

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** CLOVIS VORTAC

**STATE:** CA

**COUNTRY:** US

**ICAO REGION CODE:** K2

**LATITUDE/LONGITUDE:** 365303.56N/1194854.52W

**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	MAA
1	CLOVIS	CZQ	VORTAC	H						45000

**FIX RESTRICTIONS:**

MCA V230 4000 NORTHEAST BOUND  
MCA V165 4000 NORTHBOUND

**HOLDING:**

**HOLDING TYPE OF ACTION:** NO CHANGE

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	MEADOWS			KBFL	BAKERSFIELD	CA (US)
DP	OAKLAND			KOAK	OAKLAND	CA (US)
DP	SKYLINE			KOAK	OAKLAND	CA (US)
EN ROUTE	J110					(US)
EN ROUTE	J65					(US)
EN ROUTE	V165					(US)
EN ROUTE	V23					(US)
EN ROUTE	V230					(US)
EN ROUTE	V585					(US)
IAP	ILS OR LOC/DME RWY 31			KMER	ATWATER	CA (US)
IAP	VOR/DME RWY 31			KMER	ATWATER	CA (US)
IAP	HI-ILS Z OR LOC Z RWY 29R			KFAT	FRESNO	CA (US)
IAP	HI-LOC Y RWY 11L			KFAT	FRESNO	CA (US)
IAP	HI-VOR OR TACAN RWY 29R			KFAT	FRESNO	CA (US)
IAP	HI-VOR/DME OR TACAN RWY 11L			KFAT	FRESNO	CA (US)
IAP	ILS Y OR LOC Y RWY 29R			KFAT	FRESNO	CA (US)
IAP	ILS Y RWY 29R (CAT II)			KFAT	FRESNO	CA (US)
IAP	ILS Y RWY 29R (CAT III)			KFAT	FRESNO	CA (US)
IAP	ILS Y RWY 29R (SA CAT I)			KFAT	FRESNO	CA (US)
IAP	LOC Y RWY 11L			KFAT	FRESNO	CA (US)
IAP	VOR/DME OR TACAN RWY 11L			KFAT	FRESNO	CA (US)
IAP	VOR/DME OR TACAN RWY 29R			KFAT	FRESNO	CA (US)
IAP	VOR/DME OR GPS-C			KFCH	FRESNO	CA (US)
IAP	RNAV (GPS) A			KHJO	HANFORD	CA (US)
IAP	HI-TACAN Z RWY 32L			KNLC	LEMOORE	CA (US)
IAP	TACAN RWY 14L			KNLC	LEMOORE	CA (US)
IAP	TACAN RWY 14R			KNLC	LEMOORE	CA (US)
IAP	TACAN RWY 32L			KNLC	LEMOORE	CA (US)
IAP	RNAV (GPS) RWY 30			KMAE	MADERA	CA (US)
IAP	VOR RWY 30			KMAE	MADERA	CA (US)
IAP	ILS OR LOC RWY 30			KMCE	MERCED	CA (US)
IAP	VOR RWY 30			KMCE	MERCED	CA (US)
IAP	ILS OR LOC RWY 28R			KMOD	MODESTO	CA (US)
IAP	RNAV (GPS) RWY 28R			KMOD	MODESTO	CA (US)
IAP	VOR RWY 28R			KMOD	MODESTO	CA (US)
IAP	ILS OR LOC/DME RWY 30			KVIS	VISALIA	CA (US)
IAP	VOR RWY 12			KVIS	VISALIA	CA (US)
STAR	ALTTA			KFAT	FRESNO	CA (US)
STAR	GIVEN			KFAT	FRESNO	CA (US)
STAR	PANOCHE			KHWD	HAYWARD	CA (US)
STAR	PANOCHE			KOAK	OAKLAND	CA (US)
STAR	MODESTO			KSFO	SAN FRANCISCO	CA (US)
STAR	EL NIDO			KSJC	SAN JOSE	CA (US)
STAR	ROBIE			KSJC	SAN JOSE	CA (US)

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 28

**DATE OF REVISION:** 01/03/2019

**REASON FOR REVISION:**

IAP NAME CHANGES AT KMOD: VOR/DME RWY 28R TO VOR RWY 28R, ILS OR LOC/DME RWY 28R TO ILS OR LOC RWY 28R

**INITIATED BY:**

**DATE:**

**ORGANIZATION:**

**NAME:**

**OFFICE OF PRIMARY RESPONSIBILITY:**

AJV-5431

**NAME:** NICHOLAS JACKSON

**APPROVED BY:****DATE:****OFFICE:** AJV-5430**NAME:** PATRICK MULQUEEN**SIGNATURE:****DISTRIBUTION:****NFDC****FPO:** WST**ARTCC:** ZOA**ATC FACILITY:** KFAT APP CON, NORCAL APP CON**OTHER:**

