024



NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

BRUSR ONE ARRIVAL (RNAV) Arrival Routes

ARRIVAL ROUTE DESCRIPTION

From MAIER on track 156° to cross BRUSR at/above 13000 and at/below 17000 and at 250K.

LANDING RUNWAY 7L: From BRUSR on track 173° to cross BDWIL at/above 9000 and at/below 12000 and at 250K, then on track 178° to cross ENSEA at/above 8000 and at/below 10000 and at 230K, then on track 178° to cross FBALL at/above 7000 and at/below 10000 at 210K, then on track 178° to cross PGSKN at 6000 and at 210K, then on track 178° to TLMAN, then on track 115° to cross FOWLE at/above 4000. Expect ILS RWY 7L or RADAR vectors to final approach course.

LANDING RUNWAY 7R: From BRUSR on track 173° to cross BDWIL at/above 9000 and at/below 12000 and at 250K, then on track 178° to cross ENSEA at/above 8000 and at/below 10000 and at 230K, then on track 178° to cross FBALL at/above 7000 and at/below 10000 at 210K, then on track 178° to cross PGSKN at 6000 and at 210K, then on track 178° to TLMAN, then on track 119° to cross BALTE at or above 4000. Then on track 119°. Expect RADAR vectors to final approach course.

LANDING RUNWAY 8: From BRUSR on track 173° to cross BDWIL at/above 9000 and at/below 12000 and at 250K, then on track 178° to cross ENSEA at/above 8000 and at/below 10000 and at 230K, then on track 178° to cross FBALL at/above 7000 and at/below 10000 at 210K, then on track 178° to cross PGSKN at 6000 and at 210K, then on track 178° to TLMAN, then on track 108° to cross JAMIL at or above 4000. Then on track 108°. Expect RADAR vectors to final approach course.

LANDING RUNWAYS 25L, 25R, 26: From BRUSR on track 149° to cross ANNTI at/above 11000 and at/below 12000, then on track 149° to cross ZILUB at 9000 and at 250K, then on track 149° to cross BRIEZ at/above 8000 and at/below 9000 and at 230K, then on track 149° to cross KUCOO at 7000 and at 210K, then on track 079° to JURAZ, then on track 079°. Expect RADAR vectors to final approach course.

LOST COMMUNICATIONS

LANDING RUNWAY 7L: At FOWLE, intercept and execute RWY 7L ILS approach. If unable, proceed direct PXR VORTAC and hold, maintain 9000.

LANDING RUNWAY 7R: At BALTE, intercept and execute RWY 7R ILS approach. If unable, proceed direct PXR VORTAC and hold, maintain 9000.

LANDING RUNWAY 8: At JAMIL, intercept and execute RWY 8 ILS approach, If unable, proceed direct PXR VORTAC and hold, maintain 9000.

LANDING RUNWAYS 25L, 25R, 26: At JURAZ, turn right, intercept and execute RWY 25L ILS approach. If unable, proceed direct PXR VORTAC and hold, maintain 9000.

BUNTR THREE ARRIVAL

AL-322 (FAA)

PHOENIX SKY HARBOR INTL (PHX)
PHOENIX, ARIZONA

PHOENIX APP CON
128.65 353.9
PHOENIX TOWER
118.7 278.8 (Rwy 8-26)
120.9 254.3 (Rwy 7L-25R, 7R-25L)
GND CON
119.75 269.2
D-ATIS
127.575

WINSLOW
112.6 INW
Chan 73

GALLUP
115.1 GUP
Chan 98

ZUNI
113.4 ZUN
Chan 81

ST JOHNS
112.3 SJN
Chan 70

DRAKE
114.1 DRK
Chan 88

PHOENIX
115.6 PXR
Chan 103

SLIDR
VERTICAL NAVIGATION
PLANNING INFORMATION

Expect FL360

VERTICAL NAVIGATION
PLANNING INFORMATION

Landing West: Expect 12000

Landing East: Expect 14000

- NOTE: Turbojet aircraft only.
- NOTE: File GALLUP or ZUNI Transitions only.
- WINSLOW Transition assigned by ATC for hazardous weather avoidance only.
- NOTE: RADAR required.
- NOTE: DME required.

SW-4, 22 FEB 2024 to 21 MAR 2024

SW-4, 22 FEB 2024 to 21 MAR 2024

NOTE: Chart not to scale.

(CONTINUED ON FOLLOWING PAGE)

BUNTR THREE ARRIVAL

(BUNTR.BUNTR3) 05JAN17

PHOENIX, ARIZONA
PHOENIX SKY HARBOR INTL (PHX)

ARRIVAL ROUTE DESCRIPTION

GALLUP TRANSITION (GUP.BUNTR3): From over GUP VORTAC on GUP R-213 to SLIDR then on ZUN R-232 to PAYSO, then on PXR R-034 to BUNTR. Thence. . . .

WINSLOW TRANSITION (INW.BUNTR3): From over INW VORTAC on INW R-180 to EAGUL, then on PXR R-034 to BUNTR. Thence. . . .

ZUNI TRANSITION (ZUN.BUNTR3): From over ZUN VORTAC via ZUN R-232 to PAYSO, then via PXR R-034 to BUNTR. Thence. . . .

. . . . From BUNTR, fly heading 225°. Expect vectors to final approach course.

LOST COMMUNICATIONS: After BUNTR proceed direct PXR VORTAC.

