

RADIO FIX AND HOLDING DATA RECORD

NAME: CURTZ

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 311005.75N/0975230.48W

TYPE: 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	MAA	MAA
								NM FEET		
1	GRAY	GRK	VOR/DME	T	331.71	338.71	8.70	8.70 52855	3000	12000

HOLDING:

HOLDING TYPE OF ACTION: MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH	HOLDING ALTITUDES	TEMPLATES
							TIME DME	MIN MAX	MIN MAX
1	NW	GRK	VOR/DME	331.71	151.71	R	1	3000 13000	8 13

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	265	TOWER (48-002016)	310800.20N/0975418.70W	1614	3C

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

FIX UNUSABLE WHEN R-6302-C IS ACTIVE
PRECIPITOUS TERRAIN EVALUATION COMPLETED
265 K PATTERN EVALUATED FOR HIGH PERFORMANCE AIRCRAFT

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	VOR RWY 15	1	1	KGRK	FORT HOOD/KILLEEN	TX (US)

REQUIRED CHARTING: MILITARY IAP, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 06/15/2023

REASON FOR REVISION:

AMENDED PAT 1 OBSTACLE COORDS FROM "310801.00N/0975419.00W" TO "310800.20N/0975418.70W" AND ELEVATION FROM "1616" TO "1614"
AMENDED FIX USE FROM "IAP VOR/DME RWY 15 FAC 1 PAT KGRK" TO "IAP VOR RWY 15 FAC 1 KGRK"
AMENDED REQUIRED CHARTING TO ADD "MILITARY IAP"

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A412

NAME: KELLY CARLSON

APPROVED BY:

DATE: 08/11/2022

OFFICE: AJV-A412

NAME: MARK ADAMS

SIGNATURE:

Digitally signed by

MARK D ADAMS

Mar 29, 2023



RADIO FIX AND HOLDING DATA RECORD

NAME: GOOCH SPRINGS VORTAC STATE: TX COUNTRY: US ICAO REGION CODE: K4
 LATITUDE/LONGITUDE: 311107.82N/0980830.69W 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	GOOCH SPRINGS	AGJ	VORTAC	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	N	AGJ	VORTAC	014.00	194.00	R	1-1 1/2	3000 17500	4 16
2	N		WP	010.00	190.00	R	4	3000 17500	5 17

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	312036.00N/0980651.00W	1638	4E
1	265	AAO	310842.00N/0981500.00W	1720	4E
2	200	AAO	312136.00N/0980736.00W	1660	4E
2	265	AAO	310842.00N/0981500.00W	1720	4E

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED
 PAT 1 AND PAT 2 EVALUATED AT 265 KIAS TO SUPPORT MILITARY OPERATIONS
 ASSIGNED FACILITY MAGVAR: 5E (2010)

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	AUSTIN			KAUS	AUSTIN	TX (US)
DP	CENTEX			KAUS	AUSTIN	TX (US)
DP	LAMPS			KHLR	FORT HOOD (KILLEEN)	TX (US)
DP	CONRA			KHLR	FORT HOOD(KILLEEN)	TX (US)
DP	CONRA			KGRK	FORT HOOD/KILLEEN	TX (US)
DP	LAMPS			KGRK	FORT HOOD/KILLEEN	TX (US)
DP	CONRA			KILE	KILLEEN	TX (US)
DP	LAMPS			KILE	KILLEEN	TX (US)
DP	ALAMO			KSAT	SAN ANTONIO	TX (US)
DP	ALAMO			KSSF	SAN ANTONIO	TX (US)
EN ROUTE	V358					(US)
IAP	RNAV (GPS) RWY 19			KBMQ	BURNET	TX (US)
IAP	COPTER NDB RWY 34			KHLR	FORT HOOD (KILLEEN)	TX (US)
IAP	COPTER RNAV (GPS) RWY 34			KHLR	FORT HOOD (KILLEEN)	TX (US)
IAP	COPTER VOR RWY 32			KHLR	FORT HOOD (KILLEEN)	TX (US)
IAP	COPTER VOR RWY 33			KGRK	FORT HOOD/KILLEEN	TX (US)
IAP	ILS OR LOC RWY 15		1	KGRK	FORT HOOD/KILLEEN	TX (US)
IAP	ILS OR LOC RWY 33		1	KGRK	FORT HOOD/KILLEEN	TX (US)
IAP	RADAR-1		1	KGRK	FORT HOOD/KILLEEN	TX (US)
IAP	RNAV (GPS) RWY 15		2	KGRK	FORT HOOD/KILLEEN	TX (US)
IAP	RNAV (GPS) RWY 33		2	KGRK	FORT HOOD/KILLEEN	TX (US)
IAP	VOR RWY 15		1	KGRK	FORT HOOD/KILLEEN	TX (US)
IAP	VOR-A			KGRK	FORT HOOD/KILLEEN	TX (US)
IAP	RNAV (GPS) RWY 11			KGTU	GEORGETOWN	TX (US)
IAP	RNAV (GPS) RWY 36			KMNZ	HAMILTON	TX (US)
IAP	LOC RWY 1			KILE	KILLEEN	TX (US)
IAP	RNAV (GPS) RWY 1			KILE	KILLEEN	TX (US)
IAP	VOR-A			KILE	KILLEEN	TX (US)
IAP	RNAV (GPS) RWY 34		2	KLZZ	LAMPASAS	TX (US)
IAP	VOR-A		1	KLZZ	LAMPASAS	TX (US)
IAP	RNAV (GPS) RWY 17			KAQO	LLANO	TX (US)
IAP	ILS OR LOC RWY 15			KTPL	TEMPLE	TX (US)
STAR	BLEWE			KAUS	AUSTIN	TX (US)
STAR	KALLA			KAUS	AUSTIN	TX (US)
STAR	BLEWE			KHYI	AUSTIN	TX (US)
STAR	KALLA			KGTU	GEORGETOWN	TX (US)
STAR	BLEWE			3R9	LAKEWAY	TX (US)
STAR	KALLA			3R9	LAKEWAY	TX (US)
STAR	MARCS			KSAT	SAN ANTONIO	TX (US)
STAR	MARCS			KSKF	SAN ANTONIO	TX (US)
STAR	MARCS			KSSF	SAN ANTONIO	TX (US)
STAR	MARCS			KRND	UNIVERSAL CITY	TX (US)

