

# RADIO FIX AND HOLDING DATA RECORD

NAME: AASPN

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 341605.53N/1170157.56W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE: USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	DSNEE (RNAV)			KLGB	LONG BEACH	CA (US)
STAR	ROOBY (RNAV)			KLGB	LONG BEACH	CA (US)
STAR	DSNEE (RNAV)			KSNA	SANTA ANA	CA (US)
STAR	ROOBY (RNAV)			KSNA	SANTA ANA	CA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 03/02/2017

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 08/25/2016

OFFICE: AJV-5442

NAME: PATRICK MULQUEEN (JACOB MAXFIELD)

APPROVED BY:

DATE: 12/20/2016

OFFICE: AJV-5430

NAME: LONNIE EVERHART

SIGNATURE:

DISTRIBUTION:

NFDC

FPO: WST

ARTCC: ZLA

ATC FACILITY: SOCAL

OTHER:

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** BRCKK

**STATE:** CA

**COUNTRY:** US

**ICAO REGION CODE:** K2

**LATITUDE/LONGITUDE:** 335520.87N/1163240.97W

**TYPE:** WP

**AIRSPACE DOCKET:**
**FIX TYPE OF ACTION:** ESTABLISH

**FIX USE:**  
**USE TYPE**

STAR	DSNEE (RNAV)
STAR	ROOBY (RNAV)
STAR	DSNEE (RNAV)
STAR	ROOBY (RNAV)

**FAC**   **PAT**

<b>AIRPORT IDENT</b>	<b>CITY</b>
KLGB	LONG BEACH
KLGB	LONG BEACH
KSNA	SANTA ANA
KSNA	SANTA ANA

**STATE**

CA (US)
CA (US)
CA (US)
CA (US)

**REQUIRED CHARTING:** STAR

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** ORIG

**DATE OF REVISION:** 03/02/2017

**INITIATED BY:**
**DATE:**
**ORGANIZATION:**
**NAME:**
**DEVELOPED BY:**
**DATE:** 08/26/2016

**OFFICE:** AJV-5442

**NAME:** PATRICK MULQUEEN (JACOB MAXFIELD)

**APPROVED BY:**
**DATE:** 12/20/2016

**OFFICE:** AJV-5430

**NAME:** LONNIE EVERHART

**SIGNATURE:**
**DISTRIBUTION:**

**NFDC**  
**FPO:** WST  
**ARTCC:** ZLA  
**ATC FACILITY:** SOCAL APP CON, LAX ATCT  
**OTHER:**

## RADIO FIX AND HOLDING DATA RECORD

NAME: CARZZ

STATE: CA

**COUNTRY:** US

ICAO REGION CODE: K2

**LATITUDE/LONGITUDE:** 342012.15N/1165713.91W

**TYPE:** WP

## AIRSPACE DOCKET:

**FIX TYPE OF ACTION: ESTABLISH**

**FIX USE:  
USE TYPE**

**USE TITLE**  
DSNEE (RNAV)  
ROOBY (RNAV)  
DSNEE (RNAV)  
ROOBY (RNAV)

**FAC PAT**

AIRPORT IDENT	CITY
KLGB	LONG BEACH
KLGB	LONG BEACH
KSNA	SANTA ANA
KSNA	SANTA ANA

STATE  
CA (US)  
CA (US)  
CA (US)  
CA (US)

**REQUIRED CHARTING: STAR**

**COMPULSORY REPORTING POINT: NO**

RECORD REVISION NUMBER: ORIG

**DATE OF REVISION:** 03/02/2017

**INITIATED BY:**

DATE:

**ORGANIZATION:**

NAME:

**DEVELOPED BY:**

**DATE:** 08/26/2016

OFFICE: AJV-5442

**NAME:** PATRICK MULQUEEN (JACOB MAXFIELD)

**APPROVED BY:**

**DATE:** 12/20/2016

**OFFICE:** AJV-5430

NAME: LONNIE EVERHART

**SIGNATURE:**

**DISTRIBUTION:**

**NFDC**  
**FPO:** WST  
**ARTCC:** ZLA  
**ATC FACILITY:** SOCAL APP CON, LAX ATCT  
**OTHER:**

# RADIO FIX AND HOLDING DATA RECORD

NAME: CHURO

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 335656.38N/1161949.39W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
USE TYPE						
STAR	DSNEE (RNAV)			KLGB	LONG BEACH	CA (US)
STAR	ROOBY (RNAV)			KLGB	LONG BEACH	CA (US)
STAR	DSNEE (RNAV)			KSNA	SANTA ANA	CA (US)
STAR	ROOBY (RNAV)			KSNA	SANTA ANA	CA (US)

REQUIRED CHARTING: STAR, CONTROLLER, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 02/01/2018

REASON FOR REVISION:

NAME CHANGED FROM YELLA TO CHURO

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 09/22/2017

OFFICE: AJV-5442

NAME: JEFF ANDERSON

APPROVED BY:

DATE:

OFFICE: AJV-5440

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

NFDC

FPO: WST

ARTCC: ZLA

ATC FACILITY: SOCAL APP CON

OTHER:

# RADIO FIX AND HOLDING DATA RECORD

NAME: DRTHI

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 335753.23N/1161210.83W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE: USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	DSNEE (RNAV)			KLGB	LONG BEACH	CA (US)
STAR	ROOBY (RNAV)			KLGB	LONG BEACH	CA (US)
STAR	DSNEE (RNAV)			KSNA	SANTA ANA	CA (US)
STAR	ROOBY (RNAV)			KSNA	SANTA ANA	CA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 03/02/2017

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 09/19/2016

OFFICE: AJV-5442

NAME: PATRICK MULQUEEN (JACOB MAXFIELD)

APPROVED BY:

DATE: 12/20/2016

OFFICE: AJV-5430

NAME: LONNIE EVERHART

SIGNATURE:

DISTRIBUTION:

NFDC

FPO: WST

ARTCC: ZLA

ATC FACILITY: SOCAL APP CON

OTHER:

# RADIO FIX AND HOLDING DATA RECORD

NAME: DSNEE

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 334905.48N/1172650.06W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
USE TYPE						
IAP	RNAV (RNP) Z RWY 20R			KSNA	SANTA ANA	CA (US)
STAR	DSNEE (RNAV)			KLGB	LONG BEACH	CA (US)
STAR	DSNEE (RNAV)			KSNA	SANTA ANA	CA (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 03/02/2017

REASON FOR REVISION:  
 FIX USE: ADDED DSNEE (RNAV) STAR.  
 REQUIRED CHARTING: ADDED STAR.

