

Las Vegas Metroplex (LVM) L30/LAS/HND/VGT SID/STAR/Q-Route Briefing

Changes Effective
February 25, 2021

Presented by: Virtual Los Angeles ARTCC Staff

Date: February 25th, 2021



Virtual
Los Angeles
ARTCC



Pilot and Controller Expectations

Controller FAQ

Q: Should I switch pilots to the new routes?

A: Not yet. The FAA is leaving the existing procedures in place for at least once cycle. We do not expect many VATSIM pilots to be up to date for several months and expect to continue to support old procedures for at least six (6) months. While pilots generally update faster than they did, some pilots may never update. The training staff will provide guidance when the time comes to start asking pilots if they can accept new procedures. We expect many will transition to them on their own.

Q: How do I issues descents for the new STARs?

A: From the En Route Environment: *Descend via Rounders One Arrival, Runway 26 Left Transition*. Ref. 7110.65 4-5-7(h)

Q: Are There New Scratchpad Codes?

A: Yes. The table will be updated with new scratchpad entries.

Q: Will New Departures be Climb Via?

A: Yes. "Climb via SID" will continue to be the norm at Las Vegas. Henderson and North Las Vegas will remain the same as well. The TRACON ceiling is still FL190 (above 29.92inHg).

Q: Will There be Updated Video Maps?

A: We are working on updating the video maps. New facility files with updated data are now live at <https://laartcc.org/downloads>.



Quick Reference Guide - SIDs

Old SID	New SID	Transitions	Top Altitude	Notes
BOACH8	RADYR1	BLAQQ BLH BOJAC HEC LVELL SLVRR	FL190	
STAAV8	GIDGT1	VERKN TUKRR	FL190	
HOOVR6	HOOVR7	BAVPE DVC DRK MLF	7000	
SHEAD1	JOHKR1	KENNO	FL190	
SHEAD1	LOHLA1	JAYSN	14000	For Janet/NTTR/Military Only flights
MCCRN5	MCCRN6	HEC LIDAT TNP	As assigned	
COWBY8	NIITZ1	HOCEE IWANS SSKEE TUKRR	FL190	TUKRR and IWANS: ATC assigned only
PRFUM4	RASLR1	ZAYNE	FL190	
STAAV8 TRALR 9	RATPK1	FRNCK KITTN	FL190	KITTN: ATC assigned only

Thanks to Judson Clark and Ben Blier for compiling this table



Thanks to Judson Clark and Ben Blier for compiling this table

Quick Reference Guide - STARS

Old STAR	New STAR	Transitions	Runway 26L/R	Runway 19L/R	Runway 01L/R	Runway 08L/R
CLARR3	LARKK1	DAG TNP	n/a	n/a	n/a	n/a
CRESO4	CRESO4	DAG HEC	26L: BLD -- ILS	n/a	n/a	n/a
FUZZY8	PUMLE1	BTY	n/a	n/a	n/a	n/a
KADDY3	ISHEE1	DRK PGS	n/a	n/a	n/a	n/a
KEPEC6	RNDRZ1	MISEN TNP EED (ATC only)	Both: BERBN -- ILS RNAV	n/a	1L: ROAMN -- ILS	8R: YAGGR -- RNAV
LUXOR2	BLAID1	BCE PGA MLF	n/a	n/a	n/a	n/a
SITEE4	CHOWW1	GGAPP STEWW TYEGR	26L: PRINO -- ILS RNAV 26R: FLYES -- ILS RNAV	Both: PPENN -- RNAV Z	1L: TRREY -- ILS 1R: BUHLL -- RNAV	n/a
SUNST4	COKTL1	BASIC FLCHR GIINN (ATC only)	BERBN -- ILS RNAV	n/a	1L: ROAMN -- ILS	8R: YAGGR -- RNAV
TYSSN5	RKSTR1	ELLDA HAHAA SQIRE	26L: PRINO -- ILS RNAV 26R: FLYES -- ILS RNAV	Both: PPENN -- RNAV Z	1L: TRREY -- ILS 1R: BUHLL -- RNAV	8R: YAGGR -- RNAV
n/a	JAYSN1	BYRDY	Both: BERBN -- ILS RNAV	n/a	n/a	8R: YAGGR -- RNAV
n/a	GAMES1	FUULL	n/a	n/a	n/a	n/a



Quick Reference Guide - IAFs

Runway	IAF	Altitude/Speed
1L	ROAMN	8000 / 210K
1L	TRREY	7000 / 210K
1R	BUHLL	7000 / 210K
8L/R	YAGGR	8000 / 210K
19L/R	BERBN	8000 / 210K
19L/R	PPENN	6000 / 210K
26L/R	BERBN	8000 / 210K
26L	PRINO	8000 / 210K
26R	FLYES	8000 / 210K

Thanks to Judson Clark and Ben Blier for compiling this table



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Quick Reference Guide - IAPs

Runway	Approach	FAF	FAF Altitude	Transitions	Missed
26L	ILS LOC	RELIN	3800	PRINO LARRE BERBN BLD	Climb 3200, CRT 6000 on 080 and BLD R-286 to BLD and hold
26L	RNAV (GPS)	RELIN	3800	PRINO LARRE BERBN	Climb 7000 on the RNAV missed approach route to BLD and hold
26R	ILS LOC	CONDY	3800	FLICR HAWKO FLYES BERBN	Climb 3200, CRT 6000 on 080 and BLD R-286 to BLD and hold
26R	RNAV (GPS)	CONDY	3800	FLYES FLICR BERBN	Climb 7000 on the RNAV missed approach route to BLD and hold
19L	RNAV (GPS) Y	DIRDE	4300	SUVIE STORA	Climb 2600, CLT 6000 direct LAPIN and hold
19L	RNAV (RNP) Z	KOOPA	3500	PPENN KIVEY	Climb 7000 direct MATLR and hold
19R	RNAV (GPS) Y	WAKSI	4300	SUVIE STORA	Climb 2600, CLT 6000 direct LAPIN and hold
19R	RNAV (RNP) Z	GIMBL	3500	PPENN KIVEY	Climb 7000 direct MATLR and hold
1L	ILS LOC	NODIY	5300	KRUDY ROAMN TRREY	Climb 3000, CRT 7000 direct BLD and hold
1R	RNAV (GPS)	KIBSE	5100	CAKNU BUHLL	Climb 2700, CRT 7000 direct HAIDN and hold
8R	RNAV (RNP)	BHARP	3800	YAGGR	Climb 7000 on the RNAV missed approach route to VMPRE and hold



New LVM SIDs

KLAS

- KLAS GIDGT RNAV SID
- KLAS JOHKR RNAV SID
- KLAS NIITZ RNAV SID
- KLAS RASLR RNAV SID
- KLAS RADYR RNAV SID
- KLAS RATPK RNAV SID
- KLAS HOOVR SID (Redesign)
- KLAS MCCRN SID (Redesign)
- KLAS LOHLA SID (See Note)



KLAS GIDGT RNAV SID

Pronounced:

“Gidget”

Replaces:

TRALR/STAAV RNAV

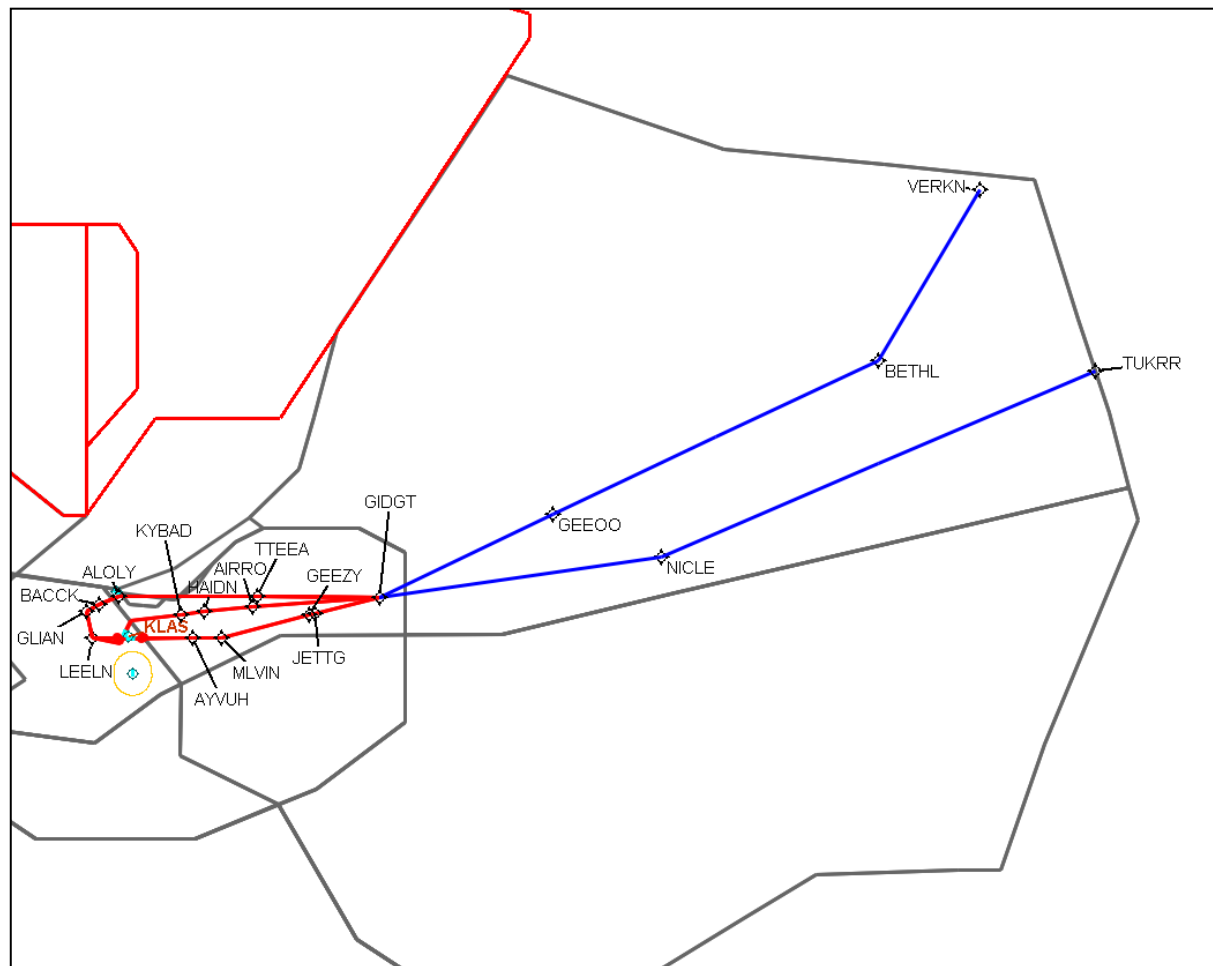
SIDs

RWYs Served:

01L/R, 08L/R, 19L/R,

26L/R

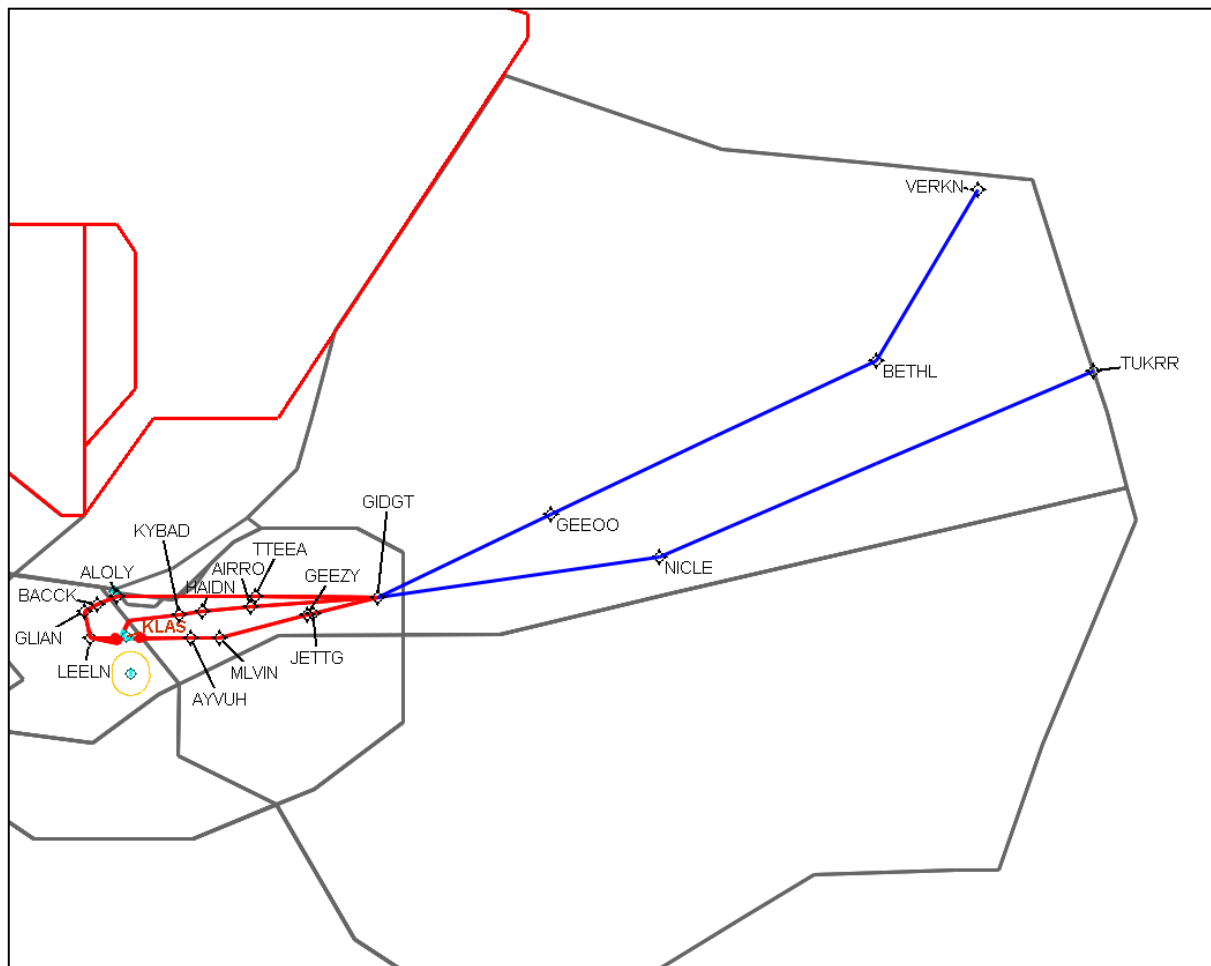
**A/C Types: Turbojet
only**



KLAS GIDGT RNAV SID - Cont.

Transitions:

- VERKN (Existing WP)
- TUKRR (“Tucker”)
 - 365111.14N
 - 1113920.65W



KLAS GIDGT ROUTE UPDATES

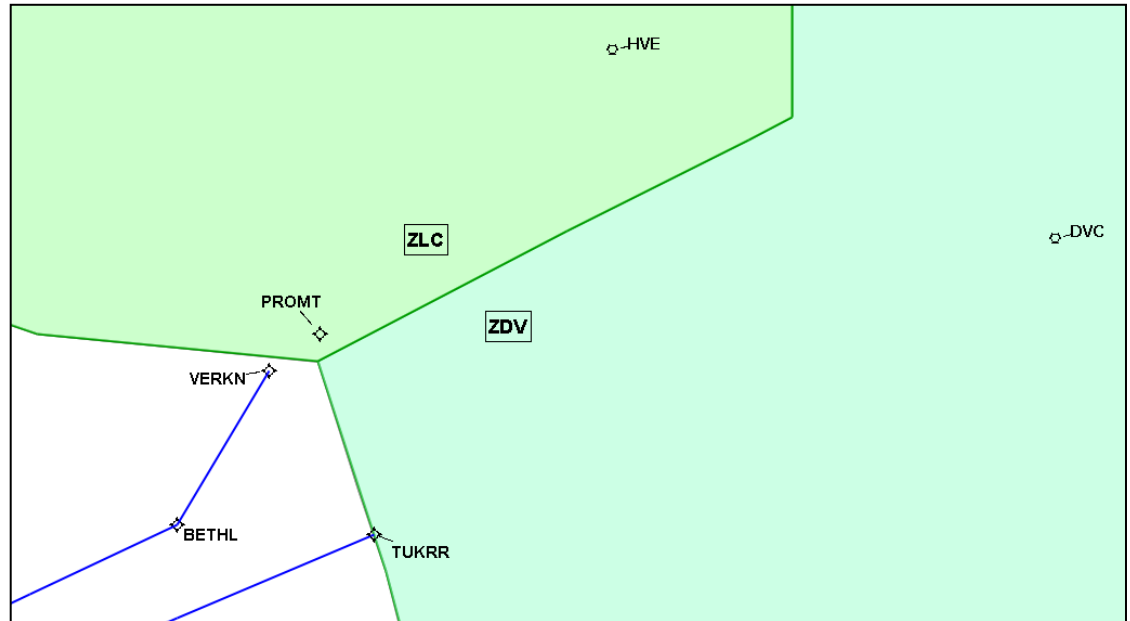
CURRENT SID:	NEW SID:
STAAV8/TRALR9.MLF	SEE RATPK SID
STAAV8/TRALR9.VERKN	GIDGT1.VERKN
STAAV8/TRALR9.DVC	GIDGT1.TUKRR

Please refer to new SOP and required internal routes, letters of agreement for specific altitude and speed restrictions.



KLAS GIDGT: Optimizing After VERKN

- Aircraft via VERKN are transferred from ZLA to ZLC.
- Aircraft via TUKRR are transferred from ZLA to ZDV.



Please do not file routes that turn right immediately after VERKN or PROMT, this causes problems for ATC.



KLAS JOHKR RNAV SID

Pronounced: “Joker”

Replaces: SHEAD

RNAV SID

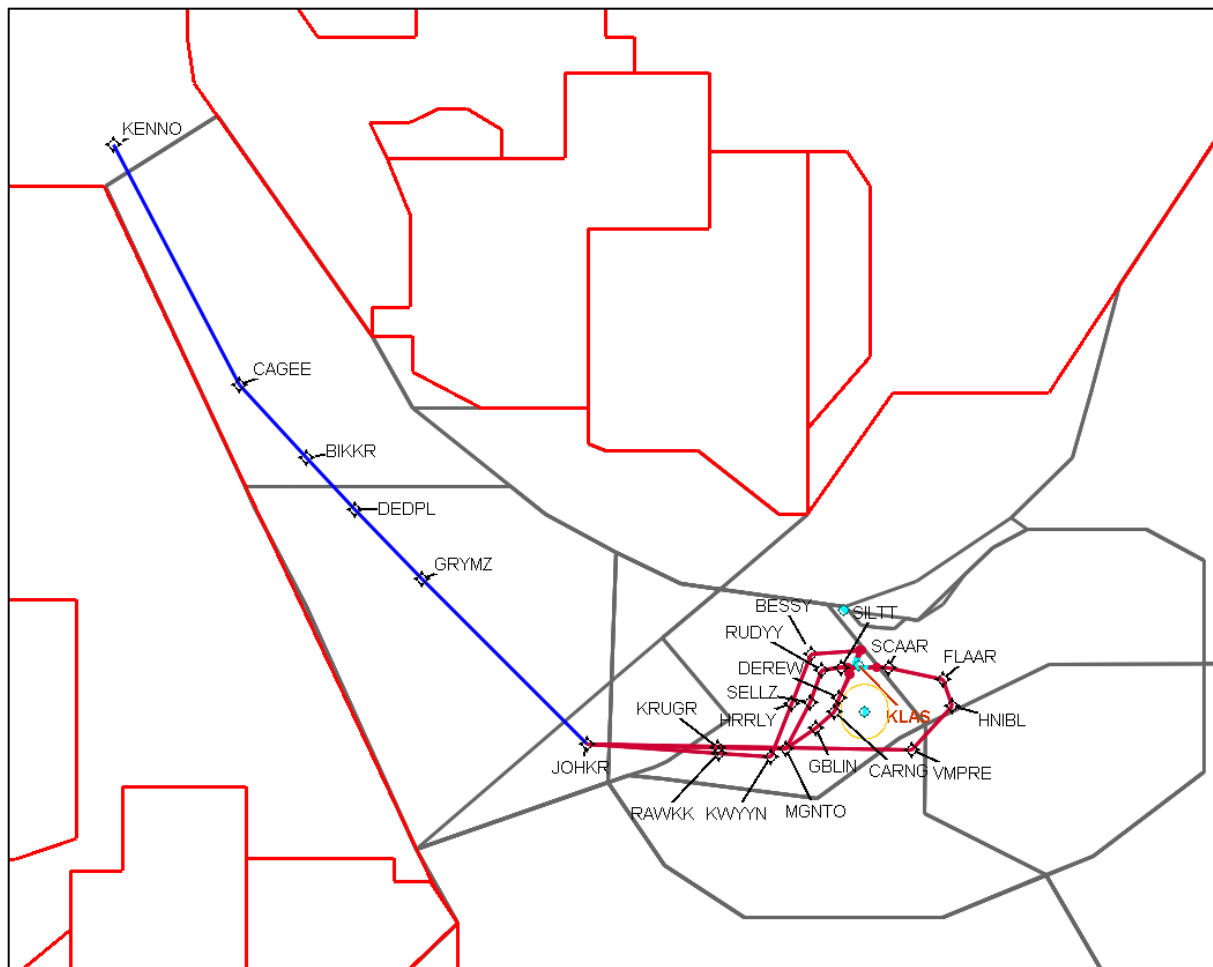
RWYs Served:

**01L/R, 08L/R, 19L/R,
26L/R**

A/C Types: All

RNAV1 aircraft

Transitions: KENNO
(Existing WP)



KLAS JOHKR ROUTE UPDATES

CURRENT SID:	NEW SID:
SHEAD1.KENNO	JOHKR1.KENNO
SHEAD1.OAL	JOHKR1.KENNO..OAL

Please refer to new SOP and required internal routes, letters of agreement for specific altitude and speed restrictions.



KLAS NIITZ RNAV SID

Pronounced:

“Knights”

Replaces: COWBY

RNAV SID

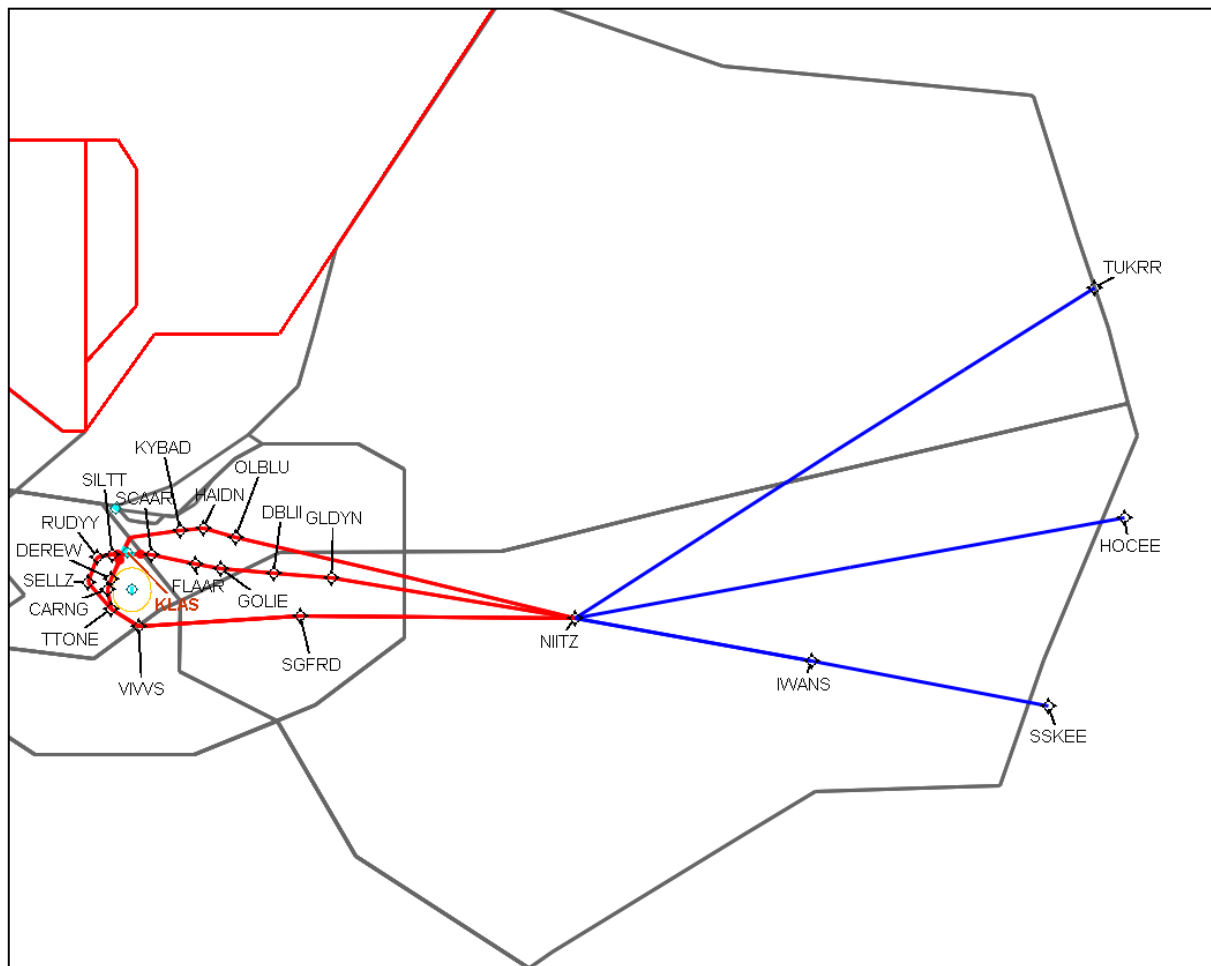
RWYs Served:

01L/R, 08L/R, 19L/R,

26L/R

A/C Types: Turbojet

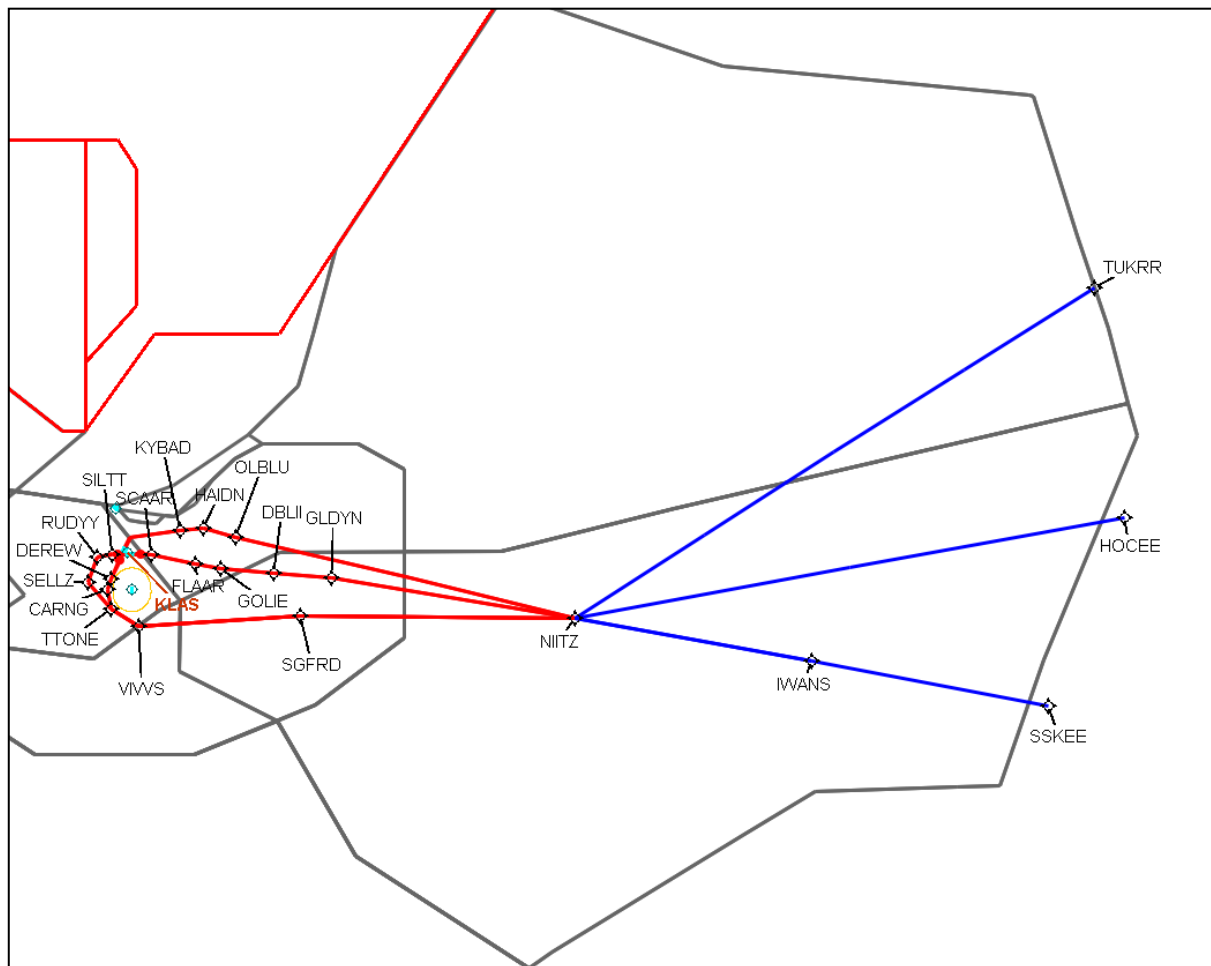
only



KLAS NIITZ RNAV SID - Cont.

Transitions:

- **HOCEE (“Hockey”)**
 - 361049.55N
 - 1113249.25W
- **SSKEE (“Ski”)**
 - 353759.16N
 - 1114927.53W



KLAS NIITZ RNAV SID - Cont.

