

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (RNP) STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.33

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated.
 Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or feet RVR.

<u>AIRPORT</u> SAN DIEGO INTL	<u>AIRPORT ID</u> KSAN	<u>PROCEDURE NAME</u> RNAV (RNP) Z RWY 27	<u>ORIGINAL/AMENDMENT</u> ORIG-A	<u>CITY</u> SAN DIEGO	<u>STATE</u> CA	
<u>AIRPORT ELEVATION</u> 17	<u>TDZE</u> 17	<u>SUPERSEDED</u> RNAV (RNP) Z RWY 27	<u>ORIGINAL/AMENDMENT</u> ORIG	<u>DATED</u> 11/10/2016	<u>MAG VAR</u> 11E	<u>EPOCH YEAR</u> 2020
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TERMINAL ROUTES

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>LEG TYPE</u>	<u>FO/FB</u>	<u>RNP</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>ALTITUDE</u>
LYNDI	IAF	VYDDA		TF	FB	1.00	239.77	3.00	4000
VYDDA	IF	OKAIN		TF	FB	1.00	275.14	2.00	3600
OKAIN		SAYAE		TF	FB	1.00	275.12	1.89	3200
KLOMN	IF	AJADE		TF	FB	1.00	095.04	4.14	5200
AJADE		CATDG		RF	FB	1.00	(2.18 NM RADIUS CW (CFSCCT))	1.46	4800
CATDG		CRSNR		RF	FB	1.00	(2.18 NM RADIUS CW (CFSCCT))	3.82	3700
CRSNR		SAYAE		RF	FB	1.00	(2.18 NM RADIUS CW (CFSCCT))	1.58	3200
SAYAE		CIJHI		TF	FB	1.00	275.10	1.61	2700
CIJHI		REEBO	PFAF	TF	FB	1.00	275.11	2.23	2000
REEBO	PFAF	RW27	MAP	TF	FO	0.30	275.05	5.17	
RW27	MAP	SARGS		TF	FO	1.00	274.97	10.99	2500

MISSED APPROACH

MAP:
RNP: DA

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2500 ON TRACK 274.97 TO SARGS AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2.	PROFILE STARTS AT SAYAE				
3. FAC:	275.05	PFAF: REEBO	DIST PFAF TO MAP:	DIST PFAF TO THLD:	
4. MIN ALT:	SAYAE 3200, CIJHI 2700, REEBO 2000				
5. DIST TO THLD FROM OM:	5.17	MM:	IM:	150 HAT:	600 HAT: 1.45
6. MIN GP INCPT:	2000	GP ALT AT PFAF : REEBO 2000		OM:	MM:
7. GP ANGLE:	3.50	34:1: IS NOT CLEAR	20:1: IS NOT CLEAR	TCH: 65.0	IM:
8. MSA FROM:	RW27 5400				

PBN REQUIREMENTS NOTE:

RNP AR APCH

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW 6°C OR ABOVE 46°C.
CHART NOTE: STRAIGHT-IN RWY 27 AT NIGHT, OPERATIONAL VGSI REQUIRED, REMAIN ON OR ABOVE VGSI GLIDEPATH UNTIL THRESHOLD.
CHART SPEED ICON IN PLANVIEW AT KLOMN: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT LYNDI: MAX 210 KIAS.
CHART PLANVIEW NOTE ADJACENT TO KLOMN (IF): RF REQUIRED.
CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE RNP 0.30 ALL CATS VISIBILITY TO 2 1/2 SM.

