

RADIO FIX AND HOLDING DATA RECORD

NAME: BOULDER CITY VORTAC STATE: NV COUNTRY: US ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 355944.84N/1145148.88W 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 | BOULDER CITY | BLD | 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 | SE | BLD | VORTAC | 150.00 | 330.00 | R | 1 | | 6000 | 14000 | 7 | 10 |
| 2 | SE | | WP | 150.00 | 330.00 | R | | 6 | 6000 | 14000 | 8 | 11 |
| 3 | SE | BLD | VORTAC | 150.00 | 330.00 | R | 1-1 1/2 | | 7000 | 17500 | 8 | 16 |

CONTROLLING OBSTRUCTIONS:

| PAT | AIRSPEED | OBSTRUCTION | COORDINATES | ELEVATION | ACCURACY CODE |
|-----|----------|-------------|------------------------|-----------|---------------|
| 1 | 230 | AAO | 355652.00N/1145650.00W | 4320 | 2C |
| 1 | 310 | AAO | 355948.00N/1143642.00W | 5466 | 4E |
| 2 | 230 | AAO | 355651.00N/1145654.00W | 4262 | 3E |
| 2 | 310 | AAO | 355948.00N/1143642.00W | 5466 | 4E |
| 3 | 230 | AAO | 355652.00N/1145650.00W | 4320 | 2C |
| 3 | 310 | AAO | 355948.00N/1143642.00W | 5466 | 4E |

PRECIPITOUS TERRAIN ADDITIONS:

| PAT | SPEED | ADDITION |
|-----|-------|----------|
| 1 | 230 | 300 |
| 1 | 310 | 300 |
| 2 | 310 | 300 |
| 2 | 230 | 300 |
| 3 | 310 | 300 |
| 3 | 230 | 300 |

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

| PAT | PROCEDURE TITLE | AIRPORT IDENT | CITY | STATE |
|-----|--------------------|---------------|-----------|---------|
| 1 | ILS OR LOC RWY 26R | KLAS | LAS VEGAS | NV (US) |
| 2 | RNAV (GPS) RWY 1R | KLAS | LAS VEGAS | NV (US) |
| 3 | ILS OR LOC RWY 26L | KLAS | LAS VEGAS | NV (US) |
| 3 | ILS OR LOC RWY 1L | KLAS | LAS VEGAS | NV (US) |

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED
 FACILITY MAGVAR IS 15E
 PAT 1,2 230KT HOLDING PATTERN FOR MILITARY AIRCRAFT
 PAT 1 (230KT) CONTROLLING OBSTACLE LOCATED IN SECONDARY (PRIMARY EQUIV 3803)
 PAT 1 (310KT) CONTROLLING OBSTACLE LOCATED IN SECONDARY (PRIMARY EQUIV 4559)
 PAT 2 (310KT) CONTROLLING OBSTACLE LOCATED IN SECONDARY (PRIMARY EQUIV 4738)
 PAT 3 (310KT) CONTROLLING OBSTACLE LOCATED IN SECONDARY (PRIMARY EQUIV 4738)
 SITEE (RNAV) STAR PAT 2 LOST COMM

FIX USE:

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|----------|------------------|-----|-----|---------------|-----------|---------|
| DP | TAKEOFF MINIMUMS | | | KHND | LAS VEGAS | NV (US) |
| DP | HOOVER | | 1 | KLAS | LAS VEGAS | NV (US) |
| DP | LAS VEGAS | | 1 | KLAS | LAS VEGAS | NV (US) |
| DP | MCCARRAN | | 1 | KLAS | LAS VEGAS | NV (US) |
| DP | SHEAD (RNAV) | | | KLAS | LAS VEGAS | NV (US) |
| DP | TAKEOFF MINIMUMS | | | KLAS | LAS VEGAS | NV (US) |
| DP | BOULDER CITY | | | KVGT | LAS VEGAS | NV (US) |
| EN ROUTE | J107 | | | | | (US) |
| EN ROUTE | J110 | | | | | (US) |
| EN ROUTE | J60 | | | | | (US) |
| EN ROUTE | J72 | | | | | (US) |
| EN ROUTE | J86 | | | | | (US) |
| EN ROUTE | J92 | | | | | (US) |
| EN ROUTE | Q114 | | | | | (US) |
| EN ROUTE | Q74 | | | | | (US) |
| EN ROUTE | V105 | | | | | (US) |
| EN ROUTE | V21 | | | | | (US) |
| EN ROUTE | V237 | | | | | (US) |
| EN ROUTE | V283 | | | | | (US) |
| EN ROUTE | V514 | | | | | (US) |
| EN ROUTE | V587 | | | | | (US) |