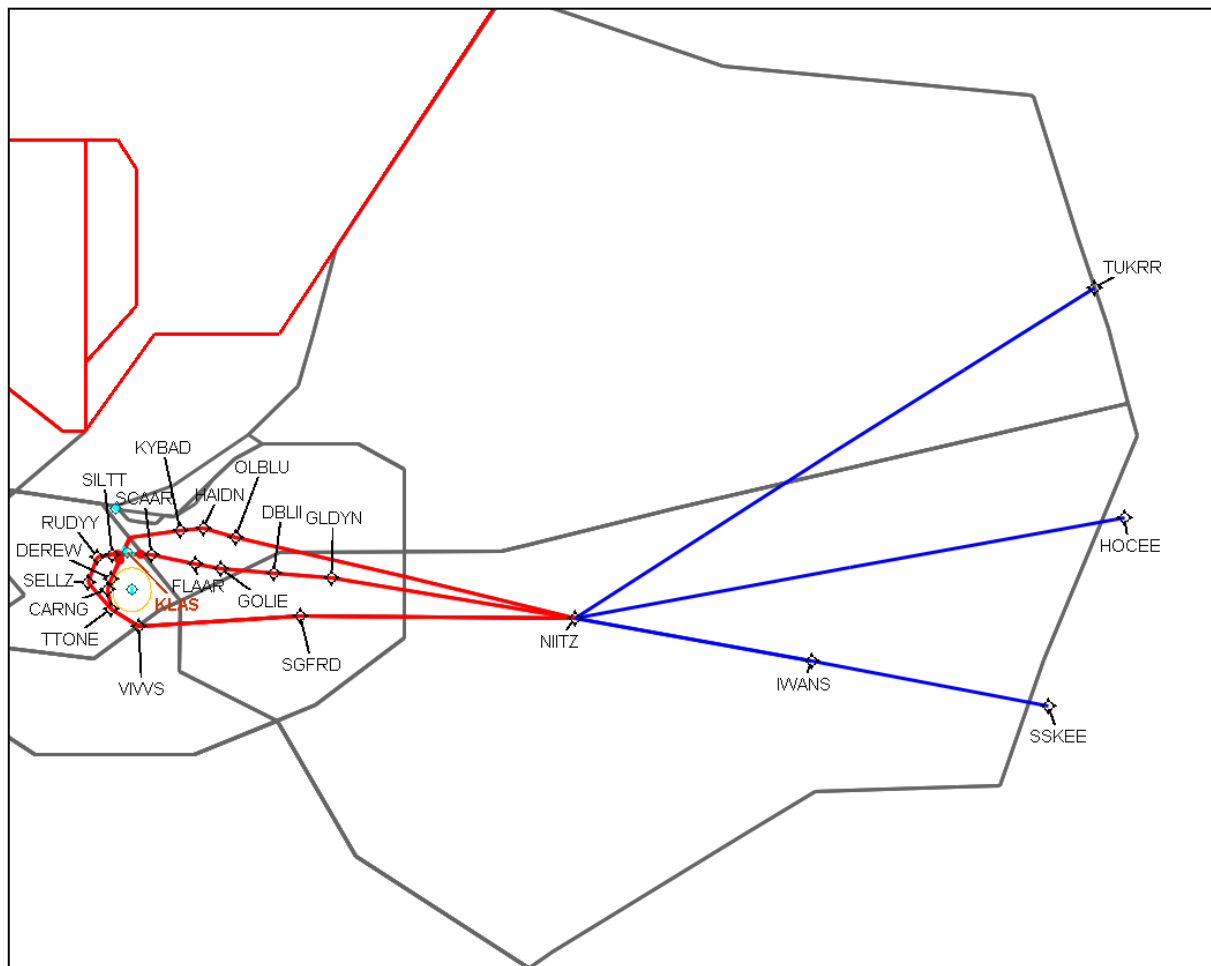
Transitions:

- TUKRR

- ATC Assigned Only
- Use TUKRR transition on GIDGT SID

- IWANS

- ATC Assigned Only



KLAS NIITZ ROUTE UPDATES

CURRENT SID:	NEW SID:
COWBY8.COWBY TO KPHX	SEE RASLR SID
COWBY8.DRK	SEE RASLR SID
COWBY8.INW	NIITZ1.SSKEE
COWBY8.GUP	NIITZ1.SSKEE
COWBY8.COWBY..TBC	NIITZ1.HOCEE

V2
CHG.
HERE

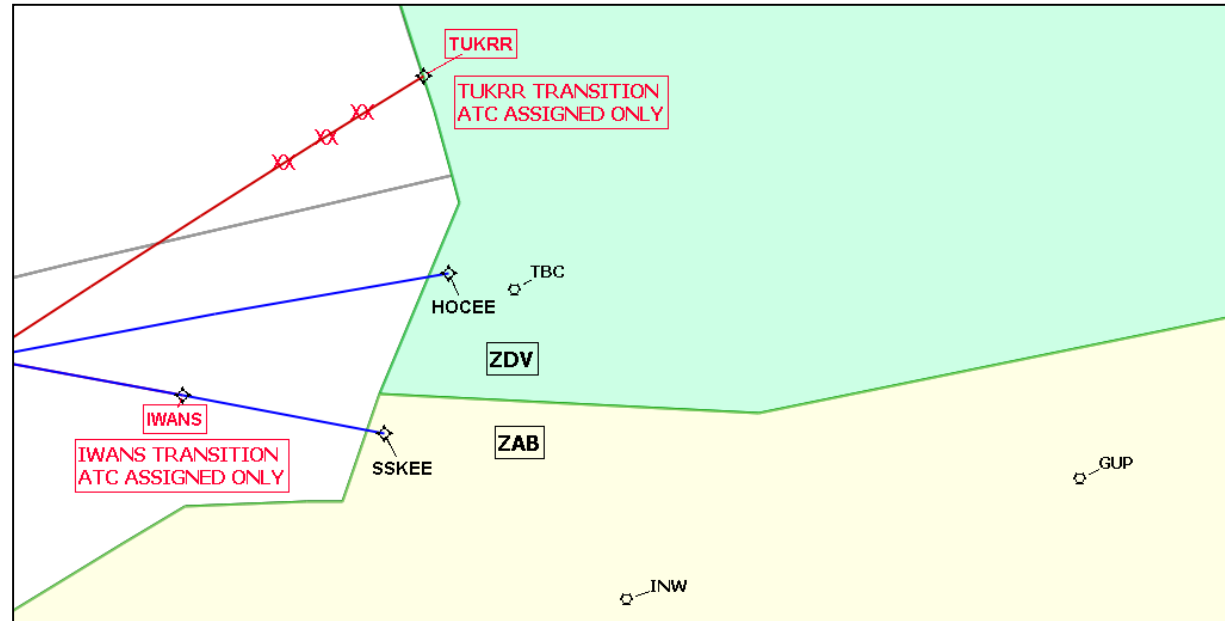
Please refer to new SOP and required internal routes, letters of agreement for specific altitude and speed restrictions.



KLAS NIITZ:

Optimizing After SSKEE

- Aircraft via HOCEE are transferred from ZLA to ZDV.
- Aircraft via SSKEE are transferred from ZLA to ZAB.



Please do not file routes that turn left immediately after SSKEE, this causes problems for ATC.



KLAS RASLR RNAV SID

Pronounced:

“Wrassler”

Replaces: PRFUM

RNAV SID

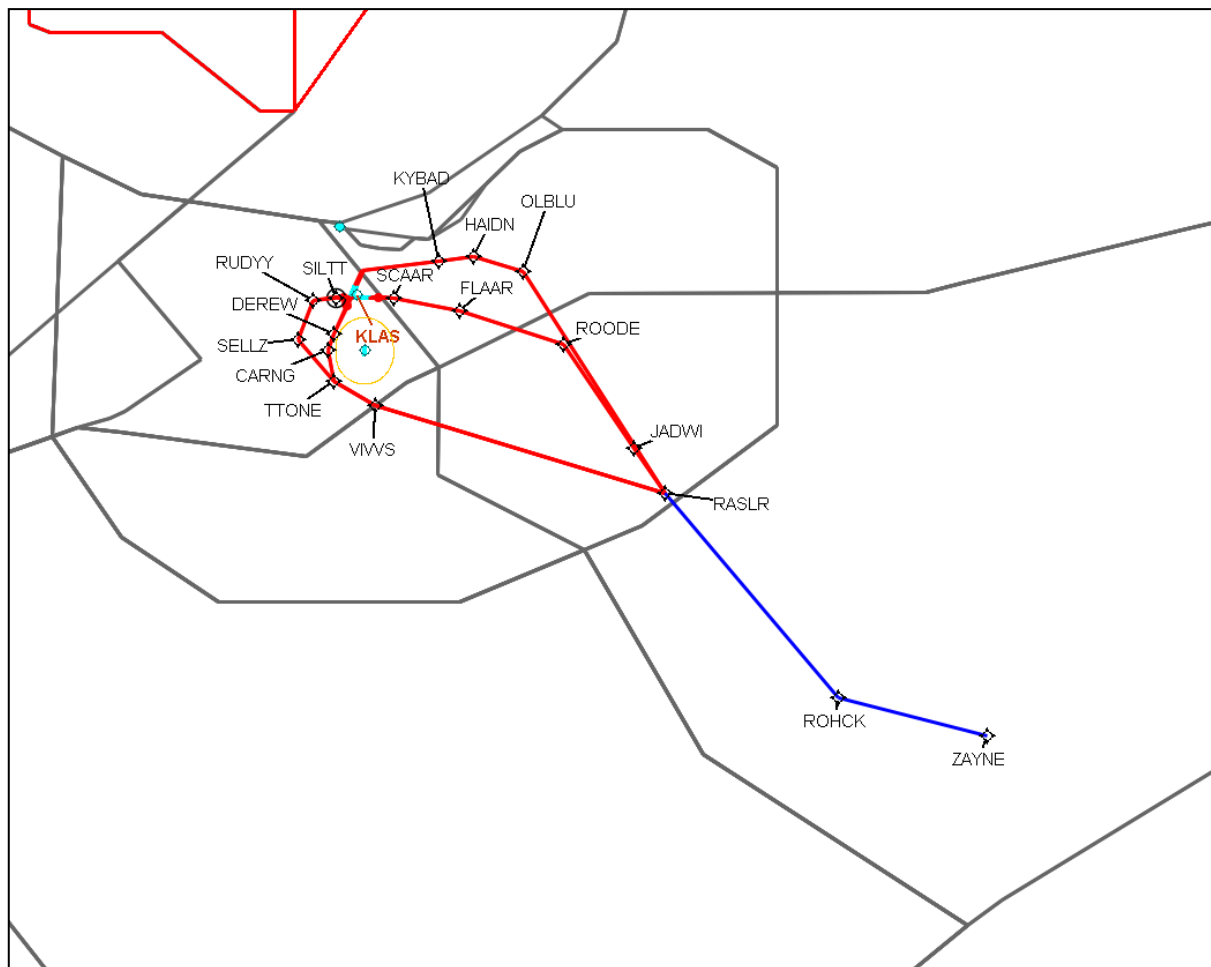
RWYs Served:

01L/R, 08L/R, 19L/R,

26L/R

A/C Types: Turbojet

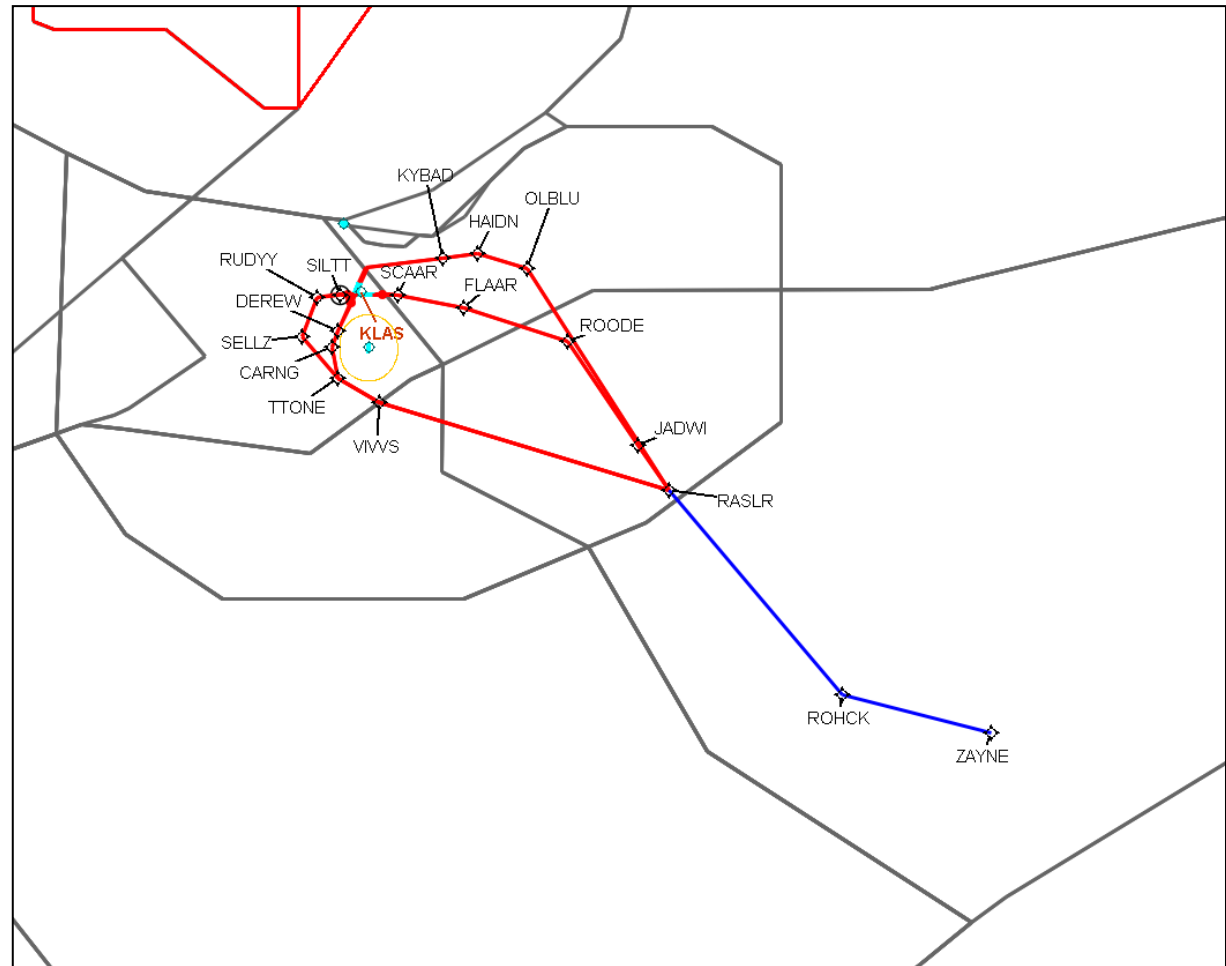
only



KLAS RASLR RNAV SID - Cont.

Transitions:

- **ZAYNE (“Zane”)**
 - **351353.89N**
 - **1133905.51W**



KLAS RASLR ROUTE UPDATES

CURRENT SID/ROUTE:	NEW SID/ROUTE:
PRFUM4.DRK	RASLR1.ZAYNE..DRK
PRFUM/COWBY TO KPHX	.RASLR1.ZAYNE..WOTRO. BRUSR1.

- Optimization not available after ZAYNE.
- Unless landing in the Phoenix terminal area, all aircraft must file to DRK.

Please refer to new SOP and required internal routes, letters of agreement for specific altitude and speed restrictions.



KLAS RADYR RNAV SID

Pronounced:

“Raider”

Replaces: BOACH

RNAV SID

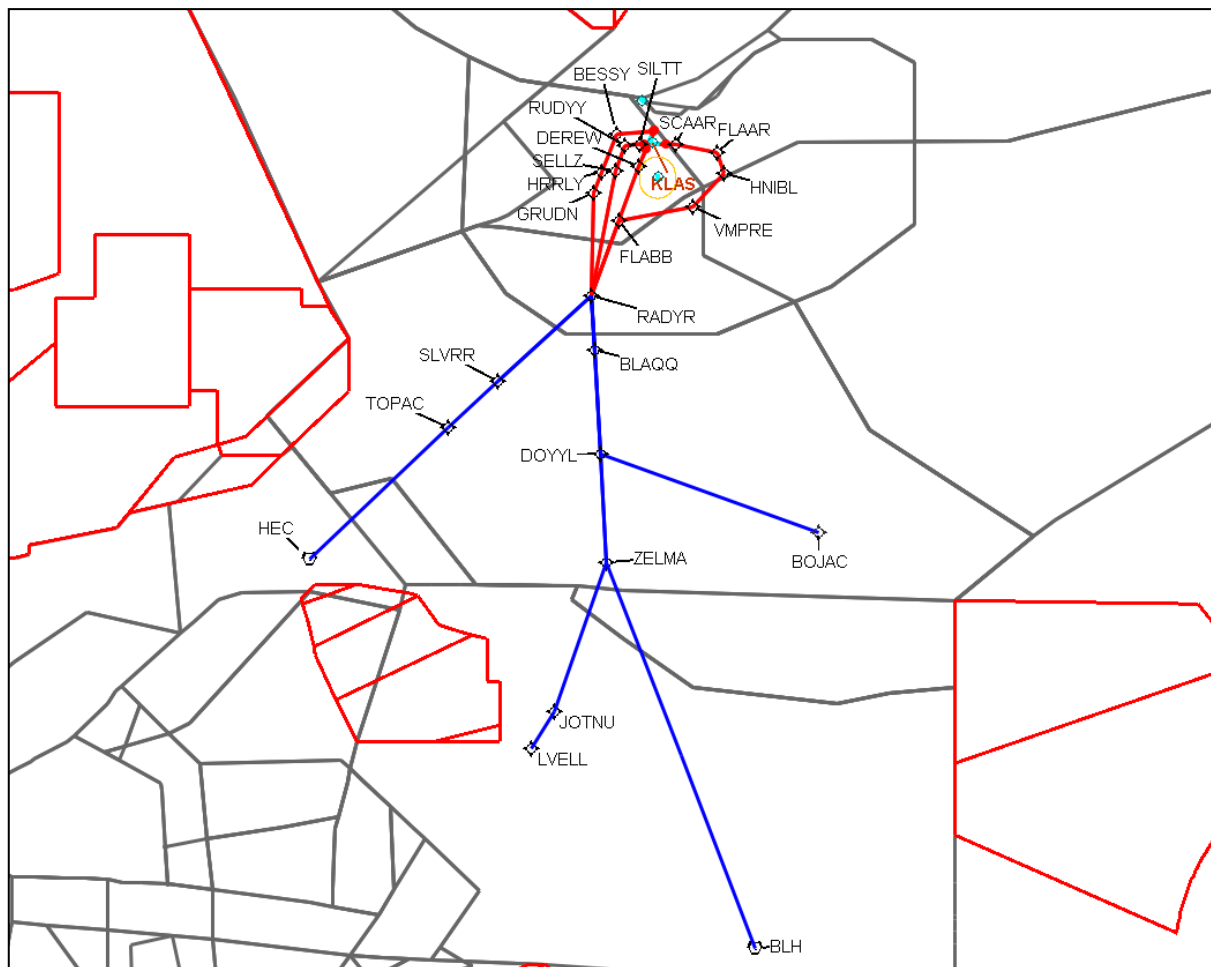
RWYs Served:

01L/R, 08L/R, 19L/R,

26L/R

A/C Types: Turbojet

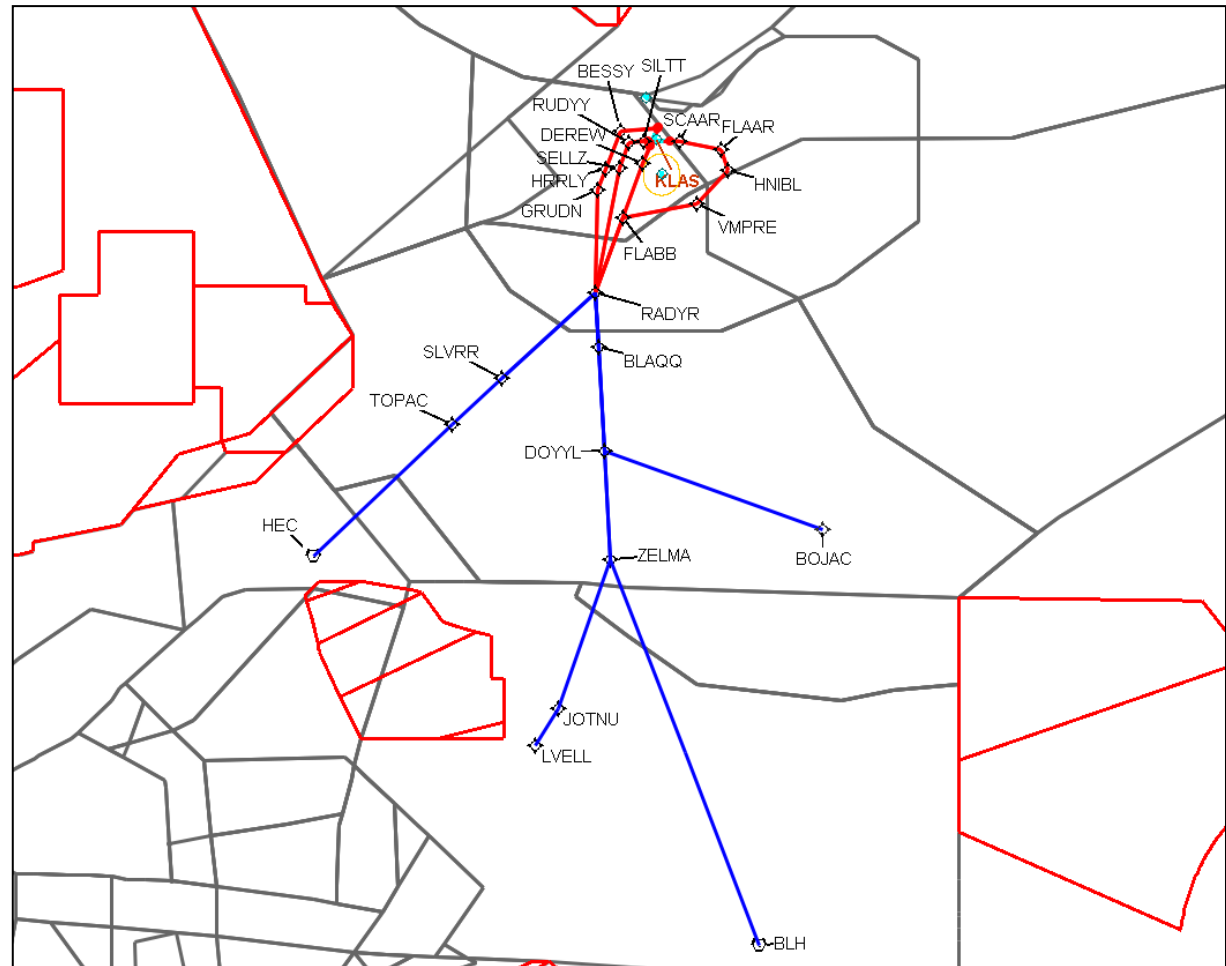
only



KLAS RADYR RNAV SID - Cont.

Transitions:

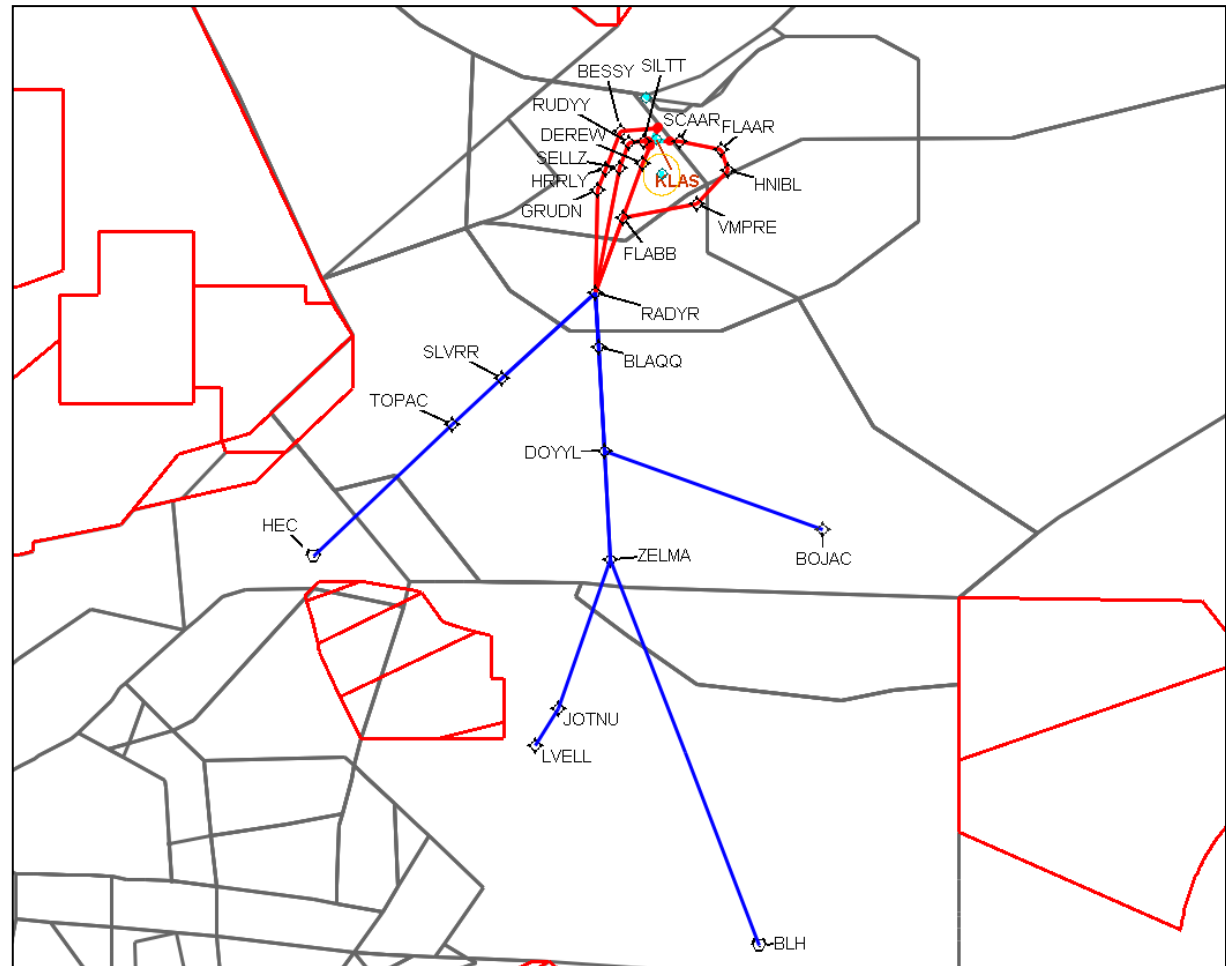
- **BLAQQ (“Black”)**
 - 352629.38N
 - 1152232.76W
- **SLVRR (“Silver”)**
 - 352043.39N
 - 1154435.31W
- **LVELL (Existing WP)**
- **HEC (Existing VOR)**



KLAS RADYR RNAV SID - Cont.

Transitions:

- **BOJAC**
 - **ATC Assigned Only**
- **BLH**
 - **ATC Assigned Only**



KLAS RADYR ROUTE UPDATES

CURRENT SID:	NEW SID:
BOACH8.HEC	RADYR1.HEC
BOACH8.LVELL	RADYR1.LVELL
BOACH8.RIKII	RADYR1.BLAQQ
BOACH8.TNP	RADYR1.LVELL
BOACH8.WHIGG	RADYR1.SLVRR

Please refer to new SOP and required internal routes, letters of agreement for specific altitude and speed restrictions. RADYR/BOACH will present the largest old/new conflicts.