INITIATED BY:	DATE:	ORGANIZATION:	NAME:
DEVELOPED BY:	DATE: 09/21/2016	OFFICE: AJV-5442	NAME: PATRICK MULQUEEN (JACOB MAXFIELD)
APPROVED BY:	DATE: 12/20/2016	OFFICE: AJV-5430	NAME: LONNIE EVERHART
SIGNATURE:			

DISTRIBUTION: NFDC  
 FPO: WST  
 ARTCC: ZLA  
 ATC FACILITY: SNA ATCT, SOCAL APP CON  
 OTHER:

# RADIO FIX AND HOLDING DATA RECORD

NAME: DUUNN

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 343014.36N/1164535.29W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE: USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	DSNEE (RNAV)			KLGB	LONG BEACH	CA (US)
STAR	ROOBY (RNAV)			KLGB	LONG BEACH	CA (US)
STAR	DSNEE (RNAV)			KSNA	SANTA ANA	CA (US)
STAR	ROOBY (RNAV)			KSNA	SANTA ANA	CA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 03/02/2017

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 09/19/2016

OFFICE: AJV-5442

NAME: PATRICK MULQUEEN (JACOB MAXFIELD)

APPROVED BY:

DATE: 12/20/2016

OFFICE: AJV-5430

NAME: LONNIE EVERHART

SIGNATURE:

DISTRIBUTION:

NFDC

FPO: WST

ARTCC: ZLA

ATC FACILITY: SOCAL APP CON

OTHER:

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** NEEDLES VORTAC

**STATE:** AZ

**COUNTRY:** US

**ICAO REGION CODE:** K2

**LATITUDE/LONGITUDE:** 344557.62N/1142826.78W

**TYPE:**

**AIRSPACE DOCKET:**

**FIX TYPE OF ACTION:** NO CHANGE

**FIX MAKE-UP FACILITIES:**

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	FEET	MRA	MAA
1	NEEDLES	EED	VORTAC	H							45000

**HOLDING:**

**HOLDING TYPE OF ACTION:** MODIFY

**PATTERNS:**

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	DME	HOLDING ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	E	EED	VORTAC	076.78	256.78	R	1		6000	14000	5	10
2	NW	EED	VORTAC	318.89	138.89	R	1		4900	6000	5	5
3	SE	EED	VORTAC	154.59	334.59	R	1		6000	14000	5	10
4	E		WP	076.78	256.78	R		5	6000	14000	6	11
5	NW		WP	333.92	153.92	R		5	5000	14000	6	11
6	NW	EED	VORTAC	318.89	138.89	R	1		4000	6000	4	5

**CONTROLLING OBSTRUCTIONS:**

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	344839.00N/1141718.00W	2238	4E
1	310	AAO	345245.00N/1141311.90W	3830	4E
2	200	AAO	344127.00N/1143127.00W	2369	4E
2	310	AAO	350057.00N/1144457.00W	3688	4E
3	200	AAO	344103.00N/1143200.00W	2710	4E
4	200	AAO	345224.00N/1141724.00W	3478	4E
5	200	AAO	344103.00N/1143230.00W	2874	4E
5	310	AAO	345854.00N/1142430.00W	3370	4E
6	200	AAO	344145.00N/1143106.00W	2241	4E

**PRECIPITOUS TERRAIN ADDITIONS:**

PAT	SPEED	ADDITION
1	310	168
2	310	150
5	310	220
6	200	100

**HOLDING RESTRICTIONS:**

HOLDING LIMITED TO ESTABLISHED PATTERNS.  
PRIOR COORDINATION REQUIRED WITH ZLA FOR HOLDING OVER TURTLE MOA.

**PROCEDURES REQUIRING CLIMB-IN-HOLD:**

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	TEXTUAL DEPARTURE	KHII	LAKE HAVASU CITY	AZ (US)
2	VOR-A	KHII	LAKE HAVASU CITY	AZ (US)
2	TEXTUAL DEPARTURE	KEED	NEEDLES	CA (US)
5	RNAV (GPS) RWY 14	KHII	LAKE HAVASU CITY	AZ (US)

**REMARKS:**

PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
PAT 4 200 AIRSPEED HOLDING OBSTACLE LOCATED 1.97NM INTO SECONDARY AREA WITH A PRIMARY EQUIVALENT OF 2490 FEET.  
PAT 6 IS A DUPLICATE OF PAT 2 BUT WITHOUT THE CLIMB-IN-HOLD, ALLOWING HOLDING AT 4000 AS CURRENTLY PUBLISHED ON THE KHII VOR-A.  
EED VORTAC MAG VAR: 1965/E15.

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	TEXTUAL DEPARTURE			KIFP	BULLHEAD CITY	AZ (US)
DP	TEXTUAL DEPARTURE		1	KHII	LAKE HAVASU CITY	AZ (US)
DP	CHILY			KPHX	PHOENIX	AZ (US)
DP	JONHH			KSDL	SCOTTSDALE	AZ (US)
DP	TEXTUAL DEPARTURE		2	KEED	NEEDLES	CA (US)
EN ROUTE	J236					(US)
EN ROUTE	J6					(US)
EN ROUTE	J8					(US)
EN ROUTE	V12					(US)
EN ROUTE	V135					(US)
EN ROUTE	V208					(US)
EN ROUTE	V237					(US)
IAP	RNAV (GPS) RWY 16			KIFP	BULLHEAD CITY	AZ (US)
IAP	RNAV (GPS) RWY 34			KIFP	BULLHEAD CITY	AZ (US)
IAP	VOR RWY 34		3	KIFP	BULLHEAD CITY	AZ (US)
IAP	RNAV (GPS) RWY 14		5	KHII	LAKE HAVASU CITY	AZ (US)
IAP	VOR-A		2, 6	KHII	LAKE HAVASU CITY	AZ (US)
IAP	RNAV (GPS) RWY 29		4	KEED	NEEDLES	CA (US)
IAP	VOR-A		1	KEED	NEEDLES	CA (US)



STAR	JANNY (RNAV)	KBUR	BURBANK	CA (US)
STAR	GUERA (RNAV)	KCMA	CAMARILLO	CA (US)
STAR	DSNEE (RNAV)	KLGB	LONG BEACH	CA (US)
STAR	ROOBY (RNAV)	KLGB	LONG BEACH	CA (US)
STAR	BOGET (RNAV)	KLAX	LOS ANGELES	CA (US)
STAR	GUERA (RNAV)	KNTD	OXNARD	CA (US)
STAR	GUERA (RNAV)	KOXR	OXNARD	CA (US)
STAR	CLOWD	KPSP	PALM SPRINGS	CA (US)
STAR	SBONO	KPSP	PALM SPRINGS	CA (US)
STAR	BARET	KNZY	SAN DIEGO	CA (US)
STAR	BARET	KSAN	SAN DIEGO	CA (US)
STAR	DSNEE (RNAV)	KSNA	SANTA ANA	CA (US)
STAR	ROOBY (RNAV)	KSNA	SANTA ANA	CA (US)
STAR	BOGET (RNAV)	KSMO	SANTA MONICA	CA (US)
STAR	JANNY (RNAV)	KVNY	VAN NUYS	CA (US)
STAR	RNDRZ (RNAV)	KLAS	LAS VEGAS	NV (US)

**REQUIRED CHARTING:** DP, STAR, MILITARY STAR, IAP, EN ROUTE LOW, EN ROUTE HIGH, CONTROLLER LOW, CONTROLLER HIGH

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 19

**DATE OF REVISION:** 02/25/2021

**REASON FOR REVISION:**

PAT 5, CORRECTED MINIMUM HOLDING ALTITUDE FROM 6000 TO 5000 - TO MATCH WHAT IS PUBLISHED FOR THE HOLD-IN-LIEU ON THE KHII RNAV (GPS) RWY 14.

