

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
GRAPHIC DEPARTURE PROCEDURES (DP)**

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL. Altitudes are minimum altitudes unless otherwise indicated
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

DP NAME	NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	ACTUAL EFFECTIVE DATE
HARYS	FIVE	HARYS5.HARYS	FOUR	09/10/2020	20FEB2025

TYPE:	OBSTACLE	COPTER	SID	SPECIAL	RNAV
	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

DP ROUTE DESCRIPTION:

TAKEOFF RWY 16R: CLIMB ON HEADING 163.51 TO INTERCEPT COURSE 109.01 TO CROSS DSSRT AT OR ABOVE 3000, THEN ON TRACK 109.00 OR AS ASSIGNED BY ATC FOR VECTORS TO CROSS BSHOW AT OR ABOVE 6000, THEN ON TRACK 337.27 TO HARYS, THEN ON TRANSITION. MAINTAIN FL230. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

ALL AIRCRAFT: ATC CLIMB GRADIENT: IF UNABLE TO ACCEPT CLIMB RATE ADVISE ATC PRIOR TO TAXI. RWY 16R: ATC CLIMB RATE OF 600 FT/NM TO 3000.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

TRANSITION NAME	TRANSITION COMPUTER CODE	FROM FIX/NAVAID	TO FIX/NAVAID	COURSE	DISTANCE	MEA	MOCA	CROSSING ALTITUDE/FIXES
BLYTHE	HARYS5.BLH	HARYS	SLAPP	TRACK 027.51	9.58	7100	6300	SLAPP AT/ABOVE 13000
		SLAPP	YAAPY	TRACK 027.59	15.62	13000	7500	YAPPY AT/ABOVE 15000
		YAAPY	JETHK	TRACK 066.34	8.01	15000	4900	JETHK AT/BELOW FL 190
		JETHK	AERRO	TRACK 103.30	51.29	15000	10500	
		AERRO	DECAS	TRACK 098.29	84.33	15000	12200	
		DECAS	BLH VORTAC	TRACK 099.19	37.38	15000	5800	
HAILO	HARYS5.HAILO	HARYS	SLAPP	TRACK 027.51	9.58	7100	6300	SLAPP AT/ABOVE 13000
		SLAPP	YAAPY	TRACK 027.59	15.62	13000	7500	YAPPY AT/ABOVE 15000
		YAAPY	JETHK	TRACK 066.34	8.01	15000	4900	JETHK AT/BELOW FL 190
		JETHK	BBITE	TRACK 073.76	10.59	15000	5900	BBITE AT/ABOVE FL 200
		BBITE	ANTLP	TRACK 075.23	12.39	15000	6400	
		ANTLP	GUNNR	TRACK 057.13	27.54	15000	6300	
		GUNNR	ARMY	TRACK 035.41	16.52	15000	6800	
ARMY	HAILO	TRACK 035.44	51.05	15000	7500			
HECTOR	HARYS5.HEC	HARYS	SLAPP	TRACK 027.51	9.58	7100	6300	SLAPP AT/ABOVE 13000