KLAS RATPK RNAV SID

Pronounced: “Rat
Pack”

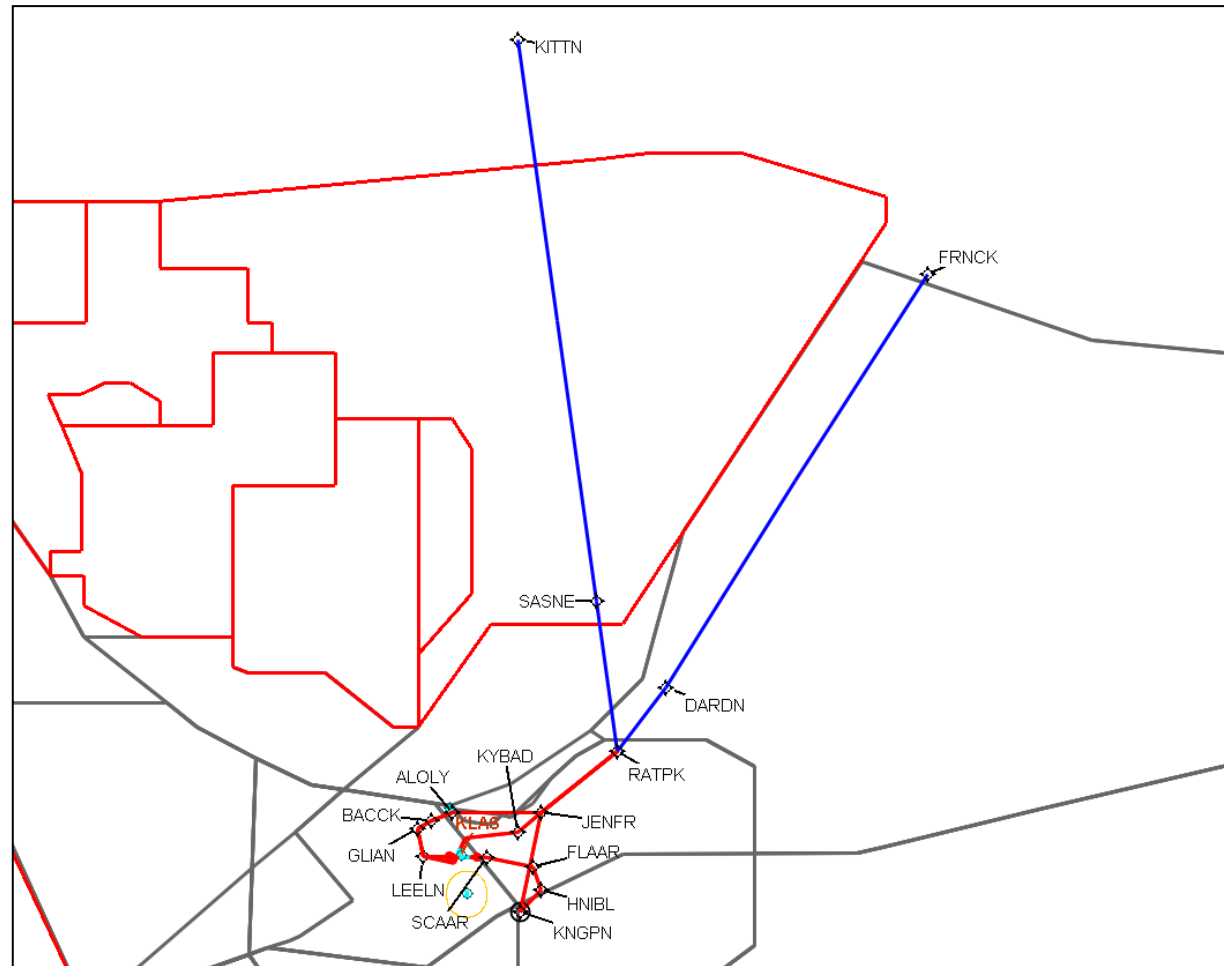
Replaces:

TRALR/STAAV RNAV
SIDs (MLF Transition)

RWYs Served:

01L/R, 08L/R, 19L/R,
26L/R

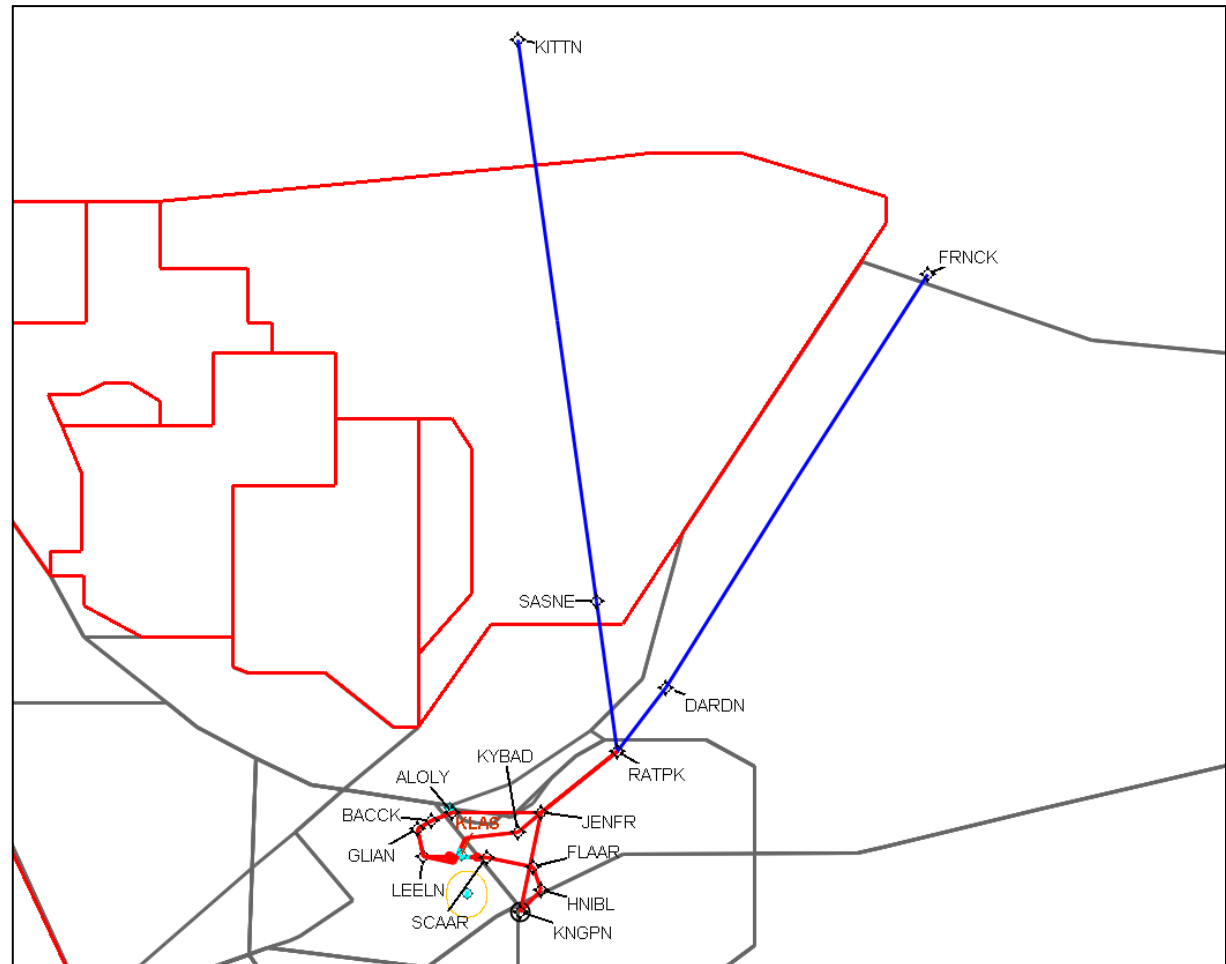
A/C Types: Turbojet
only



KLAS RATPK RNAV SID - Cont.

Transitions:

- **FRNCK (“Frank”)**
 - 374053.77N
 - 1133338.71W
- **KITTN (“Kitten”)**
 - **DO NOT FILE,**
ATC Assigned
Only



KLAS RATPK ROUTE UPDATES

CURRENT SID/ROUTE:	NEW SID/ROUTE:
STAAV8/TRALR9.MLF	RATPK1.FRNCK

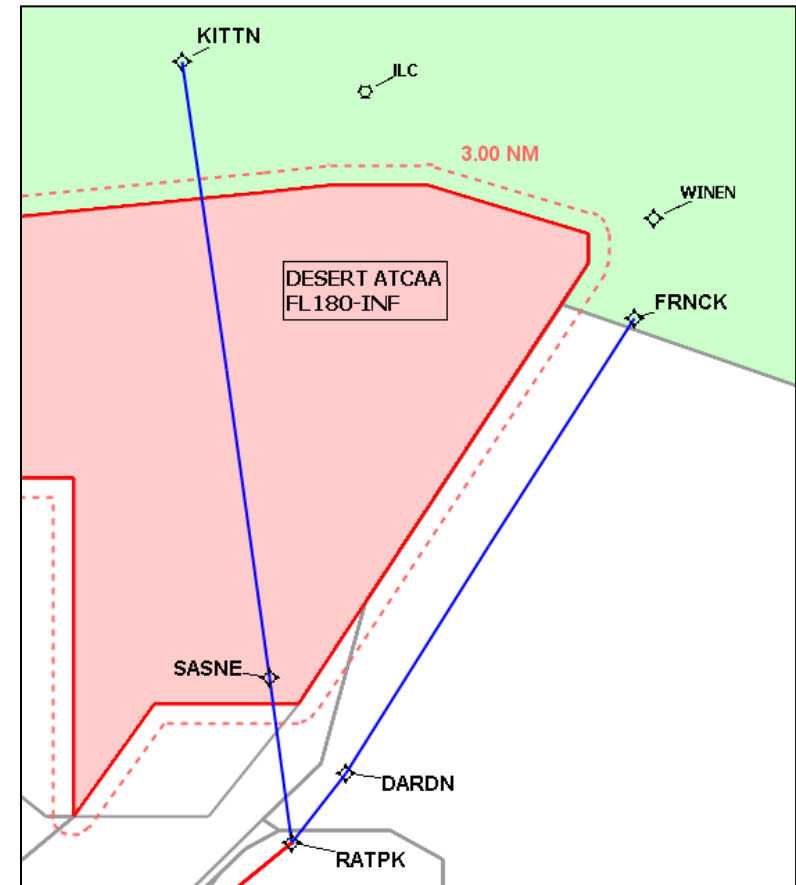
See slide #30 for additional information about KLAS configuration 2 departure routes and the HOOVR SID.



KLAS RATPK: Optimizing After FRNCK

Do not file routes less than 3NM from the DESERT ATCAA

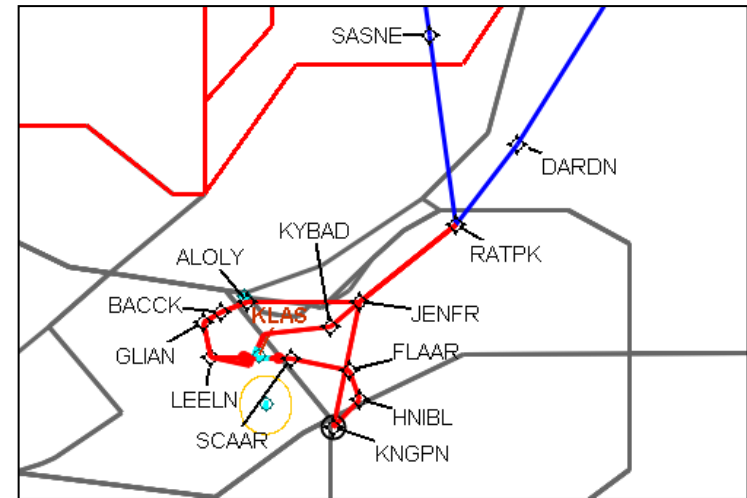
- FRNCK transition is 10NM from the DESERT ATCAA
- ATC must separate all aircraft a minimum of 3NM from SUA
- Flight planning software does not see the real-time status of the DESERT ATCAA. (ATCAA status is not provided in the SWIM feed – see SUA.FAA.GOV for real-time status)



A Note About the RATPK/HOOVR

When LAS is landing RY1L/R and departing 8L, aircraft on the RATPK SID will be manually rerouted by ATC onto the HOOVR SID.

- Please file the RATPK SID and allow ATC to assign the HOOVR as required by LAS departure/arrival configuration.
- When this configuration is in use, flight crews will receive routing via HOOVR-DP.RATPK..DARDN..FRNCK



KLAS HOOVR SID

Pronounced:

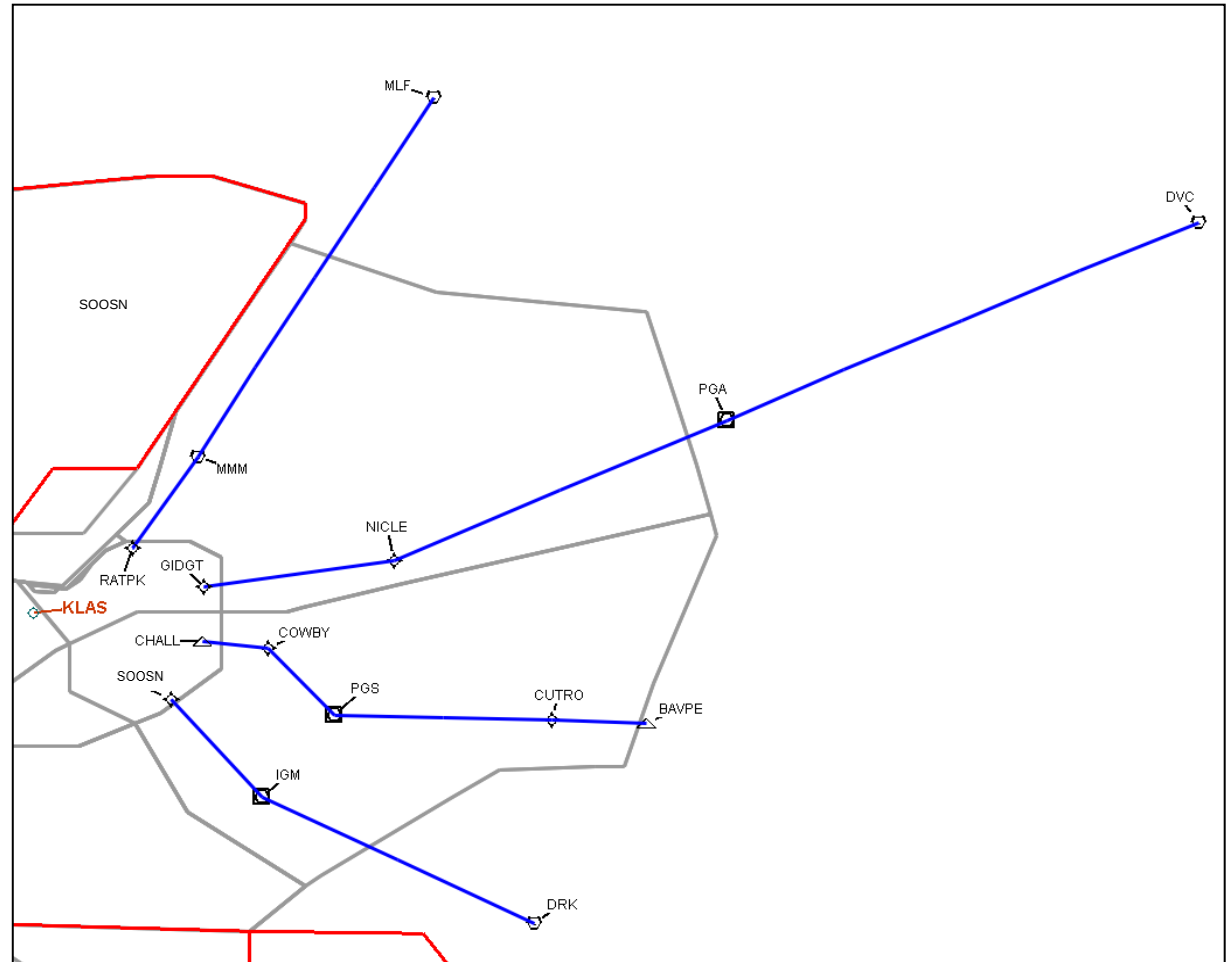
“Hoover”

**Replaces: Existing
HOOVR/LAS SIDs**

RWYs Served:

**01L/R, 08L/R, 19L/R,
26L/R**

**A/C Types: Turbojet
only**

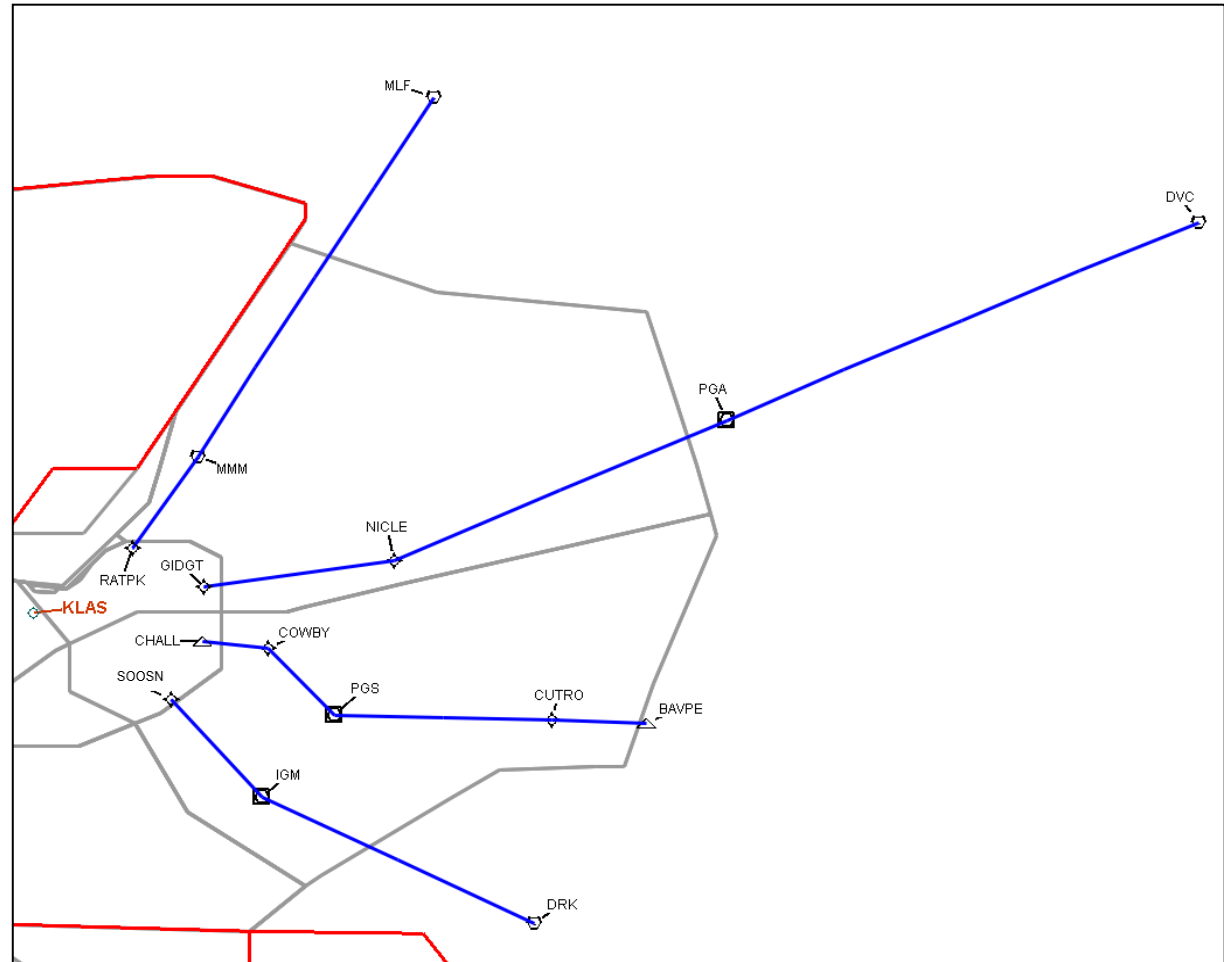


KLAS HOOVR SID - Cont.

Transitions:

- DVC (Existing VOR)
- DRK (Existing VOR)
- MLF (Existing VOR)
- BAVPE (Existing WP)

NOTE: For non-RNAV1 aircraft only. Do not allow optimizers to find this as a “shorter” route



KLAS MCCRN SID

Pronounced:

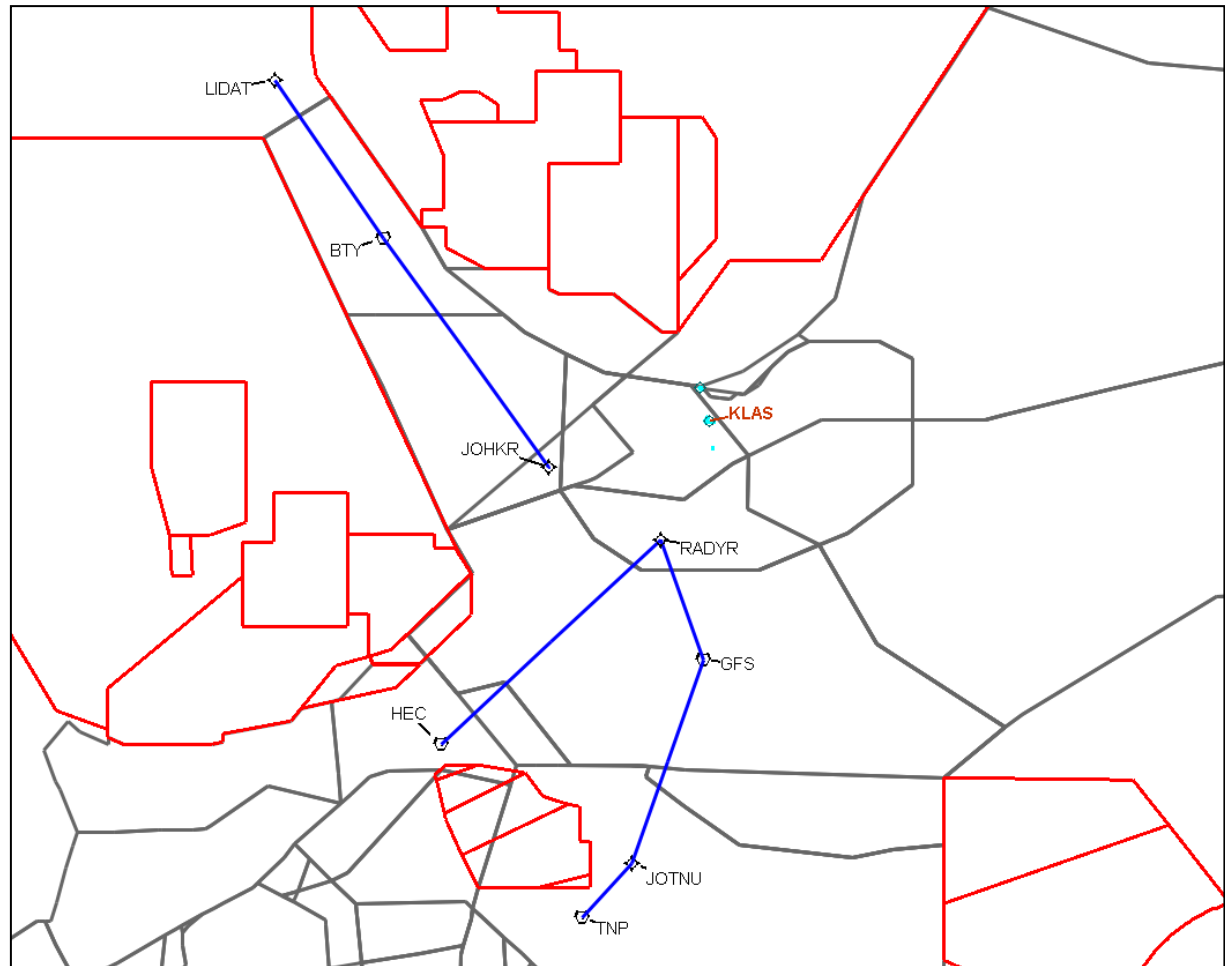
“McCarran”

**Replaces: Existing
MCCRN SID**

RWYs Served:

**01L/R, 08L/R, 19L/R,
26L/R**

**A/C Types: Turbojet
only**

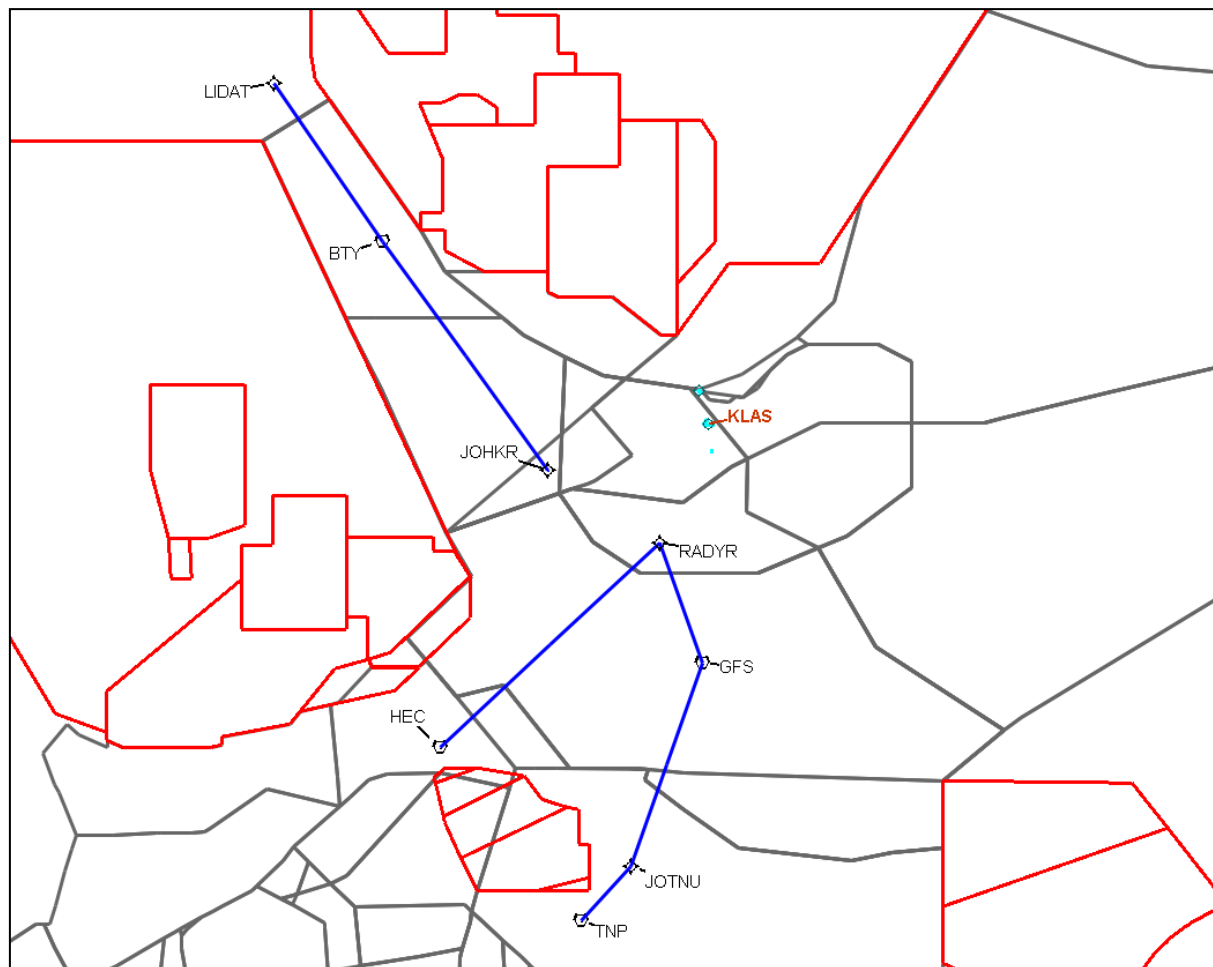


KLAS MCCRN SID – Cont.