SW-4, 22 FEB 2024 to 21 MAR 2024

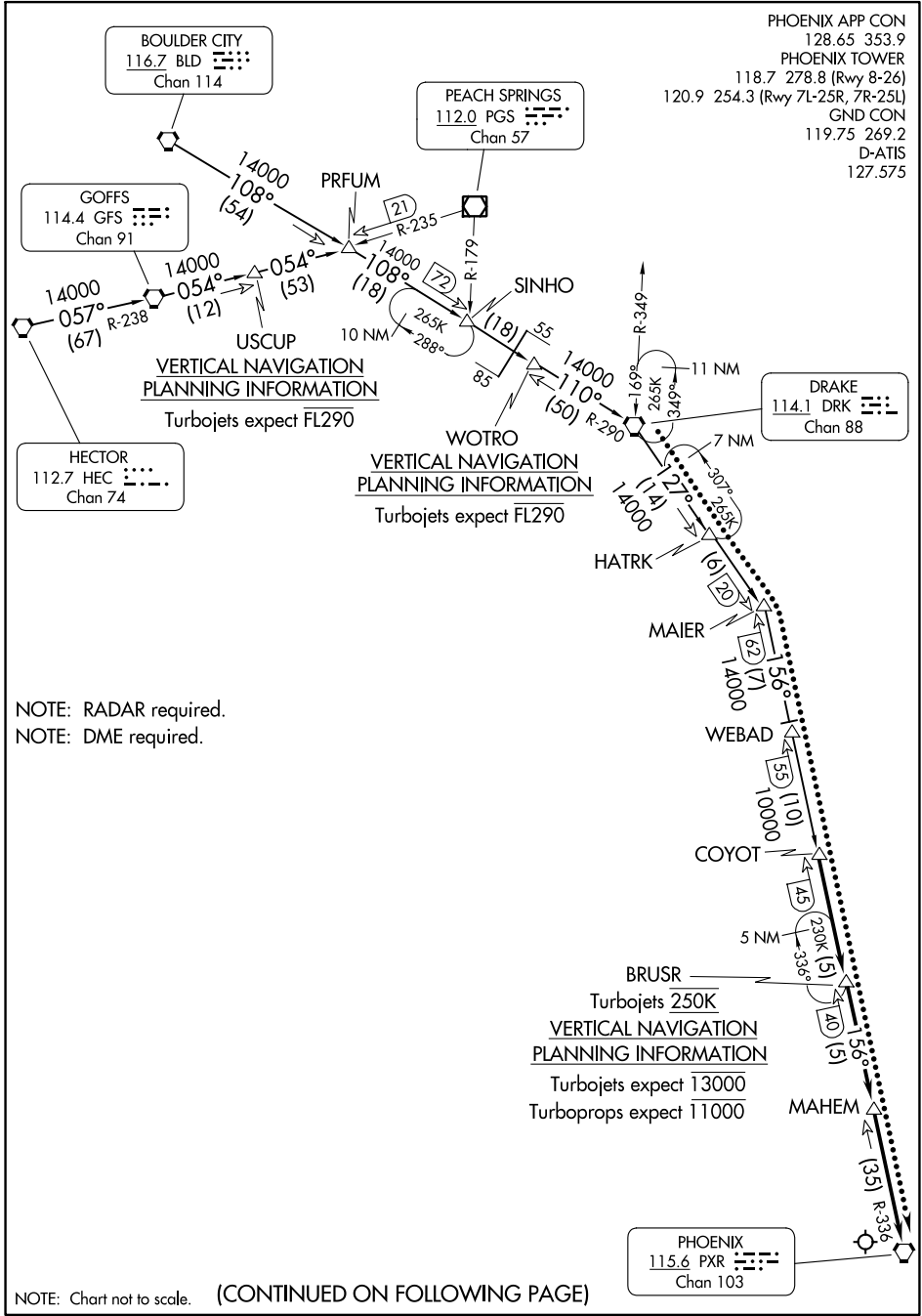
SW-4, 22 FEB 2024 to 21 MAR 2024

(COYOT.COYOT5) 23334
COYOT FIVE ARRIVAL

AL-322 (FAA)

PHOENIX SKY HARBOR INTL (PHX)
 PHOENIX, ARIZONA

PHOENIX APP CON 128.65 353.9
 PHOENIX TOWER 118.7 278.8 (Rwy 8-26)
 120.9 254.3 (Rwy 7L-25R, 7R-25L)
 GND CON 119.75 269.2
 D-ATIS 127.575



NOTE: RADAR required.
 NOTE: DME required.

NOTE: Chart not to scale. (CONTINUED ON FOLLOWING PAGE)

SW-4, 22 FEB 2024 to 21 MAR 2024

SW-4, 22 FEB 2024 to 21 MAR 2024

COYOT FIVE ARRIVAL
 (COYOT.COYOT5) 16JUL20

PHOENIX, ARIZONA
 PHOENIX SKY HARBOR INTL (PHX)

ARRIVAL ROUTE DESCRIPTION

BOULDER CITY TRANSITION (BLD.COYOT5): From over BLD VORTAC on BLD R-108 and DRK R-290 to DRK VORTAC, then on DRK R-127 and PXR R-336 to COYOT. Thence. . . .

DRAKE TRANSITION (DRK.COYOT5): From over DRK VORTAC on DRK R-127 and PXR R-336 to COYOT. Thence. . . .

HECTOR TRANSITION (HEC.COYOT5): From over HEC VORTAC on HEC R-057 and GFS R-238 to GFS VORTAC, then on GFS R-054 and PGS R-235 to PRFUM, then on BLD R-108 and DRK R-290 to DRK VORTAC, then on DRK R-127 and PXR R-336 to COYOT. Thence. . . .

. . . .From COYOT on PXR R-336 to BRUSR, then on PXR R-336 to MAHEM, then on PXR R-336 to PXR VORTAC. After BRUSR expect RADAR vectors to final approach course.

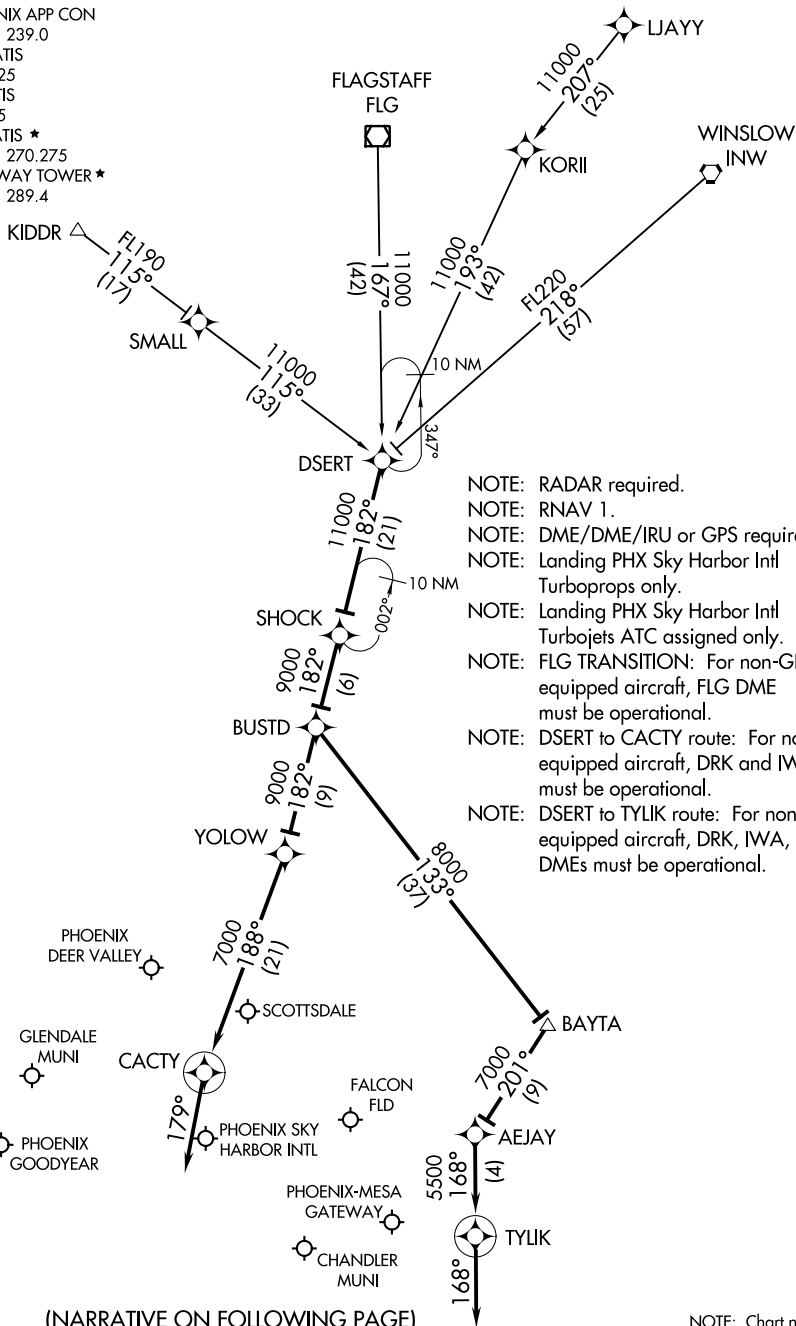
LOST COMMUNICATIONS

After DRK VORTAC proceed direct MAIER, then direct PXR VORTAC.

