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High Altitude Redesign (HAR) Phase I RNAV routing, pitch and catch points:

The purpose of this section of the Special High Altitude Routes is to present user routing options for flight within the initial HAR Phase I airspace. Users are able to fly user-preferred routes, referred to as non-restrictive routing, between specific fixes described by **pitch** (entry into) and **catch** (exit out of) the HAR airspace. Pitch points indicate an end of departure procedures, preferred IFR routings, or other established routing programs where a flight can begin a segment of non-restrictive routing. The catch point indicates where a flight ends a segment of non-restrictive routing and joins published arrival procedures, preferred IFR routing, or other established routing programs.

The HAR Phase I airspace is defined as that airspace at and above FL 390 (except as noted) in seven of the western Air Route Traffic Control Centers (ARTCCs). The airspace includes Minneapolis (ZMP), Chicago (ZAU), Kansas City (ZKC), Denver (ZDV), Salt Lake City (ZLC), Oakland (ZOA) and Seattle Centers (ZSE).

To develop a flight plan, select pitch and catch points based upon your desired route across the Phase I airspace. Filing requirements to pitch points, and from catch points, remain unchanged from current procedures. For the portion of the route between the pitch and catch points, non-restrictive routing is permitted.

Where pitch points for a specific airport are not identified, aircraft should file an appropriate departure procedure (DP), or any other user preferred routing prior to the NRR portion of their routing. Where catch points for a specific airport are not identified aircraft should file, after the non-restrictive routing portion of their routing, an appropriate arrival procedure or other user preferred routing to their destination.

Additionally, information concerning the location and schedule of Special Use Airspace (SUA) and Air Traffic Control Assigned Airspace (ATCAA) can be found on the Web Site: www.faa.mil/hialt. ATCAA refers to airspace in the high altitude structure supporting military and other special operations. Users are encouraged to file around these areas when they are scheduled to be active.

In conjunction with the HAR program RNAV routes have been established to provide for a systematic flow of air traffic in specific portions of the enroute flight environment. The designator for these RNAV routes begin with the letter Q, for example, Q-501. Where those routes aid in the efficient orderly management of air traffic they will be published as preferred IFR routes.

HAR Special High Altitude Pitch (entry) Points for non-restrictive routing for Airports Located Outside HAR Phase I Airspace

Westbound traffic originating outside of HAR airspace entering ZAU, ZKC, and ZMP can begin non-restrictive routing over any of the following pitch points (listed from north to south):

DLH, CESNA, GEP, BAE, MKG, GRR, PMM, GSH, CADIZ, FWA, VHP, FLM, IIU, SGF, RZC, BNA or VUZ

HAR Special High Altitude Pitch Points for Airports Located Within (below) HAR Phase I Airspace

This section lists pitch points for airports within the HAR Phase I airspace.

Chicago Terminal Area IOW, PLL275065, MZV, or BAE

Milwaukee GREAS

Denver Terminal Area PUB, DVC, DBL, RLG, EKR, LAR, MBW, CYS, BFF, HANKI, ALS, HCT, GLD, MCK or GCK

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Kansas City Terminal Area	TIFTO, CATTS or KENTN
Minneapolis Terminal Area*	ONL, ABR or FAR or FSD J82 VIVID or J21 OVR
Portland, OR	PDT or TIMEE
Salt Lake City	HVE, DTA, MLF, BCE, OAL, MTU, BVL, OCS, TWF, DBS or BPI Or TCH J56 CHE Or TCH J173 EKR
St. Louis	VIH, SGF or MCM or HLV MCI
San Francisco Bay Area Oakland San Jose	GALLI, INSLO, HAROL or JSICA GALLI, INSLO, HAROL or JSICA GALLI or INSLO
Seattle	BLUIT

* MSP area departures with destinations east of 93 degrees west longitude via preferred IFR routing.

Catch Points for Airports Located Outside HAR Phase I Airspace

This section lists exit points for aircraft destined to specific destinations which are outside the HAR Phase I airspace.

Albuquerque Terminal Area	CURLY-STAR or ESPAN FRIHO-STAR
Atlanta Terminal Area	MEM RMG-STAR or PLESS BNA-STAR
Baltimore-Washington*	GIJ, GEP, FLM, IIU, BAE, VHP or WHETT
Boston*	GEP, CRL or ECK
Buffalo*	GEP or CRL
Hartford Bradley*	GEP or CRL
Canton-Akron*	GIJ, VHP or GEP
Charlotte	BNA
Cincinnati Terminal Area	North of SLC: JOT

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or
Over or South of SLC: ENL
or
SLC or SFO Departures: ENL or JOT

Cleveland Terminal Area* GIJ, BAE, GRB, TVC, VHP, CRL or GEP

Dallas/Ft. Worth Trmnl Area Aircraft over or east of ALS:
PNH UKW-STAR
or
RZC FSM BYP-STAR
or
Aircraft west of ALS:
LVS TXO UKW-STAR

Detroit Terminal Area* BAE or VHP
Detroit City* LAN SPRTN-STAR
or
VHP FWA

Fort Lauderdale Departures West of MSP: SZW

Houston Terminal Area OKC, TUL, LBL, LIT or MQP

Indianapolis Terminal Area BIB, CAP or JOT

Jacksonville Terminal Area Departures West of MSP: SZW

Las Vegas Aircraft north of J146: BETHL KSINO-STAR
or
Aircraft on or south of J146: PGS LYNSY-STAR