Transitions:

- LIDAT (Existing WP)
- HEC (Existing VOR)
- TNP (Existing VOR)

NOTE: For non-
RNAV1 aircraft only. Do
not allow optimizers to
find this as a “shorter”
route



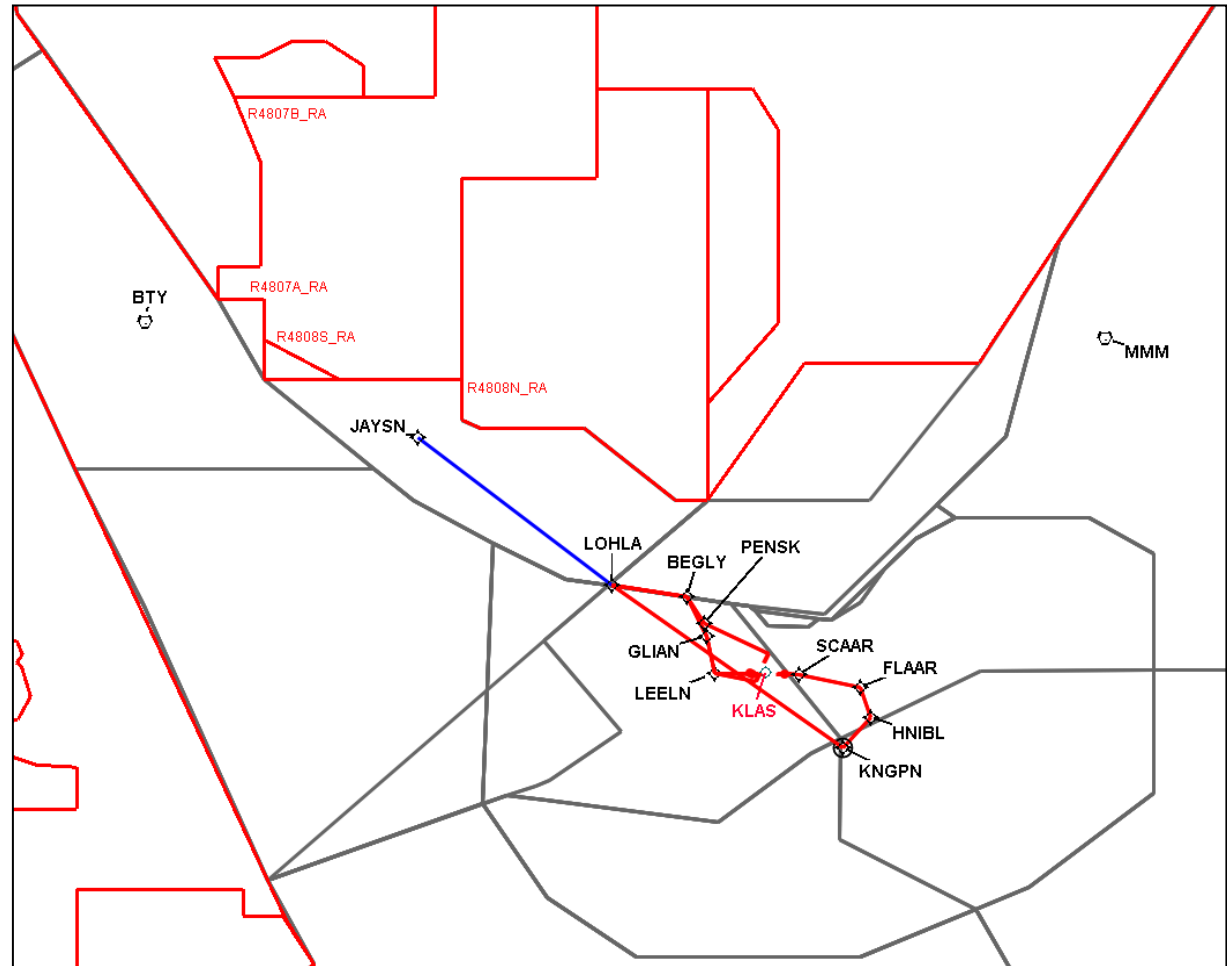
KLAS LOHLA SID

Pronounced: “Lola”

Replaces: N/A

NOTE:

- DO NOT FILE
- For NELLIS SUA transition
- Military Approval Required



New LVM STARs

KLAS

- KLAS CHOWW RNAV STAR
- KLAS COKTL RNAV STAR
- KLAS RKSTR RNAV STAR
- KLAS RNDRZ RNAV STAR
- KLAS BLAID STAR
- KLAS ISHEE STAR
- KLAS LARKK STAR
- KLAS/KHND PUMLE STAR
- KLAS/KHND GAMES RNAV STAR
- KLAS JAYSN STAR (See Note)



KLAS CHOWW RNAV STAR

Pronounced: “Chow”

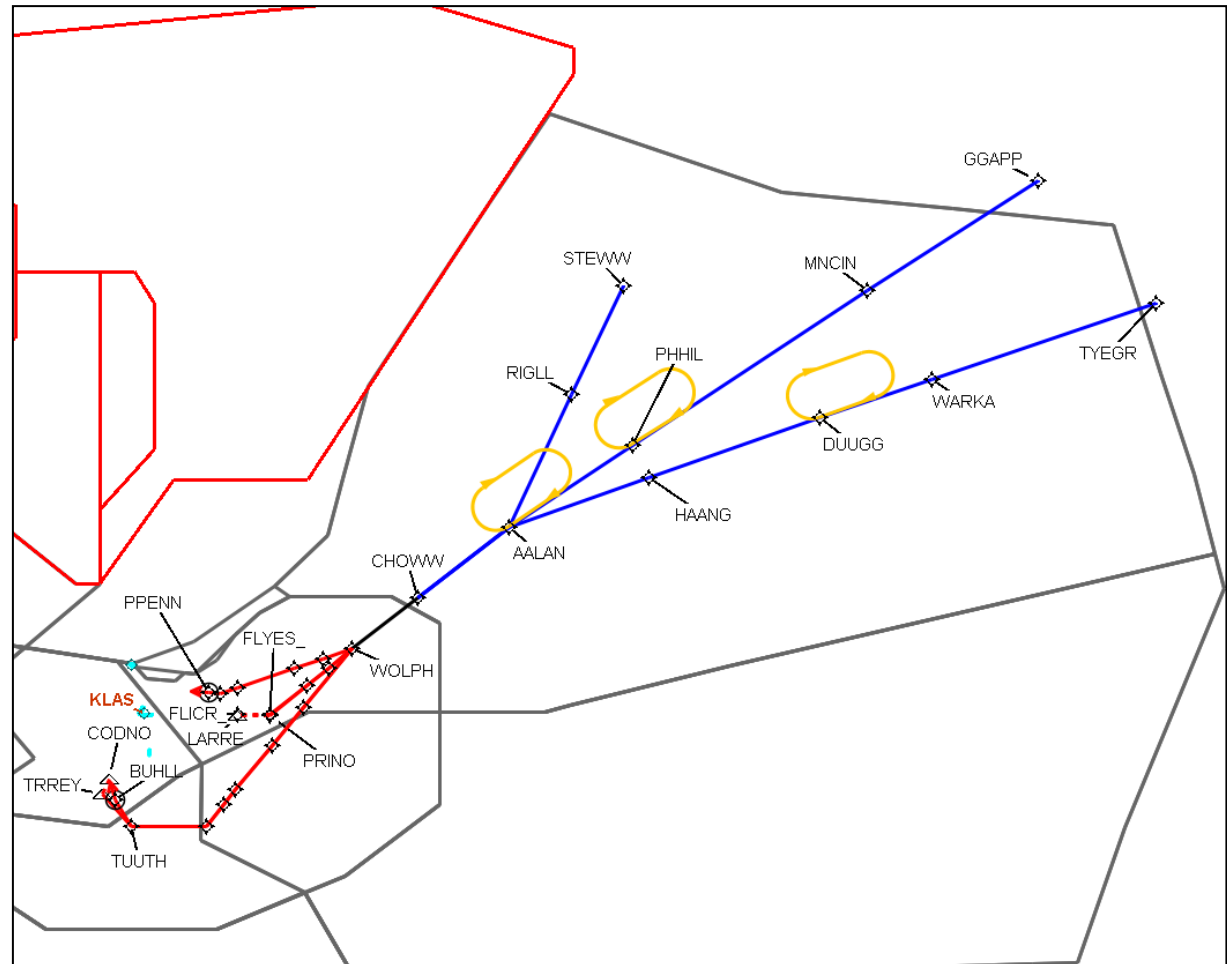
Replaces: SITEE

RNAV STAR

RWYs Served:

01L/R, 19L/R, 26L/R

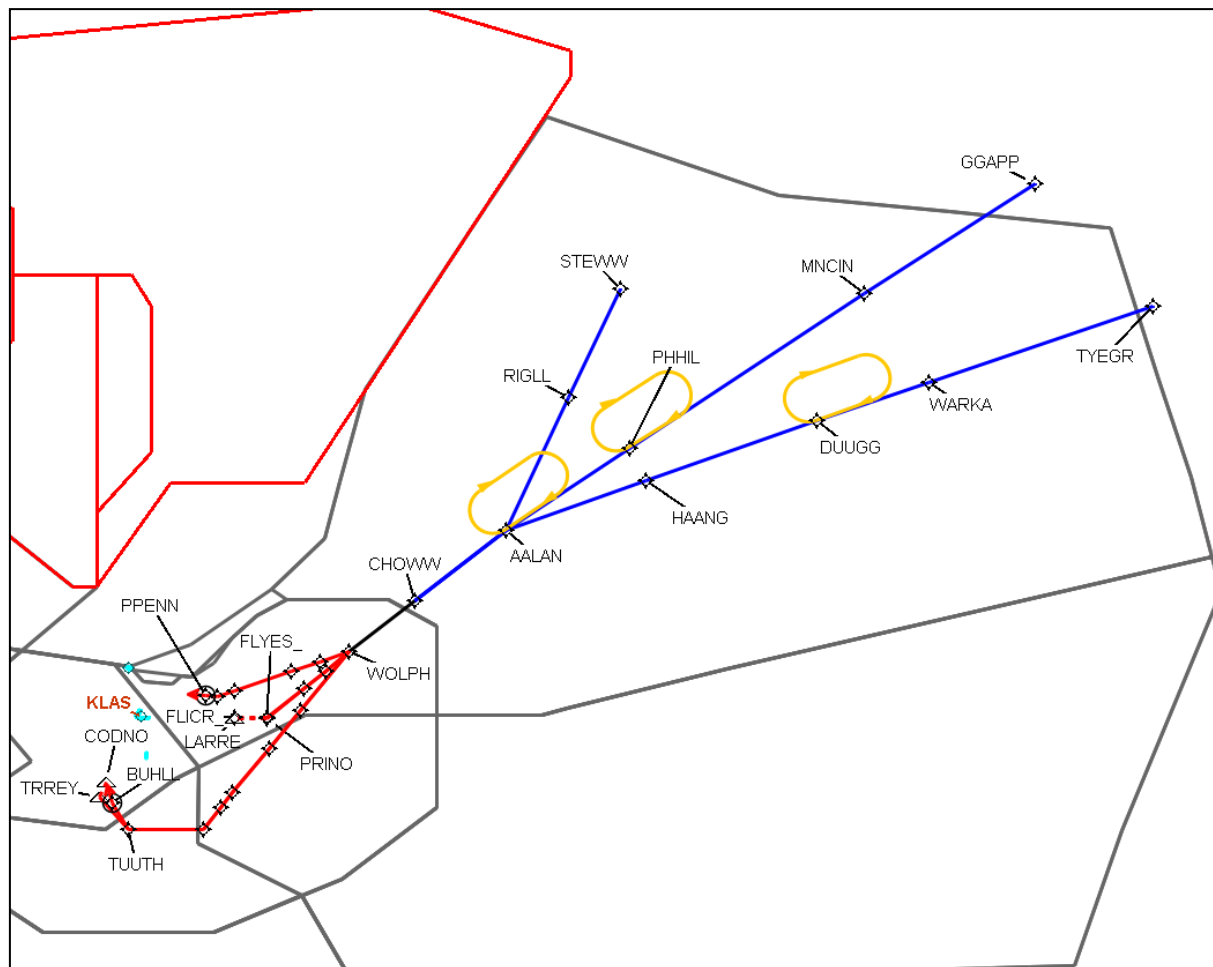
A/C Types: Turbojet
only



KLAS CHOWW RNAV STAR – Cont.

Transitions:

- **GGAPP (Existing WP)**
- **STEWV (“Stu”)**
 - 371443.87N
 - 1133208.16W
- **TYEGR (“Tiger”)**
 - 371154.33N
 - 1114400.97W



KLAS CHOWW Route Updates

CURRENT STAR:	NEW STAR:
MPIRE.SITEE4.	STEWV.CHOWW1.
GGAPP.SITEE4.	GGAPP.CHOWW1.
SINNN.SITEE4.	TYEGR.CHOWW1.

Please refer to new SOP and required internal routes, letters of agreement for specific altitude and speed restrictions.



KLAS COKTL RNAV STAR

Pronounced:

“Cocktail”

Replaces: SUNST

RNAV STAR

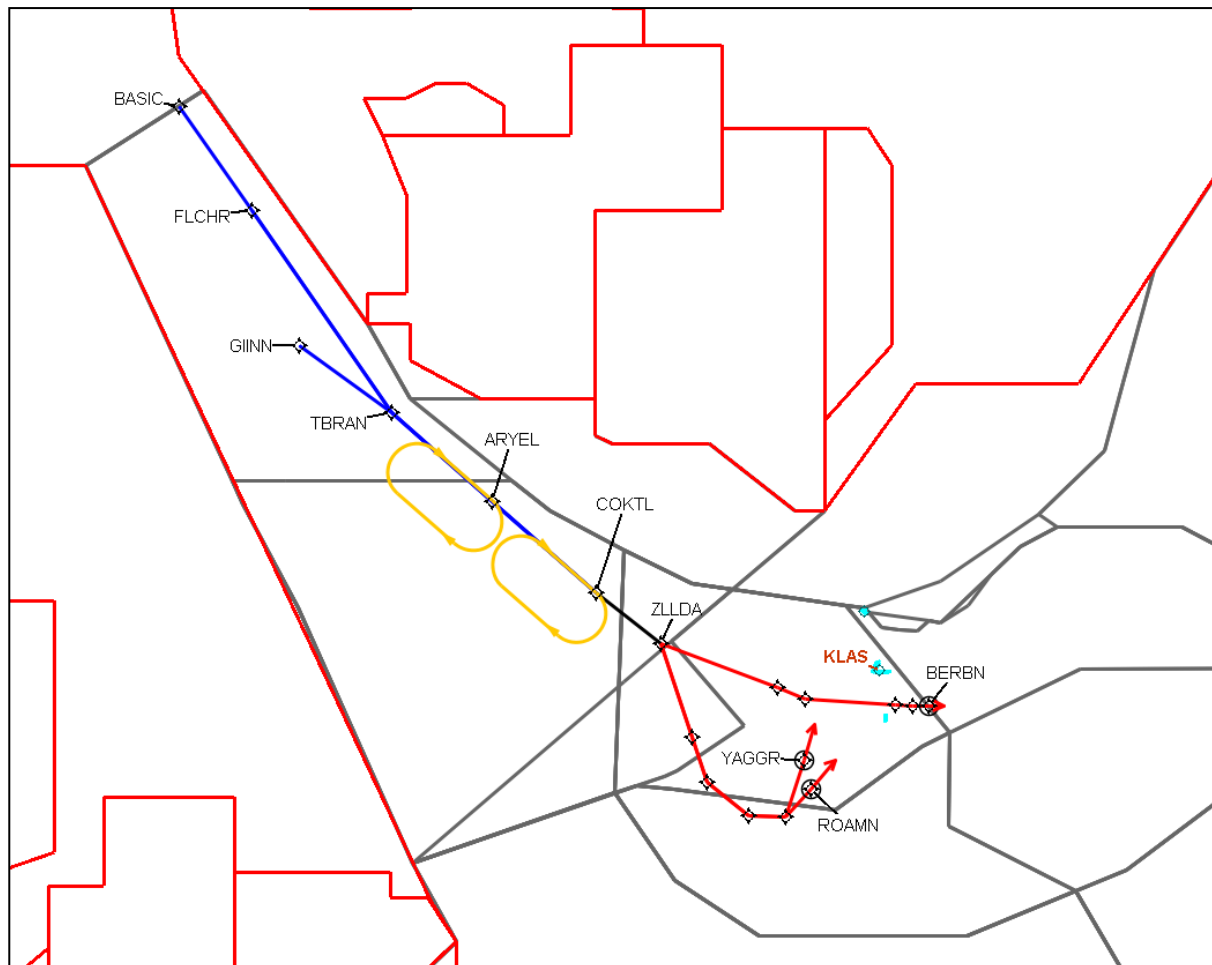
RWYs Served:

01L/R, 08L/R, 19L/R,

26L/R

A/C Types: Turbojet

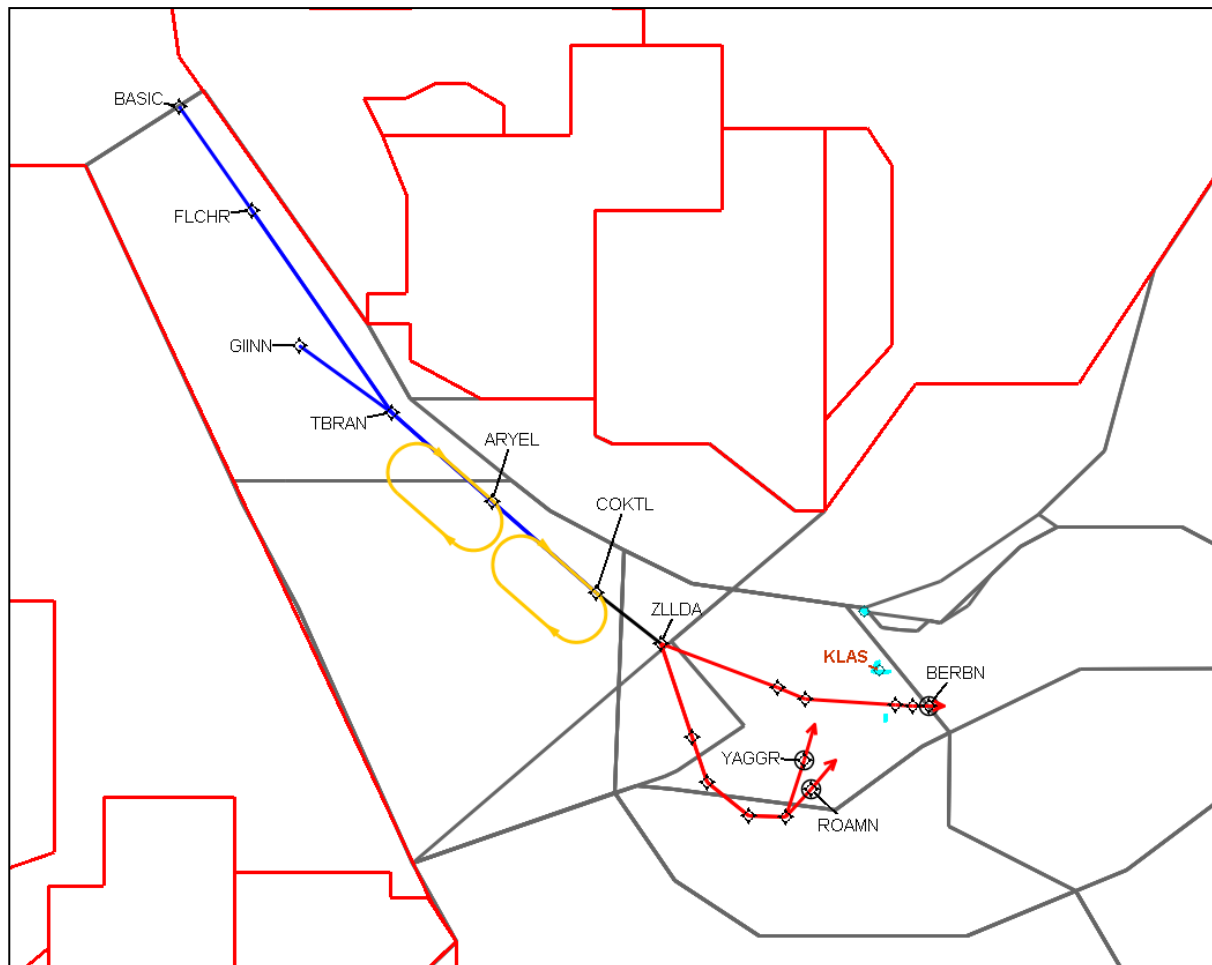
only



KLAS COKTL RNAV STAR – Cont.

Transitions:

- **BASIC (“Basic”)**
 - 371954.27N
 - 1170430.98W
- **FLCHR (“Fletcher”)**
 - 370602.27N
 - 1165231.36W
- **GIINN**
 - **ATC Assigned Only**



KLAS COKTL Route Updates

CURRENT STAR:	NEW STAR:
.BTY.SUNST4.	.BASIC.COKTL1.
.Q162.ESSAA..BTY. SUNST4..	.Q174.FLCHR.COKTL1.

Please refer to new SOP and required internal routes, letters of agreement for specific altitude and speed restrictions.



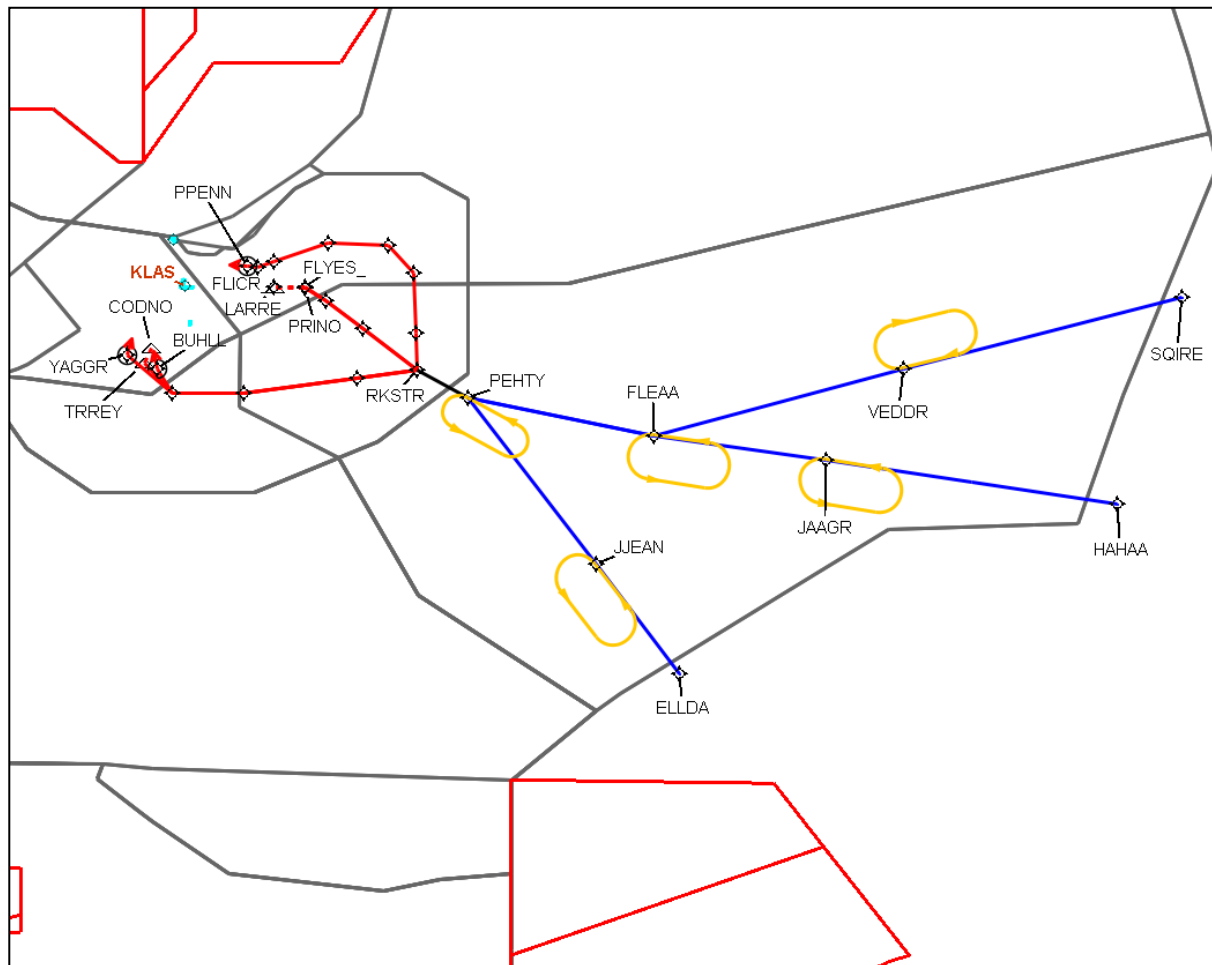
KLAS RKSTR RNAV STAR

Pronounced: “Rock
Star”

Replaces: TYSSN
RNAV STAR

RWYs Served:
01L/R, 08L/R, 19L/R,
26L/R

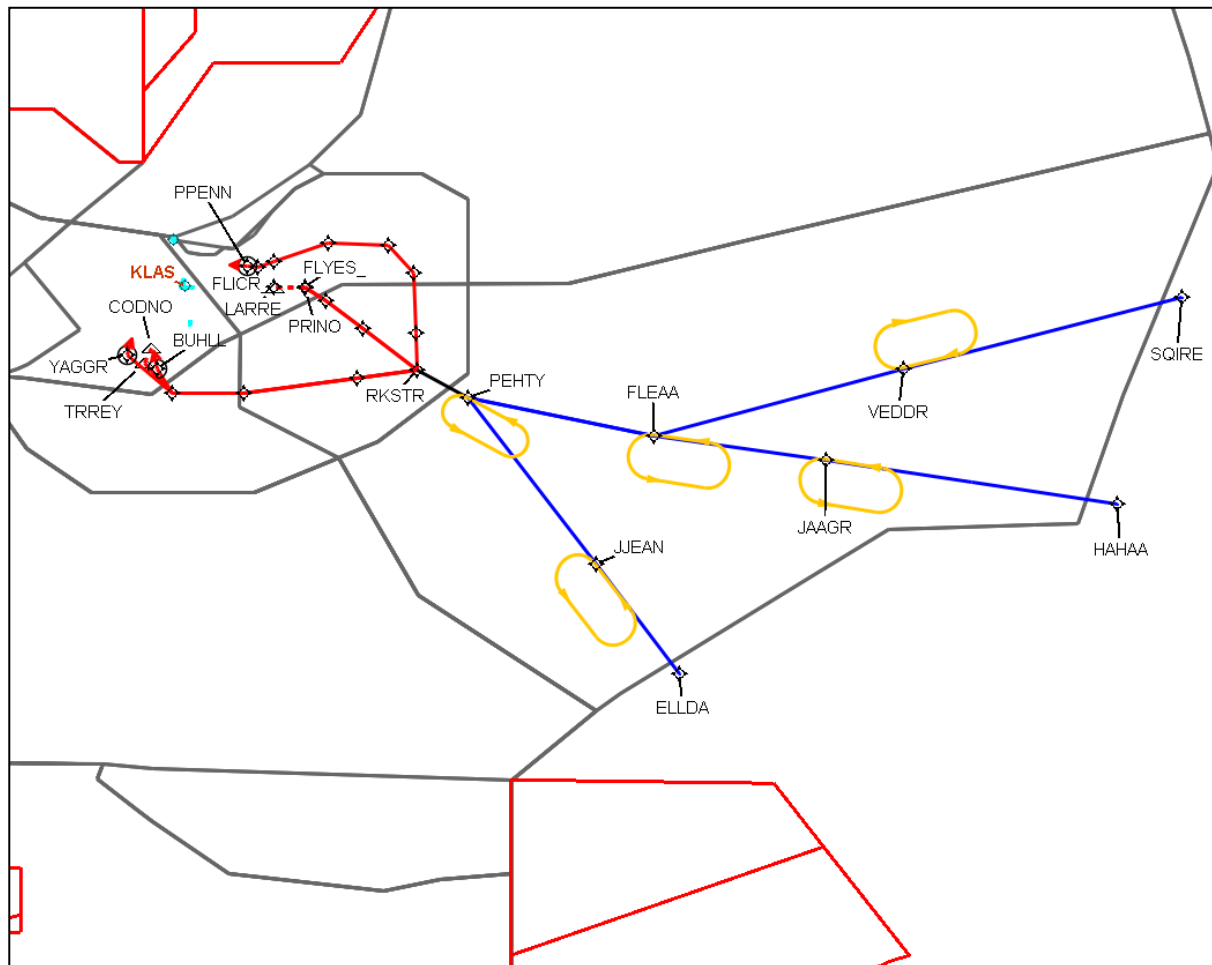
A/C Types: Turbojet
only



KLAS RKSTR RNAV STAR – Cont.

Transitions:

- **SQUIRE (“Squire”)**
 - 360247.78N
 - 1113801.41W
- **HAHAA (“Ha ha”)**
 - 352721.83N
 - 1115143.96W
- **ELLDA (“Elda”)**
 - 345822.12N
 - 1132429.63W



KLAS RKSTR Route Updates

CURRENT STAR:	NEW STAR:
.IGM.TYSSN5.	For KIGM Departures ONLY IGM.PEHTY.RKSTR1
.DRK.TYSSN5.	.DRK..ELLDA.RKSTR1.
.PGS.TYSSN5.	.HAHAA.RKSTR1.
.LRAIN.TYSSN5.	.SQIRE.RKSTR1.

Please refer to new SOP and required internal routes, letters of agreement for specific altitude and speed restrictions.



