

RADIO FIX AND HOLDING DATA RECORD

NAME: DUCKE

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 375351.65N/1200603.73W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
STAR
STAR

USE TITLE
SHARR (RNAV)
SHARR (RNAV)

FAC PAT

AIRPORT IDENT
KHWD
KOAK

CITY
HAYWARD
OAKLAND

STATE
CA (US)
CA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7

DATE OF REVISION: 06/22/2017

REASON FOR REVISION:

CHANGED FIX TYPE FROM INT AND DME TO WP.

REMOVED ALL FACILITIES FROM FIX MAKE-UP.

REMOVED FIX RESTRICTION.

CHARTING: ADDED STAR; REMOVED CONTROLLER, EN ROUTE LOW, EN ROUTE HIGH.

REMOVED ALL EN ROUTE FIX USE.

ADDED SHARR STAR IN FIX USE AT KOAK AND KHWD.

DEVELOPED BY:

DATE: 02/09/2017

OFFICE: AJV-5422

NAME: DAVID DOWLING

APPROVED BY:

DATE:

OFFICE: AJV-5420

NAME: JULIE MORGAN

SIGNATURE:

DISTRIBUTION:

NFDC

FPO: WST

ARTCC: ZOA

ATC FACILITY: NORCAL APP CON

OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: TIOGA

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 375558.62N/1192540.87W

TYPE: INT, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM NM	FAC FEET	MRA	MAA
1	COALDALE	OAL	VORTAC	H	250.44	267.44	78.76	78.76		18000	45000
2	MUSTANG	FMG	VORTAC	H	157.55	173.55		96.40		18000	45000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

COALDALE (FAC 1) AND MUSTANG (FAC 2) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	J5	1, 2				(US)

REQUIRED CHARTING: CONTROLLER, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 06/22/2017

REASON FOR REVISION:

FAC 1: ADD DIST FROM FAC 78.76

FAC 2: ADD DIST FROM FAC 96.40

REMARKS: ADD FACILITIES USED TO ESTABLISH FIX COORDINATES

FIX USE: REMOVED J58-80 AND WAGER STAR.

REQUIRED CHARTING: REMOVED STAR.

DEVELOPED BY:

DATE: 02/10/2017

OFFICE: AJV-5423

NAME: THOMAS KIRKPATRICK

APPROVED BY:

DATE:

OFFICE: AJV-5420

NAME: JULIE MORGAN

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: WST
ARTCC: ZOA
ATC FACILITY:
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: OAKLAND VOR/DME

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 374333.32N/1221324.91W

TYPE:

Coordination has been completed with Liam Donahue OAK VOR/DME 8260-2 when he get them back from QC.

AIRSPACE DOCKET: 16-AWP-01

FIX TYPE OF ACTION:

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MA	FROM FAC	MRA	MAA
						NM	FEET	
1	OAKLAND	OAK	VOR/DME	H	BR			45000

HOLDING:

HOLDING TYPE OF ACTION:

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS	TURN	LEG LENGTH	HOLDING	ALTITUDES	TEMPLATES
					INBOUND	(L OR R)	TIME	DME	MIN	MAX
1	NW	OAK	VOR/DME	300.00	120.00	R	1		2000	4000
2	NW		WP	302.00	122.00	R		4	2000	4000
3	SW		WP	243.00	063.00	R		4	3000	5000
4	SW	OAK	VOR/DME	240.01	060.01	R	1		3000	5000

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	200	AAO	374857.00N/1220348.00W	2225	4E
1	200	AAO	374906.00N/1221036.00W	1821	4E
2	200	AAO	374906.00N/1221036.00W	1821	4E
3	200	AAO	374041.52N/1222520.98W	1399	2C
4	200	T-L TWR (06-000098)	374030.38N/1222427.51W	1123	1A

HOLDING RESTRICTIONS:

UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 5000
PRIOR COORDINATION REQUIRED WITH ZOA WHEN HOLDING ABOVE FL370 DUE TO W513 AND W285 A & B
HOLDING LIMITED TO ESTABLISHED PATTERNS