SW-4, 22 FEB 2024 to 21 MAR 2024

SW-4, 22 FEB 2024 to 21 MAR 2024

PHOENIX APP CON
 120.7 239.0
 CHD ATIS
 128.325
 FFZ ATIS
 118.25
 IWA ATIS *
 133.5 270.275
 GATEWAY TOWER *
 120.6 289.4



- NOTE: RADAR required.
- NOTE: RNAV 1.
- NOTE: DME/DME/IRU or GPS required.
- NOTE: Landing PHX Sky Harbor Intl Turboprops only.
- NOTE: Landing PHX Sky Harbor Intl Turbojets ATC assigned only.
- NOTE: FLAG TRANSITION: For non-GPS equipped aircraft, FLAG DME must be operational.
- NOTE: DSERT to CACTY route: For non-GPS equipped aircraft, DRK and IWA DMEs must be operational.
- NOTE: DSERT to TYLIK route: For non-GPS equipped aircraft, DRK, IWA, and PXR DMEs must be operational.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

FLAGSTAFF TRANSITION (FLG.DSERT2)

KIDDR TRANSITION (KIDDR.DSERT2)

LJAYY TRANSITION (LJAYY.DSERT2)

WINSLOW TRANSITION (INW.DSERT2)

From DSERT on track 182° to SHOCK, then on track 182° to BUSTD.

LANDING AT KDVT/KSDL/KGEU/KFFZ/KCHD/KGYR/KPHX:

From BUSTD on track 182° to YOLOW, then on track 188° to CACTY then on track 179°. Expect RADAR vectors.

LANDING AT KIWA: From BUSTD on track 133° to BAYTA, then on track 201° to AEJAY, then on track 168° to TYLIK, then on track 168°. Expect RADAR vectors.

SW-4, 22 FEB 2024 to 21 MAR 2024

SW-4, 22 FEB 2024 to 21 MAR 2024

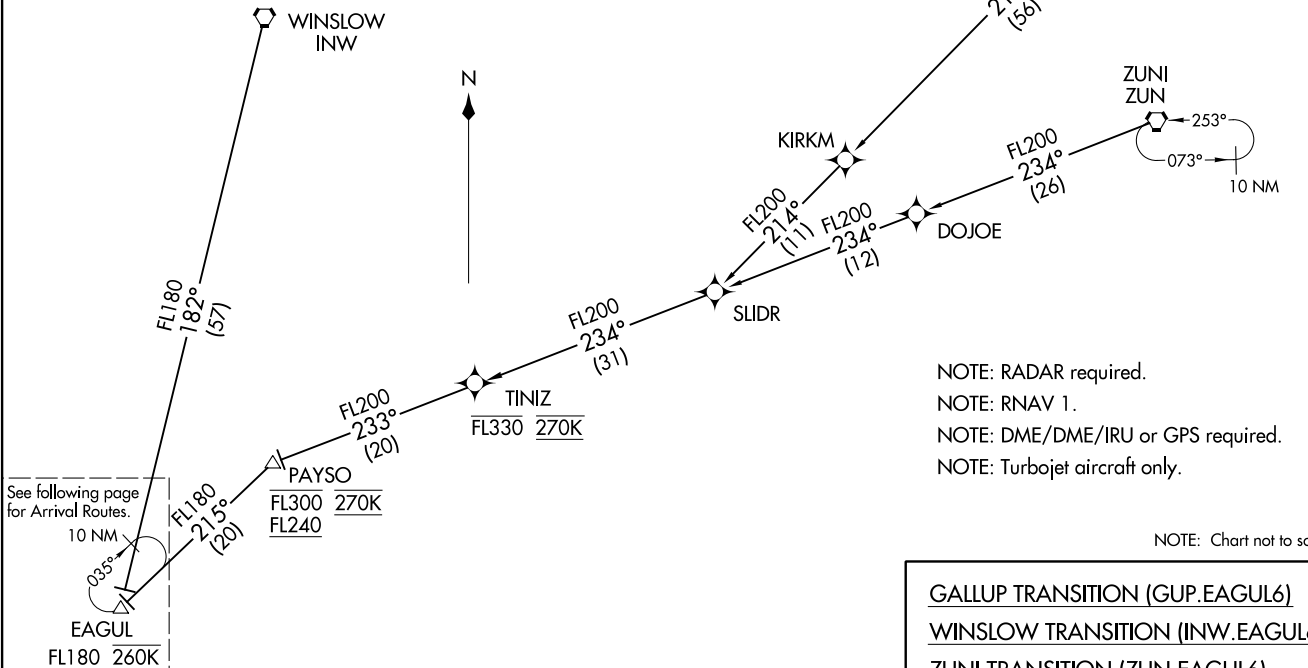
EAGUL SIX ARRIVAL (RNAV) (EAGUL.EAGUL6) 18SEP14

PHOENIX APP CON
128.65 353.9
PHOENIX TOWER
118.7 278.8 (Rwy 8-26)
120.9 254.3 (Rwy 7L-25R, 7R-25L)
GND CON
119.75 269.2 (North)
132.55 269.2 (South)
D-ATIS
127.575

PHOENIX SKY HARBOR INTL (PHX) PHOENIX, ARIZONA

PHOENIX APP CON
128.65 353.9
PHOENIX TOWER
118.7 278.8 (Rwy 8-26)
120.9 254.3 (Rwy 7L-25R, 7R-25L)
GND CON
119.75 269.2 (North)
132.55 269.2 (South)
D-ATIS
127.575

NOTE: GALLUP and ZUNI TRANSITIONS: For non-GPS equipped aircraft INW DME must be operational.
NOTE: LANDING EAST: For non-GPS equipped aircraft PXR and IWA DMEs must be operational.
NOTE: File GALLUP or ZUNI TRANSITIONS only. WINSLOW TRANSITION assigned by ATC for hazardous weather avoidance only.



NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Turbojet aircraft only.

NOTE: Chart not to scale.

GALLUP TRANSITION (GUP.EAGUL6)
WINSLOW TRANSITION (INW.EAGUL6)
ZUNI TRANSITION (ZUN.EAGUL6)

(CONTINUED ON FOLLOWING PAGE)