ADDITIONAL FLIGHT DATA:

CHART MANDATORY 6000 AT KLOMN.
CHART MINIMUM 5000 AT LYNDI.
ROUTE TYPE: A, H
ROUTE TYPE QUALIFIER 1: F
ROUTE TYPE QUALIFIER 2: S
HOLD W, RT, 095.00 INBOUND



MINIMUMS:
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ STANDARD

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
AUTHORIZATION REQUIRED															
RNP 0.11 DA	617	1 1/2	600	617	1 1/2	600	617	1 1/2	600	617	1 1/2	600			
RNP 0.30 DA	778	2	761	778	2	761	778	2	761	778	2	761			

CHANGES - REASONS

1. ADDED CHART NOTE: STRAIGHT-IN RWY 27 AT NIGHT, OPERATIONAL VGSI REQUIRED, REMAIN ON OR ABOVE VGSI GLIDEPATH UNTIL THRESHOLD - 20:1 PENETRATIONS EXIST, SEE APPROVAL LETTER REQUEST TO MITIGATE USING VGSI.

2. ADDED TO PROFILE LINE 7: 20:1: IS NOT CLEAR - 20:1 PENETRATIONS EXIST.

3. MODIFIED UNCOMPENSATED BARO-VNAV NOTE FROM "..MALS..." TO "..ALS..." - PER CURRENT CRITERIA.

4. REMOVED FAHRENHEIT TEMPERATURES FROM BARO-VNAV NOTE - PER CURRENT CRITERIA.

5. REMOVED "CHART PLANVIEW NOTE ADJACENT TO KLOMN (IF): RADAR REQUIRED" - NO LONGER REQUIRED, COMIX (RNAV) STAR PUBLISHED.

6. ADDED PBN REQUIREMENTS NOTE: RNP AR APCH - PER 8260.19H PARA 8-6-8B(1).

7. REMOVED "CHART NOTE: GPS REQUIRED" - NOTE NO LONGER REQUIRED.

8. ALTERNATE MINIMUMS CHANGED FROM "CAT A, B, C, D 800-2 1/2" TO "STANDARD" - PUBLISHED ALTERNATE MINIMUMS IN ERROR.

2/21/19: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 12/28/18.

1. ADDED 2 ADDITIONAL 20:1 OBSTACLES TO PENETRATIONS SECTION.

COORDINATED WITH:

A4A ☒ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER: ZLA, SOCAL TRACON, SAN ATCT, ST AERO, AMGR

FLIGHT CHECKED BY

PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-33) MEMO, OCTOBER 3, 2018, SUBJECT: FLIGHT INSPECTION REVIEW NOT REQUIRED

DEVELOPED BY

COLTON CROWDER

Digitally signed by COLTON CROWDER

APPROVED BY

LONNIE EVERHART

Digitally signed by MARK D ADAMS

Mar 12, 2019

OFFICE

Digitally signed by MARK D ADAMS

Mar 12, 2019

OFFICE

AJV-A412

DATE

12/28/2018

OFFICE

AJV-A41

DATE

TITLE

MANAGER



FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

<u>AIRPORT</u> SAN DIEGO INTL	<u>AIRPORT ID</u> KSAN	<u>PROCEDURE NAME</u> RNAV (RNP) Z RWY 27	<u>AMDT NO.</u> ORIG-A	<u>CITY</u> SAN DIEGO	<u>STATE</u> CA	<u>AIRPORT ELEVATION</u> 17	<u>FACILITY</u> RNAV
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PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

FROM
LYNDI

TO
VYDDA

<u>RNP</u> 1.00	<u>DISTANCE</u> 3.00	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
1.TOWER (06-038473)	324151.00N/1165605.70W	2717	500	125	5E	1000				AC125 PR110	4000
2.TERRAIN	324148.00N/1165612.00W	2540 (2500)								AS1500	4000

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE

FROM
VYDDA

TO
OKAIN

<u>RNP</u> 1.00	<u>DISTANCE</u> 2.00	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>						
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
1.TOWER (06-038473)	324151.00N/1165605.70W	2717	500	125	5E	500				AC125 PR80 AT178	3600
2.TERRAIN	324148.00N/1165612.00W	2540 (2500)								AS1000	3500

COMPUTATIONS

TF TURN FIX ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE
VYDDA-OKAIN 4000 210 229 3983 55 3.68 17.7 1.18 35.4

SEGMENT REMARKS:



INTERMEDIATE: STEPDOWN

FROM
OKAIN

TO
SAYAE

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
1.00	1.89											
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
3.AAO	324136.00N/1165657.00W		1710	100	125	3E	500				AC85 AT905	3200
4.TERRAIN	324315.00N/1165939.00W		732 (700)								AS1000	1700

<u>COMPUTATIONS</u>	<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT REMARKS:

INTERMEDIATE

FROM
KLOMN

TO
AJADE

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
1.00	4.14											
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
5.MON (KSEEL121)	324601.34N/1165900.17W		1408	100	50	3D	500				AC50 AT3242	5200
6.TERRAIN	324603.00N/1165900.00W		1221 (1200)								AS1500	2700

<u>COMPUTATIONS</u>	<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT REMARKS:



INTERMEDIATE: STEPDOWN

FROM

AJADE

TO

CATDG

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
1.00	1.46											
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
5.MON (KSEEL121)	324601.34N/1165900.17W		1408	100	50	3D	500				AT2842 AC50	4800
7.TERRAIN	324336.00N/1165936.00W		1011 (1000)								AS1500	2500

COMPUTATIONS

RF SEGMENT	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
AJADE-CATDG	5200	210	233	5183	29.1	2.18	25					(CFSCT)/1.46 NM

SEGMENT REMARKS:

INTERMEDIATE: STEPDOWN

FROM

CATDG

TO

CRSNR

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
1.00	3.82											
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
1.TOWER (06-038473)	324151.00N/1165605.70W		2717	500	125	5E	500				AC125 AT358	3700
2.TERRAIN	324148.00N/1165612.00W		2540 (2500)								AS1000	3500

COMPUTATIONS

RF SEGMENT	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
CATDG-CRSNR	4800	210	232	4783	28.2	2.18	24					(CFSCT)/3.82 NM

SEGMENT REMARKS:



INTERMEDIATE: STEPDOWN

FROM

CRSNR

TO

SAYAE

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
1.00	1.58											
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
8.AAO	324120.93N/1165641.89W		2106	50	20	2C	500				AC20 AT574	3200
9.TERRAIN	324012.00N/1165803.00W		886 (900)								AS1000	1900

COMPUTATIONS

<u>RF SEGMENT</u>	<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
CRSNR-SAYAE	3700	210	228	3683	27.2	2.18	24					(CFSCT)/1.58 NM

SEGMENT REMARKS:

INTERMEDIATE: STEPDOWN

FROM

SAYAE

TO

CIJHI

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
1.00	1.61											
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
10.AAO	324315.00N/1165939.00W		932	100	125	3E	500				AC85 AT1183	2700
4.TERRAIN	324315.00N/1165939.00W		732 (700)								AS1000	1700

COMPUTATIONS

<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT REMARKS:



INTERMEDIATE: STEPDOWN

FROM

CIJHI

TO

REEBO

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>							
1.00	2.23											
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>	
11.TOWER (06-000264)	324349.00N/1170505.00W	838	20	10	4D	500				AC50 AT612	2000	
12.TERRAIN	324133.00N/1170230.00W	591 (600)								AS1000	1600	

<u>COMPUTATIONS</u>	<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT REMARKS:

FINAL

FROM

REEBO

TO

RW27

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>							
0.11	5.17		RW27	600								
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>	
14.BLDG (06-000396)	324348.40N/1170936.47W	364	20	3	1A		16.98:1			MA63 AC3	617	

<u>COMPUTATIONS</u>	<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT REMARKS:



FINAL

FROM
REEBO

TO
RW27

RNP

0.30

DISTANCE

5.17

PAT

MAP

RW27

HAT

761

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
13.BLDG (06-001973)	324304.38N/1170928.45W	501	20	3	1A		16.95:1			AC3	778

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH

FROM
RW27

TO
SARGS

RNP

0.11-1.00

DISTANCE

PAT

MAP

HAT

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
15.FLGPL (KSANT000059)	324354.22N/1170939.36W	429	20	3	1A		ASC			AC3	2500
16.BALLOON (06-002115)	324556.00N/1171332.00W	377	500	500	5G	1000				AC500	1900
17.TERRAIN	324251.00N/1171500.00W	328 (300)								AS1500	1800