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
(PAT 1 AND 2) CONTROLLING OBSTACLE LOCATED 11586.67 FT. INTO SECONDARY.
PAT 2 MAG COURSE BASED ON KHWL 15E MAGVAR.
PAT 3 MAG COURSE BASED ON KSFO 14E MAGVAR.
ASSIGNED FACILITY MAGVAR: 17 DEGREES EAST.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BUCHANAN			KCCR	CONCORD	CA (US)
DP	KANAN			KCCR	CONCORD	CA (US)
DP	BYRON			KLVK	LIVERMORE	CA (US)
DP	LIVERMORE			KLVK	LIVERMORE	CA (US)
DP	TAKEOFF MINIMUMS			KLVK	LIVERMORE	CA (US)
DP	SOUTHLAND			KNUQ	MOUNTAIN VIEW	CA (US)
DP	LIZRD			KAPC	NAPA	CA (US)
DP	MERLOT			KAPC	NAPA	CA (US)
DP	COAST			KOAK	OAKLAND	CA (US)
DP	NUEVO			KOAK	OAKLAND	CA (US)
DP	OAKLAND			KOAK	OAKLAND	CA (US)
DP	SALAD			KOAK	OAKLAND	CA (US)
DP	SILENT			KOAK	OAKLAND	CA (US)
DP	SKYLINE			KOAK	OAKLAND	CA (US)
DP	GAP			KSFO	SAN FRANCISCO	CA (US)
DP	OFFSHORE			KSFO	SAN FRANCISCO	CA (US)
DP	SAN FRANCISCO			KSFO	SAN FRANCISCO	CA (US)
DP	SAN JOSE			KSJC	SAN JOSE	CA (US)
DP	SUNOL			KSJC	SAN JOSE	CA (US)
DP	TAKE OFF MINIMUMS			KSJC	SAN JOSE	CA (US)
DP	CHARLIE			KSTS	SANTA ROSA	CA (US)
EN ROUTE	J1					(US)
EN ROUTE	J110					(US)
EN ROUTE	J3					(US)
EN ROUTE	J32					(US)
EN ROUTE	J58					(US)
EN ROUTE	J80					(US)
EN ROUTE	J84					(US)
EN ROUTE	J94					(US)
EN ROUTE	T298					(US)
EN ROUTE	V107					(US)
EN ROUTE	V109					(US)
EN ROUTE	V195					(US)
EN ROUTE	V244					(US)
EN ROUTE	V28					(US)
EN ROUTE	V301					(US)
EN ROUTE	V392					(US)
EN ROUTE	V6					(US)
IAP	VOR RWY 19R			KCCR	CONCORD	CA (US)

IAP	HI-LOC/DME RWY 11L		KFAT	FRESNO	CA (US)
IAP	LOC/DME RWY 28L	1	KHWD	HAYWARD	CA (US)
IAP	RNAV (GPS) RWY 28L	2	KHWD	HAYWARD	CA (US)
IAP	VOR/DME-A	1	KHWD	HAYWARD	CA (US)
IAP	ILS OR LOC RWY 12		KOAK	OAKLAND	CA (US)
IAP	ILS OR LOC RWY 30(ALT MA)	1	KOAK	OAKLAND	CA (US)
IAP	ILS OR LOC/DME RWY 28R		KOAK	OAKLAND	CA (US)
IAP	ILS RWY 12 (SA CAT I)		KOAK	OAKLAND	CA (US)
IAP	ILS RWY 30 (CAT II - III)(ALT MA)	1	KOAK	OAKLAND	CA (US)
IAP	ILS RWY 30 (SA CAT I)(ALT MA)	1	KOAK	OAKLAND	CA (US)
IAP	VOR RWY 10R		KOAK	OAKLAND	CA (US)
IAP	ILS OR LOC RWY 19L		KSFO	SAN FRANCISCO	CA (US)
IAP	ILS OR LOC RWY 28L		KSFO	SAN FRANCISCO	CA (US)
IAP	ILS OR LOC RWY 28R		KSFO	SAN FRANCISCO	CA (US)
IAP	ILS OR LOC RWY 28R (CAT II/III)		KSFO	SAN FRANCISCO	CA (US)
IAP	ILS OR LOC RWY 28R (SA CAT I)		KSFO	SAN FRANCISCO	CA (US)
IAP	ILS PRM RWY 28L		KSFO	SAN FRANCISCO	CA (US)
IAP	ILS RWY 28L (SA CAT II)		KSFO	SAN FRANCISCO	CA (US)
IAP	LDA PRM RWY 28R (SIM CLOSE PAR)	4	KSFO	SAN FRANCISCO	CA (US)
IAP	LDA/DME RWY 28R	4	KSFO	SAN FRANCISCO	CA (US)
IAP	QUIET BRIDGE VISUAL RWYS 28L/R		KSFO	SAN FRANCISCO	CA (US)
IAP	RNAV (GPS) PRM X RWY 28R	3	KSFO	SAN FRANCISCO	CA (US)
IAP	RNAV (GPS) X RWY 28R	3	KSFO	SAN FRANCISCO	CA (US)
IAP	TIPP TOE VISUAL RWY 28L		KSFO	SAN FRANCISCO	CA (US)
IAP	ILS OR LOC/DME RWY 30L (ALT MA)		KSJC	SAN JOSE	CA (US)
IAP	ILS RWY 30L (SA CAT I) (ALT MA)		KSJC	SAN JOSE	CA (US)
STAR	MADWIN	1	KHWD	HAYWARD	CA (US)
STAR	PANOCH		KHWD	HAYWARD	CA (US)
STAR	MADWIN	1	KOAK	OAKLAND	CA (US)
STAR	MANTECA		KOAK	OAKLAND	CA (US)
STAR	PANOCH		KOAK	OAKLAND	CA (US)
STAR	BIG SUR		KSFO	SAN FRANCISCO	CA (US)
STAR	MODESTO		KSFO	SAN FRANCISCO	CA (US)
STAR	POINT REYES		KSFO	SAN FRANCISCO	CA (US)
STAR	RISTI		KSFO	SAN FRANCISCO	CA (US)
STAR	JAWWS		KSJC	SAN JOSE	CA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 27

