

INFORMATION ONLY**RADIO FIX AND HOLDING DATA RECORD**

NAME: LINDEN VOR/DME

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 380428.49N/1210013.89W

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	MRA FEET	MAA
1	LINDEN	LIN	VOR/DME	H						45000

FIX RESTRICTIONS:

MCA V28-113 4000 NORTHEAST BOUND

HOLDING:

HOLDING TYPE OF ACTION: MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG TIME	LENGTH DME	HOLDING MIN	ALTITUDES MAX	TEMPLATES MIN	MAX
1	S	LIN	VOR/DME	180.00	360.00	R	1		5000	10000	5	9
2	E	LIN	VOR/DME	104.47	284.47	L	1		2000	8000	4	8
3	E		WP	105.47	285.47	L		4	2000	8000	4	15
4	SE	LIN	VOR/DME	146.00	326.00	R	1		2900	8000	4	14

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	200	AAO	380242.00N/1204700.00W	1667	4E
1	200	AAO	380742.00N/1205706.00W	647	4E
1	230	AAO	380754.00N/1205330.00W	748	4E
2	200	AAO	380306.00N/1205957.00W	699	2C
2	230	AAO	380045.00N/1204536.00W	1703	4E
3	200	AAO	380245.00N/1205036.00W	702	4E
3	230	AAO	380045.00N/1204536.00W	1703	4E
3	310	TOWER (06-002421)	380709.66N/1204330.92W	3154	2C
4	200	AAO	380818.00N/1205706.00W	647	4E
4	310	AAO	380045.00N/1204536.00W	1703	4E

REASON FOR NONSTANDARD HOLDING:

PAT 2 ATC REQUEST

PAT 3 ATC REQUEST

HOLDING RESTRICTIONS:

UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 5000.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
3	RNAV (GPS) RWY 28	KO27	OAKDALE	CA (US)
4	TAKEOFF MINIMUMS	K103	LODI	CA (US)

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

ASSIGNED FACILITY MAG VAR 17 DEGREES EAST.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	FICHU (RNAV)			KO22	COLUMBIA	CA (US)
DP	KANAN			KCCR	CONCORD	CA (US)
DP	TAKEOFF MINIMUMS			KE45	GROVELAND	CA (US)
DP	TAKEOFF MINIMUMS			KJAQ	JACKSON	CA (US)
DP	TAKEOFF MINIMUMS		4	K103	LODI	CA (US)
DP	MERLOT			KAPC	NAPA	CA (US)
DP	TAKEOFF MINIMUMS			KO27	OAKDALE	CA (US)
DP	OAKLAND			KOAK	OAKLAND	CA (US)
DP	SILENT			KOAK	OAKLAND	CA (US)
DP	DUDES			KSMF	SACRAMENTO	CA (US)
DP	TAKEOFF MINIMUMS			KCPU	SAN ANDREAS	CA (US)
DP	SAN FRANCISCO			KSFO	SAN FRANCISCO	CA (US)
DP	SUNOL		1	KSJC	SAN JOSE	CA (US)
DP	CHARLIE			KSTS	SANTA ROSA	CA (US)
DP	RICHY			KTVL	SOUTH LAKE TAHOE	CA (US)
DP	SHOLE			KTVL	SOUTH LAKE TAHOE	CA (US)
EN ROUTE	J189					(US)
EN ROUTE	J67					(US)
EN ROUTE	J84					(US)
EN ROUTE	V108					(US)
EN ROUTE	V113					(US)
EN ROUTE	V244					(US)
EN ROUTE	V28					(US)
EN ROUTE	V338					(US)
EN ROUTE	V459					(US)

EN ROUTE	V23				CA (US)
IAP	VOR/DME RWY 1		KJAQ	JACKSON	CA (US)
IAP	RNAV (GPS) - B	3	K1O3	LODI	CA (US)
IAP	VOR-A	2	K1O3	LODI	CA (US)
IAP	ILS OR LOC/DME RWY 28R	1	KMOD	MODESTO	CA (US)
IAP	RNAV (GPS) RWY 28	3	KO27	OAKDALE	CA (US)
IAP	VOR -A		KO27	OAKDALE	CA (US)
IAP	ILS OR LOC RWY 16		KMCC	SACRAMENTO	CA (US)
IAP	VOR/DME RWY 34		KMCC	SACRAMENTO	CA (US)
IAP	ILS OR LOC/DME RWY 22L		KMHR	SACRAMENTO	CA (US)
IAP	VOR RWY 04R		KMHR	SACRAMENTO	CA (US)
IAP	GPS RWY 31		KCPU	SAN ANDREAS	CA (US)
IAP	ILS OR LOC RWY 29R (ALT MISS)	4	KSCK	STOCKTON	CA (US)
IAP	RNAV (GPS) RWY 11L		KSCK	STOCKTON	CA (US)
IAP	VOR RWY 26	2	KTCY	TRACY	CA (US)
STAR	SQUAW VALLEY		KSUU	FAIRFIELD	CA (US)
STAR	FLUNK		KSMF	SACRAMENTO	CA (US)
STAR	WRAPS		KSMF	SACRAMENTO	CA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 20