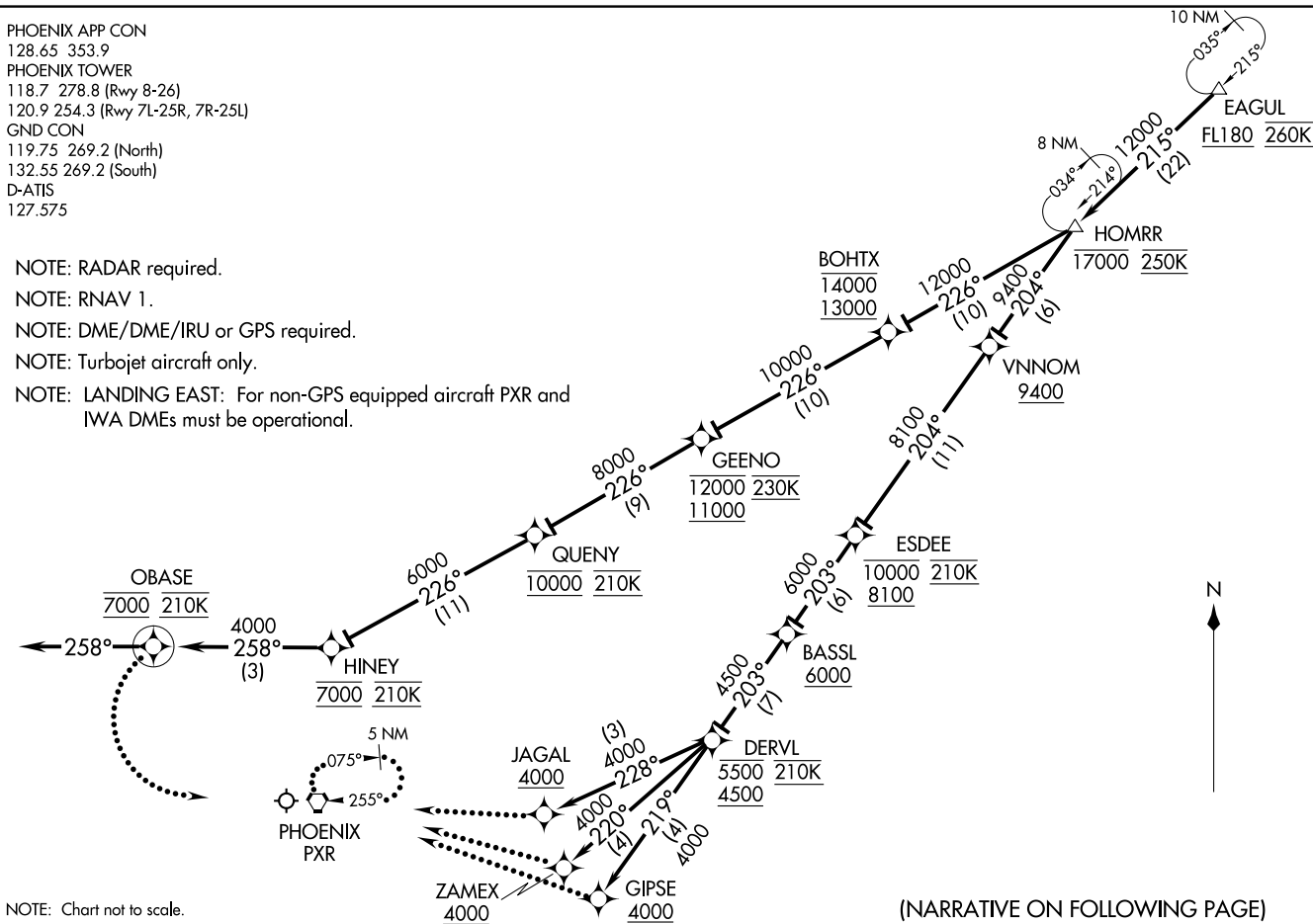
EAGUL.EAGUL6) 17117

AL-322 (FAA) Transition Routes

PHOENIX SKY HARBOR INTL (PHX) PHOENIX, ARIZONA

PHOENIX APP CON
 128.65 353.9
 PHOENIX TOWER
 118.7 278.8 (Rwy 8-26)
 120.9 254.3 (Rwy 7L-25R, 7R-25L)
 GND CON
 119.75 269.2 (North)
 132.55 269.2 (South)
 D-ATIS
 127.575

- NOTE: RADAR required.
- NOTE: RNAV 1.
- NOTE: DME/DME/IRU or GPS required.
- NOTE: Turbojet aircraft only.
- NOTE: LANDING EAST: For non-GPS equipped aircraft PXR and IWA DMEs must be operational.



NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

EAGUL SIX ARRIVAL (RNAV) Arrival Routes
 PHOENIX SKY HARBOR INTL (PHX)
 PHOENIX, ARIZONA
 (EAGUL.EAGUL6) 18SEP14

EAGUL.EAGUL6) 17117
 AL-322 (FAA)
 PHOENIX SKY HARBOR INTL (PHX)
 PHOENIX, ARIZONA

ARRIVAL ROUTE DESCRIPTION

From EAGUL on track 215° to cross HOMRR at or below 17000 at 250K.

LANDING RUNWAYS 7L, 7R, 8: From HOMRR on track 226° to cross BOHTX at/above 13000 and at/below 14000, then on track 226° to cross GEENO at/above 11000 and at/below 12000 and at 230K, then on track 226° to cross QUENY at 10000 and at 210K, then on track 226° to cross HINEY at 7000 and at 210K, then on track 258° to cross OBASE at 7000 and at 210K, then on track 258°. Expect RADAR vectors to final approach course.

LANDING RUNWAY 25L: From HOMRR on track 204° to cross VNNOM at/above 9400, then on track 204° to cross ESDEE at/above 8100 and at/below 10000 and at 210K, then on track 203° to cross BASSL at/above 6000, then on track 203° to cross DERVL at/above 4500 and at/below 5500 and at 210K, then on track 219° to cross GIPSE at/above 4000. Expect ILS or LOC RWY 25L approach or RADAR vectors to final approach course.

LANDING RUNWAY 25R: From HOMRR on track 204° to cross VNNOM at/above 9400, then on track 204° to cross ESDEE at/above 8100 and at/below 10000 and at 210K, then on track 203° to cross BASSL at/above 6000, then on track 203° to cross DERVL at/above 4500 and at/below 5500 and at 210K, then on track 220° to cross ZAMEX at/above 4000. Expect RNAV (GPS) Y RWY 25R approach or RADAR vectors to final approach course.

LANDING RUNWAY 26: From HOMRR on track 204° to cross VNNOM at/above 9400, then on track 204° to cross ESDEE at/above 8100 and at/below 10000 and at 210K, then on track 203° to cross BASSL at/above 6000, then on track 203° to cross DERVL at/above 4500 and at/below 5500 at 210K, then on track 228° to cross JAGAL at/above 4000. Expect ILS or LOC RWY 26 approach or RADAR vectors to final approach course.

LOST COMMUNICATIONS

LANDING RUNWAY 7L: After OBASE turn left, intercept and execute RWY 7L ILS approach. If unable, proceed direct PXR VORTAC and hold, maintain 9000.

LANDING RUNWAY 7R: After OBASE turn left, intercept and execute RWY 7R ILS approach. If unable, proceed direct PXR VORTAC and hold, maintain 9000.

LANDING RUNWAY 8: After OBASE turn left, intercept and execute RWY 8 ILS approach. If unable, proceed direct PXR VORTAC and hold, maintain 9000.

LANDING RUNWAY 25L: At GIPSE, intercept and execute RWY 25L ILS approach. If unable, proceed direct PXR VORTAC and hold, maintain 9000.

LANDING RUNWAY 25R: At ZAMEX, intercept and execute RWY 25R RNAV (GPS) approach. If unable, proceed direct PXR VORTAC and hold, maintain 9000.

LANDING RUNWAY 26: At JAGAL, intercept and execute RWY 26 ILS approach. If unable, proceed direct PXR VORTAC and hold, maintain 9000.