Los Angeles Terminal Area Arrivals north of or over TBC: BLD or PGS

Louisville ENL

Memphis Terminal Area FAM or RZC

Miami SZW

Nashville FAM

Newark* GEP, VHP, FLM or IIU
or
IOW GIJ J554 CRL J584 SLT FQM-STAR

New York Kennedy* GEP, VHP, FLM or IIU
or
DBQ J94 PMM J70 LVZ LENDY-STAR

New York LaGuardia* VHP, BAE, FLM, IIU, GIJ or GEP

Orlando Terminal Area Departures West of MSP: SZW

Philadelphia Terminal Area* VHP, GIJ, BAE, WHETT or GEP

Phoenix Terminal Area CORKR
or
GUP FOSSIL-STAR

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or
LBL LVS ZUN BUNTR-STAR
or
GCK J96 CIM ZUN BUNTR-STAR

Pittsburgh Terminal Area* VHP, GIJ, BAE or GEP

Pontiac LFD, LAN, VHP FWA or GEP

Providence JHW, HEMDI, CESNA, GEP, GRB, TVC, ASP or VHP

Raleigh-Durham FLM or IIU

San Diego Terminal Area Aircraft north of DBL: BLD
or
Aircraft on or south of DBL: EED

Santa Ana HEC, PGS, BLD or HIPPI

Regional Southwest Intl SZW

Tampa Terminal Area Departures West of MSP: SZW

Toronto Terminal Area ECK, SVM, SSM or GEP

Teterboro* GEP, VHP or CRL

Tucson Terminal Area SSO, DRK or ONM

Washington Dulles/National* GIJ, GEP, FLM, IIU, BAE, VHP or WHETT

White Plains* VHP, CRL, FLM, IIU or GEP

Willow Run* LAN, LFD, VHP FWA or GEP

* Eastbound aircraft over-flying Minneapolis center airspace:

Entering Toronto center, direct SSM or via J63 or J522 or Q505 or Q504 or Q502 or Q501.

or

Entering Chicago or Cleveland Center airspace from north of DPR J16 MCW: GEP

or

Entering Chicago or Cleveland center airspace from or south of DPR J16 MCW: CRL.

Catch Points for Airports Located Within (below) HAR Phase I Airspace

This section lists exit points for aircraft destined to airports which are below HAR Phase I airspace.

Chicago Midway MZV MOTIF-STAR
or
CAP MOTIF-STAR
or
PIA MOTIF-STAR
or
DBQ CVA MOTIF-STAR

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Chicago O'Hare Terminal Area GEP DLL MSN JVL JVL-STAR
or
TVC PMM-STAR
or
FOD DBQ JVL JVL-STAR
or
MCW JVL-STAR
or
GCK IRK BDF-STAR
Or
SLN IRK BDF-STAR

Denver Terminal Area OATHE DANDD-STAR
or
HGO QUAIL-STAR
or
ALS LARKS-STAR
or
HBU POWDR-STAR
or
EKR TOMSN-STAR
or
CHE TOMSN-STAR
or
BFF LANDR-STAR
or
LBF SAYGE-STAR
or
HCT SAYGE-STAR
or
RSK LARKS-STAR
or
LAA QUAIL-STAR
or
GCK J154 RYLIE DANDD-STAR
or
OCS J154 ALPOE RAMMS-STAR
or
YANKI J114 SNY LANDR-STAR
Or
Aircraft filed BIL or east: MBW RAMMS-STAR

Kansas City Terminal Area LMN BQS-Star
or
PWE RBA-Star
or
EMP JHAWK-Star

Minneapolis Terminal Area Aircraft From NORTH/WEST/SOUTH:
FAR GEP-STAR
or
RWF SKETR-STAR
or
ALO KASPR-STAR
or
BRD GEP-STAR
or
BAE EAU-STAR

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or
MCW KASPR-STAR
or
FOD KASPR-STAR

Oakland

ILA
or
KATTS PAMMY
or
Aircraft over or south of a line ILC J16 DVC
south:
REANA KATTS PAMMY
or
Aircraft from NORTH OF ILC: JOPER PAMMY
OR
KATTS PAMMY
OR
OVER OR SOUTH OF ILC: REANA KATTS PAMMY

Portland, Or Terminal Area

ARNIT BONVL-STAR
or
LARNO BONVL-STAR
Or
MOXEE MOXEE-STAR

ST. LOUIS

SGF TRAKE-STAR

or

BUM TRAKE-STAR

or

ANX TRAKE-STAR

or

LMN..IRK RIVRS-STAR

or

RBS VLA-STAR

Salt Lake City Terminal Area

JNC J12 HELPR SPANE-STAR
or
EKR MTU SPANE-STAR
or
BCE DTA-TCH
or
MLF DTA-TCH
or
BVL BVL-STAR
or
BYI BEARR-STAR
or
PIH BEARR-STAR
or
DBS LHO-STAR
or

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JAC LHO-STAR
or
BPI LHO-STAR
or
OCS LHO-STAR

San Francisco

FMG GOLDN-STAR
or
MVA MOD-STAR
or
ENI GOLDN-STAR
or
OAL MOD-STAR
or
South of a line ILC to DVC:
REANA KATTS OAL MOD-STAR

San Jose

FMG HYP HYP-STAR or OAL HYP HYP-STAR or ENI GOLDN-STAR or South of a line ILC to DVC via REANA KATTS
KICHI CANDA HYP-STAR

Seattle Terminal Area

Aircraft From NORTHEAST/SOUTHEAST/SOUTH:
TEMPL GLASR-STAR
or
SUNED CHINS-STAR
or
BTG OLM-STAR