KLAS RNDRZ RNAV STAR

Pronounced:

“Rounders”

Replaces: KEPEC

RNAV STAR

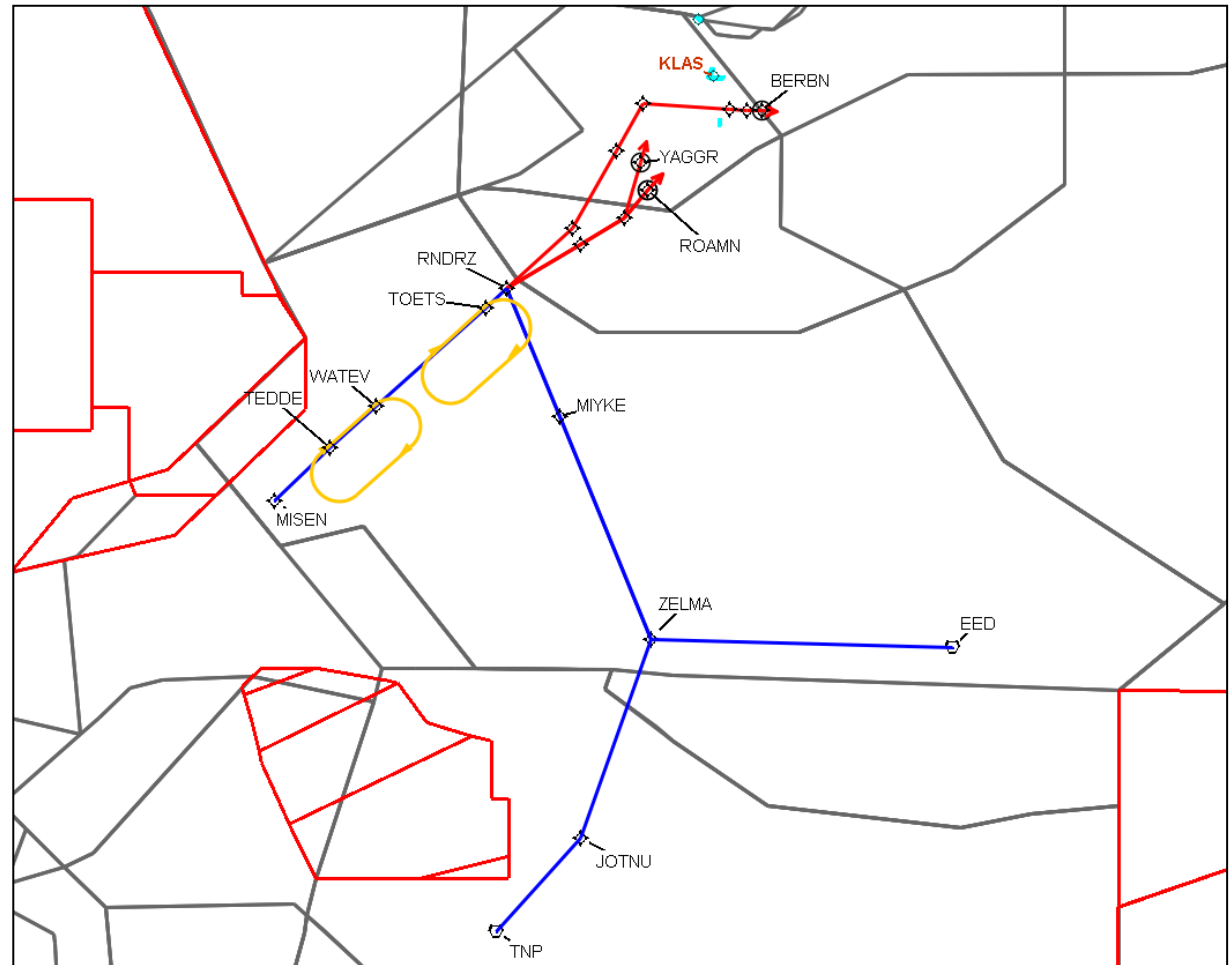
RWYs Served:

01L/R, 08L/R, 19L/R,

26L/R

A/C Types: Turbojet

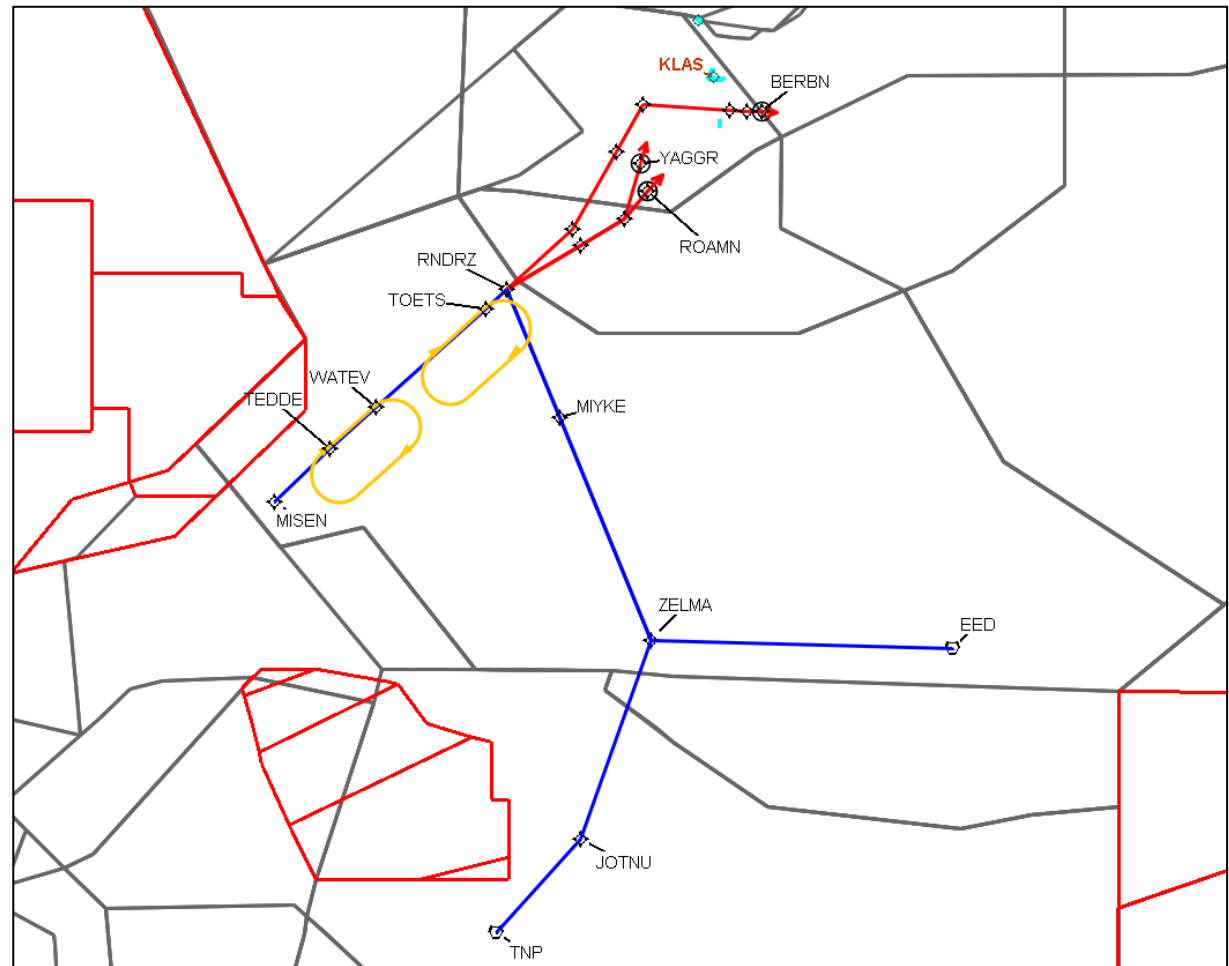
only



KLAS RNDRZ RNAV STAR – Cont.

Transitions:

- MISEN (Existing WP)
- TNP (Existing VOR)
- EED
 - ATC Assigned Only



KLAS RNDRZ Route Updates

CURRENT STAR:	NEW STAR:
.MISEN.KEPEC6.	.MISEN.RNDRZ1.
.TNP.KEPEC6.	.TNP.RNDRZ1.

Please refer to new SOP and required internal routes, letters of agreement for specific altitude and speed restrictions.



KLAS BLAID STAR

Pronounced: “Blade”

Replaces: LUXOR

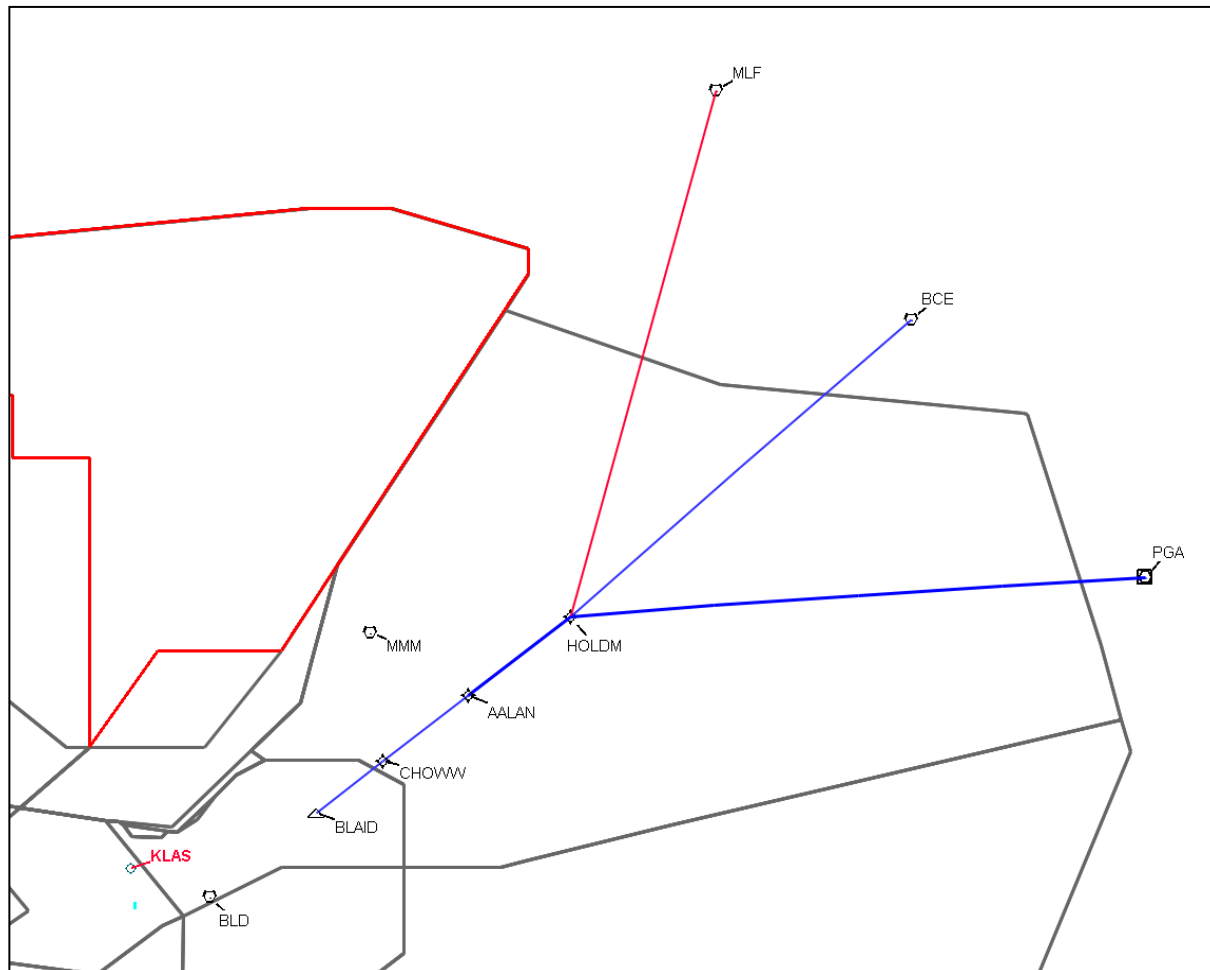
STAR

RWYs Served:

**01L/R, 08L/R, 19L/R,
26L/R**

**A/C Types: Turbojet
only**

**Transitions: MLF(?),
BCE, PGA**



KLAS BLAID Route Updates

CURRENT STAR:	NEW STAR:
.MLF.LUXOR2.	.MLF.BLAID1.* or .BCE.BLAID1.
.BCE.LUXOR2.	.BCE.BLAID1.
.DVC.LUXOR2.	.PGA.BLAID1.

NOTE: For non-RNAV1 aircraft only. Do not allow optimizers to find this as a “shorter” route

* MLF transition pending FAA approval. If no MLF transition, use BCE.

Please refer to new SOP and required internal routes, letters of agreement for specific altitude and speed restrictions.



KLAS ISHEE STAR

Pronounced: “Ish-ee”

Replaces: KADDY

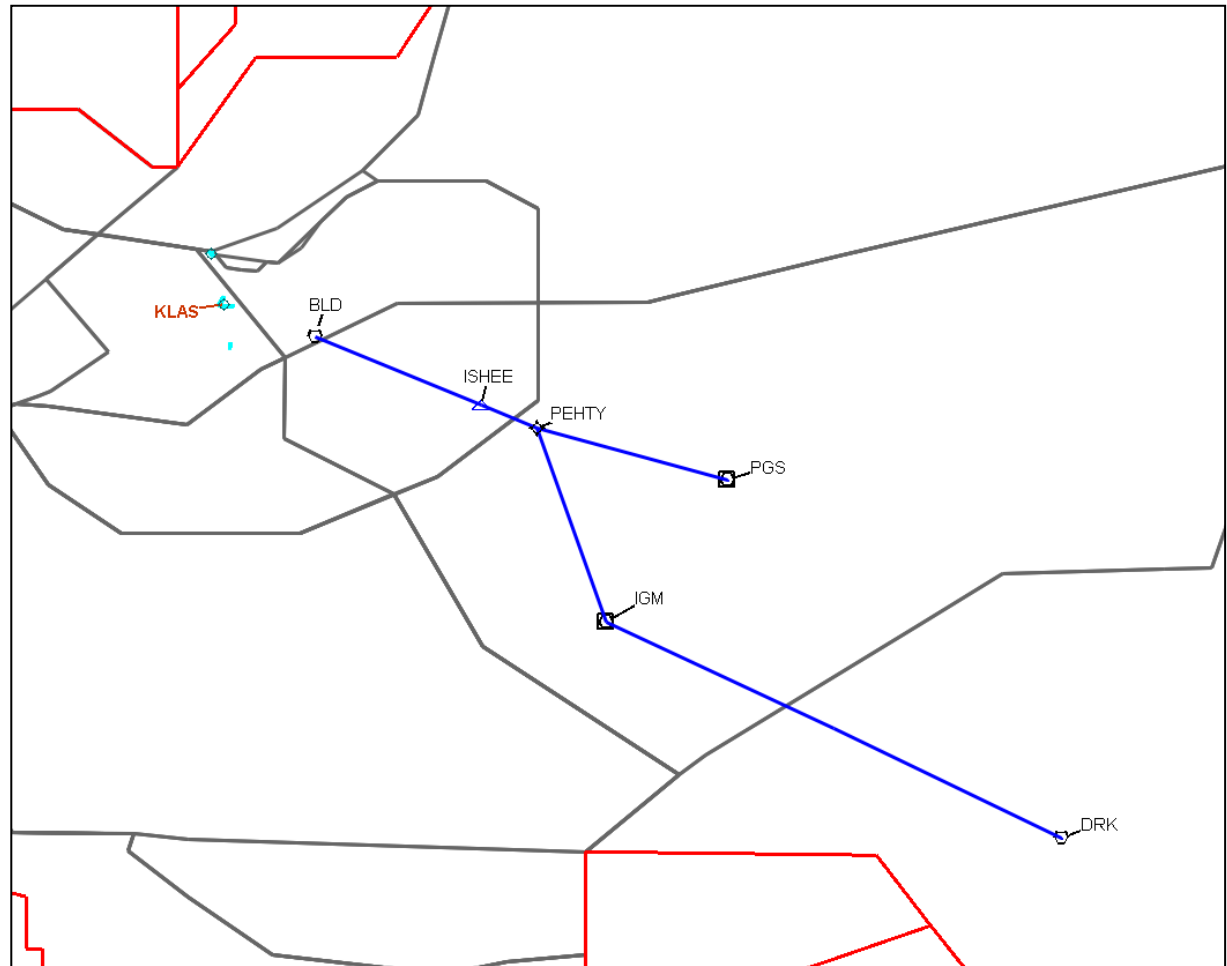
STAR

RWYs Served:

**01L/R, 08L/R, 19L/R,
26L/R**

A/C Types: Turbojet
only

Transitions: DRK, PGS



KLAS ISHEE Route Updates

CURRENT STAR:	NEW STAR:
.PGS.KADDY3.	.PGS.ISHEE1. AOB FL300
.IGM.KADDY3.	.DRK.ISHEE1. AOB FL300
.DRK.KADDY3.	.DRK.ISHEE1. AOB FL300

NOTE: For non-RNAV1 aircraft only. Do not allow optimizers to find this as a “shorter” route

Please refer to new SOP and required internal routes, letters of agreement for specific altitude and speed restrictions.



KLAS LARKK STAR

Pronounced: “Lark”

Replaces: CLARR

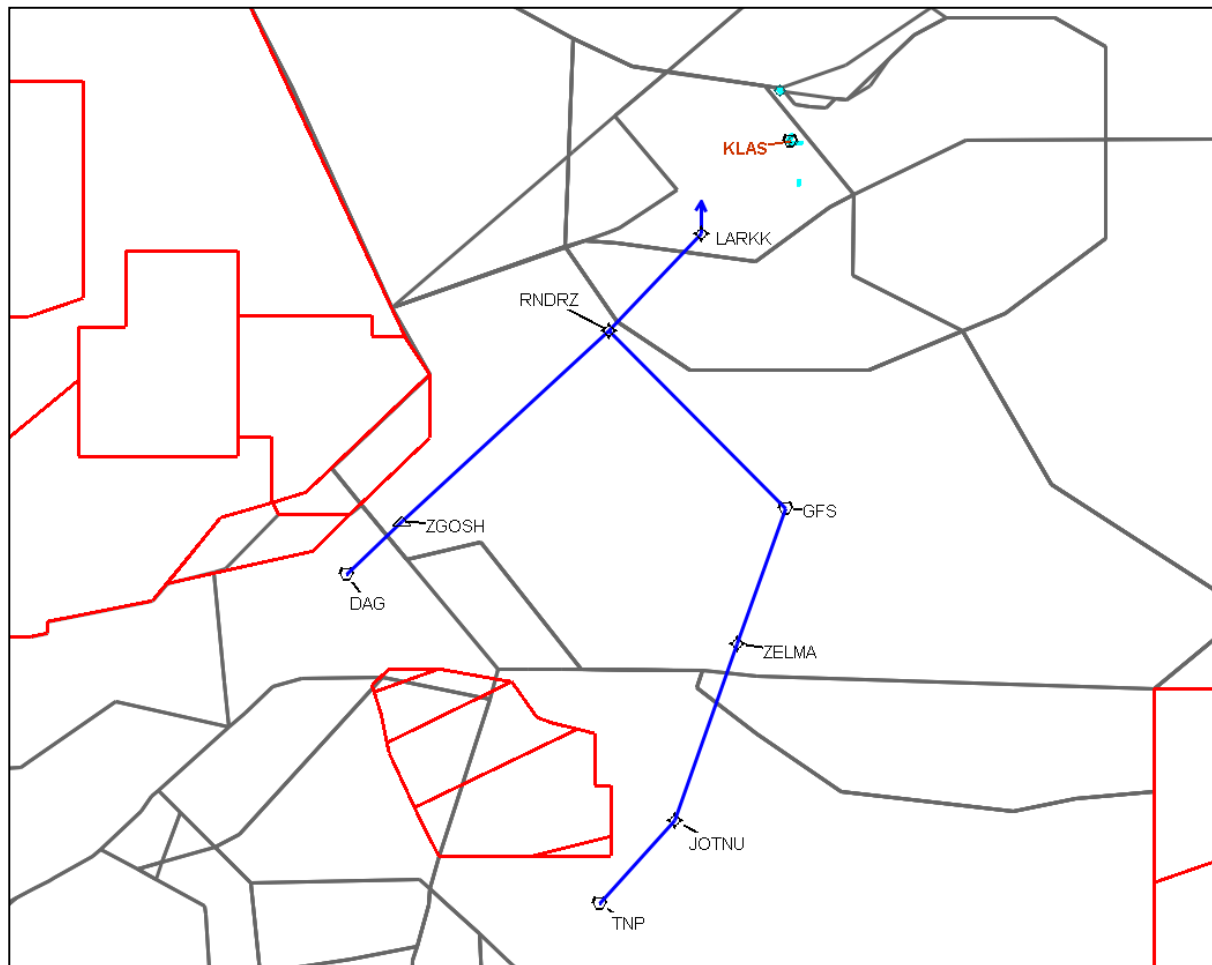
STAR

RWYs Served:

**01L/R, 08L/R, 19L/R,
26L/R**

A/C Types: Turbojet
only

Transitions: TNP, DAG



KLAS LARKK Route Updates

CURRENT STAR:	NEW STAR:
.DAG.CLARR3.	.DAG.LARKK1.
.TNP.CLARR3.	.TNP.LARKK1.

Please refer to new SOP and required internal routes, letters of agreement for specific altitude and speed restrictions.



KLAS/KHND PUMLE STAR

Pronounced:

“Pummel”

Replaces: FUZZY

STAR

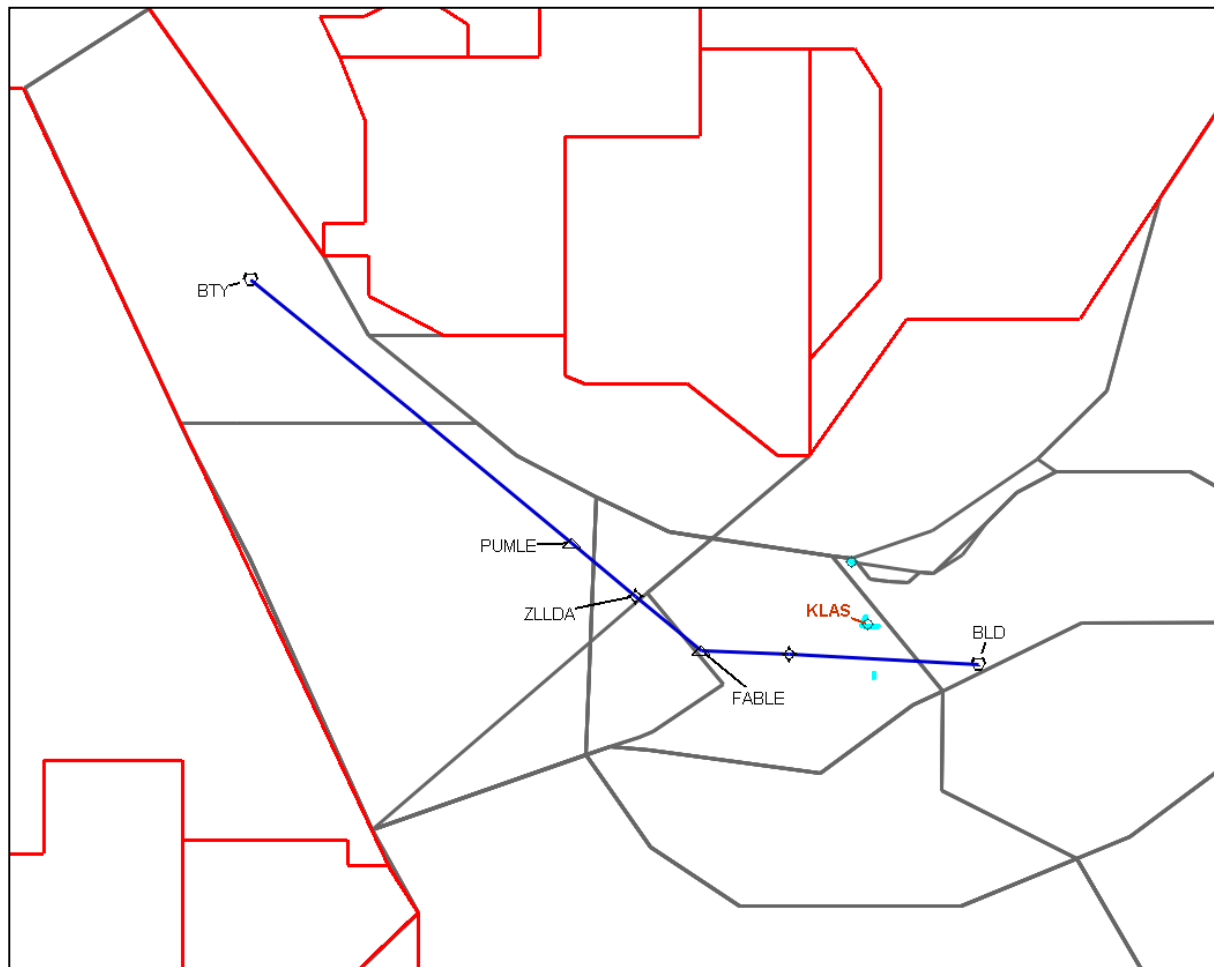
RWYs Served:

All at KLAS & KHND

A/C Types: Turbojet

only

Transitions: BTY



KLAS PUMLE Route Updates

CURRENT STAR:	NEW STAR:
.BTY.FUZZY8.	.BTY.PUMLE1.

NOTE: For non-RNAV1 aircraft only. Do not allow optimizers to find this as a “shorter” route

Please refer to new SOP and required internal routes, letters of agreement for specific altitude and speed restrictions.



KLAS/KHND GAMES RNAV STAR

Pronounced:

“Games”

Replaces: ADDEL

STAR (HND)

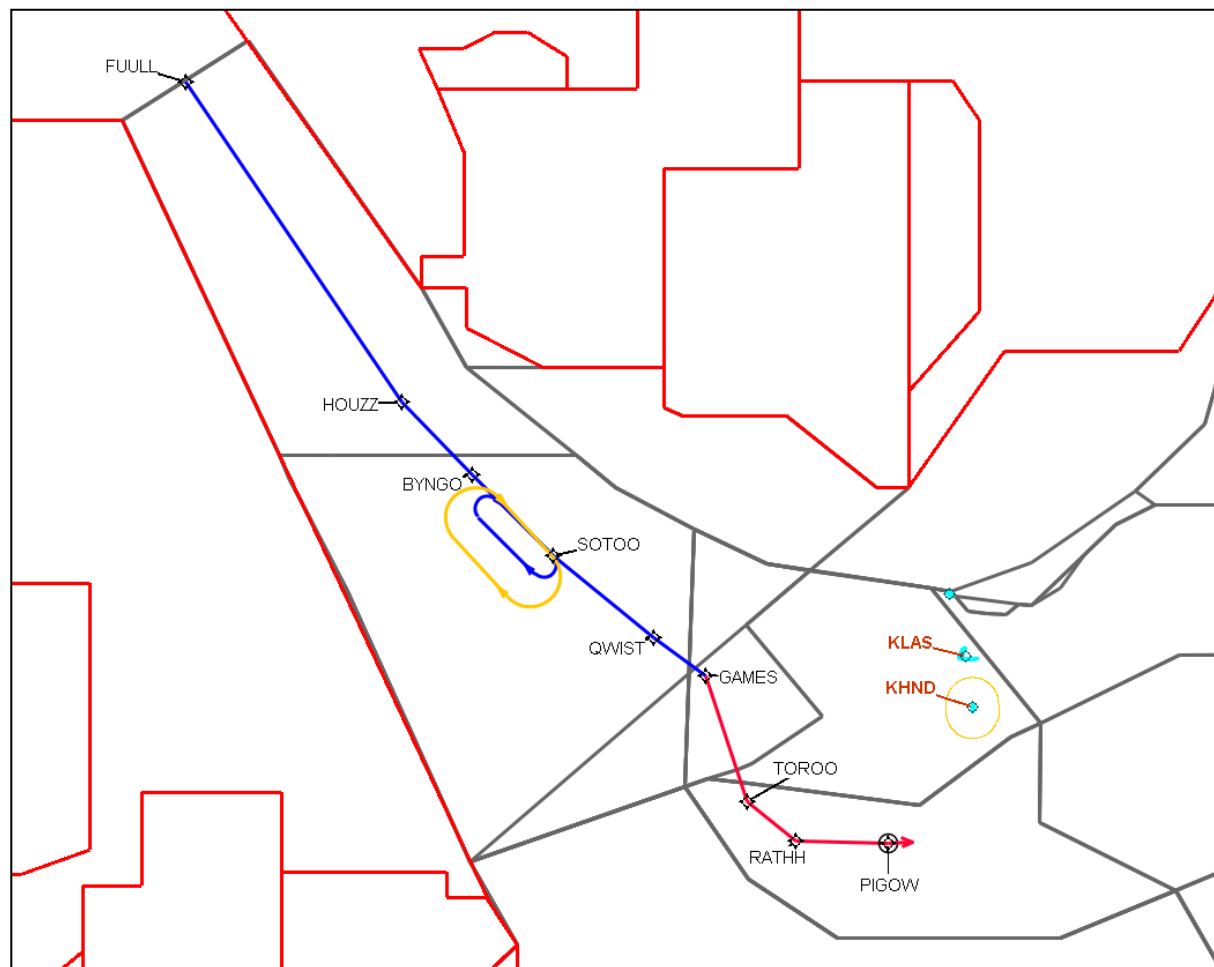
RWYs Served:

All at KLAS & KHND

A/C Types:

**KLAS: RNAV1 Prop
aircraft only. KHND:**

All RNAV1 aircraft



KLAS/KHND GAMES

Route Updates

CURRENT STAR:	NEW STAR:
.BTY.ADDEL1.KHND	.FUULL.GAMES1.KHND/KLAS
.TUMBE.ADDEL1.KHND	.FUULL.GAMES1.KHND/KLAS

Please refer to new SOP and required internal routes, letters of agreement for specific altitude and speed restrictions.