SW-4, 22 FEB 2024 to 21 MAR 2024

SW-4, 22 FEB 2024 to 21 MAR 2024

PHOENIX APP CON
 124.1 256.9
 PHOENIX TOWER
 118.7 278.8 (Rwy 8-26)
 120.9 254.3 (Rwy 7R-25L, 7L-25R)
 GND CON
 119.75 269.2 (North)
 132.55 269.2 (South)
 D-ATIS
 127.575

(HYDRR.HYDRR1) 17117

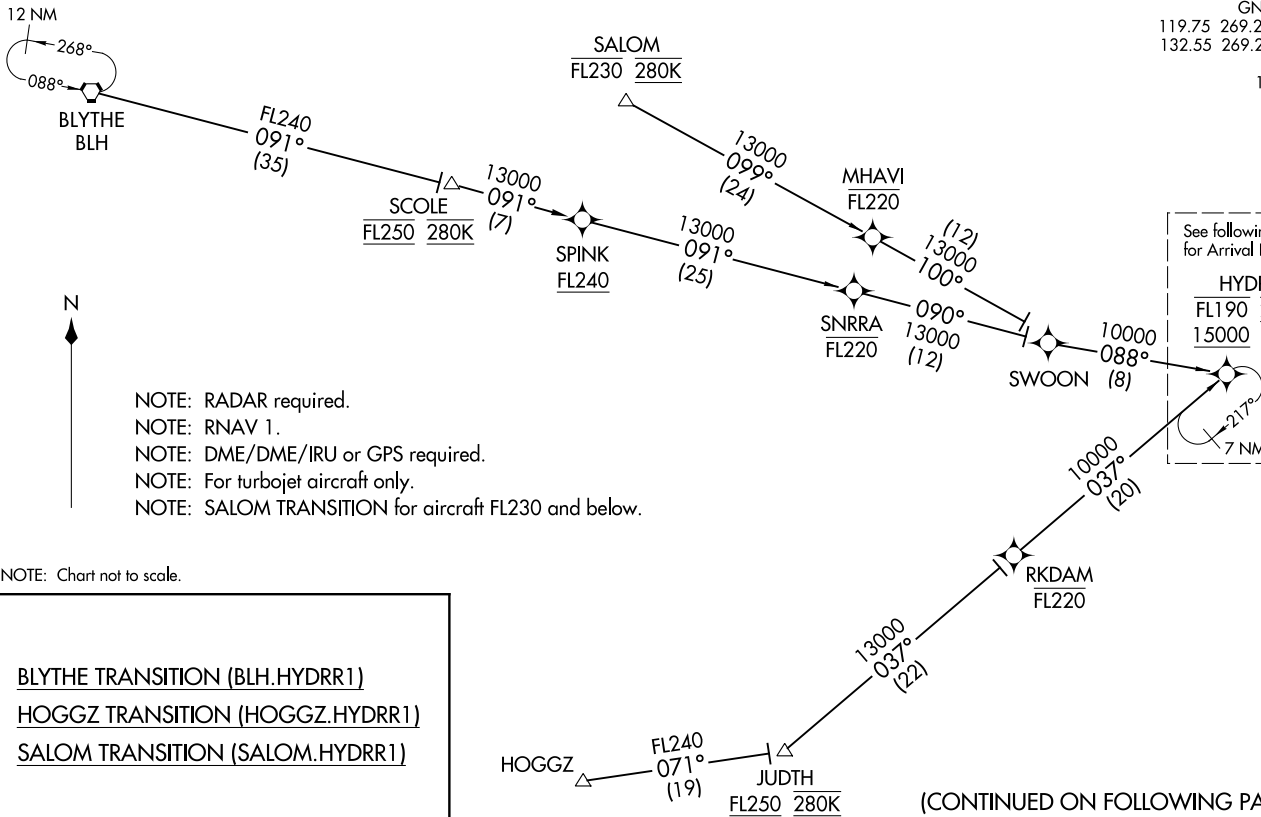
AL-322 (FAA)
 Transition Routes

PHOENIX SKY HARBOR INTL (PHX)
 PHOENIX, ARIZONA

PHOENIX APP CON
 124.1 256.9
 PHOENIX TOWER
 118.7 278.8 (Rwy 8-26)
 120.9 254.3 (Rwy 7R-25L, 7L-25R)
 GND CON
 119.75 269.2 (North)
 132.55 269.2 (South)
 D-ATIS
 127.575

See following page
 for Arrival Routes.

HYDRR
FL190 265K
15000



- NOTE: RADAR required.
- NOTE: RNAV 1.
- NOTE: DME/DME/IRU or GPS required.
- NOTE: For turbojet aircraft only.
- NOTE: SALOM TRANSITION for aircraft FL230 and below.

NOTE: Chart not to scale.

BLYTHE TRANSITION (BLH.HYDRR1)
HOGGZ TRANSITION (HOGGZ.HYDRR1)
SALOM TRANSITION (SALOM.HYDRR1)

(CONTINUED ON FOLLOWING PAGE)

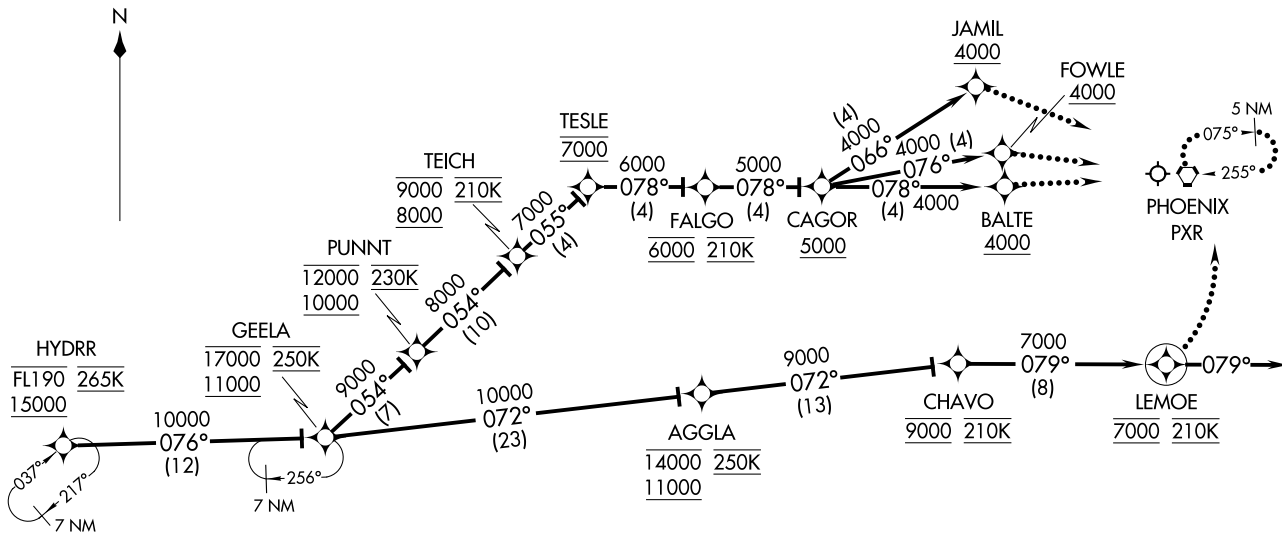
HYDRR ONE ARRIVAL (RNAV)
 (HYDRR.HYDRR1) 18SEP14

Transition Routes

PHOENIX, ARIZONA
 PHOENIX SKY HARBOR INTL (PHX)

NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: For turbojet aircraft only.

PHOENIX APP CON 124.1 256.9
PHOENIX TOWER 118.7 278.8 (Rwy 8-26)
120.9 254.3 (Rwy 7R-25L, 7L-25R)
GND CON 119.75 269.2 (North)
132.55 269.2 (South)
D-ATIS 127.575



(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

HYDRR ONE ARRIVAL (RNAV) Arrival Routes
(HYDRR, HYDRR1) 18SEP14

PHOENIX, ARIZONA
PHOENIX SKY HARBOR INTL (PHX)

(HYDRR, HYDRR1) 17117
HYDRR ONE ARRIVAL (RNAV) Arrival Routes
AL-322 (FAA)

PHOENIX, ARIZONA
PHOENIX SKY HARBOR INTL (PHX)

ARRIVAL ROUTE DESCRIPTION

From HYDRR on track 076° track to cross GEELA at/above 11000 and at/below 17000 at 250K.