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

CIRCLING

☐ ALL CATS

☐ CAT A

☐ CAT B

☐ CAT C

☐ CAT D

☐ CAT E

☒ NOT AUTHORIZED



<u>SECTOR</u>	<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>BEARING</u>	<u>DISTANCE</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
360-360	AAO	325103.00N/1163903.00W	064	27.7	4380				1000			5400

LIGHT CREDIT GIVEN; MALS LENGTH VERIFIED IN DISPLACED THRESHOLD AREA VIA AIRPORT ALP AND VISUAL DATA.



<u>AIRPORT</u> SAN DIEGO INTL		<u>AIRPORT ID</u> KSAN	<u>PROCEDURE NAME</u> RNAV (RNP) Z RWY 27	<u>AMDT NO.</u> ORIG-A	<u>CITY</u> SAN DIEGO	<u>STATE</u> CA	<u>AIRPORT ELEVATION</u> 17	<u>FACILITY</u> RNAV
Final Type	RNP 0.11 & 0.30							
34:1								
306 BUILDING (06-027484) 324346.22N/1170936.28W (113.09)				325 TREE (06-144464) 324340.32N/1170928.37W (108.15)				
347 TREE (06-041334) 324338.48N/1170916.05W (98.89)				264 POLE (06-214383) 324347.32N/1170947.17W (98.29)				
257 POLE (06-214382) 324345.12N/1170949.09W (94.12)				260 POLE (06-214384) 324345.14N/1170947.29W (92.79)				
271 TRANSMISSION_LINE (06-174137) 324345.15N/1170942.39W (91.97)				260 POLE (06-214385) 324344.06N/1170947.15W (91.57)				
310 TREE (06-094221) 324335.41N/1170928.82W (90.21)				267 POLE (06-174107) 324345.16N/1170943.09W (89.67)				
261 POLE (06-174207) 324345.14N/1170945.48W (89.42)				301 TREE (06-144550) 324330.85N/1170932.89W (87.3)				
262 POLE (06-174136) 324345.16N/1170944.00W (86.86)				251 POLE (06-174097) 324345.13N/1170948.47W (86.64)				
251 POLE (06-174191) 324347.26N/1170946.52W (83.67)				257 POLE (06-174208) 324346.41N/1170943.88W (82.6)				
386 TREE (06-145675) 324339.87N/1170852.59W (82.37)				234 POLE (06-174171) 324345.05N/1170953.71W (82.23)				
247 BUILDING (06-021416) 324344.92N/1170948.34W (82.15)				220 POLE (06-174139) 324347.73N/1170957.02W (78.42)				
237 POLE (06-174187) 324341.91N/1170951.71W (77.82)				248 POLE (06-174213) 324341.38N/1170947.27W (77.66)				