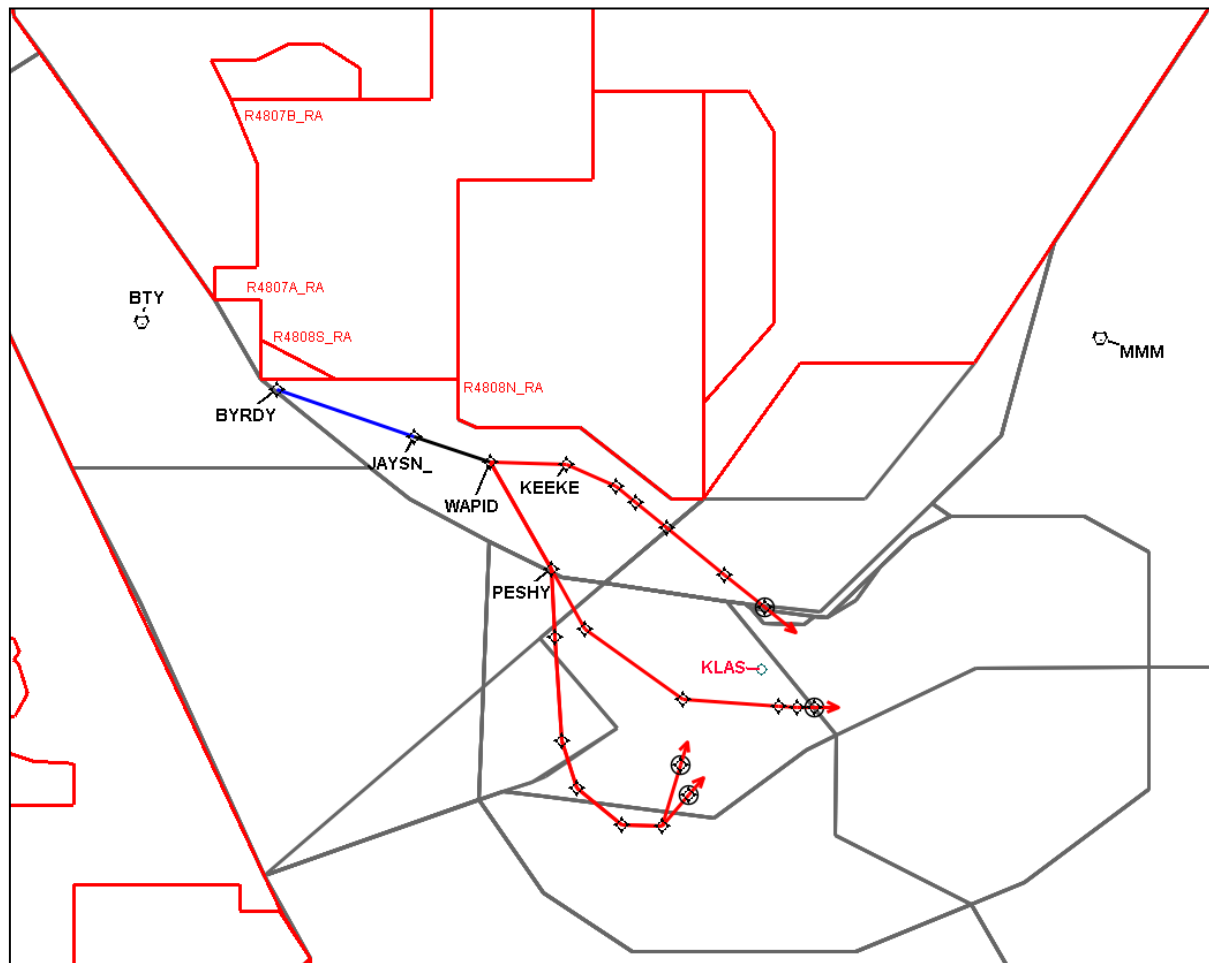
KLAS JAYSN STAR

Pronounced: “Jason”

Replaces: N/A

NOTE:

- DO NOT FILE
- For NELLIS SUA transition
- Military Approval Required



New LVM SIDs

KHND

- KHND OYODA RNAV SID
- KHND SCAMR RNAV SID



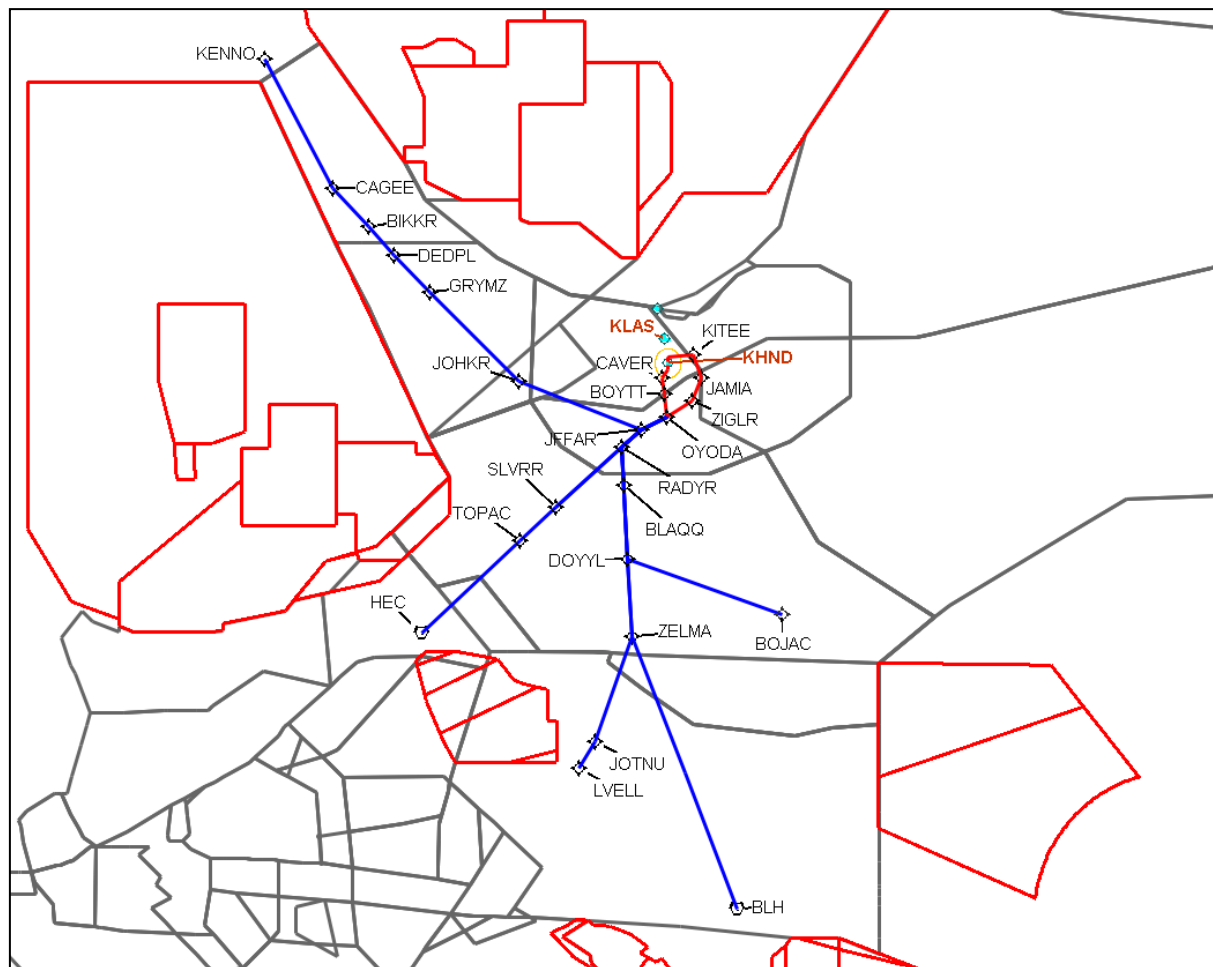
KHND OYODA RNAV SID

Pronounced: “Oy-
Oh-Da”

Replaces: PALLY
RNAV SID

RWYs Served:
17R and 35L

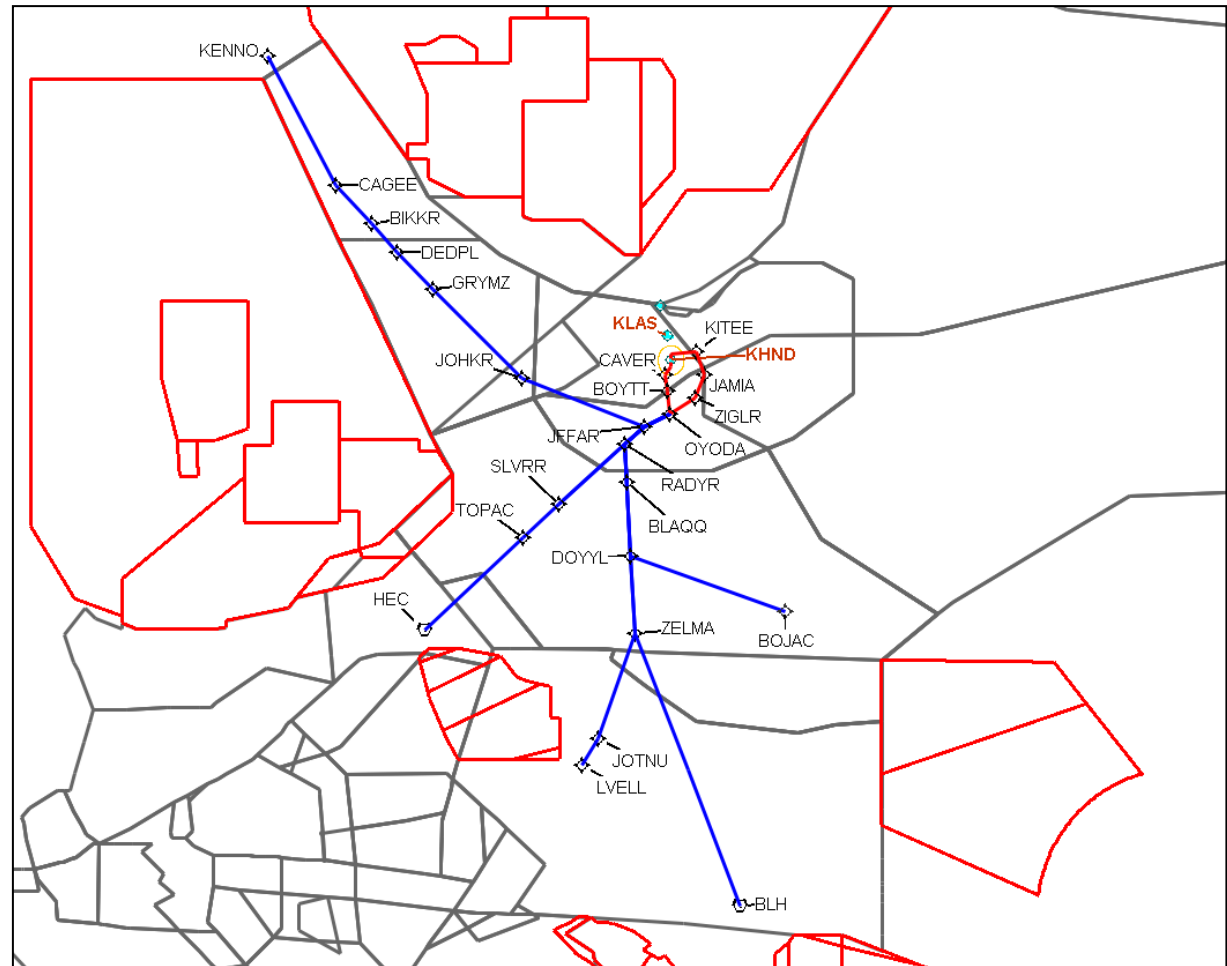
A/C Types: Turbojet
only (Except KENNO
- All RNAV1 aircraft
Allowed)



KHND OYODA RNAV SID - Cont.

Transitions:

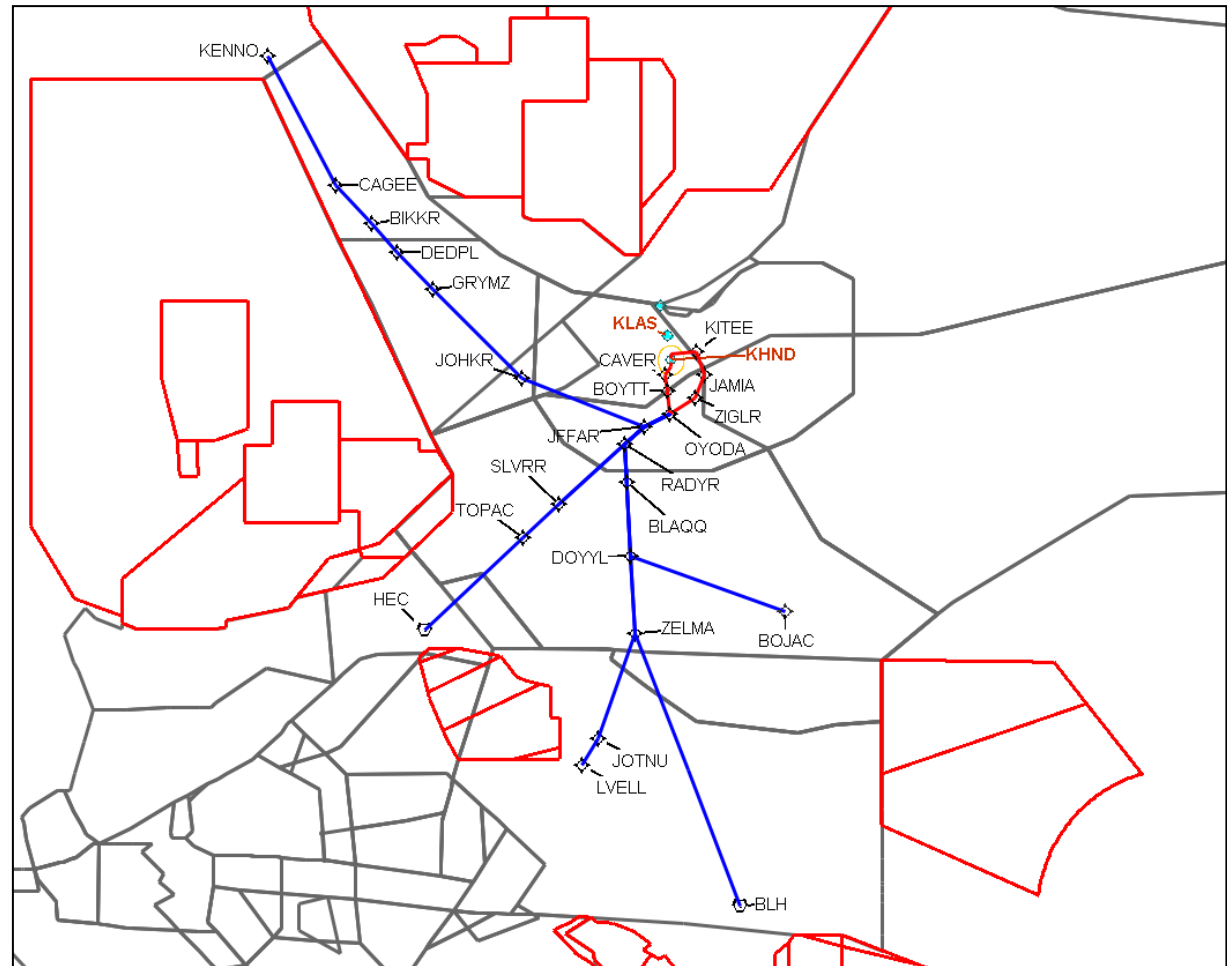
- **BLAQQ (“Black”)**
 - 352629.38N
 - 1152232.76W
- **SLVRR (“Silver”)**
 - 352043.39N
 - 1154435.31W
- **LVELL (Existing WP)**
- **HEC (Existing VOR)**



KHND OYODA RNAV SID - Cont.

Transitions:

- KENNO (Existing WP)
- BOJAC
 - ATC Assigned Only
- BLH
 - ATC Assigned Only



KHND OYODA ROUTE UPDATES

CURRENT SID:	NEW SID:
PALLY6.HEC	OYODA1.HEC
PALLY6.LVELL	OYODA1.LVELL
PALLY6.RIKII	OYODA1.BLAQQ
PALLY6.TNP	OYODA1.LVELL
PALLY6.WHIGG	OYODA1.SLVRR

Please refer to new SOP and required internal routes, letters of agreement for specific altitude and speed restrictions.



KHND SCAMR RNAV SID

Pronounced:

“Scammer”

Replaces:

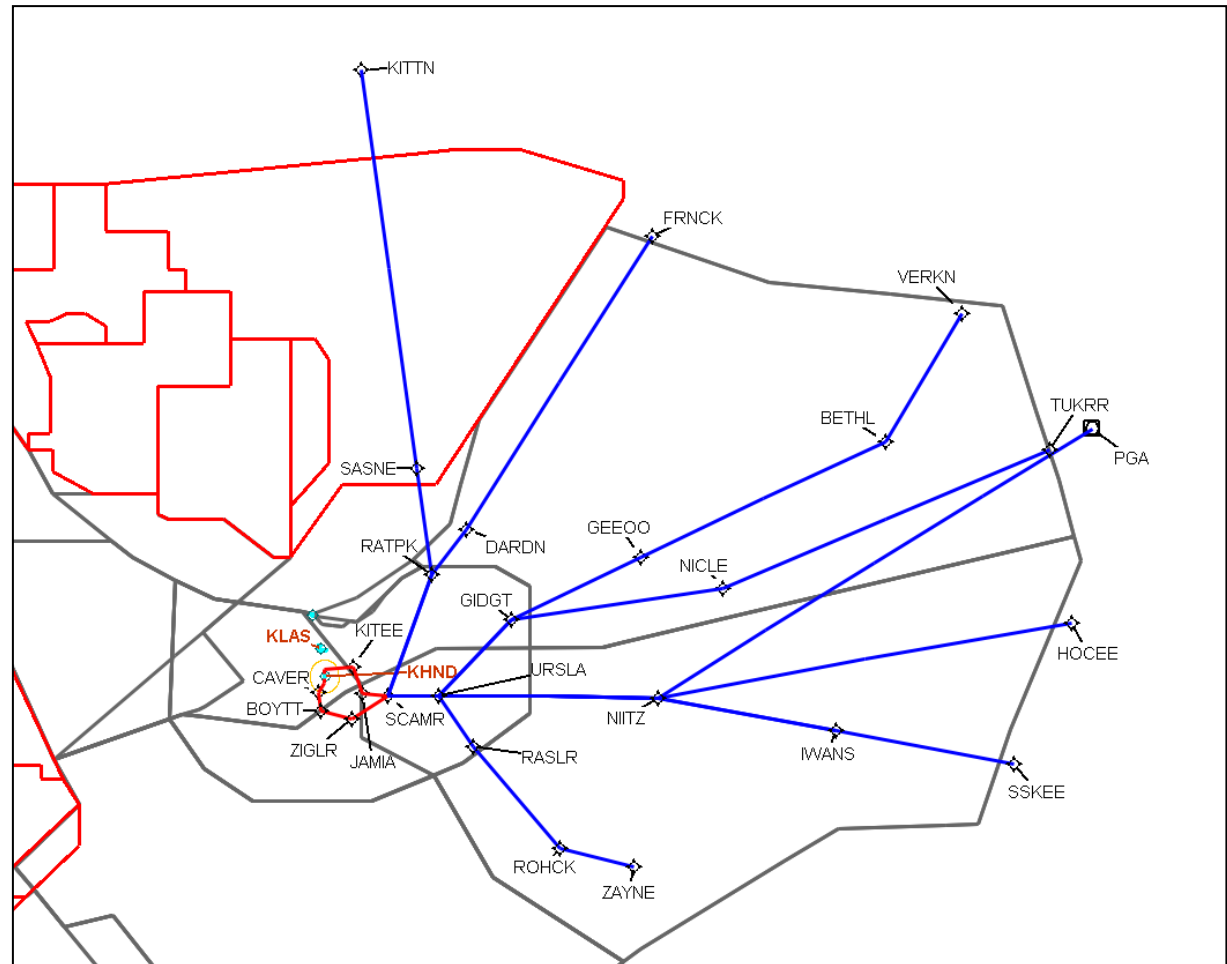
ACSIN/FLAMZ RNAV

SIDs

RWYs Served:

17R and 35L

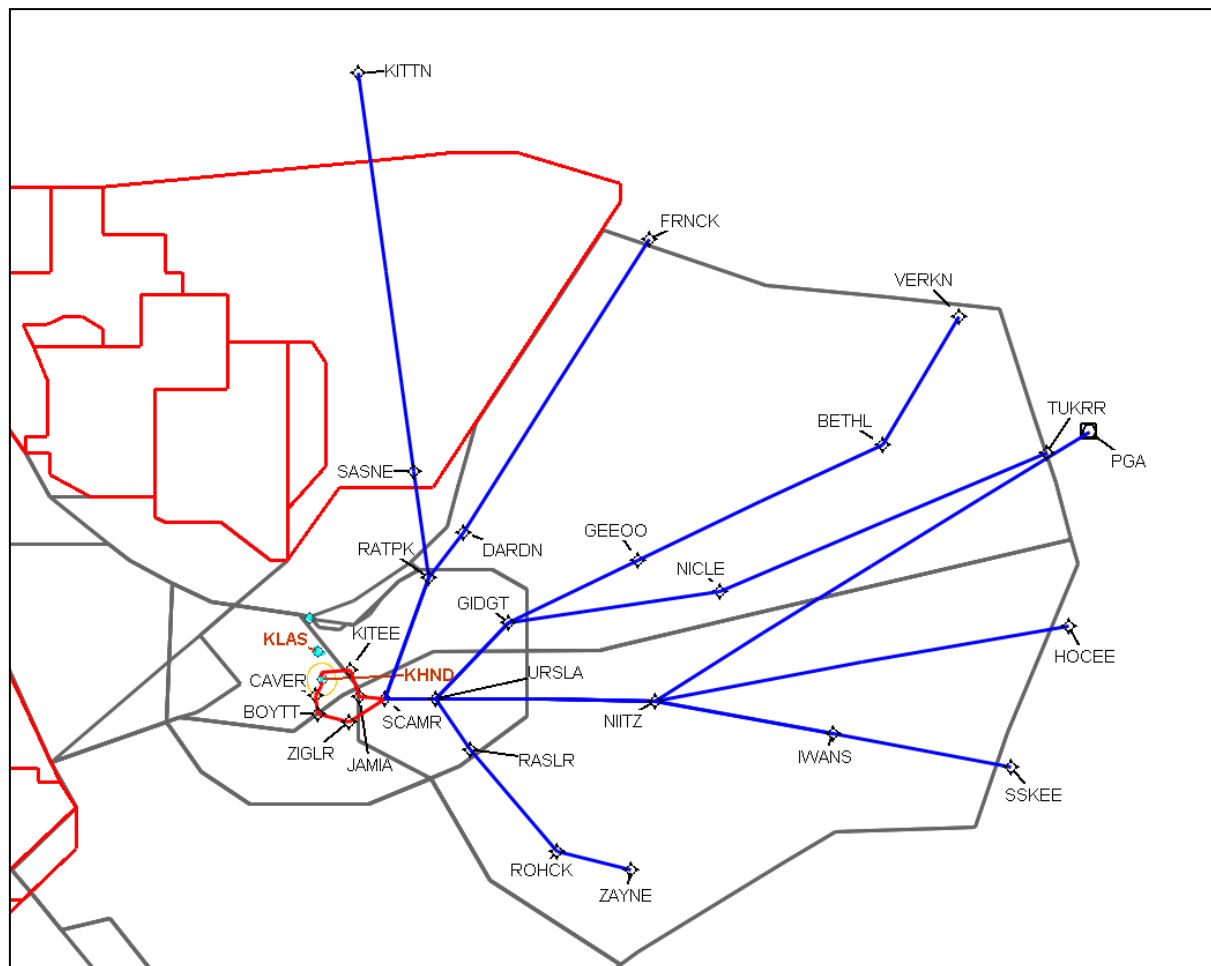
**A/C Types: Turbojet
only**



KHND SCAMR RNAV SID – Cont.

Transitions:

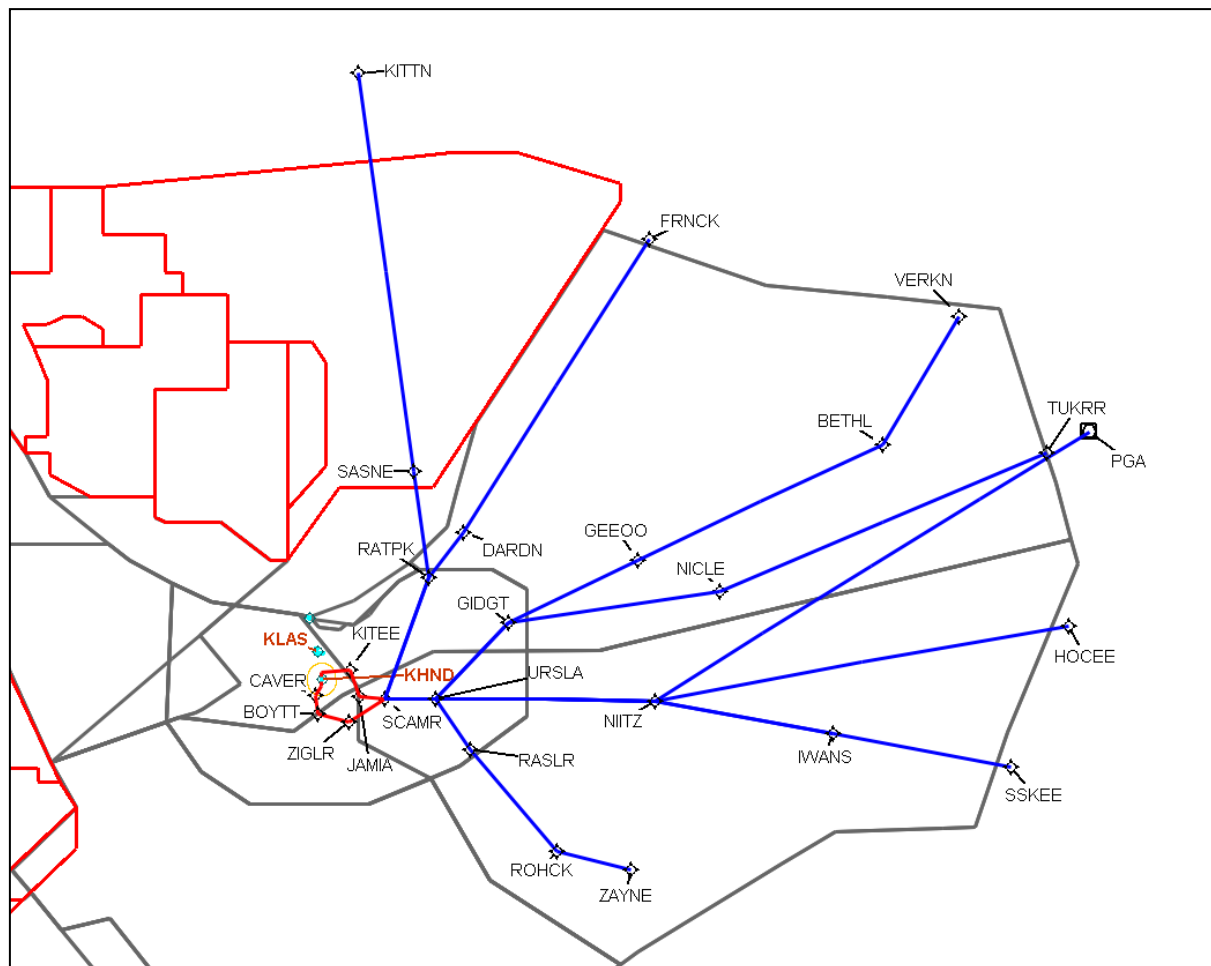
- **FRNCK (“Frank”)**
 - 374053.77N
 - 1133338.71W
- **KITTN (“Kitten”)**
 - **DO NOT FILE,**
ATC Assigned
Only



KHND SCAMR RNAV SID – Cont.

Transitions:

- VERKN (Existing WP)
- TUKRR (“Tucker”)
 - 365111.14N
 - 1113920.65W



KHND SCAMR RNAV SID – Cont.

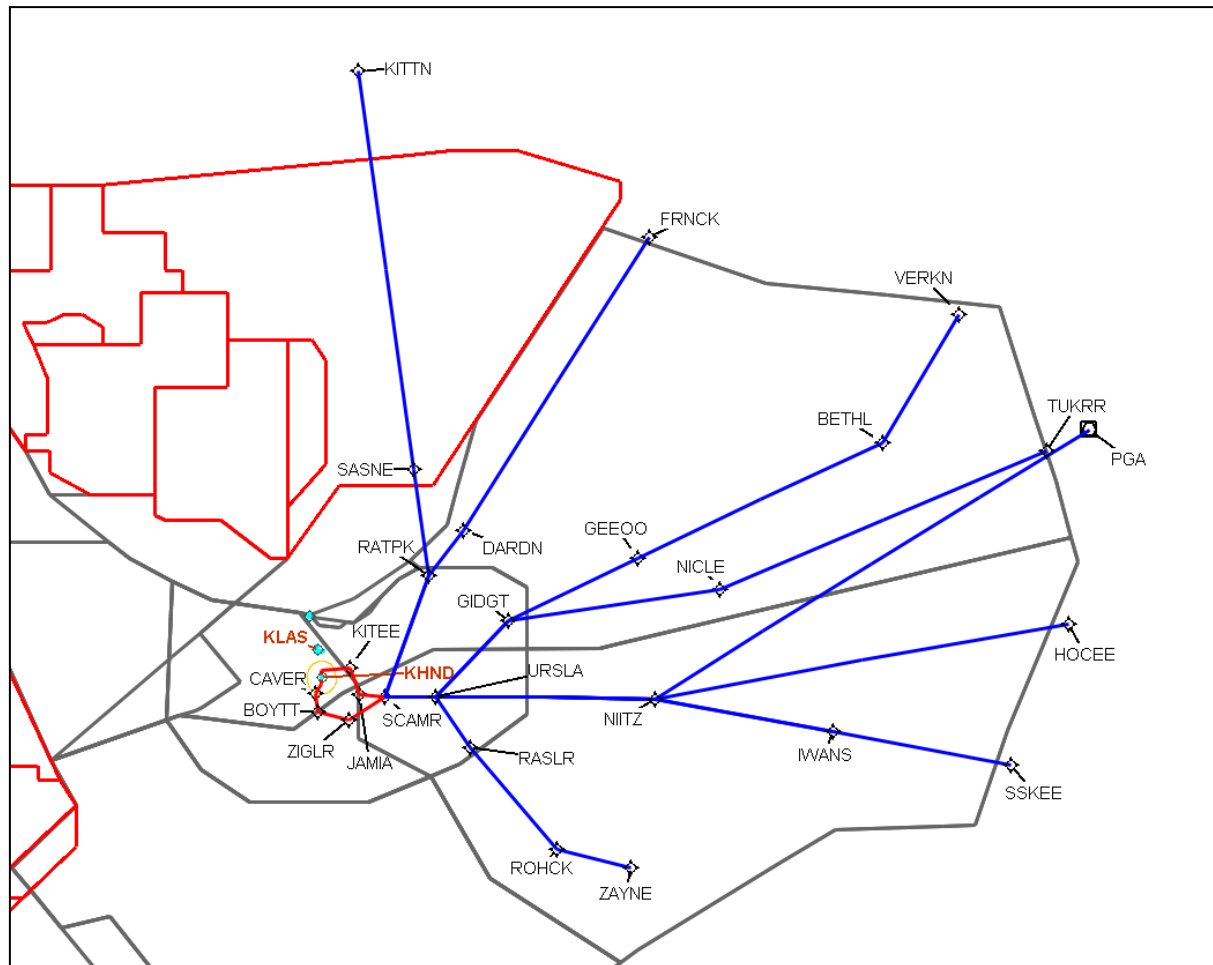
Transitions:

- **PGA**

- **ATC Assigned Only**
- **Use TUKRR transition**

- **IWANS**

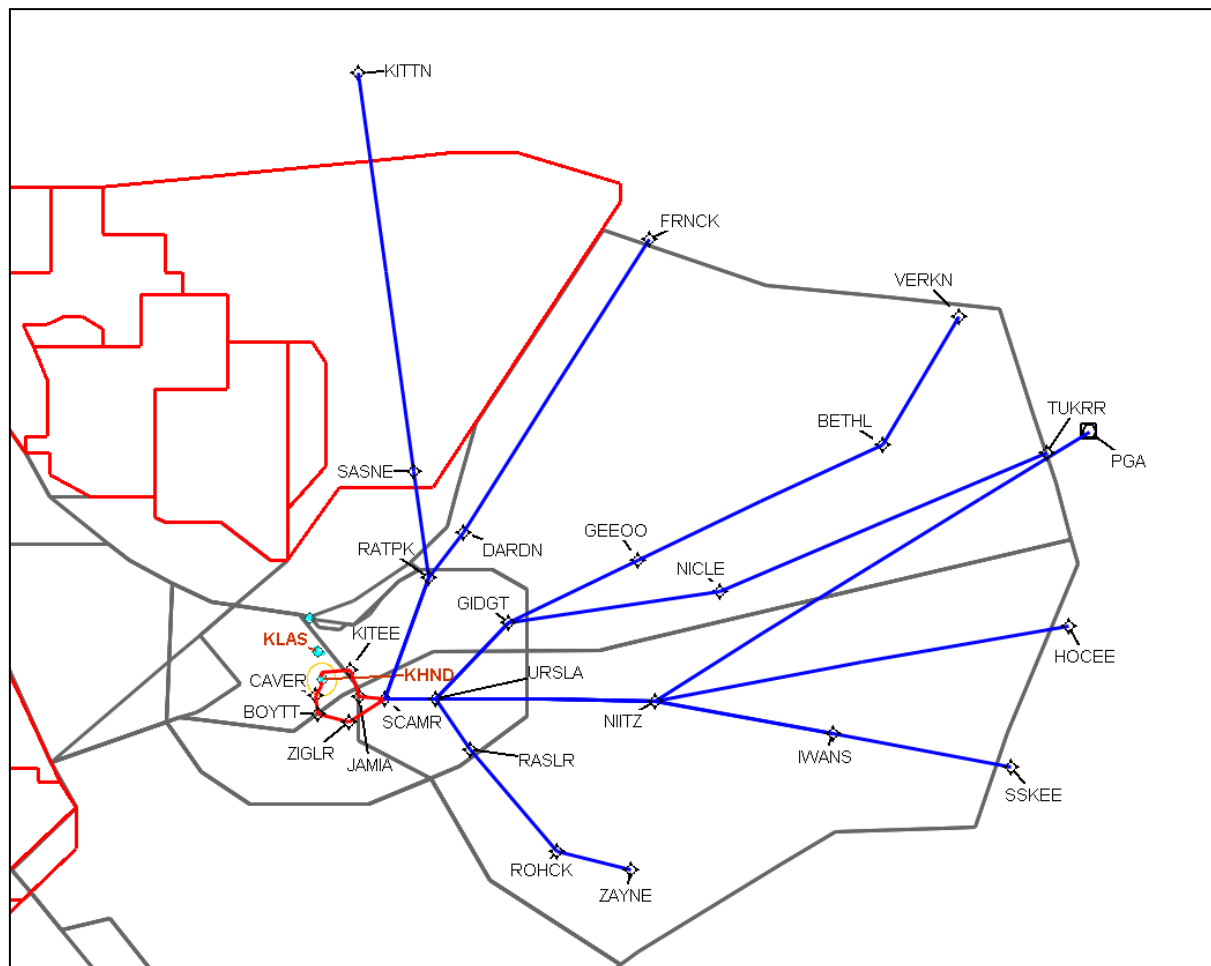
- **ATC Assigned Only**



KHND SCAMR RNAV SID – Cont.