# RADIO FIX AND HOLDING DATA RECORD

NAME: EL NIDO VOR/DME STATE: CA COUNTRY: US ICAO REGION CODE: K2  
 LATITUDE/LONGITUDE: 371309.96N/1202400.79W 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	EL NIDO	HYP	VOR/DME	L						23000

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	HYP	VOR/DME	110.37	290.37	L	1-1 1/2	2000 17500	4 16
2	SE	HYP	VOR/DME	125.20	305.20	R	1-1 1/2	3000 17500	4 16
3	NE	HYP	VOR/DME	067.00	247.00	L	1-1 1/2	12000 17500	9 16
4	E	HYP	VOR/DME	108.62	288.62	L	1-1 1/2	2000 17500	4 16

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (06-002097)	371138.45N/1201435.97W	489	1A
2	200	TOWER (06-002097)	371138.45N/1201435.97W	489	1A
2	310	TOWER (06-002275)	371301.40N/1201158.92W	705	3C
3	230	AAO	371618.50N/1200640.80W	1038	6A
4	200	TOWER (06-002097)	371138.45N/1201435.97W	489	1A

## REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST  
 PAT 3 ATC REQUEST  
 PAT 4 ATC REQUEST

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

## REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	SOUTHLAND			KNUQ	MOUNTAIN VIEW	CA (US)
IAP	VOR/DME-A			KF34	FIREBAUGH	CA (US)
IAP	LOC Y RWY 11L			KFAT	FRESNO	CA (US)
IAP	VOR/DME RWY 14			KLSN	LOS BANOS	CA (US)
IAP	VOR/DME RWY 32			KLSN	LOS BANOS	CA (US)
IAP	ILS OR LOC RWY 30		1	KMCE	MERCED	CA (US)
IAP	LOC BC RWY 12		1	KMCE	MERCED	CA (US)
IAP	VOR RWY 30		4	KMCE	MERCED	CA (US)
IAP	ILS OR LOC/DME RWY 31		2	KMER	MERCED	CA (US)
IAP	VOR/DME RWY 31		2	KMER	MERCED	CA (US)
IAP	ILS OR LOC RWY 28R			KMOD	MODESTO	CA (US)
IAP	RNAV (GPS) RWY 28R			KMOD	MODESTO	CA (US)
IAP	VOR RWY 28R			KMOD	MODESTO	CA (US)
STAR	WRAPS			KSMF	SACRAMENTO	CA (US)
STAR	EL NIDO		3	KSJC	SAN JOSE	CA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 20

DATE OF REVISION: 01/03/2019

## REASON FOR REVISION:

IAP NAME CHANGES AT KMOD: VOR/DME RWY 28R TO VOR RWY 28R, ILS OR LOC/DME RWY 28R TO ILS OR LOC RWY 28R

INITIATED BY: DATE: ORGANIZATION: NAME:

OFFICE OF PRIMARY RESPONSIBILITY: AJV-5431 NAME: NICHOLAS JACKSON

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: 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 2 ATC REQUEST  
 PAT 1 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 RWY 28R		1	KMOD	MODESTO	CA (US)
IAP	VOR 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, EN ROUTE LOW, EN ROUTE HIGH, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 22 DATE OF REVISION: 01/03/2019

## REASON FOR REVISION:

IAP NAME CHANGES AT KMOD: VOR/DME RWY 28R TO VOR RWY 28R, ILS OR LOC/DME RWY 28R TO ILS OR LOC RWY 28R

INITIATED BY: DATE: ORGANIZATION: NAME:

OFFICE OF PRIMARY RESPONSIBILITY: AJV-5431 NAME: NICHOLAS JACKSON

**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: 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	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
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
UPN	230	AAO	362724.00N/1204915.00W	4357	4E

## PRECIPITOUS TERRAIN ADDITIONS:

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

## 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.  
 ASSIGNED FACILITY MAG VAR: E16/1980.

## 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	OAKLAND			KOAK	OAKLAND	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 RWY 28R		KMOD	MODESTO	CA (US)
IAP	RNAV (GPS) RWY 28R		KMOD	MODESTO	CA (US)
IAP	VOR RWY 28R		KMOD	MODESTO	CA (US)
STAR	PANOCHE		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, EN ROUTE LOW, EN ROUTE HIGH, CONTROLLER LOW

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 27

**DATE OF REVISION:** 01/03/2019

**REASON FOR REVISION:**

IAP NAME CHANGES AT KMOD: VOR/DME RWY 28R TO VOR RWY 28R, ILS OR LOC/DME RWY 28R TO ILS OR LOC RWY 28R

**INITIATED BY:**                      **DATE:**                      **ORGANIZATION:**                      **NAME:**

**OFFICE OF PRIMARY RESPONSIBILITY:**                      AJV-5431                      **NAME:** NICHOLAS JACKSON

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

**SIGNATURE:**

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