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HARYS		FIVE	HARYS5.HARYS	FOUR	09/10/2020	20FEB2025		
		SLAPP	YAAPY	TRACK 027.59	15.62	13000	7500	YAAPY AT/ABOVE 15000
		YAAPY	JETHK	TRACK 066.34	8.01	15000	4900	JETHK AT/BELOW FL 190
		JETHK	BBITE	TRACK 073.76	10.59	15000	5900	BBITE AT/ABOVE FL 200
		BBITE	ANTLP	TRACK 075.23	12.39	15000	6400	
		ANTLP	HEC VORTAC	TRACK 072.22	51.92	15000	7700	
LAS VEGAS	HARYS5.LAS	HARYS	SLAPP	TRACK 027.51	9.58	7100	6300	SLAPP AT/ABOVE 13000
		SLAPP	YAAPY	TRACK 027.59	15.62	13000	7500	YAAPY AT/ABOVE 15000
		YAAPY	JETHK	TRACK 066.34	8.01	15000	4900	JETHK AT/BELOW FL 190
		JETHK	BBITE	TRACK 073.76	10.59	15000	5900	BBITE AT/ABOVE FL 200
		BBITE	ANTLP	TRACK 075.23	12.39	15000	6400	
		ANTLP	NNAVY	TRACK 060.08	40.46	15000	6300	
		NNAVY	BLAZN	TRACK 035.24	63.19	15000	6700	
		BLAZN	LAS VORTAC	TRACK 036.23	40.41	15000	9800	
MISEN	HARYS5.MISEN	HARYS	SLAPP	TRACK 027.51	9.58	7100	6300	SLAPP AT/ABOVE 13000
		SLAPP	YAAPY	TRACK 027.59	15.62	13000	7500	YAAPY AT/ABOVE 15000
		YAAPY	JETHK	TRACK 066.34	8.01	15000	4900	JETHK AT/BELOW FL 190
		JETHK	BBITE	TRACK 073.76	10.59	15000	5900	BBITE AT/ABOVE FL 200
		BBITE	ANTLP	TRACK 075.23	12.39	15000	6400	
		ANTLP	NNAVY	TRCK 060.08	40.46	15000	6300	
		NNAVY	MISEN	TRACK 043.49	19.37	15000	5500	

PBN REQUIREMENT NOTES:

RNAV 1 - DME/DME/IRU OR GPS

EQUIPMENT REQUIREMENT NOTES:

RADAR REQUIRED

PROCEDURAL DATA NOTES:

TURBOJET AND HIGH PERFORMANCE TURBOPROP AIRCRAFT ONLY.
MISEN TRANSITION RESTRICTED TO AIRCRAFT LANDING LAS TERMINAL AREA.



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DO NOT FILE HAILO TRANSITION - TO BE ASSIGNED BY ATC.
CROSS DER/VNY VOR/DME 1.5 DME SOUTH AT OR BELOW 1750.

TAKEOFF MINIMUMS:

RWY 16R: STANDARD WITH MINIMUM CLIMB OF 540 FT/NM TO 1302.

TAKEOFF OBSTACLES NOTES:

SEE FORM 8260-15A, TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP).

CONTROLLING OBSTACLES:**MSA:**

MSA FROM KVNY, 9300

LOST COMMUNICATIONS PROCEDURES:**ADDITIONAL FLIGHT DATA:**

CHART: TOP ALTITUDE: FL230

MAG VAR: KVNY 12E/2020

DME/DME ASSESSMENT SAT: RNP (2.0)

CHART: MINIMUM CROSSING ALTITUDE AT BSHOW-6000.

CHART: VNY VOR/DME 1.5 DME ARC.

AIRPORTS SERVED:

<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
KVNY	VAN NUYS	CA

COMMUNICATIONS:

CHART: ATIS, CLNC DEL, GND CON, TOWER.

FIXES AND/OR NAVAIDS:**REMARKS:**

AFS APPROVAL LETTER FOR ATC CG TO 3000' CROSSING RESTRICTION AT DSSRT.

WAIVER ON FILE AUTHORIZING CROSSING RESTRICTION OF AT OR BELOW 1750 AT DER THAT PROVIDES LESS THAN 1000' OF ROC OVER HIGHEST OBSTACLE.

WAIVER REQUEST TO PERMIT ESTABLISH A NON-OBSTACLE BASED CLIMB GRADIENT FOR ATC.

100 FT VEG USED PER FPT.

MSA CONTROLLING OBSTACLE: AAO 342012.00N/1175612.00W 8239 MSL.

MEAS BASED ON DME/DME EVALUATION.