Transitions:

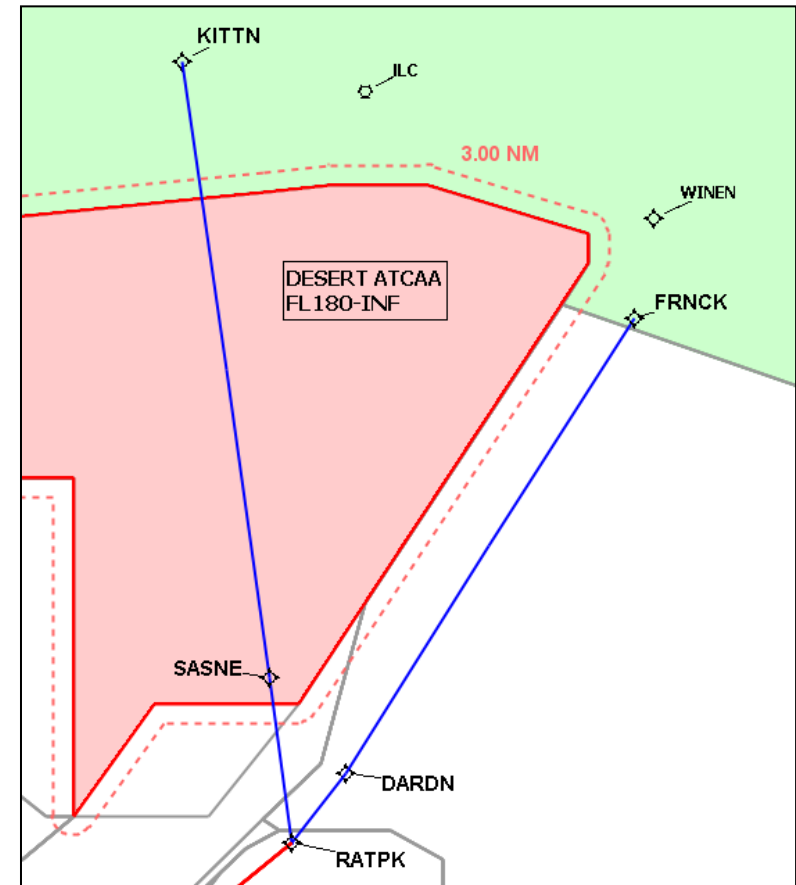
- **HOCEE (“Hockey”)**
 - 361049.55N
 - 1113249.25W
- **SSKEE (“Ski”)**
 - 353759.16N
 - 1114927.53W
- **ZAYNE (“Zane”)**
 - 351353.89N
 - 1133905.51W



KHND SCAMR: Route Planning After FRNCK

Do not file routes less than 3NM from the DESERT ATCAA

- FRNCK transition is 10NM from the DESERT ATCAA
- ATC must separate all aircraft a minimum of 3NM from SUA
- Flight planning software does not see the real-time status of the DESERT ATCAA. (ATCAA status is not provided in the SWIM feed – see SUA.FAA.GOV for real-time status)



KHND SCAMR ROUTE UPDATES

CURRENT SID:	NEW SID:
ACSIN6.CIRQS..MLF	SCAMR1.FRNCK
ASCIN6.VERKN	SCAMR1.VERKN
ASCIN6.DVC	SCAMR1.TUKRR
FLAMZ6.INW	SCAMR1.SSKEE
FLAMZ6.GUP	SCAMR1.SSKEE
FLAMZ6.FLAMZ..TBC	SCAMR1.HOCEE
FLAMZ6.FLG	SCAMR1.ZAYNE (FLG/DRK)

V2
CHG.
HERE

Please refer to new SOP and required internal routes, letters of agreement for specific altitude and speed restrictions.



New LVM STARs

KHND

- KHND BOEGY RNAV STAR
- KHND/KVGT NTNDO RNAV STAR
- KLAS/KHND GAMES RNAV STAR
- KLAS/KHND PUMLE STAR

KVGT

- KVGT FLCHR RNAV STAR
- KVGT WYLND RNAV STAR



KHND BOEGY RNAV STAR

Pronounced:

“Bogey”

Replaces: NOOTN

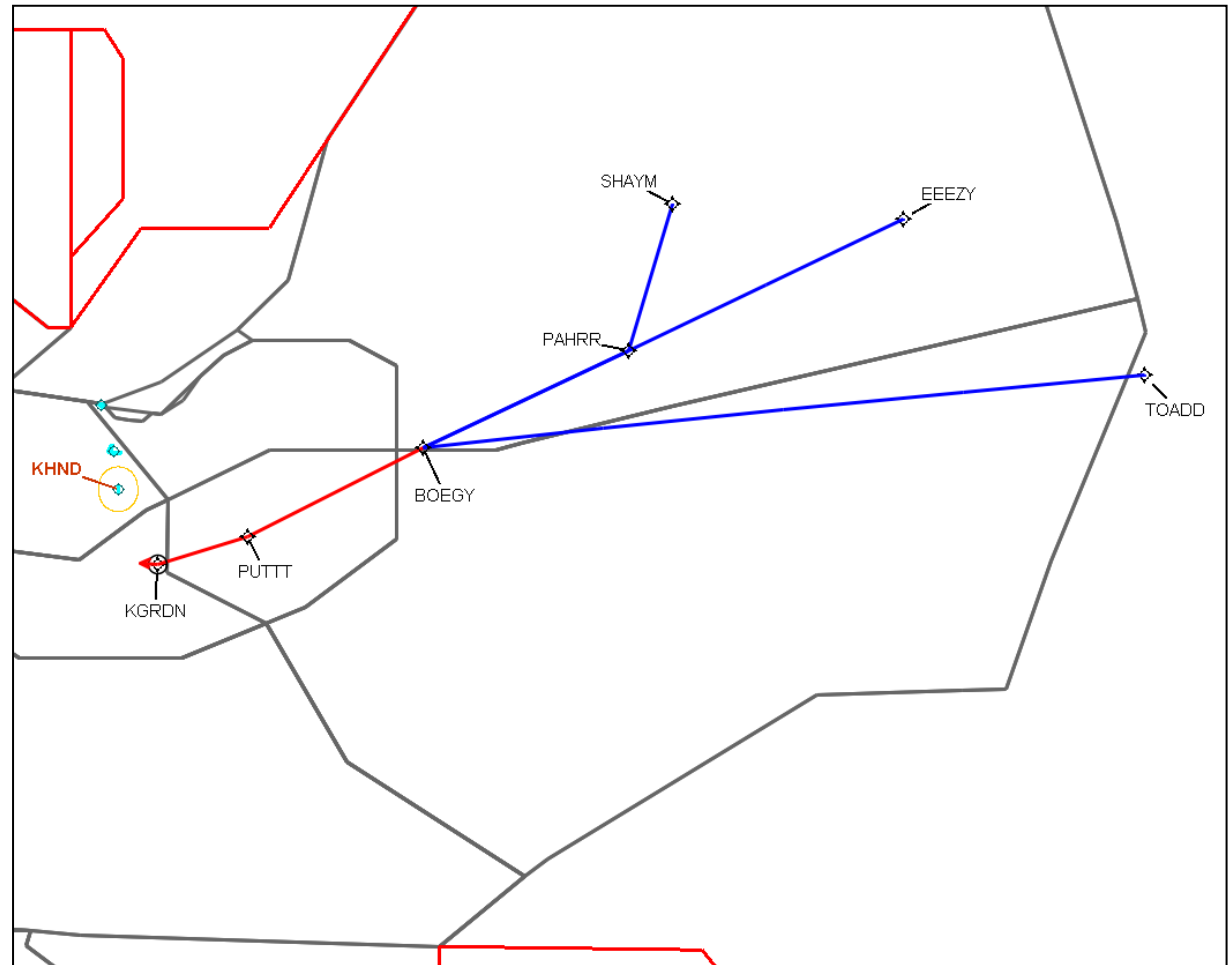
RNAV STAR

RWYs Served:

All runways

A/C Types: All

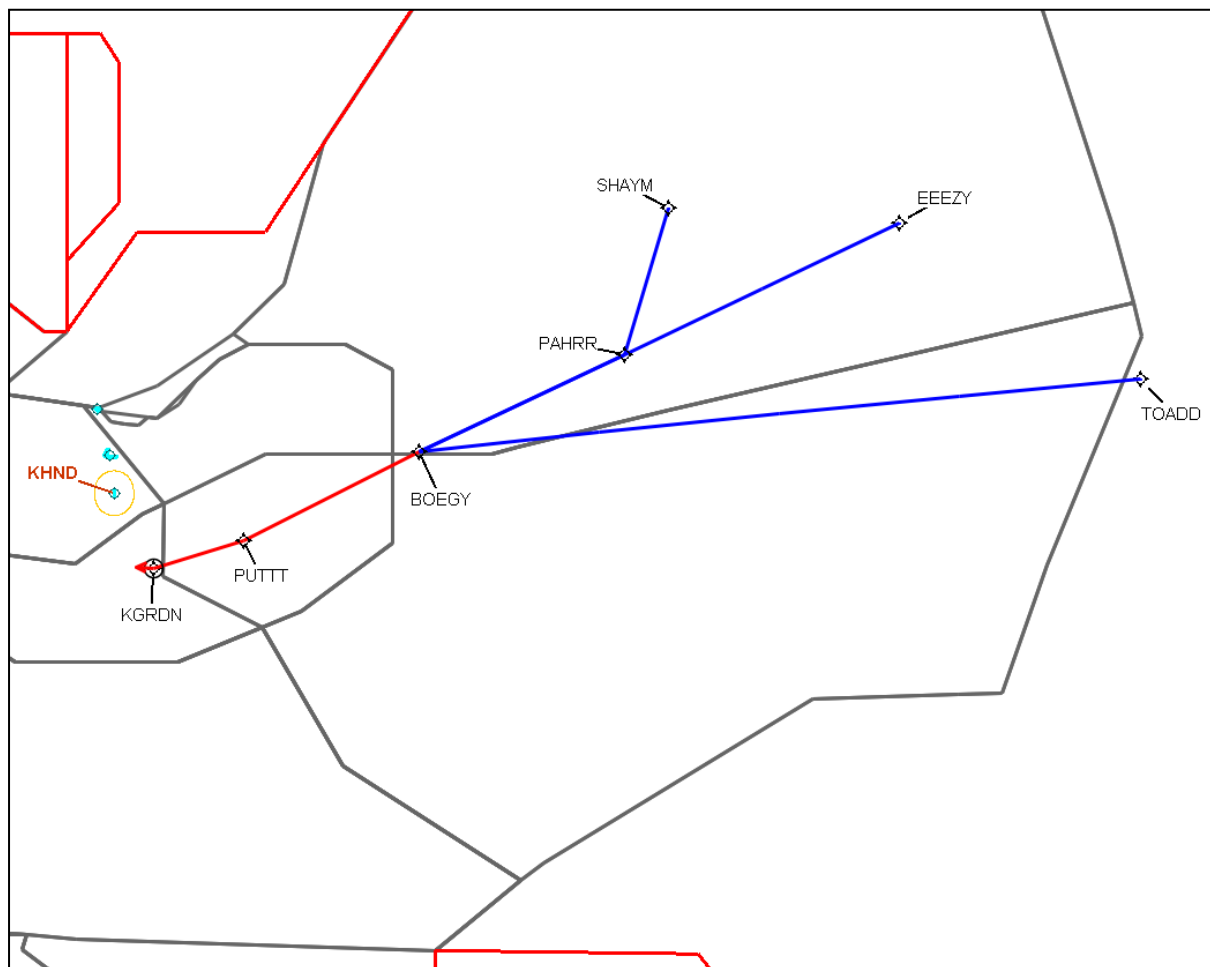
RNAV1 aircraft



KHND BOEGY RNAV STAR – Cont.

Transitions:

- **EEEZY** (Existing WP)
- **TOADD** (Existing WP)
- **SHAYM** (“Shame”)
 - 364701.41N
 - 1131042.00W



KHND BOEGY Route Updates

CURRENT STAR:	NEW STAR:
.EHK.NOOTN2.	.SHAYM.BOEGY1.
.BCE.NOOTN2.	.SHAYM.BOEGY1.
.DVC.NOOTN2.	.EEEZY.BOEGY1.
.DVC.NOOTN2.	.TOADD.BOEGY1.



KHND/KVGT NTNDO RNAV STAR

Pronounced:

“Nintendo”

Replaces: JOMIX

RNAV/KNGMN STAR

RWYs Served:

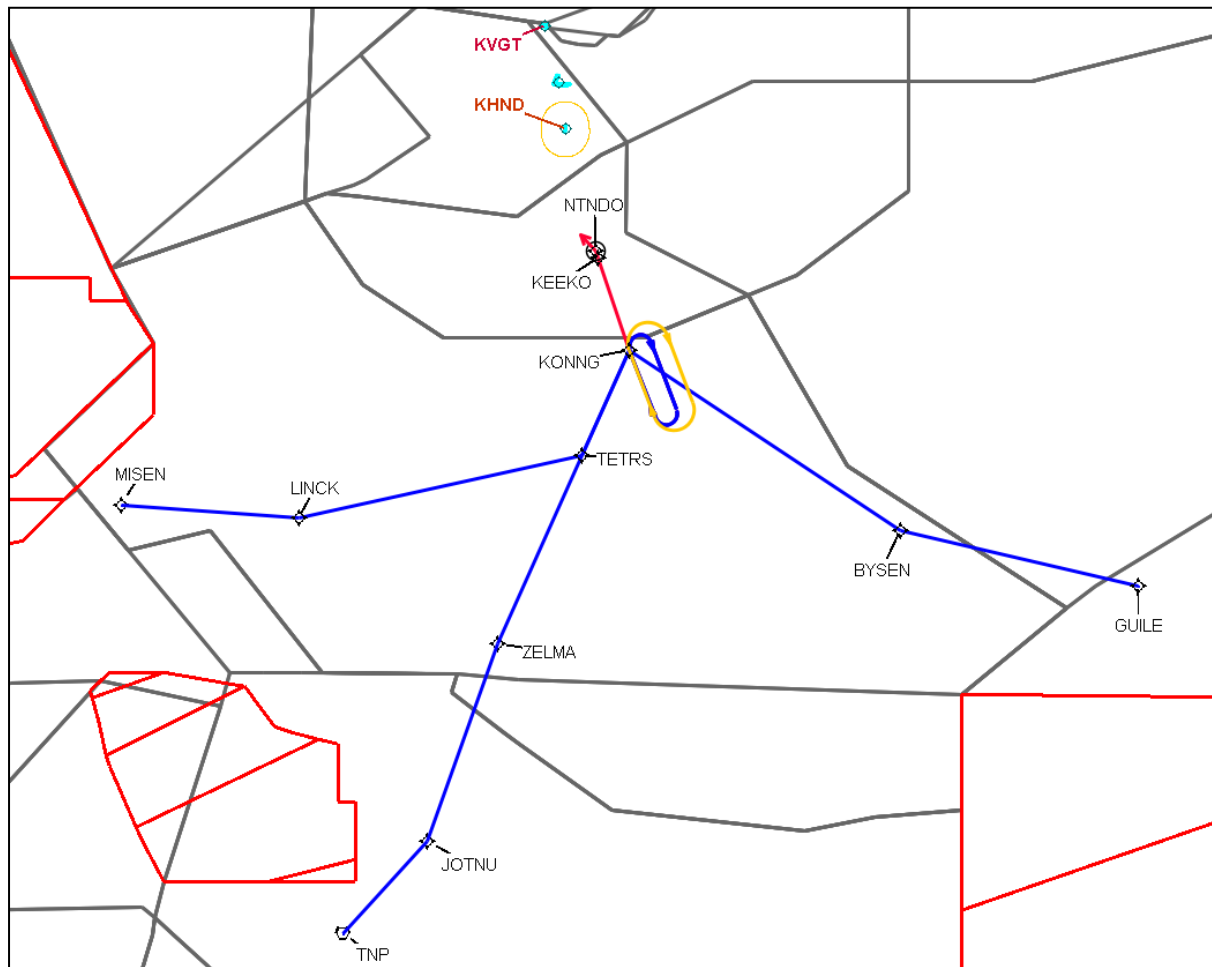
All runways

A/C Types:

KHND: All RNAV1

aircraft

KVGT: Turbojet only

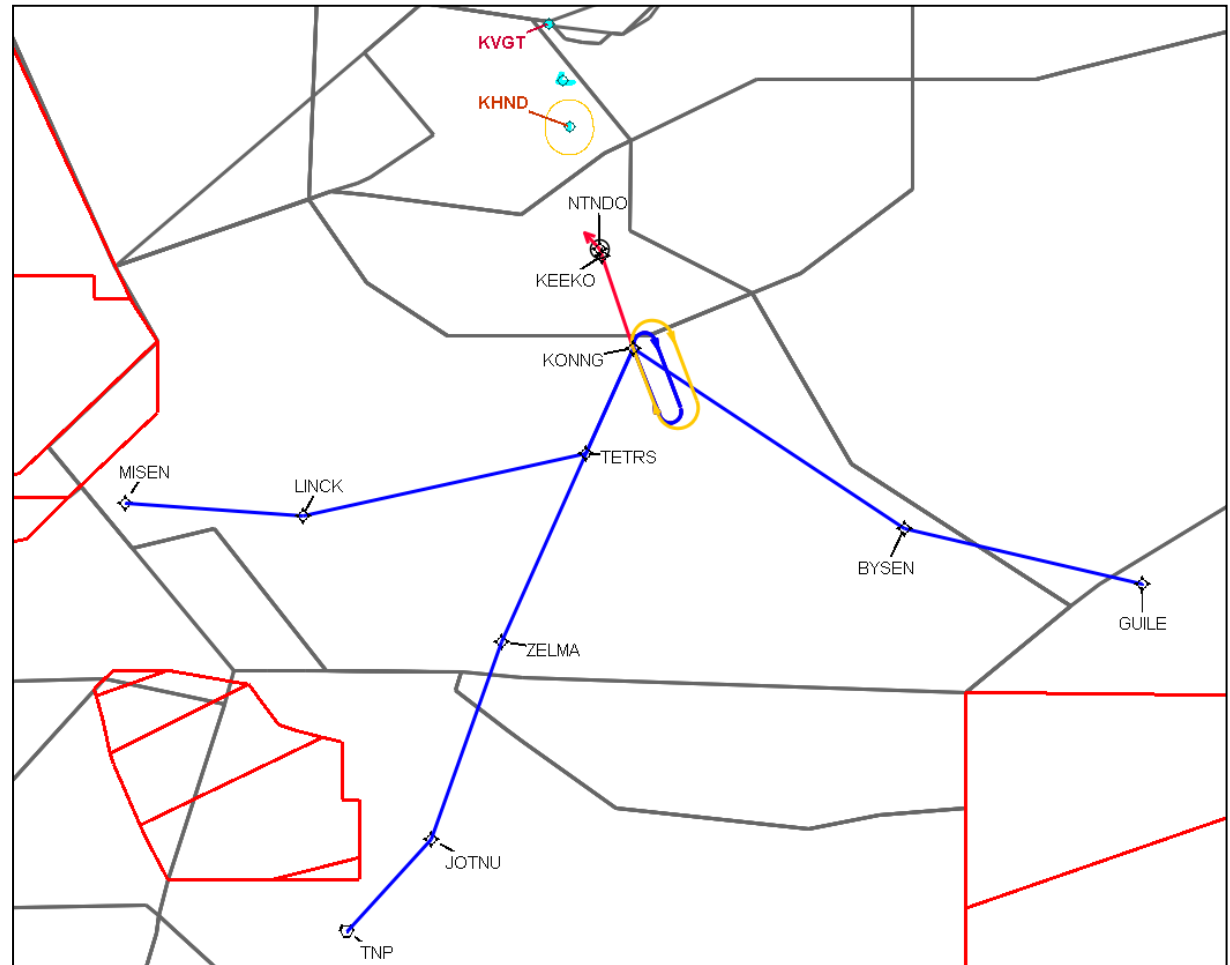


KHND/KVGT NTNDO RNAV STAR

— Cont.

Transitions:

- MISEN (Existing WP)
- TNP (Existing VOR)
- GUILF (“Guile”)
 - 345457.12N
 - 1132943.98W



KHND/KVGT NTNDO

Route Updates

CURRENT STAR:	NEW STAR:
.DAG.JOMIX1.	.MISEN.NTNDO1.
.TNP.JOMIX1.	.TNP.NTNDO1.
.IGM.KNGMN2.	.GUILE.NTNDO1.



KLAS/KHND GAMES RNAV STAR

Pronounced:

“Games”

Replaces: ADDEL

STAR (HND)

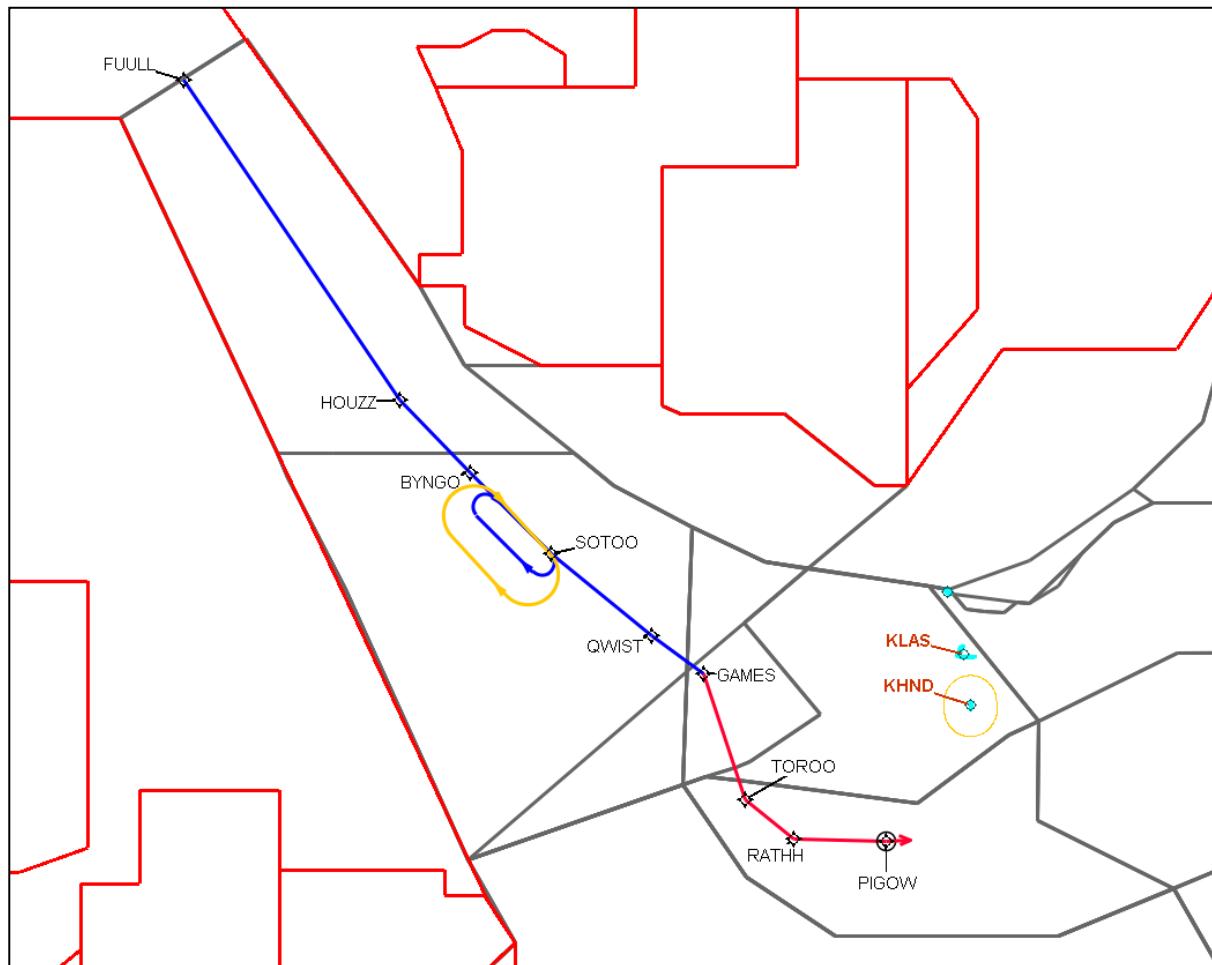
RWYs Served:

All at KLAS & KHND

A/C Types:

**KLAS: RNAV1 Prop
aircraft only. KHND:**

All RNAV1 aircraft



KLAS/KHND GAMES

Route Updates

CURRENT STAR:	NEW STAR:
.BTY.ADDEL1.KHND	.FUULL.GAMES1.KHND/KLAS
.TUMBE.ADDEL1.KHND	.FUULL.GAMES1.KHND/KLAS



KLAS/KHND PUMLE STAR

Pronounced:

“Pummel”

Replaces: FUZZY

STAR

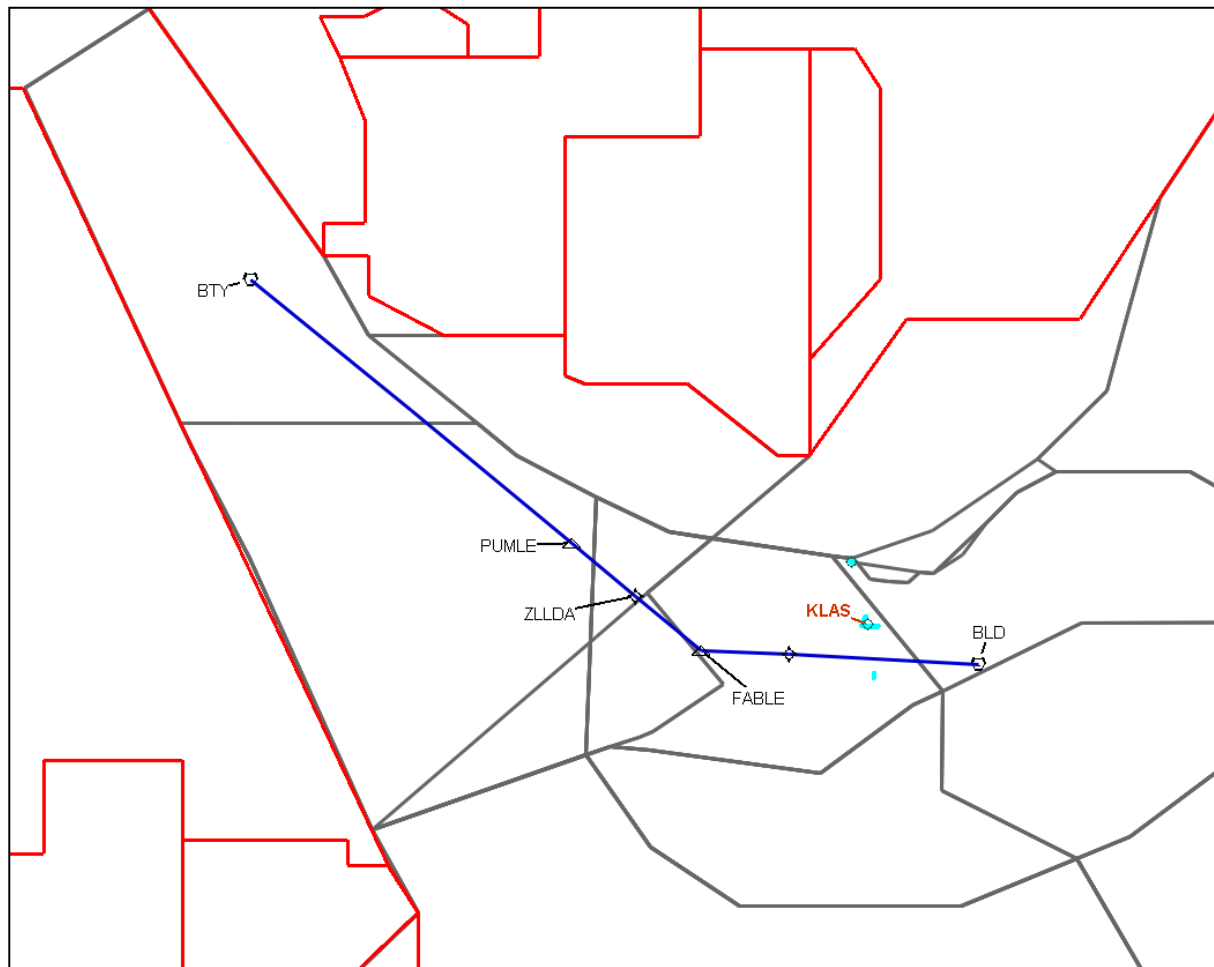
RWYs Served:

All at KLAS & KHND

A/C Types: Turbojet

only

Transitions: BTY



KLAS PUMLE Route Updates

CURRENT STAR:	NEW STAR:
.BTY.FUZZY8.	.BTY.PUMLE1.