LANDING RUNWAY 7L: From GEELA on track 054° to cross PUNNT at/above 10000 and at/below 12000 and at 230K, then on track 054° to cross TEICH at/above 8000 and at/below 9000 and at 210K, then on track 055° to cross TESLE at 7000, then on track 078° to cross FALGO at 6000 and at 210K, then on track 078° to cross CAGOR at/above 5000, then on track 076° to cross FOWLE at/above 4000. Expect ILS RWY 7L approach or RADAR vectors to final approach course.

LANDING RUNWAY 7R: From GEELA on track 054° to cross PUNNT at/above 10000 and at/below 12000 and at 230K, then on track 054° to cross TEICH at/above 8000 and at/below 9000 and at 210K, then on track 055° to cross TESLE at 7000, then on track 078° to cross FALGO at 6000 and at 210K, then on track 078° to cross CAGOR at/above 5000, then on track 078° to cross BALTE at/above 4000. Expect ILS RWY 7R approach or RADAR vectors to final approach course.

LANDING RUNWAY 8: From GEELA on track 054° to cross PUNNT at/above 10000 and at/below 12000 and at 230K, then on track 054° to cross TEICH at/above 8000 and at/below 9000 and at 210K, then on track 055° to cross TESLE at 7000, then on track 078° to cross FALGO at 6000 and at 210K, then on track 078° to cross CAGOR at/above 5000, then on track 066° to cross JAMIL at/above 4000. Expect ILS RWY 8 approach or RADAR vectors to final approach course.

LANDING RUNWAYS 25L, 25R, 26: From GEELA on track 072° to cross AGGLA at/above 11000 and at/below 14000 and at 250K, then on track 072° to cross CHAVO at 9000 and at 210K, then on track 079° to cross LEMOE at 7000 at 210K, then on track 079°. Expect RADAR vectors to final approach course.

LOST COMMUNICATIONS

LANDING RUNWAY 7L: At FOWLE intercept and execute RWY 7L ILS approach. If unable, proceed direct PXR VORTAC and hold, maintain 9000.

LANDING RUNWAY 7R: At BALTE intercept and execute RWY 7R ILS approach. If unable, proceed direct PXR VORTAC and hold, maintain 9000.

LANDING RUNWAY 8: At JAMIL intercept and execute RWY 8 ILS approach. If unable, proceed direct PXR VORTAC and hold, maintain 9000.

LANDING RUNWAY 25L: At LEMOE turn left, intercept and execute RWY 25L ILS approach. If unable, proceed direct PXR VORTAC and hold, maintain 9000.

LANDING RUNWAY 25R: At LEMOE turn left, intercept and execute RWY 25R RNAV (GPS) approach. If unable, proceed direct PXR VORTAC and hold, maintain 9000.

LANDING RUNWAY 26: At LEMOE, turn left, intercept and execute RWY 26 ILS approach. If unable, proceed direct PXR VORTAC and hold, maintain 9000.

(JESSE.JESSE3) 23334

JESSE THREE ARRIVAL

AL-322 (FAA)

PHOENIX SKY HARBOR INTL (PHX)
PHOENIX, ARIZONA

PHOENIX APP CON
128.65 353.9
PHOENIX TOWER
118.7 278.8 (Rwy 8-26)
120.9 254.3 (Rwy 7L-25R, 7R-25L)
GND CON
119.75 269.2
D-ATIS
127.575

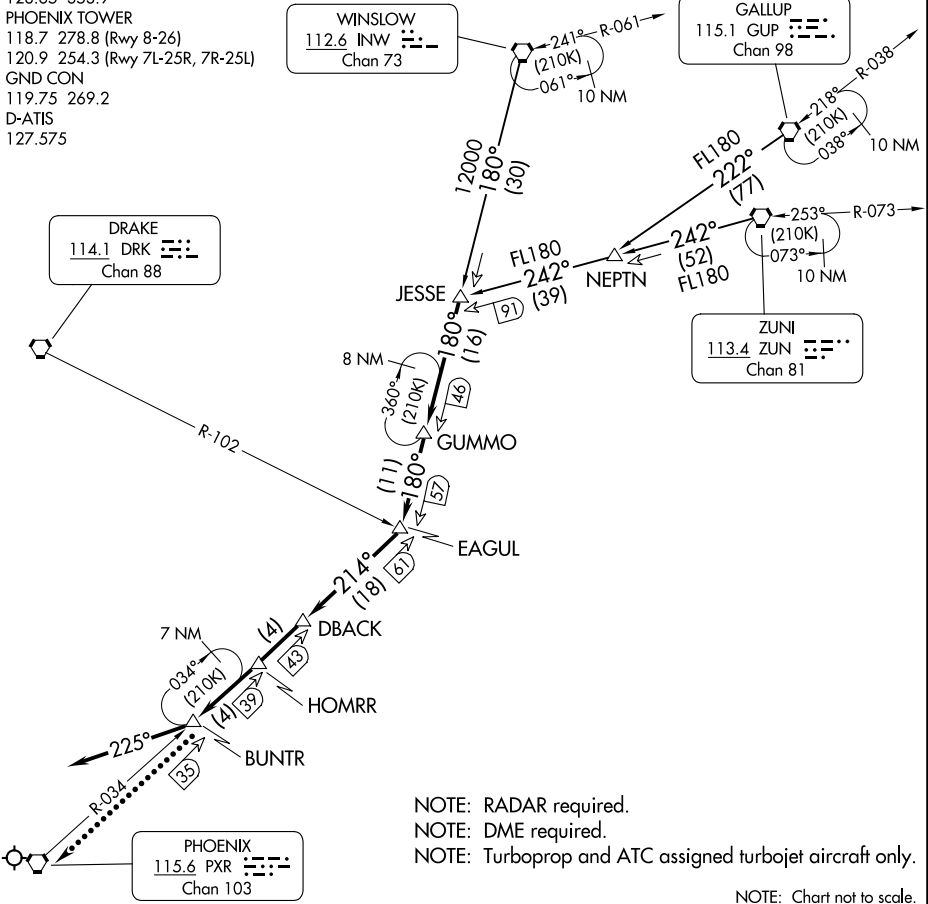
WINSLOW
112.6 INW
Chan 73

GALLUP
115.1 GUP
Chan 98

DRAKE
114.1 DRK
Chan 88

ZUNI
113.4 ZUN
Chan 81

PHOENIX
115.6 PXR
Chan 103



NOTE: RADAR required.
 NOTE: DME required.
 NOTE: Turboprop and ATC assigned turbojet aircraft only.

NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

GALLUP TRANSITION (GUP.JESSE3): From over GUP VORTAC on GUP R-222 and ZUN R-242 to JESSE. Thence. . .

WINSLOW TRANSITION (INW.JESSE3): From over INW VORTAC on INW R-180 to JESSE. Thence. . .

ZUNI TRANSITION (ZUN.JESSE3): From over ZUN VORTAC on ZUN R-242 to JESSE. Thence. . .