589 FT/NM CG IS REQUIRED FROM THE DER TO MEET THE 3000' CROSSING RESTRICTION AT DSSRT.

540 FT/NM CG REQUIRED TO MEET THE LNAV ENGAGEMENT ALTITUDE PRIOR TO TURNING TO DSSRT.



<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
HARYS	FIVE	HARYS5.HARYS	FOUR	09/10/2020	20FEB2025

<u>FLIGHT INSPECTED BY</u>	<u>SIGNATURE</u>	<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
THOMAS E MOLOKIE	<i>Digitally signed by</i> ROBERT G HAMILTON Dec 20, 2024	AJF	12/18/2024	
<u>DEVELOPED BY</u>	<u>SIGNATURE</u>	<u>OFFICE</u>	<u>DATE</u>	
ERIC SUSKI (ZACHARY KRUEGER)	<i>Digitally signed by</i> ROBERT G HAMILTON Dec 20, 2024	AJV-A431	07/02/2024	
<u>APPROVED BY</u>	<u>SIGNATURE</u>	<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
ERIC SUSKI	<i>Digitally signed by</i> ROBERT G HAMILTON Dec 20, 2024	AJV-A431		MANAGER
<u>REQUIRED EFFECTIVE DATE</u>				
ROUTINE				

COORDINATED WITH:

A4A **ALPA** **AOPA** **APA** **HAI** **NBAA** **OTHER:**ZLA, SOCAL APP/DEP CON, APT MGR, OR AERO DIV, VNY ATCT

CHANGES - REASONS:

1. REMOVED PROCEDURAL DATA NOTES "RADAR REQUIRED, RNAV 1, DME/DME/IRU OR GPS REQUIRED. ADDED PBN REQUIREMENT NOTE: RNAV 1 - DME/DME/IRU OR GPS; EQUIPMENT REQUIREMENT NOTES: RADAR REQUIRED. - IAW 8260.19J
2. ADDITIONAL FLIGHT DATA: CHANGED "REFERENCE MAG VAR: KVNY 12E EPOCH YR: 2020" TO "MAG VAR: KVNY 12E/2020 - MEMO: MAGNETIC VARIATION DOCUMENTATION FOR STANDARD INSTRUMENT DEPARTURE AND GRAPHIC ODP'S.
3. DP ROUTE DESCRIPTION: CHANGED FROM "TAKEOFF RUNWAY 16R: CLIMB ON HEADING 163.51 TO 1303, THEN DIRECT PPRRY, THEN ON HEADING 110.00 OR AS ASSIGNED BY ATC, THEN ON VECTORS TO CROSS BSHOW AT OR ABOVE 6000, THEN ON TRACK 337.27 TO HARYS, THENCE..." TO "TAKEOFF RWY 16R: CLIMB ON HEADING 163.51 TO INTERCEPT COURSE 109.01 TO CROSS DSSRT AT OR ABOVE 3000, THEN ON TRACK 109.00 OR AS ASSIGNED BY ATC FOR VECTORS TO CROSS BSHOW AT OR ABOVE 6000, THEN ON TRACK 337.27 TO HARYS, THEN ON TRANSITION MAINTAIN FL230. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE. ALL AIRCRAFT: ATC CLIMB GRADIENT: IF UNABLE TO ACCEPT CLIMB RATE ADVISE ATC PRIOR TO TAXI. RWY 16R: ATC CLIMB RATE OF 600 FT/NM TO 3000." - RE DESIGN FOR NOISE.
4. TAKEOFF MINIMUMS: REMOVED "RWY 16L, 34L/R: N/A-ATC" - IAW 8260.19J
5. ADDITIONAL FLIGHT DATA: CHANGED "CHART: TOP ALTITUDE FL230" TO "CHART: TOP ALTITUDE: FL230" - IAW 8260.46J
6. ADDITIONAL FLIGHT DATA: ADDED "CHART: MINIMUM CROSSING ALTITUDE AT BSHOW-6000". - IAW 8260.46J
7. COMMUNICATIONS: CHANGED FROM "ATIS, CLNC DEL, GND CON, VNY TOWER, SOCAL DEP CON" TO "CHART: ATIS, CLNC DEL, GND CON, TOWER." - 8260.46J
8. REMARKS. ADDED "AFS APPROVAL LETTER FOR ATC CG TO 3000' CROSSING RESTRICTION AT DSSRT.", " 100 FT VEG USED PER FPT", "MSA CONTROLLING OBSTACLE: AAO 342012.00N/1175612.00W 8239 MSL", "MEAS BASED ON DME/DME EVALUATION", "WAIVER REQUEST TO PERMIT ESTABLISH A NON-OBSTACLE BASED CLIMB GRADIENT FOR ATC.", "589 FT/NM CG IS REQUIRED FROM THE DER TO MEET THE 3000' CROSSING RESTRICTION AT DSSRT", AND "540 FT/NM CG REQUIRED TO MEET THE LNAV ENGAGEMENT ALTITUDE PRIOR TO TURNING TO DSSRT". - CLARIFICATION FOR FUTURE SPECIALISTS.
9. ADDITIONAL FLIGHT DATA: ADDED "CHART: VNY VOR/DME 1.5 DME ARC." - IAW 8260.19J
10. REMOVED DO NOT CHART MOCAS - MEMO: AFS CLARIFICATION OF DP MOCA DOCUMENTATION FOR 8260.46
11. CONTROLLING OBSTACLES: REMOVED "RWY 16R, 2159 FT MSL AAO 340743.75N/1183045.87W". - NEW OBSTACLE EVALUATION.
12. TAKEOFF MINIMUMS: CHANGED FROM "RWY 16R: STANDARD WITH MINIMUM CLIMB OF 450 FT PER NM TO 2600." TO "RWY 16R: STANDARD WITH MINIMUM CLIMB OF 540 FT/NM TO 1302." - REQUIRED FOR LNAV ENGAGEMENT.
13. PROCEDURAL DATA NOTES: REMOVED "NOTE:" FROM "NOTE: TURBOJET AND HIGH PERFORMANCE TURBOPROP AIRCRAFT ONLY.", "NOTE: MISEN TRANSITION RESTRICTED TO AIRCRAFT LANDING LAS TERMINAL AREA.", "NOTE: DO NOTE FILE HAILO TRANSITION - TO BE ASSIGNED BY ATC.", AND "NOTE: CROSS DER/VNY VOR/DME 1.5 DME SOUTH AT OR BELOW 1750." - NOT REQUIRED.