DATE OF REVISION:

REASON FOR REVISION:

1. ADDED AIRSPACE DOCKET: 16-AWP-01
2. ADDED REMARK: ASSIGNED FACILITY MAGVAR: 17 DEGREES EAST.
3. UPDATED FIX USE: ADDED EN ROUTE T298 (US).
4. DELETED TAKEOFF MINIMUMS AT KHWD FROM FIX USE.
5. DELETED MARINA, SCAGGS ISLAND, SIDS AND VOR/DME RWY 28L AT KOAK FROM FIX USE.
6. DELETED HADLY STAR AND PORTE SID AT KSFO FROM FIX USE.

DEVELOPED BY: **DATE:** **OFFICE:** AJV-5422 **NAME:**

APPROVED BY: **DATE:** **OFFICE:** **NAME:**

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: WST
ARTCC: ZOA
ATC FACILITY: NORCAL/SFO
OTHER: OAK ATCT

RADIO FIX AND HOLDING DATA RECORD

NAME: JOFAY

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 375543.42N/1193045.53W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
STAR
STAR

USE TITLE
SHARR (RNAV)
SHARR (RNAV)

FAC PAT

AIRPORT IDENT
KHWD
KOAK

CITY
HAYWARD
OAKLAND

STATE
CA (US)
CA (US)

REQUIRED CHARTING: STAR, CONTROLLER

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5

DATE OF REVISION: 06/22/2017

REASON FOR REVISION:

1. FIX USE: DELETED MADWIN STAR AND ADDED SHAR (RNAV) STAR AT KOAK/KHWD; REMOVED J58, J80.
2. DELETED ECA AND MVA FROM FACILITIES.
3. REMOVED DME FROM FIX TYPE.
4. REMOVED MVA ESV.
5. REMOVED EN ROUTE HIGH CHARTING.

DEVELOPED BY:

DATE: 01/23/2017

OFFICE: AJV-5431

NAME: LIAM DONAHUE

APPROVED BY:

DATE:

OFFICE: AJV-5430

NAME: PATRICK MULQUEEN

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: WST
ARTCC: ZOA
ATC FACILITY: NORCAL APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: COALDALE VORTAC

STATE: NV COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 380011.74N/1174613.61W

AIRSPACE DOCKET: 16-AWP-01

FIX TYPE OF ACTION:

Coordination has been completed with Liam Donahue to update Coaldale VORTAC 8260-2 when he get them back from QC.