QUALITY
18
CHECKED

| | | | | | |
|----------|--------------------|---|------|-----------|---------|
| EN ROUTE | V629 | | | | (US) |
| IAP | VOR/DME RWY 21 | | KIGM | KINGMAN | AZ (US) |
| IAP | VOR-C | 1 | KHND | LAS VEGAS | NV (US) |
| IAP | ILS OR LOC RWY 1L | 3 | KLAS | LAS VEGAS | NV (US) |
| IAP | ILS OR LOC RWY 26L | 3 | KLAS | LAS VEGAS | NV (US) |
| IAP | ILS OR LOC RWY 26R | 1 | KLAS | LAS VEGAS | NV (US) |
| IAP | RNAV (GPS) RWY 1R | 2 | KLAS | LAS VEGAS | NV (US) |
| IAP | VOR RWY 26 L/R | 1 | KLAS | LAS VEGAS | NV (US) |
| IAP | VOR/DME-A | 1 | KLAS | LAS VEGAS | NV (US) |
| STAR | COYOT | | KPHX | PHOENIX | AZ (US) |
| STAR | MAIER (RNAV) | | KPHX | PHOENIX | AZ (US) |
| STAR | ADDEL (RNAV) | 2 | KHND | LAS VEGAS | NV (US) |
| STAR | JOMIX (RNAV) | 2 | KHND | LAS VEGAS | NV (US) |
| STAR | KNGMN (RNAV) | 2 | KHND | LAS VEGAS | NV (US) |
| STAR | NOOTN (RNAV) | 2 | KHND | LAS VEGAS | NV (US) |
| STAR | CLARR | | KLAS | LAS VEGAS | NV (US) |
| STAR | CRESO | | KLAS | LAS VEGAS | NV (US) |
| STAR | FUZZY | | KLAS | LAS VEGAS | NV (US) |
| STAR | GRNPA (RNAV) | 2 | KLAS | LAS VEGAS | NV (US) |
| STAR | KADDY | 1 | KLAS | LAS VEGAS | NV (US) |
| STAR | KEPEC (RNAV) | 2 | KLAS | LAS VEGAS | NV (US) |
| STAR | LUXOR | 1 | KLAS | LAS VEGAS | NV (US) |
| STAR | SITEE (RNAV) | 2 | KLAS | LAS VEGAS | NV (US) |
| STAR | SUNST (RNAV) | 2 | KLAS | LAS VEGAS | NV (US) |
| STAR | TYSSN (RNAV) | 2 | KLAS | LAS VEGAS | NV (US) |

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 18

DATE OF REVISION: 08/17/2017

REASON FOR REVISION:

HOLD PAT 3, LEG TIME CHANGED FROM 1 TO 1-1 1/2 AND MIN ALT CHANGED FROM 6200 TO 7000
 UPDATED PAT1 310KT AAO FROM 355950.90N/1143643.50W TO 355948N/1143642W, ELEV FROM 5645 (6C) TO 5466 (4E)
 PAT 1 OBS CHANGED FROM 4142FT AAO AT 355736N/1145633W (4E) TO 4320FT AAO AT 355652N/1145650W (2C)
 PAT 2 OBS CHANGED FROM 4342FT AAO AT 355652.61N/1145649.93W (2C) TO 4262FT AAO AT 355651N/1145654W (3E)
 ADDED PAT 2 310KT AAO DUE TO KLAS RNAV (GPS) RWY 1R CIH REQUIREMENT
 PAT 3 (230KT) OBS CHANGED FROM 4342FT AAO AT 355652.61N/1145649.93W (2C) TO 4320FT AAO AT 355652N/1145650W (2C)
 PAT 3 (310KT) OBS CHANGED FROM 5645FT AAO AT 355950.9N/1143643.5W (6C) TO 5466FT AAO AT 355948N/1143642W (4E)
 UPDATED ALL PRECIPITOUS TERRAIN ADDITIONS TO 300
 ADDED KLAS ILS OR LOC RWY 26R AND RNAV (GPS) RWY 1R TO PROCEDURES REQUIRING CLIMB-IN-HOLD
 FIX USE (KLAS): CHANGED ILS OR LOC RWY 25L AND 25R TO 26L AND 26R, ILS OR LOC/DME RWY 1L TO ILS OR LOC RWY 1L (NOW USING CIH PAT 3), VOR RWY 25 L/R TO VOR RWY 26 L/R
 ADDED REMARK 'PAT 1 (230KT) CONTROLLING OBSTACLE LOCATED IN SECONDARY (PRIMARY EQUIV 3803)'
 ADDED REMARK 'PAT 1 (310KT) CONTROLLING OBSTACLE LOCATED IN SECONDARY (PRIMARY EQUIV 4559)'
 ADDED REMARK 'PAT 2 (310KT) CONTROLLING OBSTACLE LOCATED IN SECONDARY (PRIMARY EQUIV 4738)'
 CHANGED REMARK '310KT PATTERN CONTROLLING OBSTACLE LOCATED IN SECONDARY (PRIMARY EQUIV 4917)' TO 'PAT 3 (310KT) CONTROLLING OBSTACLE LOCATED IN SECONDARY (PRIMARY EQUIV 4738)'

DEVELOPED BY: **DATE:** 04/18/2017 **OFFICE:** AJV-5422 **NAME:** LUCAS MCCLOUD

APPROVED BY: **DATE:** **OFFICE:** AJV-5420 **NAME:** JULIE MORGAN

SIGNATURE:

DISTRIBUTION: **NFDC**
 FPO: WST
 ARTCC: ZLA
 ATC FACILITY: LAS APP CON/ATCT
 OTHER:

QUALITY
18
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: CAKNU

STATE: NV

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 354742.00N/1151935.76W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
IAP

USE TITLE
RNAV (GPS) RWY 1R

FAC

PAT

AIRPORT IDENT
KLAS

CITY
LAS VEGAS

STATE
NV (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 08/17/2017

REASON FOR REVISION:

DELETED FAC1 'KLAS R01R'

DELETED REMARK 'KLAS R01R DISPLACED THRESHOLD COORDINATES: 360431.68N-1151000.43W'

UPDATED FIX USE TO CURRENT FORMAT

DEVELOPED BY:

DATE: 04/18/2017

OFFICE: AJV-5422

NAME: LUCAS MCCLOUD

APPROVED BY:

DATE:

OFFICE: AJV-5420

NAME: JULIE MORGAN

SIGNATURE:

DISTRIBUTION:

NFDC

FPO: WST

ARTCC: ZLA

ATC FACILITY: LAS APP CON/ATCT

OTHER:

QUALITY
18
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: FEBET

STATE: NV

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 355253.96N/1151638.61W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
IAP

USE TITLE
RNAV (GPS) RWY 1R

FAC

PAT

AIRPORT IDENT
KLAS

CITY
LAS VEGAS

STATE
NV (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 08/17/2017

REASON FOR REVISION:

FIX MOVED 3889 FT NE FROM 355219.03N-1151658.35W TO 355253.959N-1151638.608W

DELETED FAC1 'KLAS R01R'

DELETED REMARK 'KLAS R01R DISPLACED THRESHOLD COORDINATES; 360431.68N-1151000.43W'

UPDATED FIX USE TO CURRENT FORMAT

DEVELOPED BY:

DATE: 04/18/2017

OFFICE: AJV-5422

NAME: LUCAS MCCLOUD

APPROVED BY:

DATE:

OFFICE: AJV-5420

NAME: JULIE MORGAN

SIGNATURE:

DISTRIBUTION:

NFDC

FPO: WST

ARTCC: ZLA

ATC FACILITY: LAS APP CON/ATCT

OTHER:

QUALITY
18
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: GALNE

STATE: NV

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 355942.82N/1151245.54W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
IAP

USE TITLE
RNAV (GPS) RWY 1R

FAC

PAT

AIRPORT IDENT
KLAS

CITY
LAS VEGAS

STATE
NV (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 08/17/2017

REASON FOR REVISION:

FIX MOVED 1202 FT NE FROM 355931.94N-1151251.70W TO 355942.82N-1151245.541W

DELETED FAC 1 'KLAS R01R'

DELETED REMARK 'KLAS R01R DISPLACED THRESHOLD COORDINATES: 360431.68N-1151000.43W'

UPDATED FIX USE TO CURRENT FORMAT

DEVELOPED BY:

DATE: 04/18/2017

OFFICE: AJV-5422

NAME: LUCAS MCCLOUD

APPROVED BY:

DATE:

OFFICE: AJV-5420

NAME: JULIE MORGAN

SIGNATURE:

DISTRIBUTION:

NFDC

FPO: WST

ARTCC: ZLA

ATC FACILITY: LAS APP CON/ATCT

OTHER:

QUALITY
18
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: JIBIB

STATE: NV

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 360804.20N/1150758.76W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: CANCEL

FIX MAKE-UP FACILITIES:

| FAC | NAME | IDENT | TYPE | CLASS | MAG BRG | TRUE BRG | DME | DIST FROM NM | FAC FEET | MRA | MAA |
|-----|-----------|-------|------|-------|------------|-------------|------|-----------------|-------------|-----|-------|
| 1 | KLAS R01R | | | | | 024.91 | 3.90 | | | | 17500 |

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

KLAS R01R DISPLACED THRESHOLD COORDINATES: 360431.68N-1151000.43W

FIX USE:

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|----------|------------------------------------|-----|-----|---------------|-----------|---------|
| IAP | MC CARRAN INTL - RNAV (GPS) RWY 1R | | | KLAS | LAS VEGAS | NV (US) |

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 05/11/2006

DEVELOPED BY: DATE: 12/15/2005 OFFICE: AVN-130 NAME: TONY LAWSON

APPROVED BY: DATE: OFFICE: AJV-5420 NAME: JULIE MORGAN

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: LAX
ARTCC: ZLA
ATC FACILITY: LAS/LAS
OTHER:

QUALITY
18
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: KIBSE

STATE: NV

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 355620.52N/1151440.95W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
IAP

USE TITLE
RNAV (GPS) RWY 1R

FAC

PAT

AIRPORT IDENT
KLAS

CITY
LAS VEGAS

STATE
NV (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 08/17/2017

REASON FOR REVISION:

FIX MOVED 1170 FT SW FROM 355631.01N-1151434.88W TO 355620.520N-1151440.953W

DELETED FAC 1 'KLAS R01R'

DELETED REMARK 'KLAS R01R DISPLACED THRESHOLD COORDINATES: 360431.68N-1151000.43W'

UPDATED FIX USE TO CURRENT FORMAT

DEVELOPED BY:

DATE: 04/18/2017

OFFICE: AJV-5422

NAME: LUCAS MCCLOUD

APPROVED BY:

DATE:

OFFICE: AJV-5420

NAME: JULIE MORGAN

SIGNATURE:

DISTRIBUTION:

NFDC

FPO: WST

ARTCC: ZLA

ATC FACILITY: LAS APP CON/ATCT

OTHER:

QUALITY
18
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: WAMUD

STATE: NV

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 360608.85N/1145811.80W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: CANCEL

FIX MAKE-UP FACILITIES:

| FAC | NAME | IDENT | TYPE | CLASS | MAG BRG | TRUE BRG | DME | DIST FROM NM | FAC FEET | MRA | MAA |
|-----|-------|-------|------|-------|------------|-------------|------|-----------------|-------------|-----|-------|
| 1 | JIBIB | | | | | 103.57 | 8.16 | | | | 17500 |

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
IAP

USE TITLE

FAC

PAT

AIRPORT IDENT
KLAS

CITY
LAS VEGAS

STATE
NV (US)

MC CARRAN INTL - RNAV (GPS) RWY 1R

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 05/11/2006

DEVELOPED BY:

DATE: 12/15/2005

OFFICE: AVN-130

NAME: TONY LAWSON

APPROVED BY:

DATE:

OFFICE: AJV-5420

NAME: JULIE MORGAN

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: LAX
ARTCC: ZLA
ATC FACILITY: LAS/LAS
OTHER:

QUALITY
18
CHECKED