DATE OF REVISION: 06/22/2017

REASON FOR REVISION:

1. DELETED MADWIN STAR AT KOAK/KHWD FROM FIX USE.
2. ADDED THE VOR RWY 26 AT KTCY AND THE RNAV (GPS) RWY 28 AT KO27 TO FIX USE.
3. ADDED CLIMB-IN-HOLD TO HOLDING PATTERN 3.
4. ADDED V244 IN FIX USE.
5. FIX USE: ADDED SUNOL DP AT KSJC.
6. UPDATED PAT 2, 200K CONTROLLING OBSTACLE DATA; NEW MSL 699 VICE 702.

DEVELOPED BY: **DATE:** 01/18/2017 **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:

INFORMATION ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: MODESTO VOR/DME STATE: CA COUNTRY: US ICAO REGION CODE: K2
 LATITUDE/LONGITUDE: 373738.55N/1205728.32W 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	MRA FEET	MAA
1	MODESTO	MOD	VOR/DME	H						45000

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 ALTITUDES MIN MAX	TEMPLATES MIN MAX
1	E	MOD	VOR/DME	104.59	284.59	L	1-1 1/2	1800 18000	4 16
2	NE	MOD	VOR/DME	063.57	243.57	L	1 1/2	16000 18000	15 16

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (06-001588)	373446.00N/1205054.00W	540	5D
2	265	AAO	374600.00N/1203857.00W	706	4E

REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST
 PAT 2 ATC REQUEST

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			KMCE	MERCED	CA (US)
DP	SOUTHLAND			KNUQ	MOUNTAIN VIEW	CA (US)
DP	OZIEE (RNAV)			KAPC	NAPA	CA (US)
DP	TAKEOFF MINIMUMS			KTCY	TRACY	CA (US)
EN ROUTE	V113					(US)
EN ROUTE	V111					CA (US)
IAP	ILS OR LOC RWY 31		1	KMER	ATWATER	CA (US)
IAP	ILS RWY 25R			KLVK	LIVERMORE	CA (US)
IAP	LOC RWY 25R			KLVK	LIVERMORE	CA (US)
IAP	LOC BC RWY 12			KMCE	MERCED	CA (US)
IAP	RNAV (GPS) RWY 12			KMCE	MERCED	CA (US)
IAP	ILS OR LOC/DME RWY 28R		1	KMOD	MODESTO	CA (US)
IAP	VOR/DME RWY 28R		1	KMOD	MODESTO	CA (US)
IAP	RNAV (GPS) RWY 10			KO27	OAKDALE	CA (US)
IAP	RNAV (GPS) RWY 28			KO27	OAKDALE	CA (US)
IAP	VOR-A			KO27	OAKDALE	CA (US)
IAP	ILS OR LOC RWY 29R			KSCK	STOCKTON	CA (US)
IAP	RNAV (GPS) RWY 29R			KSCK	STOCKTON	CA (US)
IAP	VOR RWY 26		1	KTCY	TRACY	CA (US)
STAR	PANOCH			KHWD	HAYWARD	CA (US)
STAR	PANOCH			KOAK	OAKLAND	CA (US)
STAR	WRAPS			KSMF	SACRAMENTO	CA (US)
STAR	MODESTO		2	KSFO	SAN FRANCISCO	CA (US)
STAR	RISTI			KSFO	SAN FRANCISCO	CA (US)
STAR	CAPITOL			KSJC	SAN JOSE	CA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 21 DATE OF REVISION: 12/07/2017

REASON FOR REVISION:

UPDATED FIX USE. ADDED ILS RWY 25R, LOC RWY 25R @ KLVK.