230 POLE (06-174168) 324344.00N/1170953.70W (77.34)				228 POLE (06-214381) 324347.28N/1170953.11W (76.59)				
231 POLE (06-174179) 324343.25N/1170953.06W (76.18)				245 POLE (06-174214) 324342.48N/1170947.16W (75.3)				
218 POLE (06-174170) 324345.66N/1170957.14W (75.01)				251 POLE (06-174134) 324344.23N/1170943.87W (74.79)				
228 POLE (06-109115) 324342.54N/1170953.73W (74.22)				228 POLE (06-174167) 324342.55N/1170953.67W (74.08)				
235 POLE (06-174210) 324341.34N/1170951.16W (74.03)				216 POLE (06-174138) 324346.71N/1170957.01W (73.56)				
214 TREE (06-041153) 324347.38N/1170957.46W (73.19)				198 TREE (06-041152) 324348.51N/1171003.67W (73.12)				
226 BUILDING (06-027455) 324340.94N/1170954.49W (72.74)				227 POLE (06-174166) 324341.34N/1170953.73W (72.23)				
238 POLE (06-174209) 324341.36N/1170948.90W (71.58)				219 POLE (06-174178) 324345.09N/1170955.48W (71.53)				
224 BUILDING (06-020469) 324342.30N/1170954.25W (71.26)				228 TRANSMISSION_LINE (06-174086) 324345.11N/1170951.58W (71.13)				
213 POLE (06-174172) 324345.08N/1170957.16W (69.58)				240 POLE (06-174189) 324343.54N/1170946.50W (69.57)				
222 POLE (06-174135) 324344.42N/1170953.07W (68.16)				242 POLE (06-174100) 324341.39N/1170945.58W (67.59)				
228 POLE (06-174186) 324341.89N/1170950.87W (66.78)				221 POLE (06-174169) 324342.64N/1170953.05W (65.66)				
223 POLE (06-174095) 324341.34N/1170952.24W (64.63)				265 BUILDING (06-002277) 324340.75N/1170934.88W (64.21)				
252 TREE (06-105109) 324338.47N/1170940.53W (63)				218 TRANSMISSION_LINE (06-174159) 324338.74N/1170953.66W (60.93)				
245 BUILDING (06-003100) 324343.31N/1170940.81W (60.64)				238 POLE (06-174185) 324342.85N/1170943.86W (60.63)				
206 POLE (06-174175) 324342.46N/1170956.97W (59.98)				216 POLE (06-174131) 324339.75N/1170953.68W (59.81)				
234 POLE (06-174190) 324341.94N/1170945.17W (59.05)				206 POLE (06-174163) 324341.22N/1170956.99W (59.01)				