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	C	ME	DIST FROM FAC NM	FAC FEET	MRA	MAA
1	COALDALE	OAL	VORTAC	H					45000

HOLDING:

HOLDING TYPE OF ACTION:

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG TIME	LENGTH DME	HOLDING ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	SE	OAL	VORTAC	129.00	309.00	R	1-1 1/2		11000	17500	9	16
2	NE	OAL	VORTAC	067.00	247.00	R	1-1 1/2		11000	45000	9	29

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION
1	230	AAO
2	230	AAO

COORDINATES

374921.00N/1174433.00W
380130.60N/1172935.90W

ELEVATION

8065
9308

ACCURACY CODE

4E
6A

PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
1	230	281
2	230	280

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
PAT 1, 2 ATC REQUEST.
MAGVAR OAL 17E

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	COALDALE			KFAT	FRESNO	CA (US)
DP	YOSEMITE			KFAT	FRESNO	CA (US)
DP	OENNS (RNAV)			KMMH	MAMMOTH LAKES	CA (US)
DP	OZIEE (RNAV)			KAPC	NAPA	CA (US)
DP	PALLY (RNAV)			KHND	LAS VEGAS	NV (US)
DP	SHEAD (RNAV)			KLAS	LAS VEGAS	NV (US)
DP	EDETH (RNAV)			KSLC	SALT LAKE CITY	UT (US)
DP	FAIRFIELD			KSLC	SALT LAKE CITY	UT (US)
DP	PECOP (RNAV)			KSLC	SALT LAKE CITY	UT (US)
DP	SEVYR			KSLC	SALT LAKE CITY	UT (US)
DP	WEVIC (RNAV)			KSLC	SALT LAKE CITY	UT (US)
EN ROUTE	J148					(US)
EN ROUTE	J58					(US)
EN ROUTE	J80					(US)
EN ROUTE	J92					(US)
EN ROUTE	Q136					(US)
EN ROUTE	T298					(US)
EN ROUTE	V105					(US)
EN ROUTE	V244					(US)
EN ROUTE	V564					(US)
IAP	LDA/DME RWY 16			KBIH	BISHOP	CA (US)
IAP	VOR OR GPS-A			KBIH	BISHOP	CA (US)
IAP	VOR/DME OR GPS-B			KBIH	BISHOP	CA (US)
STAR	GIVEN			KFAT	FRESNO	CA (US)
STAR	MADWIN			KHWD	HAYWARD	CA (US)
STAR	MADWIN			KOAK	OAKLAND	CA (US)
STAR	MODESTO			KSFO	SAN FRANCISCO	CA (US)
STAR	EL NIDO			KSJC	SAN JOSE	CA (US)
STAR	KENNO (RNAV)			KRNO	RENO	NV (US)
STAR	RUSME (RNAV)			KRNO	RENO	NV (US)
STAR	TARVR			KRNO	RENO	NV (US)

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

COMPULSORY REPORTING POINT: BOTH

RECORD REVISION NUMBER: 22

DATE OF REVISION:

REASON FOR REVISION:

1. ADDED AIRSPACE DOCKET: 16-AWP-01.
2. UPDATED FIX USE: ADDED EN ROUTE T298 (US).

DEVELOPED BY: **DATE:** **OFFICE:** AJV-5422 **NAME:**

APPROVED BY: **DATE:** **OFFICE:** **NAME:**

SIGNATURE:

DISTRIBUTION: **NFDC**
 FPO: WST
 ARTCC: ZOA
 ATC FACILITY: NORCAL APP CON
 OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: DUGLE

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 375153.96N/1204004.40W

TYPE: V

Coordination has been completed with Liam Donahue to update DUGLE 8260-2 when he get them back from QC.

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CH

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	DIST FROM FAC NM	FAC FEET	MRA	MAA
1	MODESTO	MOD	VOR/DME	H	19.83		18000	45000
2	LINDEN	LIN	VOR/DME	H	20.30		18000	45000

HOLDING:

HOLDING TYPE OF ACTION: CANCEL

REMARKS:

MODESTO (FAC 1) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	J58	1, 2				(US)
EN ROUTE	J80	1, 2				(US)
EN ROUTE	Q134					(US)

REQUIRED CHARTING: CONTROLLER, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5

DATE OF REVISION: 06/22/2017

REASON FOR REVISION:

1. DELETED STAR MADWIN AT KOAK/KHWD FROM FIX USE.
2. DELETED STAR FROM REQUIRED CHARTING.
3. DELETED HOLDING PATTERN AND RESTRICTIONS.
4. DELETED PRECIPITOUS TERRAIN NOTE.
5. DELETED ECA VOR/DME FROM FACILITIES.