DEVELOPED BY: DATE: 07/26/2017 OFFICE: AJV-5431 NAME: ROBERT GRIM

APPROVED BY: DATE: OFFICE: AJV-5430 NAME: PATRICK MULQUEEN

SIGNATURE:

DISTRIBUTION:

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

INFORMATION ONLY**RADIO FIX AND HOLDING DATA RECORD****NAME:** PATYY**STATE:** CA**COUNTRY:** US**ICAO REGION CODE:** K2**LATITUDE/LONGITUDE:** 372929.60N/1210259.93W**TYPE:** WP, INT, DME**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	FAC FEET	MRA	MAA
1	MODESTO	MOD	VOR/DME	H	191.39	208.39	9.25	9.25		3000	17500
2	EL NIDO	HYP	VOR/DME	L	282.88	297.88		35.10		3000	17500

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

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V111	1, 2				(US)
EN ROUTE	V113	1, 2				(US)
IAP	RNAV (GPS) RWY 14			KLSN	LOS BANOS	CA (US)
IAP	RNAV (GPS) RWY 12			KMCE	MERCED	CA (US)
IAP	RNAV (GPS) RWY 13			KMER	MERCED	CA (US)
IAP	ILS OR LOC/DME RWY 28R	1, 2		KMOD	MODESTO	CA (US)
IAP	RNAV (GPS) RWY 26			KTCY	TRACY	CA (US)
IAP	RNAV (GPS) RWY 30			KTCY	TRACY	CA (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW**COMPULSORY REPORTING POINT:** NO**RECORD REVISION NUMBER:** 11**DATE OF REVISION:** 06/22/2017**REASON FOR REVISION:**

UPDATED FIX USE -- REMOVED SOUTHLAND DP, V109, V585, KTCY NDB RWY 12; ADDED KTCY RNAV (GPS) RWY 26.

DEVELOPED BY:**DATE:** 01/31/2017**OFFICE:** AJV-5421**NAME:** JEFFREY ROBINSON**APPROVED BY:****DATE:****OFFICE:** AJV-5420**NAME:** JULIE MORGAN**SIGNATURE:****DISTRIBUTION:**NFDC
FPO: WST
ARTCC: ZOA
ATC FACILITY: NORCAL APP CON
OTHER: NASA

INFORMATION ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: PANOCHE VORTAC STATE: CA COUNTRY: US ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 364255.65N/1204643.26W 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	MRA FEET	MAA
1	PANOCHE	PXN	VORTAC	L						24000

FIX RESTRICTIONS:

MCA V113 5500 SOUTHBOUND

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 ALTITUDES MIN MAX	TEMPLATES MIN MAX
1	SW	PXN	VORTAC	229.00	049.00	R	1-1 1/2	5500 17500	5 16
2	SE		WP	154.88	334.88	R	7	6500 17500	9 17
3	SW		WP	229.00	049.00	R	5	5200 17500	6 17

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	230	AAO	362724.00N/1204915.00W	4357	4E
1	200	AAO	364110.60N/1205553.90W	3863	6A
1	310	AAO	362827.00N/1205403.00W	4223	4E
2	230	AAO	363230.00N/1204845.00W	3304	4E
2	310	AAO	362208.10N/1203830.10W	5441	6A
3	200	AAO	364110.60N/1205553.90W	3869	4E

PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
UPN	230	182
1	200	154
1	310	262
2	230	121
2	310	254
3	200	258

HOLDING RESTRICTIONS:

UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 9000.
HOLDING LIMITED TO ESTABLISHED PATTERNS BELOW 9000.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	TAKEOFF MINIMUMS	KF34	FIREBAUGH	CA (US)
2	RNAV (GPS) RWY 14	KLSN	LOS BANOS	CA (US)

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	MEADOWS			KBFL	BAKERSFIELD	CA (US)
DP	TAKEOFF MINIMUMS		1	KF34	FIREBAUGH	CA (US)
DP	YOSEMITE			KFAT	FRESNO	CA (US)
DP	MONTEREY			KMRY	MONTEREY	CA (US)
DP	TORO			KMRY	MONTEREY	CA (US)
DP	SOUTHLAND			KNUQ	MOUNTAIN VIEW	CA (US)
DP	SKYLINE			KOAK	OAKLAND	CA (US)
DP	CHALONE			KSNS	SALINAS	CA (US)
DP	SAN JOSE			KSJC	SAN JOSE	CA (US)
EN ROUTE	T263					(US)
EN ROUTE	V107					(US)
EN ROUTE	V109					(US)
EN ROUTE	V113					(US)
EN ROUTE	V230					(US)
EN ROUTE	V301					(US)
EN ROUTE	V585					(US)
EN ROUTE	V87					(US)
IAP	RNAV (GPS)-B		3	KF34	FIREBAUGH	CA (US)
IAP	VOR/DME-A		1	KF34	FIREBAUGH	CA (US)
IAP	HI-VOR/DME OR TACAN RWY 11L			KFAT	FRESNO	CA (US)
IAP	LOC RWY 11L			KFAT	FRESNO	CA (US)
IAP	TACAN RWY 14L			KNLC	LEMOORE	CA (US)
IAP	TACAN RWY 14R			KNLC	LEMOORE	CA (US)
IAP	RNAV (GPS) RWY 14		2	KLSN	LOS BANOS	CA (US)