QUALITY
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CHECKED



<u>AIRPORT</u> SAN DIEGO INTL	<u>AIRPORT ID</u> KSAN	<u>PROCEDURE NAME</u> RNAV (RNP) Z RWY 27	<u>AMDT NO.</u> ORIG-A	<u>CITY</u> SAN DIEGO	<u>STATE</u> CA	<u>AIRPORT ELEVATION</u> 17	<u>FACILITY</u> RNAV
227 BUILDING (06-030466) 324340.52N/1170948.45W (58.82)			203 POLE (06-174173) 324343.46N/1170956.98W (57.82)				
236 POLE (06-174206) 324341.39N/1170943.97W (57.7)			229 POLE (06-174132) 324340.25N/1170947.12W (57.37)				
236 POLE (06-174133) 324341.40N/1170942.32W (53.72)			211 TRANSMISSION_LINE (06-174119) 324337.43N/1170953.64W (52.81)				
204 POLE (06-174156) 324341.88N/1170955.00W (52.74)			203 POLE (06-174165) 324341.33N/1170955.51W (52.52)				
225 POLE (06-174129) 324339.05N/1170947.12W (52.39)			374 STACK (06-027457) 324333.99N/1170846.87W (51.73)				
224 BUILDING (06-022663) 324337.36N/1170947.75W (51.53)			224 POLE (06-174192) 324340.27N/1170946.48W (50.84)				
207 POLE (06-174221) 324340.28N/1170953.01W (49.62)			229 POLE (06-174204) 324340.29N/1170943.83W (49.46)				
220 POLE (06-174130) 324339.80N/1170947.56W (49.07)			206 POLE (06-174092) 324338.73N/1170953.01W (47.35)				
180 POLE (06-174183) 324348.74N/1171000.32W (47.21)			180 TREE (06-141656) 324344.67N/1171001.59W (46.94)				
231 POLE (06-174124) 324333.88N/1170943.92W (46.42)			219 POLE (06-174212) 324337.63N/1170947.27W (45.59)				
338 TREE (06-041342) 324337.51N/1170857.76W (44.92)			225 POLE (06-174205) 324338.83N/1170943.82W (44.24)				
192 POLE (06-174162) 324340.20N/1170956.96W (44.1)			179 POLE (06-174122) 324345.61N/1171000.43W (43.91)				
220 POLE (06-174197) 324334.53N/1170947.06W (43.54)			172 POLE (06-174140) 324348.86N/1171002.05W (43.49)				
206 POLE (06-174091) 324337.57N/1170951.73W (43.31)			187 POLE (06-174164) 324341.31N/1170958.32W (43.29)				
201 POLE (06-174094) 324339.72N/1170953.02W (43.19)			176 POLE (06-174098) 324347.70N/1171000.31W (42.34)				
226 POLE (06-174123) 324335.00N/1170943.77W (41.98)			220 POLE (06-174127) 324337.65N/1170945.20W (41.61)				
177 BUILDING (06-020531) 324343.36N/1171001.03W (41.52)			223 POLE (06-174203) 324337.64N/1170943.87W (41.38)				
230 POLE (06-174125) 324333.87N/1170942.22W (41.31)			176 POLE (06-174106) 324346.14N/1171000.29W (41.01)				
215 POLE (06-174188) 324339.25N/1170946.47W (40.98)			215 POLE (06-174099) 324338.30N/1170946.45W (40.16)				
206 BUILDING (06-020626) 324335.89N/1170950.94W (40.03)			217 POLE (06-174196) 324333.69N/1170947.05W (39.83)				
227 POLE (06-174128) 324337.65N/1170941.50W (39.67)			220 POLE (06-174118) 324333.85N/1170945.61W (39.48)				
188 POLE (06-174161) 324338.88N/1170956.96W (39.02)			217 POLE (06-174089) 324334.53N/1170946.41W (38.97)				
164 POLE (06-189804) 324348.54N/1171003.56W (38.88)			176 POLE (06-174176) 324343.65N/1171000.25W (38.87)				
221 POLE (06-174121) 324336.52N/1170943.78W (38.25)			207 POLE (06-174211) 324337.61N/1170948.97W (37.68)				
174 POLE (06-174104) 324344.46N/1171000.29W (37.63)			172 POLE (06-174102) 324348.21N/1170959.67W (37.21)				
222 POLE (06-174202) 324337.64N/1170942.35W (36.71)			216 POLE (06-174093) 324336.56N/1170945.13W (36.54)				
195 POLE (06-174120) 324336.45N/1170953.65W (36.03)			214 POLE (06-174110) 324332.24N/1170947.03W (35.59)				
138 ELECTRICAL_SYSTEM (06-027454) 324347.25N/1171013.17W (35.03)			170 POLE (06-174105) 324347.23N/1170959.65W (34.36)				
214 POLE (06-174103) 324334.41N/1170945.07W (32.63)			182 POLE (06-174182) 324339.71N/1170956.31W (32.13)				
170 POLE (06-174174) 324342.29N/1171000.27W (31.81)			171 BUILDING (06-020290) 324344.70N/1170958.93W (31.55)				