NOTE: For non-RNAV1 aircraft only. Do not allow optimizers to find this as a “shorter” route



KVGT WYLND RNAV STAR

Pronounced:

“Wyland”

Replaces: KADDY

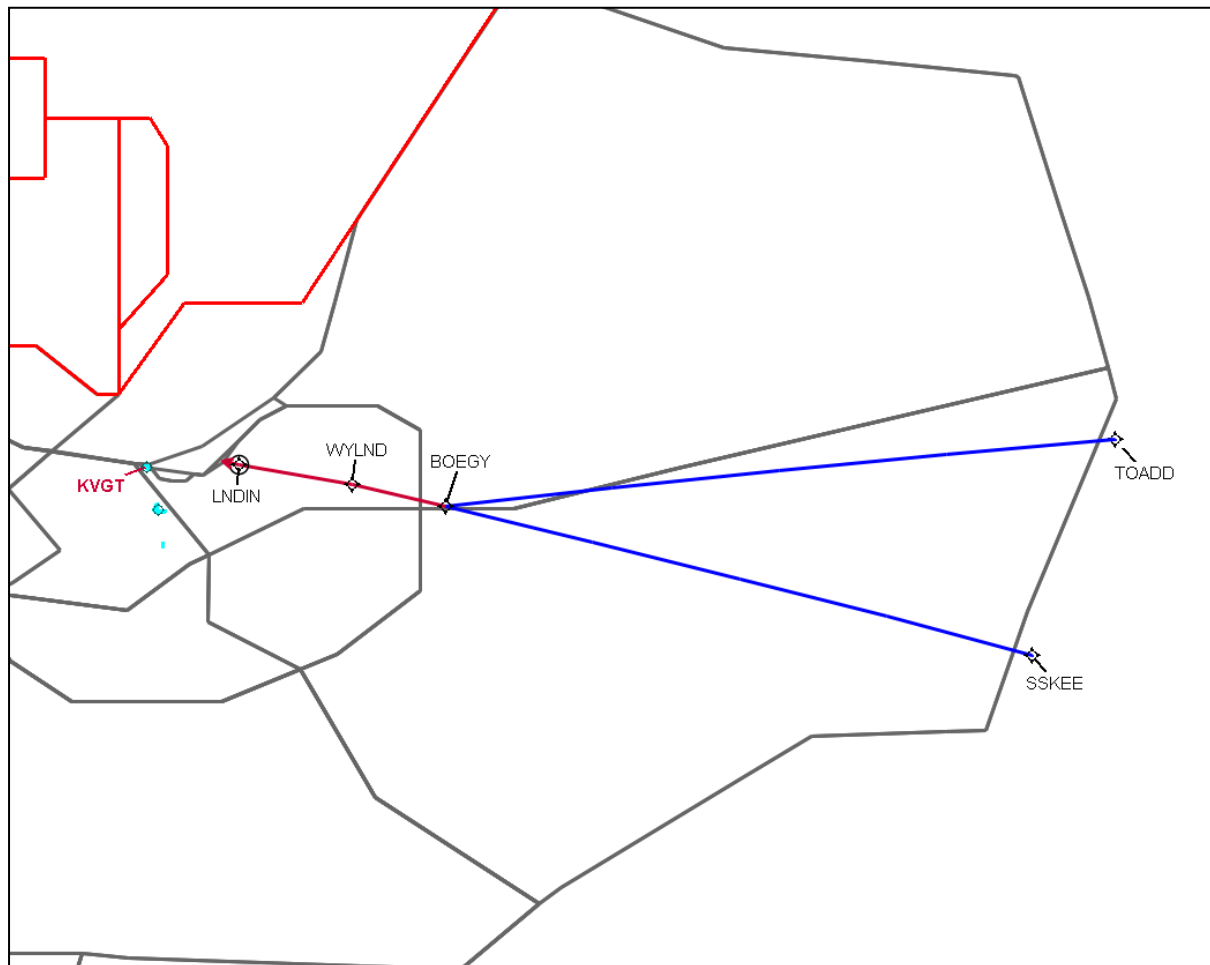
STAR

RWYs Served:

All runways

A/C Types:

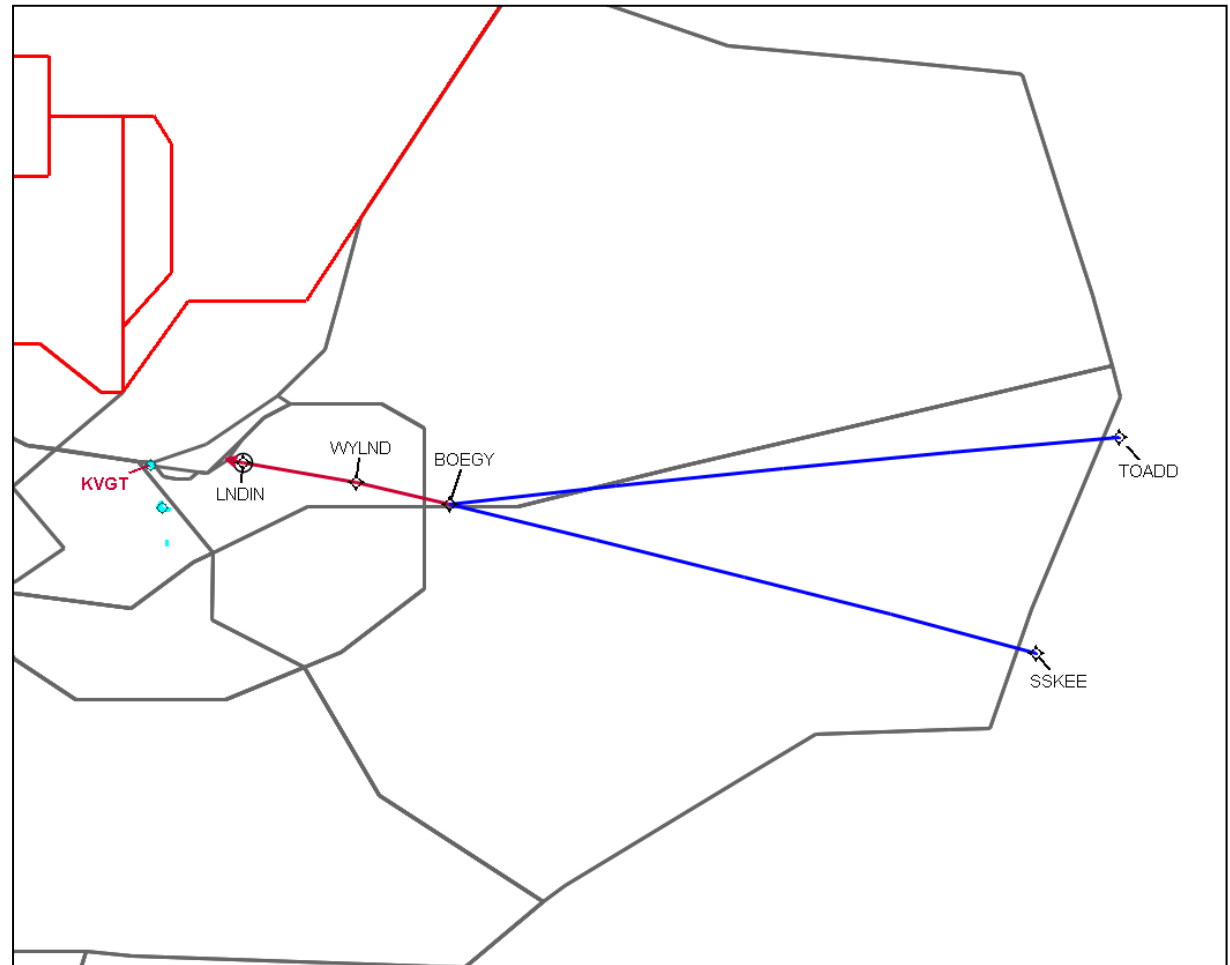
All RNAV1 aircraft



KVGT WYLND RNAV STAR – Cont.

Transitions:

- **SSKEE (“Ski”)**
 - 353759.16N
 - 1114927.53W
- **TOADD (Existing WP)**



KVGT WYLND Route Updates

CURRENT STAR:	NEW STAR:
.DRK.KADDY3.	.SSKEE.WYLND1. AOB FL300
J72 or J86.PGS.KADDY3.	.SSKEE.WYLND1. AOB FL300
NONE	.TOADD.WYLND1. AOB FL320

Please refer to new SOP and required internal routes, letters of agreement for specific altitude and speed restrictions.



KVGT FLCHR RNAV STAR

Pronounced:

“Fletcher”

Replaces: BTY..KVGT

RWYs Served:

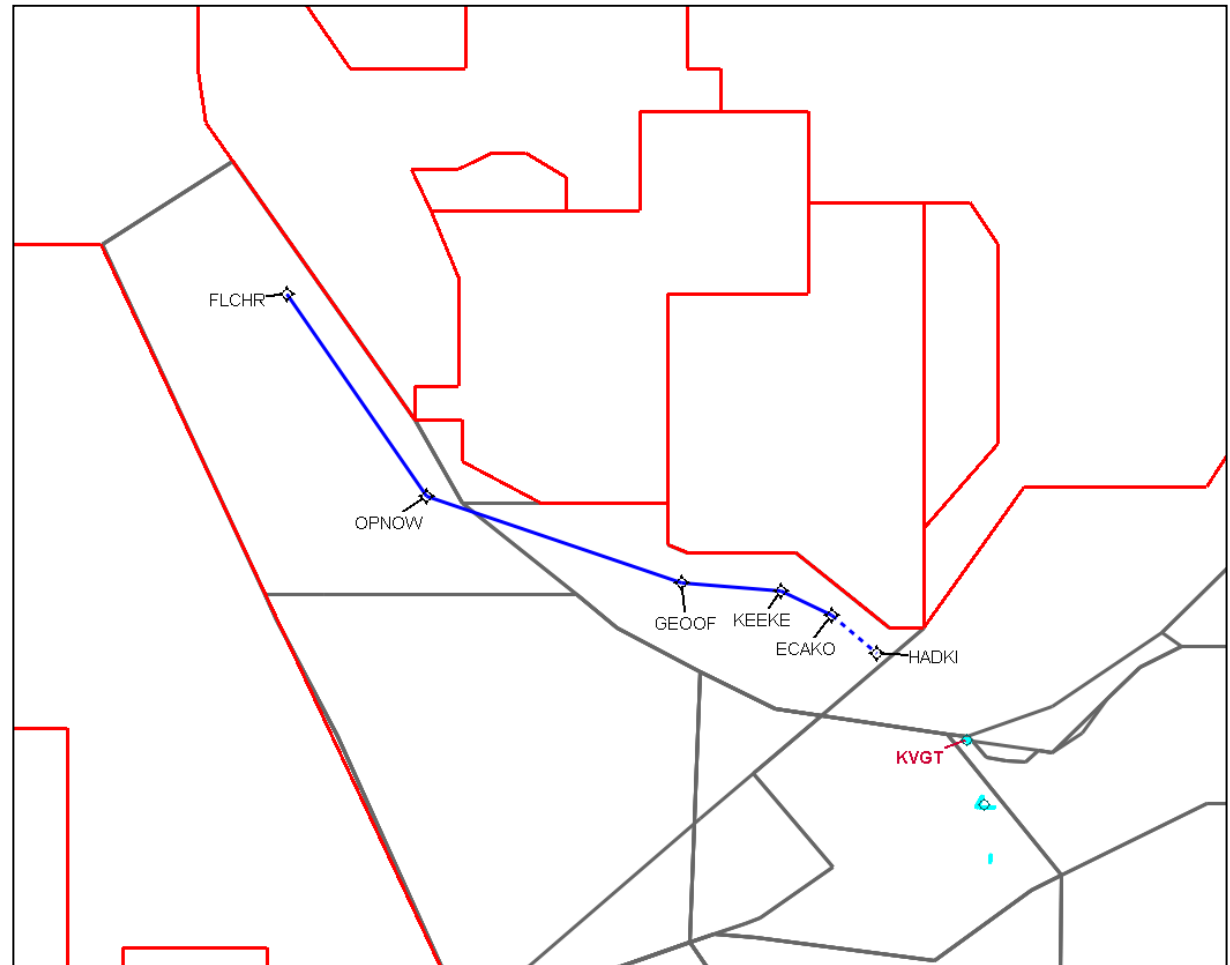
All runways

A/C Types:

**Turbojet and
turboprops only**

Transitions: FLCHR

(370602.27N 1165231.36W)



KVGT FLCHR Route Updates

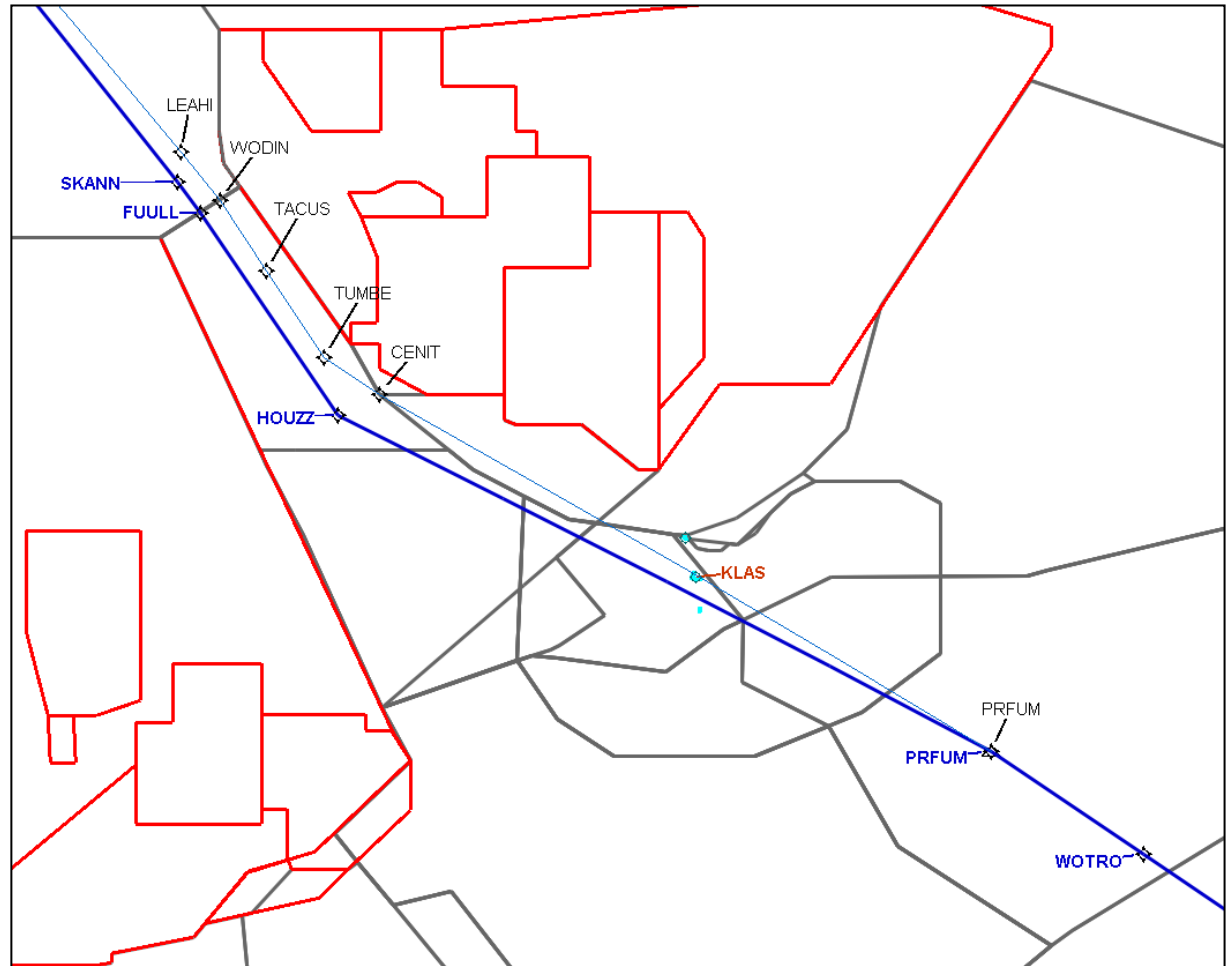
CURRENT ROUTE:	NEW STAR:
.J92.BTY..KVGT	.J92.LIDAT..FLCHR.FLCHR1 AOB FL310
NTELL.Q162.ESSAA..BTY..KVGT	Q174.FLCHR.FLCHR1. AOB FL310

Please refer to new SOP and required internal routes, letters of agreement for specific altitude and speed restrictions.



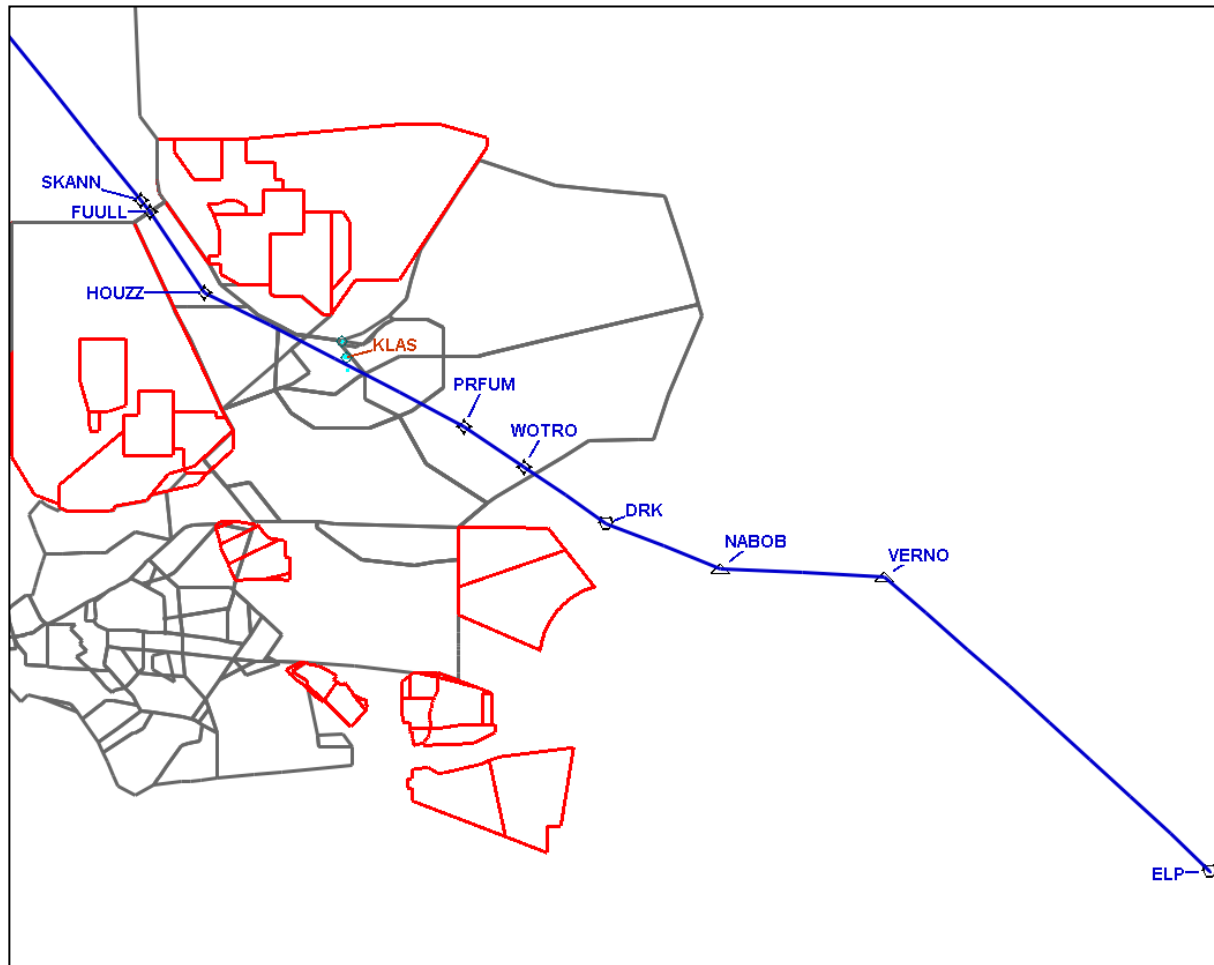
Q13 Revision in ZLA

Q13 was revised between LOMIA and PRFUM to provide a path for overflights through the Beatty Corridor that reduces complexity w/ traffic on the JOHKR SID and COKTL STAR.



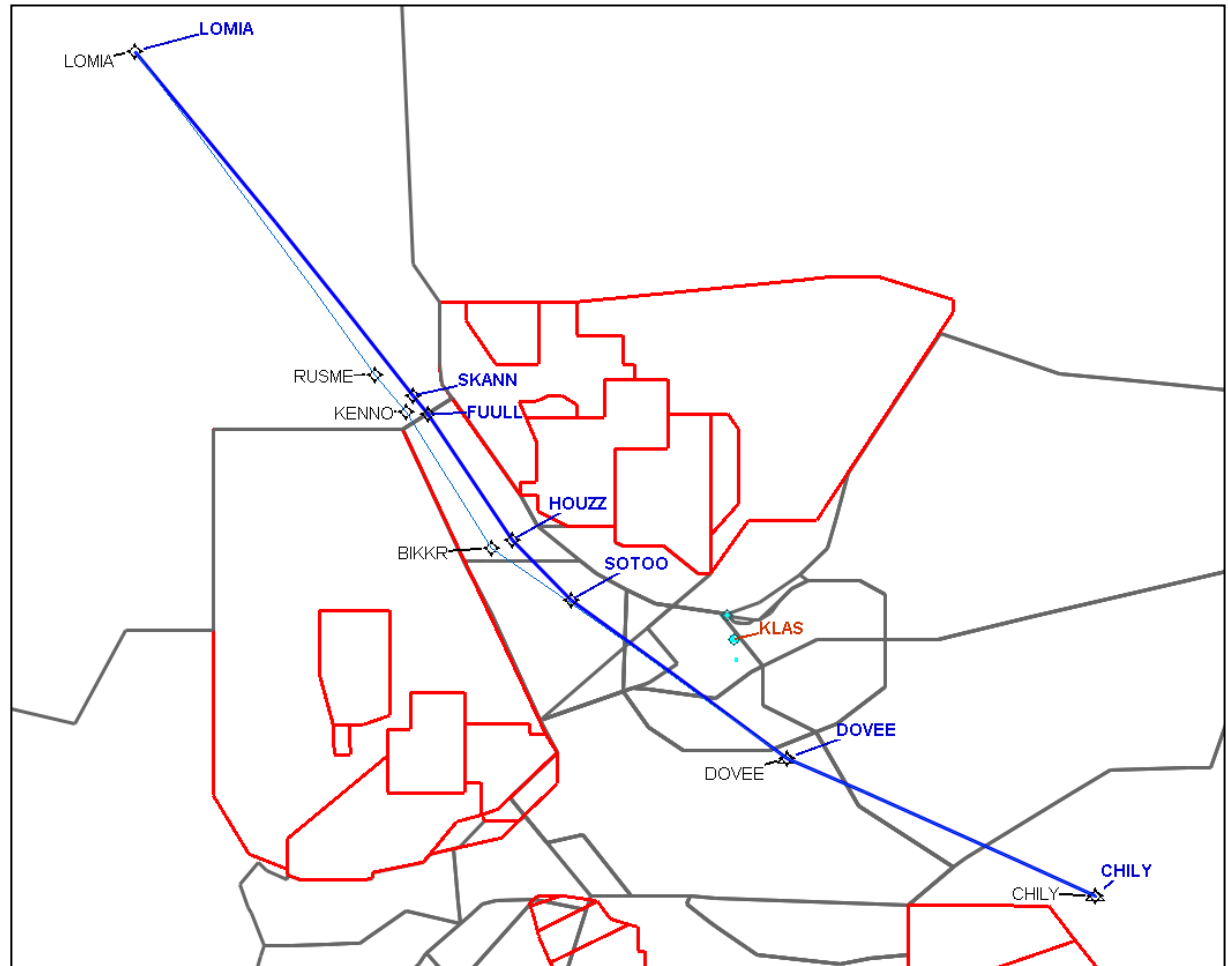
Q13 Extension: PRFUM-ELP

Q13 was extended past PRFUM to create a route through Albuquerque Center that reduces complexity between overflights and PHX arrival traffic.



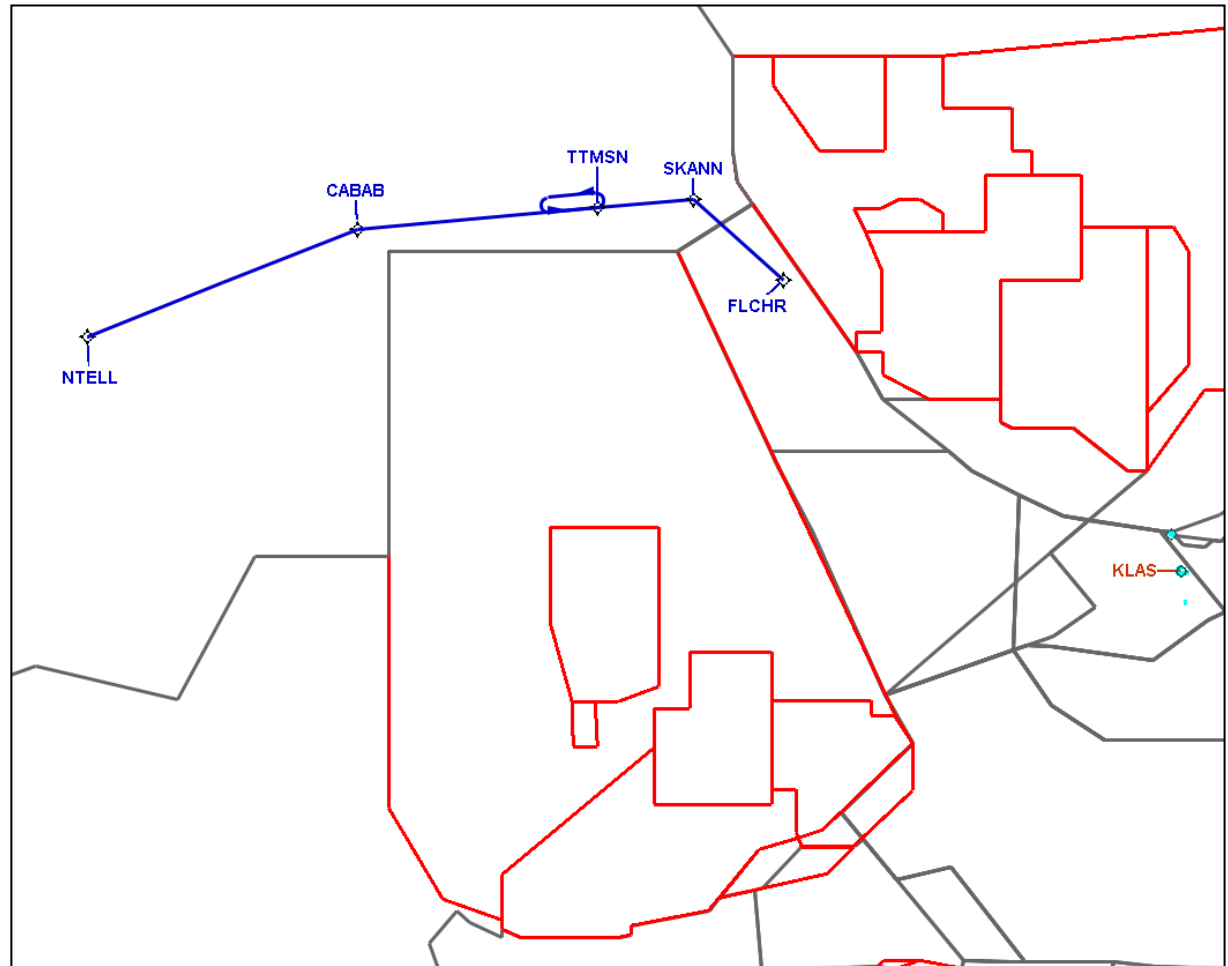
Q15 Revision

Q15 was revised between LOMIA and SOTOO to provide a path for overflights through the Beatty Corridor that reduces complexity w/ traffic on the JOHKR SID and COKTL STAR.



Q174

Q174 was designed to replace Q162 and provide connectivity to the new KLAS COKTL STAR.



Any Questions?

Contact:

vZLA Training Staff

<https://laartcc.org>