ADDED PAT 6.

ADDED RNDRZ (RNAV) STAR TO FIX USE.

REMOVED PALLY (RNAV) DEPARTURE FROM FIX USE.

FIX USE, CHANGED KHII VOR/DME-A TO VOR-A - PROCEDURE RENAMED.

**INITIATED BY:**

**DATE:**

**ORGANIZATION:**

**NAME:**

**OFFICE OF PRIMARY RESPONSIBILITY:**

AJV-A442

**NAME:** DAN POWELL

**APPROVED BY:**

**DATE:**

**OFFICE:** AJV-A440

**NAME:** PATRICK MULQUEEN

**SIGNATURE:**

**DISTRIBUTION:**

**NFDC**

**FPO:** WST

**ARTCC:** ZLA

**ATC FACILITY:** PSP

**OTHER:**

# RADIO FIX AND HOLDING DATA RECORD

NAME: EMLLD

STATE: AZ

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 334528.80N/1140846.00W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE: USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	DSNEE (RNAV)			KLGB	LONG BEACH	CA (US)
STAR	ROOBY (RNAV)			KLGB	LONG BEACH	CA (US)
STAR	DSNEE (RNAV)			KSNA	SANTA ANA	CA (US)
STAR	ROOBY (RNAV)			KSNA	SANTA ANA	CA (US)

REQUIRED CHARTING: STAR, CONTROLLER, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 03/02/2017

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 09/19/2016

OFFICE: AJV-5442

NAME: PATRICK MULQUEEN (JACOB MAXFIELD)

APPROVED BY:

DATE: 12/20/2016

OFFICE: AJV-5430

NAME: LONNIE EVERHART

SIGNATURE:

DISTRIBUTION:

NFDC

FPO: WST

ARTCC: ZLA

ATC FACILITY: SOCAL APP CON

OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: EROCK STATE: CA COUNTRY: US ICAO REGION CODE: K2  
LATITUDE/LONGITUDE: 335948.10N/1171145.83W TYPE: WP  
AIRSPACE DOCKET: FIX TYPE OF ACTION: ESTABLISH  
FIX USE: USE TYPE USE TITLE FAC PAT AIRPORT IDENT CITY STATE  
STAR DSNEE (RNAV) KLGB LONG BEACH CA (US)  
STAR DSNEE (RNAV) KSNA SANTA ANA CA (US)

REQUIRED CHARTING: STAR  
COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG DATE OF REVISION: 03/02/2017

INITIATED BY: DATE: ORGANIZATION: NAME:  
DEVELOPED BY: DATE: 09/19/2016 OFFICE: AJV-5442 NAME: PATRICK MULQUEEN (JACOB MAXFIELD)  
APPROVED BY: DATE: 12/20/2016 OFFICE: AJV-5430 NAME: LONNIE EVERHART  
SIGNATURE:

DISTRIBUTION: NFDC  
FPO: WST  
ARTCC: ZLA  
ATC FACILITY: SOCAL APP CON  
OTHER:

# RADIO FIX AND HOLDING DATA RECORD

NAME: FEYLA

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 351336.52N/1155404.77W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:						
USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	DSNEE (RNAV)			KLGB	LONG BEACH	CA (US)
STAR	ROOBY (RNAV)			KLGB	LONG BEACH	CA (US)
STAR	JCKIE (RNAV)			KONT	ONTARIO	CA (US)
STAR	DSNEE (RNAV)			KSNA	SANTA ANA	CA (US)
STAR	ROOBY (RNAV)			KSNA	SANTA ANA	CA (US)

REQUIRED CHARTING: STAR, EN ROUTE HIGH, CONTROLLER HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 12/05/2019

REASON FOR REVISION:

FIX USE: DELETED KONT EAGLZ STAR.

ADDED CONTROLLER HIGH TO CHARTING.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A442

NAME: JOSEPH ZEDER

APPROVED BY:

DATE: 10/11/2019

OFFICE: AJV-A440

NAME: PATRICK MULQUEEN

SIGNATURE:

DISTRIBUTION:

NFDC

FPO: WST

ARTCC: ZLA

ATC FACILITY: SOCAL APP CON

OTHER:

# RADIO FIX AND HOLDING DATA RECORD

NAME: FJAYY

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 350140.02N/1154611.86W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:						
USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	DSNEE (RNAV)			KLGB	LONG BEACH	CA (US)
STAR	ROOBY (RNAV)			KLGB	LONG BEACH	CA (US)
STAR	JCKIE (RNAV)			KONT	ONTARIO	CA (US)
STAR	DSNEE (RNAV)			KSNA	SANTA ANA	CA (US)
STAR	ROOBY (RNAV)			KSNA	SANTA ANA	CA (US)

REQUIRED CHARTING: STAR, EN ROUTE HIGH, CONTROLLER HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 12/05/2019

REASON FOR REVISION:

FIX USE: DELETED KONT EAGLZ STAR.

CHARTING: ADDED CONTROLLER HIGH

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A442

NAME: JOSEPH ZEDER

APPROVED BY:

DATE: 10/11/2019

OFFICE: AJV-A440

NAME: PATRICK MULQUEEN

SIGNATURE:

DISTRIBUTION:

NFDC

FPO: WST

ARTCC: ZLA

ATC FACILITY: SOCAL APP CON

OTHER:

# RADIO FIX AND HOLDING DATA RECORD

NAME: FOVOL

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 340312.00N/1153437.00W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
USE TYPE						
STAR	DSNEE (RNAV)			KLGB	LONG BEACH	CA (US)
STAR	ROOBY (RNAV)			KLGB	LONG BEACH	CA (US)
STAR	DSNEE (RNAV)			KSNA	SANTA ANA	CA (US)
STAR	ROOBY (RNAV)			KSNA	SANTA ANA	CA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 02/01/2018

REASON FOR REVISION:

REMOVED "STAR KEFFR (RNAV) AT KLGB AND KSNA" FROM FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 10/02/2017

OFFICE: AJV-5433

NAME: DAVID TEFFETELLER (KWEKU DONKOR)

APPROVED BY:

DATE:

OFFICE: AJV-5430

NAME: PATRICK MULQUEEN

SIGNATURE:

DISTRIBUTION:

NFDC

FPO: WST

ARTCC: ZLA

ATC FACILITY: SOCAL APP CON

OTHER: SNA ATCT

# RADIO FIX AND HOLDING DATA RECORD

NAME: GITRR

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 344135.50N/1163429.32W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE: USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	DSNEE (RNAV)			KLGB	LONG BEACH	CA (US)
STAR	ROOBY (RNAV)			KLGB	LONG BEACH	CA (US)
STAR	DSNEE (RNAV)			KSNA	SANTA ANA	CA (US)
STAR	ROOBY (RNAV)			KSNA	SANTA ANA	CA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 03/02/2017

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 09/19/2016

OFFICE: AJV-5442

NAME: PATRICK MULQUEEN (JACOB MAXFIELD)

APPROVED BY:

DATE: 12/20/2016

OFFICE: AJV-5430

NAME: LONNIE EVERHART

SIGNATURE:

DISTRIBUTION:

NFDC

FPO: WST

ARTCC: ZLA

ATC FACILITY: SOCAL APP CON

OTHER:

# RADIO FIX AND HOLDING DATA RECORD

NAME: HIMDU

STATE: AZ

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 342406.00N/1140051.00W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

ROUTE STRUCTURE FOR HAR, PITCH AND/OR CATCH POINT.