QUALITY

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SLIP

<u>AIRPORT</u> SAN DIEGO INTL	<u>AIRPORT ID</u> KSAN	<u>PROCEDURE NAME</u> RNAV (RNP) Z RWY 27	<u>AMDT NO.</u> ORIG-A	<u>CITY</u> SAN DIEGO	<u>STATE</u> CA	<u>AIRPORT ELEVATION</u> 17	<u>FACILITY</u> RNAV
185 POLE (06-174126) 324337.56N/1170955.47W (31.34)			218 POLE (06-174115) 324330.12N/1170943.93W (30.36)				
215 POLE (06-174096) 324332.81N/1170943.77W (29.18)			216 POLE (06-174201) 324331.47N/1170943.77W (29.08)				
204 POLE (06-174198) 324335.94N/1170947.08W (28.74)			178 POLE (06-174160) 324337.54N/1170957.03W (28.09)				
166 POLE (06-194369) 324344.44N/1170959.63W (28.02)			150 POLE (06-194408) 324348.02N/1171005.03W (28)				
160 POLE (06-193017) 324345.60N/1171001.58W (27.68)			158 POLE (06-194379) 324345.61N/1171002.39W (27.65)				
166 POLE (06-194372) 324341.29N/1171000.35W (27.18)			147 POLE (06-194402) 324348.97N/1171005.43W (26.74)				
164 POLE (06-194381) 324343.45N/1170959.63W (25.21)			164 POLE (06-189805) 324342.66N/1170959.61W (24.52)				
204 POLE (06-174199) 324330.10N/1170947.15W (24.12)			204 POLE (06-174181) 324331.98N/1170946.40W (23.85)				
207 POLE (06-174114) 324330.10N/1170945.56W (23.28)			148 POLE (06-194380) 324345.58N/1171004.65W (23.08)				
148 POLE (06-189803) 324346.96N/1171003.55W (21.56)			214 POLE (06-174116) 324330.11N/1170941.81W (21.24)				
106 BUILDING (06-027453) 324347.33N/1171019.44W (18.24)			170 POLE (06-174220) 324337.37N/1170956.29W (18.16)				
168 POLE (06-189817) 324336.43N/1170956.93W (16.93)			198 TRANSMISSION_LINE (06-174090) 324330.79N/1170946.38W (16.83)				
146 POLE (06-194377) 324344.96N/1171002.72W (15.91)			143 POLE (06-194370) 324343.44N/1171003.69W (14.01)				
155 POLE (06-189812) 324340.18N/1170959.59W (13.43)			144 POLE (06-194376) 324342.06N/1171003.09W (12.43)				
165 POLE (06-193016) 324336.18N/1170956.26W (12.11)			154 POLE (06-189807) 324339.68N/1170959.59W (12.02)				
187 POLE (06-174117) 324330.08N/1170948.97W (11.5)			155 BUILDING (06-020134) 324339.40N/1170958.90W (11.13)				
187 BUILDING (06-001379) 324329.00N/1170949.00W (10.69)			157 POLE (06-193763) 324338.11N/1170958.25W (10.5)				
170 POLE (06-174158) 324334.93N/1170953.62W (9.71)			145 POLE (06-193750) 324341.28N/1171001.59W (9.17)				
91 TREE (06-041151) 324342.40N/1171022.28W (6.05)			141 POLE (06-193748) 324339.93N/1171002.17W (5.46)				
129 POLE (06-194378) 324344.12N/1171005.39W (4.67)			194 POLE (06-174113) 324327.98N/1170943.72W (4.1)				
146 POLE (06-189806) 324338.58N/1170959.58W (3.1)			164 POLE (06-193762) 324333.68N/1170953.63W (2.71)				
310 MONUMENT (06-037217) 324337.81N/1170850.93W (0.67)			165 POLE (06-194371) 324333.82N/1170952.18W (0.32)				

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or
5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS



ENVIRONMENTAL REVIEW: PARAGRAPH 5-6.5K



PART D: AIRSPACE

DOCKET #			
ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE			
DISTANCE FROM	THLD	TO 1000FT POINT	3.28
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	286.05
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	263
DISTANCE FROM	THLD	TO 1500FT POINT	4.63
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	286.05
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	263
THRESHOLD COORDINATES (IF STR-IN)	324352.94N/1171050.26W		
ARP COORDINATES	324400.80N/1171122.80W		
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 27 DISTANCE 0.77 NM		
FAF COORDINATES	324227.17N/1170457.05W		
FIX NAME COORDINATES			
REMARKS	NO ADDITIONAL AIRSPACE REQUIRED. THLD DISPLACED 1809.61FT, ACTUAL COORDINATES: 324348.01N/1171029.90W.		



<u>AIRPORT</u> SAN DIEGO INTL	<u>AIRPORT ID</u> KSAN	<u>PROCEDURE NAME</u> RNAV (RNP) Z RWY 27	<u>AMDT NO.</u> ORIG-A	<u>CITY</u> SAN DIEGO	<u>STATE</u> CA	<u>AIRPORT ELEVATION</u> 17	<u>FACILITY</u> RNAV
PART E: PREPARED BY							
<u>NAME</u> COLTON CROWDER			<u>OFFICE</u> AJV-A412	<u>DATE</u> 12/28/2018	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST		

QUALITY
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Electronic Version

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