**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
DEPARTURE (DATA RECORD)**

<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>				
HARYS	FIVE	HARYS5.HARYS	FOUR	09/10/2020	20FEB2025				
<u>FIX/NAVAID</u>	<u>LAT/LONG</u>	<u>C</u>	<u>FO/FB</u>	<u>LEG TYPE</u>	<u>TC</u>	<u>DIST (NM)</u>	<u>ALTITUDE</u>	<u>SPEED</u>	<u>REMARKS</u>
RW16R (AER)*	341253.96N/1182927.13W*	N	-	-	-	-			*DISPL THLD (1431 FT)
-	341047.41N/1182915.17W	-	-	VI	175.51	2.11			CG 540 FT/NM TO 1302
DSSRT	340920.78N/1182621.62W	Y	FO	CF	121.01	2.80	AT/ABOVE 3000		
DSSRT	340920.78N/1182621.62W	-	-	FM	121.00	-			
BSHOW	341425.74N/1182554.22W	Y	-	IF	-	-	AT/ABOVE 6000		
HARYS	342025.96N/1182716.49W	Y	FB	TF	349.27	6.10			
HARYS	342025.96N/1182716.49W	Y	-	IF	-	-			HARYS5.BLH
SLAPP	342750.14N/1181954.07W	Y	FB	TF	039.51	9.85	AT/ABOVE 13000		
YAAPY	343953.00N/1180750.00W	Y	FB	TF	039.59	15.62	AT/ABOVE 15000		
JETHK	344129.87N/1175819.35W	Y	FB	TF	078.34	8.01	AT/BELOW FL190		
AERRO	341919.37N/1170220.21W	Y	FB	TF	115.30	51.29			
DECAS	334924.93N/1152723.80W	Y	FB	TF	110.29	84.33			
BLH VORTAC	333545.83N/1144540.58W	Y	FB	TF	111.19	37.38			
HARYS	342025.96N/1182716.49W	Y	-	IF	-	-			HARYS5.HAILO
SLAPP	342750.14N/1181954.07W	Y	FB	TF	039.51	9.58	AT/ABOVE 13000		
YAAPY	343953.00N/1180750.00W	Y	FB	TF	039.59	15.62	AT/ABOVE 15000		
JETHK	344129.87N/1175819.35W	Y	FB	TF	078.34	8.01	AT/BELOW FL190		
BBITE	344216.22N/1174530.87W	Y	FB	TF	085.76	10.59	AT/ABOVE FL200		