COORDINATES PROVIDED BY ATC.

FIX USE:						
USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	DSNEE (RNAV)			KLGB	LONG BEACH	CA (US)
STAR	ROOBY (RNAV)			KLGB	LONG BEACH	CA (US)
STAR	DSNEE (RNAV)			KSNA	SANTA ANA	CA (US)
STAR	ROOBY (RNAV)			KSNA	SANTA ANA	CA (US)

REQUIRED CHARTING: STAR, CONTROLLER, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 02/01/2018

REASON FOR REVISION:

REMOVED "STAR KEFFR (RNAV) AT KLGB AND KSNA" FROM FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 10/02/2017

OFFICE: AJV-5433

NAME: DAVID TEFFETELLER (KWEKU DONKOR)

APPROVED BY:

DATE:

OFFICE: AJV-5430

NAME: PATRICK MULQUEEN

SIGNATURE:

DISTRIBUTION:

NFDC

FPO: WST

ARTCC: ZLA

ATC FACILITY: SOCAL APP CON

OTHER: SNA ATCT



RADIO FIX AND HOLDING DATA RECORD

NAME: KADYN STATE: CA COUNTRY: US ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 341018.69N/1170608.00W TYPE: WP

AIRSPACE DOCKET: FIX TYPE OF ACTION: ESTABLISH

FIX USE: USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	DSNEE (RNAV)			KLGB	LONG BEACH	CA (US)
STAR	ROOBY (RNAV)			KLGB	LONG BEACH	CA (US)
STAR	DSNEE (RNAV)			KSNA	SANTA ANA	CA (US)
STAR	ROOBY (RNAV)			KSNA	SANTA ANA	CA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG DATE OF REVISION: 03/02/2017

INITIATED BY:	DATE:	ORGANIZATION:	NAME:
DEVELOPED BY:	DATE: 09/19/2016	OFFICE: AJV-5442	NAME: PATRICK MULQUEEN (JACOB MAXFIELD)
APPROVED BY:	DATE: 12/20/2016	OFFICE: AJV-5430	NAME: LONNIE EVERHART

SIGNATURE:

DISTRIBUTION: NFDC  
FPO: WST  
ARTCC: ZLA  
ATC FACILITY: SOCAL APP CON  
OTHER:

# RADIO FIX AND HOLDING DATA RECORD

NAME: LITNG

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 335045.32N/1145443.84W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME DME	HOLDING MIN	ALTITUDES MAX	TEMPLATES MIN	MAX
1	E		WP	084.04	264.04	L	10	17000	45000	18	31

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	280	AAO	335003.00N/1150218.00W	4003	4E

REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST

HOLDING RESTRICTIONS:

HOLDING RESTRICTED TO ESTABLISHED PATTERN

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	THRNE (RNAV)		1	KBUR	BURBANK	CA (US)
STAR	DSNEE (RNAV)		1	KLGB	LONG BEACH	CA (US)
STAR	ROOBY (RNAV)		1	KLGB	LONG BEACH	CA (US)
STAR	SCBBY (RNAV)		1	KONT	ONTARIO	CA (US)
STAR	DSNEE (RNAV)		1	KSNA	SANTA ANA	CA (US)
STAR	ROOBY (RNAV)		1	KSNA	SANTA ANA	CA (US)
STAR	THRNE (RNAV)		1	KSMO	SANTA MONICA	CA (US)
STAR	THRNE (RNAV)		1	KVNY	VAN NUYS	CA (US)

REQUIRED CHARTING: STAR, CONTROLLER, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 04/27/2017

REASON FOR REVISION:

FIX USE: ADDED THRNE (RNAV) STAR AND SCBBY (RNAV) STAR.

INITIATED BY:	DATE:	ORGANIZATION:	NAME:
DEVELOPED BY:	DATE: 12/05/2016	OFFICE: AJV-5442	NAME: JON DENTON (JACOB MAXFIELD)
APPROVED BY:	DATE:	OFFICE: AJV-5430	NAME: PATRICK MULQUEEN

SIGNATURE:

DISTRIBUTION:

NFDC  
FPO: WST  
ARTCC: ZLA  
ATC FACILITY: SOCAL APP CON  
OTHER:

# RADIO FIX AND HOLDING DATA RECORD

NAME: LRSON

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 345259.88N/1161958.65W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:						
USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	DSNEE (RNAV)			KLGB	LONG BEACH	CA (US)
STAR	ROOBY (RNAV)			KLGB	LONG BEACH	CA (US)
STAR	JCKIE (RNAV)			KONT	ONTARIO	CA (US)
STAR	DSNEE (RNAV)			KSNA	SANTA ANA	CA (US)
STAR	ROOBY (RNAV)			KSNA	SANTA ANA	CA (US)

REQUIRED CHARTING: STAR, EN ROUTE HIGH, CONTROLLER HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 12/05/2019

REASON FOR REVISION:

FIX USE: DELETED KONT EAGLZ STAR.

CHARTING: ADDED CONTROLLER HIGH.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A442

NAME: JOSEPH ZEDER

APPROVED BY:

DATE: 10/11/2019

OFFICE: AJV-A440

NAME: PATRICK MULQUEEN

SIGNATURE:

DISTRIBUTION:

NFDC

FPO: WST

ARTCC: ZLA

ATC FACILITY: SOCAL APP CON

OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: LUQAS STATE: CA COUNTRY: US ICAO REGION CODE: K2  
LATITUDE/LONGITUDE: 335604.25N/1171658.39W TYPE: WP

AIRSPACE DOCKET: FIX TYPE OF ACTION: ESTABLISH

FIX USE:	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
USE TYPE						
STAR	DSNEE (RNAV)			KLGB	LONG BEACH	CA (US)
STAR	DSNEE (RNAV)			KSNA	SANTA ANA	CA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG DATE OF REVISION: 03/02/2017

INITIATED BY:	DATE:	ORGANIZATION:	NAME:
DEVELOPED BY:	DATE: 09/20/2016	OFFICE: AJV-5442	NAME: PATRICK MULQUEEN (JACOB MAXFIELD)
APPROVED BY:	DATE: 12/20/2016	OFFICE: AJV-5430	NAME: LONNIE EVERHART
SIGNATURE:			

DISTRIBUTION: NFDC  
FPO: WST  
ARTCC: ZLA  
ATC FACILITY: SOCAL APP CON  
OTHER:

# RADIO FIX AND HOLDING DATA RECORD

NAME: MARUE

STATE: NV

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 351523.00N/1145255.00W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

ROUTE STRUCTURE FOR HAR, PITCH AND/OR CATCH POINT.

COORDINATES PROVIDED BY ATC.