IAP	RNAV (GPS) RWY 32	KLSN	LOS BANOS	CA (US)
IAP	VOR/DME RWY 32	KLSN	LOS BANOS	CA (US)
IAP	ILS OR LOC RWY 30	KMCE	MERCED	CA (US)
IAP	RNAV (GPS) RWY 30	KMCE	MERCED	CA (US)
IAP	VOR RWY 30	KMCE	MERCED	CA (US)
IAP	RNAV (GPS) RWY 31	KMER	MERCED	CA (US)
IAP	ILS OR LOC/DME RWY 28R	KMOD	MODESTO	CA (US)
IAP	RNAV (GPS) RWY 28R	KMOD	MODESTO	CA (US)
IAP	VOR/DME RWY 28R	KMOD	MODESTO	CA (US)
STAR	PANOCHÉ	KOAK	OAKLAND	CA (US)
STAR	EL NIDO	KSJC	SAN JOSE	CA (US)
STAR	ROBIE	KSJC	SAN JOSE	CA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 25

DATE OF REVISION: 06/22/2017

REASON FOR REVISION:

1. DELETED MADWIN STAR AT KOAK/KHWD FROM FIX USE.
2. DELETED THE VOR/DME RWY 14 AT KLSN FROM FIX USE.

DEVELOPED BY: **DATE:** 01/19/2017

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:

INFORMATION ONLY**RADIO FIX AND HOLDING DATA RECORD**

NAME: VOLTA

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 371627.21N/1205824.35W

TYPE: WP, INT, DME

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	FAC FEET	MRA	MAA
1	PANOCH	PXN	VORTAC	L	328.44	344.44	34.77	34.77		5000	17500
2	EL NIDO	HYP	VOR/DME	L	261.99	276.99		27.66		5000	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	SE	PXN	VORTAC	328.44	328.44	R	1-1 1/2	5000	17500	7	18
2	SE		WP	149.44	329.44	R	4	3000	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPD	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	200	AAO	371130.00N/1211121.00W	2244	4E
1	200	AAO	370933.00N/1210157.00W	371	4E
2	200	AAO	371036.00N/1210121.00W	355	4E

HOLDING RESTRICTIONS:UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 5000.
HOLDING LIMITED TO ESTABLISHED PATTERNS.**REMARKS:**PANOCH (FAC 1) USED TO ESTABLISH FIX COORDINATES
PRECIPITOUS TERRAIN EVALUATION COMPLETED.**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V113	1, 2				(US)
IAP	RNAV (GPS) RWY 32		2	KLSN	LOS BANOS	CA (US)
IAP	VOR/DME RWY 32	1, 2	1	KLSN	LOS BANOS	CA (US)
IAP	RNAV (GPS) RWY 30		2	KMCE	MERCED	CA (US)
IAP	VOR RWY 30	1, 2		KMCE	MERCED	CA (US)
IAP	RNAV (GPS) RWY 13			KMER	MERCED	CA (US)
IAP	RNAV (GPS) RWY 31			KMER	MERCED	CA (US)
IAP	RNAV (GPS) RWY 28R			KMOD	MODESTO	CA (US)

REQUIRED CHARTING: MILITARY IAP, IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 20

DATE OF REVISION: 06/22/2017

REASON FOR REVISION:

HOLDING PAT 1 CONTROLLING OBS: CHANGED FROM 361 AAO TO 371 AAO AND COORDINATES FROM 371027.00N/1210142.00 TO 370933.00N/1210157.00W.

FIX USE: REMOVED V109, V585 AND KLSN VOR/DME RWY 14.

FIX USE: KMCE VOR RWY 30-ADDED FAC 2.

DEVELOPED BY:

DATE: 03/20/2017

OFFICE: AJV-5422

NAME: RALPH DUMAR

APPROVED BY:

DATE:

OFFICE: AJV-5420

NAME: JULIE MORGAN

SIGNATURE:

DISTRIBUTION:

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