. . . From over JESSE on INW R-180 to GUMMO, then on INW R-180 to EAGUL, then on PXR R-034 to DBACK, then on PXR R-034 to HOMRR, then on PXR R-034 to BUNTR, after BUNTR fly heading 225°, expect RADAR vectors to final approach course.

LOST COMMUNICATIONS

After BUNTR, proceed direct to PXR VORTAC.

JESSE THREE ARRIVAL

(JESSE.JESSE3) 02DEC21

PHOENIX, ARIZONA
PHOENIX SKY HARBOR INTL (PHX)

SW-4, 22 FEB 2024 to 21 MAR 2024

SW-4, 22 FEB 2024 to 21 MAR 2024

PHOENIX APP CON
 124.1 256.9
 PHOENIX TOWER
 118.7 278.8 (Rwy 8-26)
 120.9 254.3 (Rwys 7R-25L, 7L-25R)
 GND CON
 119.75 269.2 (North)
 132.55 269.2 (South)
 D-ATIS
 127.575

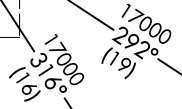
(PINNG.PINNG1) 17117
 AL-322 (FAA)
 PHOENIX SKY HARBOR INTL (PHX)
 PHOENIX, ARIZONA

NOTE: RADAR required.
 NOTE: RNAV 1.
 NOTE: DME/DME/IRU or GPS required.
 NOTE: Turbojet aircraft only.



See following page
 for Arrival Routes.

PINNG
 17000 270K

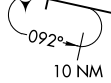


HOTT
 FL250 280K
 FL220

HYBRD
 FL250
 FL220



BNNKR
 FL280 280K
 FL250



FL240
 272°
 (74)

DRRVR

DRRVR TRANSITION (DRRVR.PINNG1)
HOTT TRANSITION (HOTT.PINNG1)

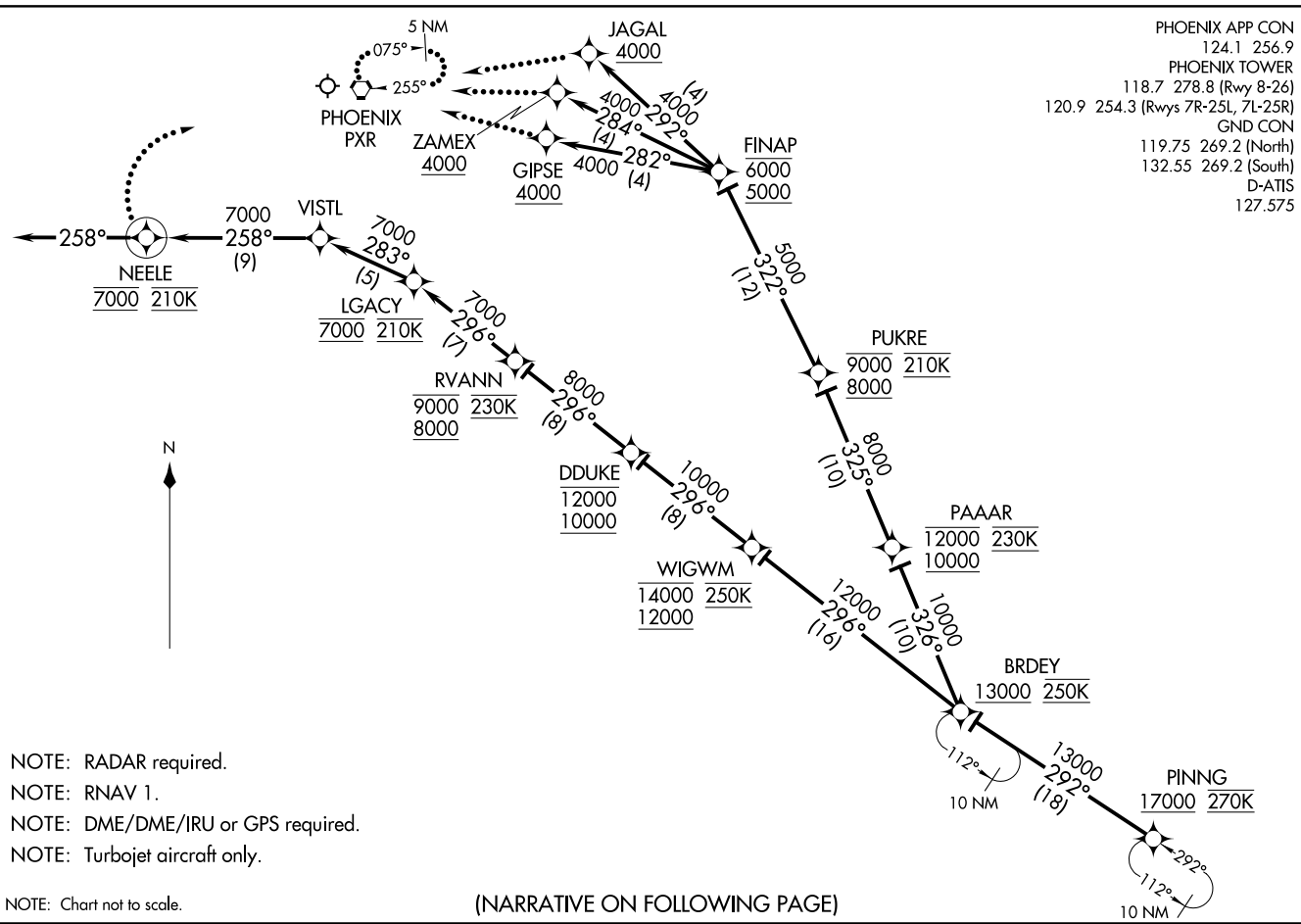
NOTE: Chart not to scale.

(CONTINUED ON FOLLOWING PAGE)

PINNG ONE ARRIVAL (RNAV) Transition Routes
 (PINNG.PINNG1) 13SEP14
 PHOENIX, ARIZONA
 PHOENIX SKY HARBOR INTL (PHX)

PINING ONE ARRIVAL (RNAV) Arrival Routes
(PINING, PINING1) 13SEP14

PHOENIX, ARIZONA
PHOENIX SKY HARBOR INTL (PHX)



(PINING, PINING1) 17117
AL-322 (FAA)
Arrival Routes

PHOENIX SKY HARBOR INTL (PHX)
PHOENIX, ARIZONA

ARRIVAL ROUTE DESCRIPTION

From PINNG on track 292° to cross BRDEY at/above 13000 and at 250K.

LANDING RUNWAYS 7L, 7R, 8: From BRDEY on track 296° to cross WIGWM at/above 12000 and at/below 14000 and at 250K, then on track 296° to cross DDUKE at/above 10000 and at/below 12000, then on track 296° to cross RVANN at/above 8000 and at/below 9000 and at 230K, then on track 296° to cross LGACY at 7000 and at 210K, then on track 283° to VISTL, then on track 258° to cross NEELE at 7000 and at 210K, then on track 258°. Expect RADAR vectors to final approach course.

LANDING RUNWAY 25L: From BRDEY on track 326° to cross PAAAR at/above 10000 and at/below 12000 and at 230K, then on track 325° to cross PUKRE at/above 8000 and at/below 9000 and at 210K, then on track 322° to cross FINAP at/above 5000 and at/below 6000, then on track 282° track to cross GIPSE at/above 4000. Expect ILS or LOC RWY 25L approach or RADAR vectors to final approach course.