FIX USE:	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
USE TYPE	Q78					(US)
EN ROUTE	DSNEE (RNAV)			KLGB	LONG BEACH	CA (US)
STAR	ROOBY (RNAV)			KLGB	LONG BEACH	CA (US)
STAR	JCKIE (RNAV)			KONT	ONTARIO	CA (US)
STAR	DSNEE (RNAV)			KSNA	SANTA ANA	CA (US)
STAR	ROOBY (RNAV)			KSNA	SANTA ANA	CA (US)

REQUIRED CHARTING: STAR, EN ROUTE HIGH, CONTROLLER HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7

DATE OF REVISION: 12/05/2019

REASON FOR REVISION:

FIX USE: DELETED KONT EAGLZ STAR, KSNA KEFFR STAR.

CHARTING: ADDED CONTROLLER HIGH.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A442

NAME: JOSEPH ZEDER

APPROVED BY:

DATE: 10/11/2019

OFFICE: AJV-A440

NAME: PATRICK MULQUEEN

SIGNATURE:

DISTRIBUTION:

NFDC

FPO: WST

ARTCC: ZLA

ATC FACILITY: SOCAL APP CON

OTHER:

# RADIO FIX AND HOLDING DATA RECORD

NAME: MDLER STATE: CA COUNTRY: US ICAO REGION CODE: K2  
 LATITUDE/LONGITUDE: 340949.80N/1154122.04W TYPE: WP

AIRSPACE DOCKET: FIX TYPE OF ACTION: NO CHANGE

HOLDING: HOLDING TYPE OF ACTION: NO CHANGE

PATTERNS:		IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME DME	HOLDING MIN	ALTITUDES		TEMPLATES	
PAT	DIR								MIN	MAX	MIN	MAX
1	NE		WP	038.87	218.87	R	10	17000	45000	17	30	
2	NE		WP	040.93	220.93	R	10	19000	34000	19	26	

CONTROLLING OBSTRUCTIONS:			COORDINATES	ELEVATION	ACCURACY CODE
PAT	AIRSPEED	OBSTRUCTION			
1	265	AAO	341336.00N/1154133.00W	4758	4E

HOLDING RESTRICTIONS:  
 HOLDING RESTRICTED TO ESTABLISHED PATTERNS

REMARKS:  
 PRECIPITOUS TERRAIN EVALUATION COMPLETED

FIX USE:	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	DSNEE (RNAV)		1	KLGB	LONG BEACH	CA (US)
STAR	ROOBY (RNAV)		1	KLGB	LONG BEACH	CA (US)
STAR	BRUEN (RNAV)		2	KLAX	LOS ANGELES	CA (US)
STAR	HLYWD (RNAV)		2	KLAX	LOS ANGELES	CA (US)
STAR	MDNYT (RNAV)		2	KLAX	LOS ANGELES	CA (US)
STAR	SCBBY (RNAV)		2	KONT	ONTARIO	CA (US)
STAR	DSNEE (RNAV)		1	KSNA	SANTA ANA	CA (US)
STAR	ROOBY (RNAV)		1	KSNA	SANTA ANA	CA (US)

REQUIRED CHARTING: STAR, CONTROLLER, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 DATE OF REVISION: 04/27/2017

REASON FOR REVISION:  
 ADDED SCBBY STAR FOR KONT TO FIX USE

INITIATED BY:	DATE:	ORGANIZATION:	NAME:
DEVELOPED BY:	DATE: 12/21/2016	OFFICE: AJV-5433	NAME: BEV L BORDY (NICHOLAS JACKSON)
APPROVED BY:	DATE:	OFFICE: AJV-5430	NAME: PATRICK MULQUEEN

SIGNATURE:

DISTRIBUTION: NFDC  
 FPO: WST  
 ARTCC: ZLA  
 ATC FACILITY: SOCAL APP CON  
 OTHER:

# RADIO FIX AND HOLDING DATA RECORD

NAME: NATEE

STATE: NV

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 353714.00N/1152226.00W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

ROUTE STRUCTURE FOR HAR, PITCH AND/OR CATCH POINT.

COORDINATES PROVIDED BY ATC.

FIX USE:						
USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	Q114					(US)
EN ROUTE	Q74					(US)
STAR	DSNEE (RNAV)			KLGB	LONG BEACH	CA (US)
STAR	ROOBY (RNAV)			KLGB	LONG BEACH	CA (US)
STAR	JCKIE (RNAV)			KONT	ONTARIO	CA (US)
STAR	DSNEE (RNAV)			KSNA	SANTA ANA	CA (US)
STAR	ROOBY (RNAV)			KSNA	SANTA ANA	CA (US)

REQUIRED CHARTING: STAR, EN ROUTE HIGH, CONTROLLER HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 8

DATE OF REVISION: 12/05/2019

REASON FOR REVISION:

FIX USE: DELETED KONT EAGLZ STAR, KSNA KEFFR STAR

CHARTING: ADDED CONTROLLER HIGH.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A442

NAME: JOSEPH ZEDER

APPROVED BY:

DATE: 10/11/2019

OFFICE: AJV-A440

NAME: PATRICK MULQUEEN

SIGNATURE:

DISTRIBUTION:

NFDC

FPO: WST

ARTCC: ZLA

ATC FACILITY: SOCAL APP CON

OTHER:

# RADIO FIX AND HOLDING DATA RECORD

NAME: ONLYY

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 342725.33N/1145722.47W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE: USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	DSNEE (RNAV)			KLGB	LONG BEACH	CA (US)
STAR	ROOBY (RNAV)			KLGB	LONG BEACH	CA (US)
STAR	DSNEE (RNAV)			KSNA	SANTA ANA	CA (US)
STAR	ROOBY (RNAV)			KSNA	SANTA ANA	CA (US)

REQUIRED CHARTING: STAR, CONTROLLER, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 03/02/2017

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 09/20/2016

OFFICE: AJV-5442

NAME: PATRICK MULQUEEN (JACOB MAXFIELD)

APPROVED BY:

DATE: 12/20/2016

OFFICE: AJV-5430

NAME: LONNIE EVERHART

SIGNATURE:

DISTRIBUTION:

NFDC

FPO: WST

ARTCC: ZLA

ATC FACILITY: SOCAL APP CON

OTHER:



RADIO FIX AND HOLDING DATA RECORD

NAME: PHIYA STATE: CA COUNTRY: US ICAO REGION CODE: K2  
LATITUDE/LONGITUDE: 335213.73N/1165853.48W TYPE: WP

AIRSPACE DOCKET: FIX TYPE OF ACTION: ESTABLISH

FIX USE: USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	DSNEE (RNAV)			KLGB	LONG BEACH	CA (US)
STAR	ROOBY (RNAV)			KLGB	LONG BEACH	CA (US)
STAR	DSNEE (RNAV)			KSNA	SANTA ANA	CA (US)
STAR	ROOBY (RNAV)			KSNA	SANTA ANA	CA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG DATE OF REVISION: 03/02/2017

INITIATED BY:	DATE:	ORGANIZATION:	NAME:
DEVELOPED BY:	DATE: 09/19/2016	OFFICE: AJV-5442	NAME: PATRICK MULQUEEN (JACOB MAXFIELD)
APPROVED BY:	DATE: 12/20/2016	OFFICE: AJV-5430	NAME: LONNIE EVERHART