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HARYS		FIVE		HARYS5.HARYS		FOUR		09/10/2020		20FEB2025	
<u>FIX/NAVAID</u>	<u>LAT/LONG</u>	<u>C</u>	<u>FO/FB</u>	<u>LEG TYPE</u>	<u>TC</u>	<u>DIST (NM)</u>	<u>ALTITUDE</u>	<u>SPEED</u>	<u>REMARKS</u>		
ANTLP	344251.26N/1173029.82W	Y	FB	TF	087.23	12.39					
GUNNR	345237.00N/1165913.00W	Y	FB	TF	069.13	27.54					
ARRMY	350348.00N/1164424.00W	Y	FB	TF	047.41	16.52					
HAILO	353814.00N/1155816.00W	Y	FB	TF	047.44	51.05					
HARYS	342025.96N/1182716.49W	Y	-	IF	-	-			HARYS5.HEC		
SLAPP	342750.14N/1181954.07W	Y	FB	TF	039.51	9.58	AT/ABOVE 13000				
YAAPY	343953.00N/1180750.00W	Y	FB	TF	039.59	15.62	AT/ABOVE 15000				
JETHK	344129.87N/1175819.35W	Y	FB	TF	078.34	8.01	AT/BELOW FL190				
BBITE	344216.22N/1174530.87W	Y	FB	TF	085.76	10.59	AT/ABOVE FL200				
ANTLP	344251.26N/1173029.82W	Y	FB	TF	087.23	12.39					
HEC VORTAC	344749.26N/1162746.52W	Y	FB	TF	084.22	51.92					
HARYS	342025.96N/1182716.49W	Y	-	IF	-	-			HARYS5.LAS		
SLAPP	342750.14N/1181954.07W	Y	FB	TF	039.51	9.58	AT/ABOVE 13000				
YAAPY	343953.00N/1180750.00W	Y	FB	TF	039.59	15.62	AT/ABOVE 15000				
JETHK	344129.87N/1175819.35W	Y	FB	TF	078.34	8.01	AT/BELOW FL190				
BBITE	344216.22N/1174530.87W	Y	FB	TF	085.76	10.59	AT/ABOVE FL200				
ANTLP	344251.26N/1173029.82W	Y	FB	TF	087.23	12.39					
NNAVY	345510.68N/1164340.88W	Y	FB	TF	072.08	40.46					
BLAZN	353755.21N/1154646.06W	Y	FB	TF	047.24	63.19					
LAS VORTAC	360446.93N/1150935.27W	Y	FB	TF	048.23	40.41					
HARYS	342025.96N/1182716.49W	Y	-	IF	-	-			HARYS5.MISEN		

QUALITY
8
CHECKED

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HARYS		FIVE	HARYS5.HARYS	FOUR	09/10/2020	20FEB2025			
<u>FIX/NAVAID</u>	<u>LAT/LONG</u>	<u>C</u>	<u>FO/FB</u>	<u>LEG TYPE</u>	<u>TC</u>	<u>DIST (NM)</u>	<u>ALTITUDE</u>	<u>SPEED</u>	<u>REMARKS</u>
SLAPP	342750.14N/1181954.07W	Y	FB	TF	039.51	9.58	AT/ABOVE 13000		
YAAPY	343953.00N/1180750.00W	Y	FB	TF	039.59	15.62	AT/ABOVE 15000		
JETHK	344129.87N/1175819.35W	Y	FB	TF	078.34	8.01	AT/BELOW FL190		
BBITE	344216.22N/1174530.87W	Y	FB	TF	085.76	10.59	AT/ABOVE FL200		
ANTLP	344251.26N/1173029.82W	Y	FB	TF	087.23	12.39			
NNAVY	345510.68N/1164340.88W	Y	FB	TF	072.08	40.46			
MISEN	350608.46N/1162413.86W	Y	FB	TF	055.49	19.37			

QUALITY
8
CHECKED