LANDING RUNWAY 25R: From BRDEY on track 326° to cross PAAAR at/above 10000 and at/below 12000 and at 230K, then on track 325° to cross PUKRE at/above 8000 and at/below 9000 and at 210K, then on track 322° to cross FINAP at/above 5000 and at/below 6000, then on track 284° to cross ZAMEX at/above 4000. Expect RNAV (GPS) Y or (RNP) Z RWY 25R approach or RADAR vectors to final approach course.

LANDING RUNWAY 26: From BRDEY on track 326° to cross PAAAR at/above 10000 and at/below 12000 and at 230K, then on track 325° to cross PUKRE at/above 8000 and at/below 9000 and at 210K, then on track 322° to cross FINAP at/above 5000 and at/below 6000, then on track 292° to cross JAGAL at/above 4000. Expect ILS or LOC RWY 26 approach or RADAR vectors to final approach course.

LOST COMMUNICATIONS

LANDING RUNWAY 7L: At NEELE turn right, intercept and execute RWY 7L ILS approach. If unable, proceed direct PXR VORTAC and hold, maintain 9000.

LANDING RUNWAY 7R: At NEELE turn right, intercept and execute RWY 7R ILS approach. If unable, proceed direct PXR VORTAC and hold, maintain 9000.

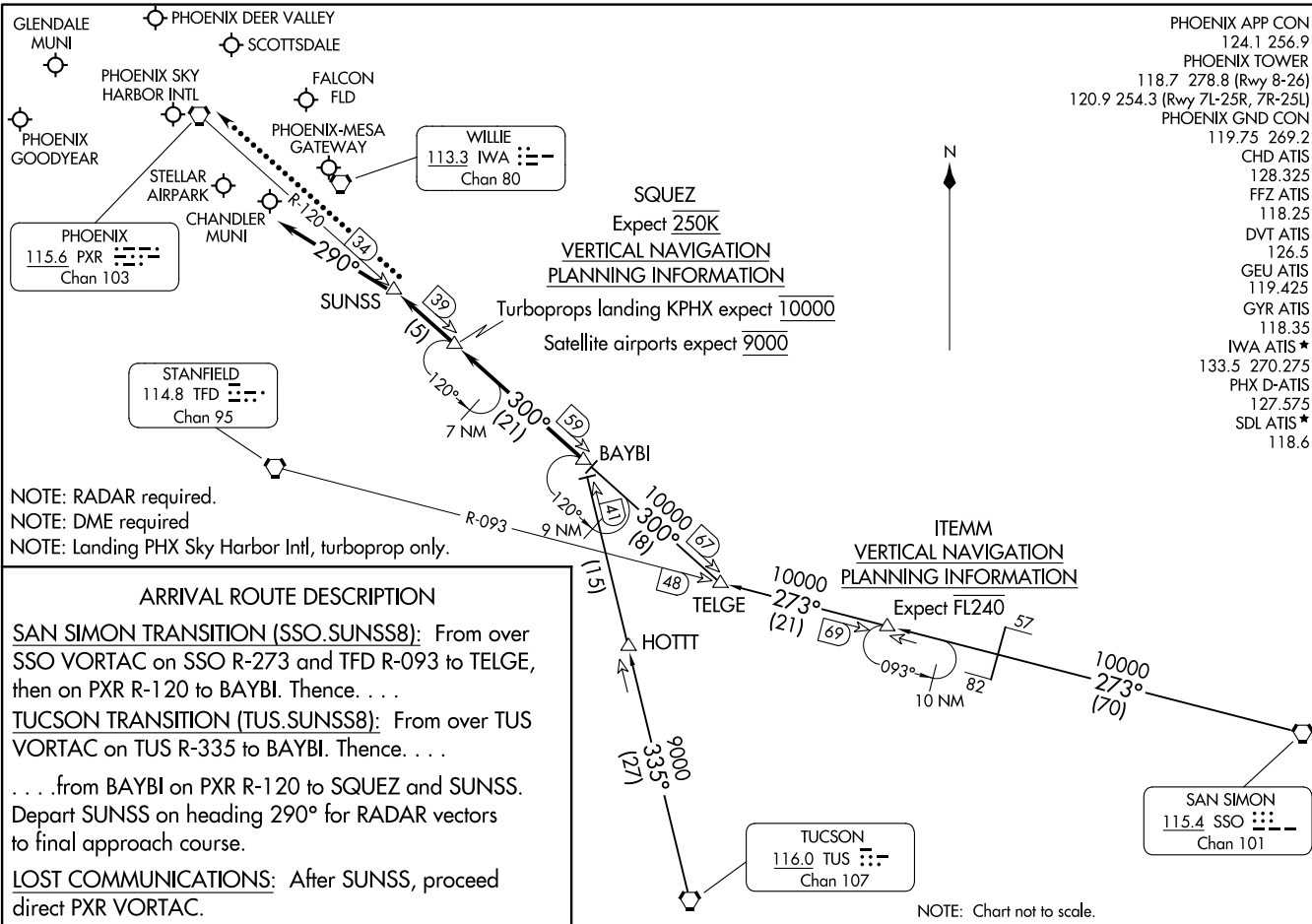
LANDING RUNWAY 8: At NEELE turn right, intercept and execute RWY 8 ILS approach. If unable, proceed direct PXR VORTAC and hold, maintain 9000.

LANDING RUNWAY 25L: At GIPSE intercept and execute RWY 25L ILS approach. If unable, proceed direct PXR VORTAC and hold, maintain 9000.

LANDING RUNWAY 25R: At ZAMEX intercept and execute RWY 25R RNAV (GPS) approach. If unable, proceed direct PXR VORTAC and hold, maintain 9000.

LANDING RUNWAY 26: At JAGAL intercept and execute RWY 26 ILS approach. If unable, proceed direct PXR VORTAC and hold, maintain 9000.

SUNSS EIGHT ARRIVAL
 (BAYBI.SUNSS8) 27APR17



- PHOENIX APP CON 124.1 256.9
 PHOENIX TOWER 118.7 278.8 (Rwy 8-26)
 120.9 254.3 (Rwy 7L-25R, 7R-25L)
 PHOENIX GND CON 119.75 269.2
 CHD ATIS 128.325
 FFZ ATIS 118.25
 DVT ATIS 126.5
 GEU ATIS 119.425
 GYR ATIS 118.35
 IWA ATIS ★ 133.5 270.275
 PHX D-ATIS 127.575
 SDL ATIS ★ 118.6

(BAYBI.SUNSS8) 23334
 SUNSS EIGHT ARRIVAL

AL-322 (FAA)

PHOENIX, ARIZONA

NOTE: RADAR required.
 NOTE: DME required
 NOTE: Landing PHX Sky Harbor Intl, turboprop only.

ARRIVAL ROUTE DESCRIPTION
SAN SIMON TRANSITION (SSO.SUNSS8): From over SSO VORTAC on SSO R-273 and TFD R-093 to TELGE, then on PXR R-120 to BAYBI. Thence. . . .
TUCSON TRANSITION (TUS.SUNSS8): From over TUS VORTAC on TUS R-335 to BAYBI. Thence. . . .
 . . . from BAYBI on PXR R-120 to SQUEZ and SUNSS. Depart SUNSS on heading 290° for RADAR vectors to final approach course.
LOST COMMUNICATIONS: After SUNSS, proceed direct PXR VORTAC.

PHOENIX, ARIZONA