SIGNATURE:

DISTRIBUTION: NFDC  
FPO: WST  
ARTCC: ZLA  
ATC FACILITY: SOCAL APP CON  
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: ROADE STATE: CA COUNTRY: US ICAO REGION CODE: K2  
LATITUDE/LONGITUDE: 335342.15N/1164525.03W TYPE: WP

AIRSPACE DOCKET: FIX TYPE OF ACTION: ESTABLISH

FIX USE: USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	DSNEE (RNAV)			KLGB	LONG BEACH	CA (US)
STAR	ROOBY (RNAV)			KLGB	LONG BEACH	CA (US)
STAR	DSNEE (RNAV)			KSNA	SANTA ANA	CA (US)
STAR	ROOBY (RNAV)			KSNA	SANTA ANA	CA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG DATE OF REVISION: 03/02/2017

INITIATED BY:	DATE:	ORGANIZATION:	NAME:
DEVELOPED BY:	DATE: 09/20/2016	OFFICE: AJV-5442	NAME: PATRICK MULQUEEN (JACOB MAXFIELD)
APPROVED BY:	DATE: 12/20/2016	OFFICE: AJV-5430	NAME: LONNIE EVERHART

SIGNATURE:

DISTRIBUTION: NFDC  
FPO: WST  
ARTCC: ZLA  
ATC FACILITY: SOCAL APP CON  
OTHER:

# RADIO FIX AND HOLDING DATA RECORD

NAME: SCROW STATE: CA COUNTRY: US ICAO REGION CODE: K2  
 LATITUDE/LONGITUDE: 350811.11N/1152101.56W TYPE: WP

AIRSPACE DOCKET: FIX TYPE OF ACTION: NO CHANGE

HOLDING: HOLDING TYPE OF ACTION: NO CHANGE

## PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME DME	HOLDING MIN	ALTITUDES MIN MAX	TEMPLATES MIN MAX
1	NE		WP	058.81	238.81	L	10	17000	45000	18 31

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	280	AAO	351545.00N/1151845.00W	7901	4E

## REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST

## HOLDING RESTRICTIONS:

HOLDING RESTRICTED TO ESTABLISHED PATTERN

## REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	DSNEE (RNAV)		1	KLGB	LONG BEACH	CA (US)
STAR	ROOBY (RNAV)		1	KLGB	LONG BEACH	CA (US)
STAR	JCKIE (RNAV)		1	KONT	ONTARIO	CA (US)
STAR	DSNEE (RNAV)		1	KSNA	SANTA ANA	CA (US)
STAR	ROOBY (RNAV)		1	KSNA	SANTA ANA	CA (US)

REQUIRED CHARTING: STAR, EN ROUTE HIGH, CONTROLLER HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 12/05/2019

## REASON FOR REVISION:

FIX USE: DELETED KONT EAGLZ STAR.  
 CHARTING: ADDED ENROUTE HIGH, CONTROLLER HIGH.

INITIATED BY: DATE: ORGANIZATION: NAME:

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A442 NAME: JOSEPH ZEDER

APPROVED BY: DATE: 10/11/2019 OFFICE: AJV-A440 NAME: PATRICK MULQUEEN

SIGNATURE:

## DISTRIBUTION:

NFDC  
 FPO: WST  
 ARTCC: ZLA  
 ATC FACILITY: SOCAL APP CON  
 OTHER:

## RADIO FIX AND HOLDING DATA RECORD

NAME: SEAL BEACH VORTAC

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 334659.88N/1180317.13W

TYPE:

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

## FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	FEET	MRA	MAA
1	SEAL BEACH	SLI	VORTAC	L							17500

HOLDING:

HOLDING TYPE OF ACTION: MODIFY

## PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	DME	HOLDING ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	NE	SLI	VORTAC	058.00	238.00	L	1		2600	17500	4	16
2	SE	SLI	VORTAC	120.00	300.00	L	1		1500	17500	4	16
3	S	SLI	VORTAC	171.00	351.00	L	1		1800	17500	4	16
4	NE		WP	058.00	238.00	L		4	2600	12000	5	10
5	SE		WP	122.00	302.00	L		4	2600	14000	5	11
6	SE		WP	120.00	300.00	L		4	4000	14000	5	11
7	SE	SLI	VORTAC	123.35	303.35	L		4	1400	1400	4	4

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	BLDG (06-000442)	334652.00N/1175336.00W	475	1D
2	200	TOWER (06-002478)	334725.60N/1180855.10W	337	2C
3	200	TOWER (06-002478)	334725.60N/1180855.10W	337	2C
3	310	TOWER (06-020156)	335246.80N/1180049.66W	750	4D
4	200	BLDG (06-000442)	334652.00N/1175336.00W	475	1D
5	200	AAO	334745.00N/1180924.00E	437	4E
6	200	AAO	334745.00N/1180924.00E	437	4E
7	175	TOWER (06-002478)	334725.60N/1180855.10W	337	2C

## REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST  
 PAT 2 ATC REQUEST  
 PAT 3 ATC REQUEST  
 PAT 4 ATC REQUEST  
 PAT 5 ATC REQUEST  
 PAT 6 ATC REQUEST  
 PAT 7 ATC REQUESTED

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

## PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
3	TAKEOFF MINIMUMS	KFUL	FULLERTON	CA (US)
3	TAKEOFF MINIMUMS	KSNA	SANTA ANA	CA (US)

## REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
 ASSIGNED FACILITY MAG VAR: 15E (1975).

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	ELMOO			KBUR	BURBANK	CA (US)
DP	CWARD (RNAV)			KCRQ	CARLSBAD	CA (US)
DP	ANAHEIM			KFUL	FULLERTON	CA (US)
DP	TAKEOFF MINIMUMS		3	KFUL	FULLERTON	CA (US)
DP	ANAHEIM			KLGB	LONG BEACH	CA (US)
DP	TAKEOFF MINIMUMS			KLGB	LONG BEACH	CA (US)
DP	TAKEOFF MINIMUMS			KSLL	LOS ALAMITOS	CA (US)
DP	CATALINA			KLAX	LOS ANGELES	CA (US)
DP	LAXX			KLAX	LOS ANGELES	CA (US)
DP	SEAL BEACH			KLAX	LOS ANGELES	CA (US)
DP	SEBBY			KLAX	LOS ANGELES	CA (US)
DP	TAKEOFF MINIMUMS			KLAX	LOS ANGELES	CA (US)
DP	NIKKL			KONT	ONTARIO	CA (US)
DP	DOYLE			KNTD	POINT MUGU	CA (US)
DP	CWARD (RNAV)			KRNM	RAMONA	CA (US)
DP	CWARD (RNAV)			KMYF	SAN DIEGO	CA (US)
DP	CWARD (RNAV)			KSAN	SAN DIEGO	CA (US)
DP	ECHHO (RNAV)			KSAN	SAN DIEGO	CA (US)
DP	FALCC			KSAN	SAN DIEGO	CA (US)
DP	PEBLE			KSAN	SAN DIEGO	CA (US)
DP	CWARD (RNAV)			KSDM	SAN DIEGO	CA (US)
DP	CWARD (RNAV)			KSEE	SAN DIEGO/EL CAJON	CA (US)
DP	ANAHEIM			KSNA	SANTA ANA	CA (US)