DEVELOPED BY:

DATE: 01/23/2017

OFFICE: AJV-5431

NAME: LIAM DONAHUE

APPROVED BY:

DATE:

OFFICE: AJV-5430

NAME: PATRICK MULQUEEN

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: WST
ARTCC: ZOA
ATC FACILITY: NORCAL APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: MANTECA VOR/DME

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 375000.98N/1211016.96W

TYPE:

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG	BRG	FAC	MRA	MAA
1	MANTECA	ECA	VOR/DME	H					45000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS	TURN	LEG	LENGTH	HOLDING	ALTITUDES	TEMPLATES	
					INBOUND	(L OR R)	TIME	DME	MIN	MAX	MIN	MAX
1	SE	ECA	VOR/DME	124.40	304.40	L	1-1 1/2		1600	17500	4	16
2	SE		WP	124.40	304.40	L		4	3000	17500	5	17

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (06-002381)	374345.74N/1210740.78W	559	3C
2	200	TOWER (06-002381)	374345.74N/1210740.78W	559	3C

REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST
PAT 2 HIGH TERRAIN

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETE.
ASSIGNED FACILITY MAG VAR 17 DEGREES EAST.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	TAKEOFF MINIMUMS			KC83	BYRON	CA (US)
DP	BUCHANAN			KCCR	CONCORD	CA (US)
DP	KANAN			KCCR	CONCORD	CA (US)
DP	BYRON			KLVK	LIVERMORE	CA (US)
DP	LIVERMORE			KLVK	LIVERMORE	CA (US)
DP	NIMITZ			KOAK	OAKLAND	CA (US)
DP	SALAD			KOAK	OAKLAND	CA (US)
DP	DUDES			KSMF	SACRAMENTO	CA (US)
DP	FROGO			KSMF	SACRAMENTO	CA (US)
DP	SUNOL			KSJC	SAN JOSE	CA (US)
DP	CHARLIE			KSTS	SANTA ROSA	CA (US)
EN ROUTE	J58					(US)
EN ROUTE	J80					(US)
EN ROUTE	J94					(US)
EN ROUTE	V109					(US)
EN ROUTE	V113					(US)
EN ROUTE	V195					(US)
EN ROUTE	V244					(US)
EN ROUTE	V585					(US)
IAP	VOR RWY 19R			KCCR	CONCORD	CA (US)
IAP	ILS RWY 25R			KLVK	LIVERMORE	CA (US)
IAP	VOR-A			K103	LODI	CA (US)
IAP	RNAV (GPS) RWY 10			KO27	OAKDALE	CA (US)
IAP	RNAV (GPS) RWY 28		2	KO27	OAKDALE	CA (US)
IAP	VOR-A			KO27	OAKDALE	CA (US)
IAP	RNAV (GPS) RWY 12		2	KTCY	TRACY	CA (US)
IAP	RNAV (GPS) RWY 26		2	KTCY	TRACY	CA (US)
IAP	RNAV (GPS) RWY 30		2	KTCY	TRACY	CA (US)
IAP	VOR/DME RWY 26		1	KTCY	TRACY	CA (US)
STAR	MADWIN			KHWD	HAYWARD	CA (US)
STAR	PANOCH			KHWD	HAYWARD	CA (US)
STAR	MADWIN			KOAK	OAKLAND	CA (US)
STAR	PANOCH			KOAK	OAKLAND	CA (US)
STAR	WRAPS			KSMF	SACRAMENTO	CA (US)
STAR	MODESTO			KSFO	SAN FRANCISCO	CA (US)
STAR	RISTI			KSFO	SAN FRANCISCO	CA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 27

DATE OF REVISION: 03/02/2017

REASON FOR REVISION:

REMOVED KSCK PROCEDURES FROM FIX USE.

DEVELOPED BY:**DATE:** 09/15/2016**OFFICE:** AJV-5423**NAME:** THOMAS KIRKPATRICK**APPROVED BY:****DATE:** 12/08/2016**OFFICE:** AJV-5420**NAME:** TONY LAWSON**SIGNATURE:****DISTRIBUTION:****NFDC****FPO:** WST**ARTCC:** ZOA**ATC FACILITY:** NORCAL APP CON**OTHER:**