DP	CHANNEL		KSNA	SANTA ANA	CA (US)
DP	IRVINE		KSNA	SANTA ANA	CA (US)
DP	MUSEL		KSNA	SANTA ANA	CA (US)
DP	TAKEOFF MINIMUMS	3	KSNA	SANTA ANA	CA (US)
DP	ADAMM		KVNY	VAN NUYS	CA (US)
EN ROUTE	J134				(US)
EN ROUTE	J169				(US)
EN ROUTE	J78				(US)
EN ROUTE	T245				(US)
EN ROUTE	T247				(US)
EN ROUTE	T249				(US)
EN ROUTE	V165				(US)
EN ROUTE	V21				(US)
EN ROUTE	V23				(US)
EN ROUTE	V283				(US)
EN ROUTE	V372				(US)
EN ROUTE	V394				(US)
EN ROUTE	V459				(US)
EN ROUTE	V597				(US)
EN ROUTE	V64				(US)
EN ROUTE	V8				(US)
IAP	VOR-A		KEMT	EL MONTE	CA (US)
IAP	LOC/DME RWY 24	2	KFUL	FULLERTON	CA (US)
IAP	RNAV (GPS) RWY 24	4	KFUL	FULLERTON	CA (US)
IAP	VOR-A	1	KFUL	FULLERTON	CA (US)
IAP	LOC RWY 25		KHHR	HAWTHORNE	CA (US)
IAP	RNAV (GPS) RWY 25		KHHR	HAWTHORNE	CA (US)
IAP	VOR RWY 25		KHHR	HAWTHORNE	CA (US)
IAP	ILS RWY 26L		KPOC	LA VERNE	CA (US)
IAP	LOC RWY 26L		KPOC	LA VERNE	CA (US)
IAP	VOR OR GPS-A		KPOC	LA VERNE	CA (US)
IAP	ARSENAL VISUAL RWY 30		KLGB	LONG BEACH	CA (US)
IAP	ILS OR LOC RWY 30		KLGB	LONG BEACH	CA (US)
IAP	VOR OR TACAN RWY 30	2	KLGB	LONG BEACH	CA (US)
IAP	VOR OR TACAN RWY 22L		KSLL	LOS ALAMITOS	CA (US)
IAP	ILS OR LOC RWY 25L		KLAX	LOS ANGELES	CA (US)
IAP	ILS OR LOC RWY 25R		KLAX	LOS ANGELES	CA (US)
IAP	ILS OR LOC RWY 6L		KLAX	LOS ANGELES	CA (US)
IAP	ILS OR LOC RWY 6R		KLAX	LOS ANGELES	CA (US)
IAP	ILS OR LOC RWY 7L		KLAX	LOS ANGELES	CA (US)
IAP	ILS OR LOC RWY 7R		KLAX	LOS ANGELES	CA (US)
IAP	ILS RWY 25L (CAT II & III)		KLAX	LOS ANGELES	CA (US)
IAP	ILS OR LOC RWY 9		KRAL	RIVERSIDE	CA (US)
IAP	ILS OR LOC RWY 20R	2	KSNA	SANTA ANA	CA (US)
IAP	ILS RWY 20R (SA CAT I)	2	KSNA	SANTA ANA	CA (US)
IAP	LDA/DME RWY 20R	2	KSNA	SANTA ANA	CA (US)
IAP	LOC BC RWY 2L	2	KSNA	SANTA ANA	CA (US)
IAP	RNAV (GPS) Y RWY 2L	5	KSNA	SANTA ANA	CA (US)
IAP	RNAV (RNP) Z RWY 2L	5	KSNA	SANTA ANA	CA (US)
IAP	ILS OR LOC RWY 29R		KTOA	TORRANCE	CA (US)
IAP	RNAV (GPS) RWY 29R		KTOA	TORRANCE	CA (US)
IAP	VOR RWY 11L		KTOA	TORRANCE	CA (US)
SPECIAL DP	SUXYO (RNAV)		KFUL	FULLERTON	CA (US)
SPECIAL DP	KUTEY (RNAV)		K50CA	LONG BEACH	CA (US)
SPECIAL DP	AZPAD (RNAV)		K14CA	NEWPORT BEACH	CA (US)
SPECIAL IAP	COPTER RNAV (GPS) 16		K3CN4	ANAHEIM	CA (US)
SPECIAL IAP	COPTER RNAV (GPS) 25		K50CA	LONG BEACH	CA (US)
SPECIAL IAP	COPTER RNAV (GPS) 17		K14CA	NEWPORT BEACH	CA (US)
SPECIAL IAP	COPTER RNAV (GPS) 19		K4CA5	ORANGE	CA (US)
STAR	FERNANDO		KBUR	BURBANK	CA (US)
STAR	KAYOH		KFUL	FULLERTON	CA (US)
STAR	BAUBB (RNAV)	6	KLGB	LONG BEACH	CA (US)
STAR	DSNEE (RNAV)	6	KLGB	LONG BEACH	CA (US)
STAR	KAYOH		KLGB	LONG BEACH	CA (US)
STAR	PCIFC (RNAV)	6	KLGB	LONG BEACH	CA (US)
STAR	ROOBY (RNAV)	6	KLGB	LONG BEACH	CA (US)
STAR	TANDY		KLGB	LONG BEACH	CA (US)
STAR	KAYOH		KSLL	LOS ALAMITOS	CA (US)
STAR	BASET		KLAX	LOS ANGELES	CA (US)
STAR	DIRBY (RNAV)		KLAX	LOS ANGELES	CA (US)
STAR	GOATZ (RNAV)		KLAX	LOS ANGELES	CA (US)
STAR	KIMMO		KLAX	LOS ANGELES	CA (US)
STAR	LEENA		KLAX	LOS ANGELES	CA (US)
STAR	OCEAN		KLAX	LOS ANGELES	CA (US)
STAR	OLAAA (RNAV)		KLAX	LOS ANGELES	CA (US)
STAR	VISTA		KLAX	LOS ANGELES	CA (US)
STAR	DSNEE (RNAV)	6	KSNA	SANTA ANA	CA (US)
STAR	KAYOH		KSNA	SANTA ANA	CA (US)
STAR	ROOBY (RNAV)	6	KSNA	SANTA ANA	CA (US)
STAR	TANDY		KSNA	SANTA ANA	CA (US)
STAR	FERNANDO		KSMO	SANTA MONICA	CA (US)
STAR	KIMMO		KSMO	SANTA MONICA	CA (US)
STAR	KAYOH		KTOA	TORRANCE	CA (US)
STAR	FERNANDO		KVNY	VAN NUYS	CA (US)

**REQUIRED CHARTING:** DP, STAR, MILITARY IAP, MILITARY DP, IAP, EN ROUTE LOW, EN ROUTE HIGH, SPECIAL IAP, SPECIAL DP, CONTROLLER LOW, CONTROLLER HIGH

**COMPULSORY REPORTING POINT: NO****RECORD REVISION NUMBER: 33****DATE OF REVISION: 07/16/2020****REASON FOR REVISION:**

HOLDING: CHANGED PATS 1, 2 AND 3 LEG LENGTH TIME FROM 1 - 1 1/2 TO 1. REMOVED UPN CONTROLLING OBSTRUCTION AND HOLDING RESTRICTION REMARK.

FIX USE: REMOVED KLAX OSHNN (RNAV) DP, KSAN TKAYY (RNAV) DP, KEMT ALL 3 IAPS, AND KSLI RADAR 2 AND RADAR 3 IAPS. ADDED KEMT VOR-A. CHANGED KSNA TANDY FROM IAP TO STAR.

REQUIRED CHARTING: ADDED MILITARY DP (FOR KNTD DOYLE DP).

**INITIATED BY:****DATE:****ORGANIZATION:****NAME:****OFFICE OF PRIMARY RESPONSIBILITY:**

AJV-A423

**NAME:** BARRY SMITH**APPROVED BY:****DATE:****OFFICE:** AJV-A420**NAME:** MARLON ROBINSON**SIGNATURE:****DISTRIBUTION:****NFDC****FPO:** WST**ARTCC:** ZLA**ATC FACILITY:** SOCAL APP CON**OTHER:** USAASA

RADIO FIX AND HOLDING DATA RECORD

NAME: THERS STATE: CA COUNTRY: US ICAO REGION CODE: K2  
LATITUDE/LONGITUDE: 341135.14N/1145717.65W TYPE: WP  
AIRSPACE DOCKET: FIX TYPE OF ACTION: ESTABLISH

FIX USE: USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	DSNEE (RNAV)			KLGB	LONG BEACH	CA (US)
STAR	ROOBY (RNAV)			KLGB	LONG BEACH	CA (US)
STAR	DSNEE (RNAV)			KSNA	SANTA ANA	CA (US)
STAR	ROOBY (RNAV)			KSNA	SANTA ANA	CA (US)

REQUIRED CHARTING: STAR, CONTROLLER, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG DATE OF REVISION: 03/02/2017

INITIATED BY:	DATE:	ORGANIZATION:	NAME:
DEVELOPED BY:	DATE: 09/21/2016	OFFICE: AJV-5442	NAME: PATRICK MULQUEEN (JACOB MAXFIELD)
APPROVED BY:	DATE: 12/20/2016	OFFICE: AJV-5430	NAME: LONNIE EVERHART

SIGNATURE:

DISTRIBUTION: NFDC  
FPO: WST  
ARTCC: ZLA  
ATC FACILITY: SOCAL APP CON  
OTHER:

# RADIO FIX AND HOLDING DATA RECORD

NAME: WEELL

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 342014.60N/1141829.50W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE: USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	DSNEE (RNAV)			KLGB	LONG BEACH	CA (US)
STAR	ROOBY (RNAV)			KLGB	LONG BEACH	CA (US)
STAR	DSNEE (RNAV)			KSNA	SANTA ANA	CA (US)
STAR	ROOBY (RNAV)			KSNA	SANTA ANA	CA (US)

REQUIRED CHARTING: STAR, CONTROLLER, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 03/02/2017

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 09/21/2016

OFFICE: AJV-5442

NAME: PATRICK MULQUEEN (JACOB MAXFIELD)

APPROVED BY:

DATE: 12/20/2016

OFFICE: AJV-5430

NAME: LONNIE EVERHART

SIGNATURE:

DISTRIBUTION:

NFDC

FPO: WST

ARTCC: ZLA

ATC FACILITY: SOCAL APP CON

OTHER:



RADIO FIX AND HOLDING DATA RECORD

NAME: WTTCH STATE: CA COUNTRY: US ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 335533.39N/1153848.40W TYPE: WP

AIRSPACE DOCKET: FIX TYPE OF ACTION: ESTABLISH

FIX USE: USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	DSNEE (RNAV)			KLGB	LONG BEACH	CA (US)
STAR	ROOBY (RNAV)			KLGB	LONG BEACH	CA (US)
STAR	DSNEE (RNAV)			KSNA	SANTA ANA	CA (US)
STAR	ROOBY (RNAV)			KSNA	SANTA ANA	CA (US)

REQUIRED CHARTING: STAR, CONTROLLER, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG DATE OF REVISION: 03/02/2017

INITIATED BY:	DATE:	ORGANIZATION:	NAME:
DEVELOPED BY:	DATE: 09/21/2016	OFFICE: AJV-5442	NAME: PATRICK MULQUEEN (JACOB MAXFIELD)
APPROVED BY:	DATE: 12/20/2016	OFFICE: AJV-5430	NAME: LONNIE EVERHART

SIGNATURE:

DISTRIBUTION: NFDC  
FPO: WST  
ARTCC: ZLA  
ATC FACILITY: SOCAL APP CON  
OTHER:

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** WURMO

**STATE:** CA

**COUNTRY:** US

**ICAO REGION CODE:** K2

**LATITUDE/LONGITUDE:** 341513.00N/1144126.00W

**TYPE:** WP

**AIRSPACE DOCKET:**
**FIX TYPE OF ACTION:** NO CHANGE

**HOLDING:**
**HOLDING TYPE OF ACTION:** NO CHANGE

**REMARKS:**

STAND ALONE FIX ON KSNA PIGGN (RNAV) SID.

**FIX USE:**
**USE TYPE**
**USE TITLE**
**FAC**
**PAT**
**AIRPORT IDENT**
**CITY**
**STATE**

DP	FRITR (RNAV)			KLGB	LONG BEACH	CA (US)
DP	TUSTI (RNAV)			KLAX	LOS ANGELES	CA (US)
DP	RAJEE (RNAV)			KONT	ONTARIO	CA (US)
DP	PIGGN (RNAV)			KSNA	SANTA ANA	CA (US)
DP	PEVEE (RNAV)			KSMO	SANTA MONICA	CA (US)
STAR	DSNEE (RNAV)			KLGB	LONG BEACH	CA (US)
STAR	ROOBY (RNAV)			KLGB	LONG BEACH	CA (US)
STAR	DSNEE (RNAV)			KSNA	SANTA ANA	CA (US)
STAR	ROOBY (RNAV)			KSNA	SANTA ANA	CA (US)

**REQUIRED CHARTING:** DP, STAR

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 2

**DATE OF REVISION:** 02/01/2018

**REASON FOR REVISION:**

REMOVED "STAR KEFFR (RNAV) AT KLGB AND KSNA" FROM FIX USE.

**INITIATED BY:**
**DATE:**
**ORGANIZATION:**
**NAME:**
**DEVELOPED BY:**
**DATE:** 10/02/2017

**OFFICE:** AJV-5433

**NAME:** DAVID TEFFETELLER (KWEKU DONKOR)

**APPROVED BY:**
**DATE:**
**OFFICE:** AJV-5430

**NAME:** PATRICK MULQUEEN

**SIGNATURE:**
**DISTRIBUTION:**
**NFDC**
**FPO:** WST

**ARTCC:** ZLA

**ATC FACILITY:** SOCAL APP CON

**OTHER:** SNA ATCT