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

QUALITY
20
CHECKED

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 14

DATE OF REVISION: 06/15/2023

REASON FOR REVISION:

DELETED "ENROUTE V163" AND "IAP RADAR-2 PAT 1 KGRK" FROM FIX USE
AMENDED FIX USE FROM "IAP VOR/DME RWY 15 KGRK" TO "IAP VOR RWY 15 KGRK"

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A412

NAME: KELLY CARLSON

APPROVED BY:

DATE: 08/11/2022

OFFICE: AJV-A412

NAME: MARK ADAMS

Digitally signed by

SIGNATURE: **MARK D ADAMS**

Mar 29, 2023

QUALITY
20
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: GRAY VOR/DME

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 310158.39N/0974849.65W

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	GRAY	GRK	VOR/DME	T							12000

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	SE	GRK	VOR/DME	153.00	333.00	L	1		3000	12000	4	9
2	SW	GRK	VOR/DME	237.18	057.18	R	1		3000	6000	4	5
3	SW	GRK	VOR/DME	211.89	031.89	R	1		3000	6000	4	4

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (48-014263)	310300.58N/0975142.17W	1505	1A
2	200	TOWER (48-014263)	310300.58N/0975142.17W	1505	1A
3	100	TOWER (48-014263)	310300.58N/0975142.17W	1505	1A

REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED
ASSIGNED FACILITY MAGVAR: 7E (1990)

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	COPTER VOR 032		3	KHLR	FORT HOOD (KILLEEN)	TX (US)
IAP	COPTER VOR RWY 33		1	KGRK	FORT HOOD/KILLEEN	TX (US)
IAP	ILS OR LOC RWY 15			KGRK	FORT HOOD/KILLEEN	TX (US)
IAP	ILS OR LOC RWY 33			KGRK	FORT HOOD/KILLEEN	TX (US)
IAP	VOR RWY 15			KGRK	FORT HOOD/KILLEEN	TX (US)
IAP	VOR-A		1	KGRK	FORT HOOD/KILLEEN	TX (US)
IAP	VOR-A		2	KILE	KILLEEN	TX (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6

DATE OF REVISION: 06/15/2023

REASON FOR REVISION:

AMENDED FIX USE FROM "IAP VOR/DME RWY 15 KGRK" TO "IAP VOR RWY 15 KGRK"
AMENDED REQUIRED CHARTING TO ADD "ENROUTE LOW" AND "CONTROLLER LOW"

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A412

NAME: KELLY CARLSON

APPROVED BY:

DATE: 08/11/2022

OFFICE: AJV-A412

NAME: MARK ADAMS

SIGNATURE: Digitally signed by

MARK D ADAMS

Mar 29, 2023

QUALITY
20
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: HEKNU

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 310645.25N/0975059.57W

TYPE: 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 NM	FAC FEET	MRA	MAA
1	GRAY	GRK	VOR/DME	T	331.71	338.71	5.12	5.12		1680	12000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	VOR RWY 15			KGRK	FORT HOOD/KILLEEN	TX (US)

REQUIRED CHARTING: MILITARY IAP, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 06/15/2023

REASON FOR REVISION:

AMENDED FIX USE FROM "IAP VOR/DME RWY 15 KGRK" TO "IAP VOR RWY 15 KGRK"

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A412

NAME: KELLY CARLSON

APPROVED BY:

DATE: 08/11/2022

OFFICE: AJV-A412

NAME: MARK ADAMS

SIGNATURE:

Digitally signed by

MARK D ADAMS

Mar 29, 2023



RADIO FIX AND HOLDING DATA RECORD

NAME: SCULL

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 311541.89N/0975503.27W

TYPE: 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 NM	FAC FEET	MRA	MAA
1	GRAY	GRK	VOR/DME	T	331.71	338.71	14.70	14.70		3000	12000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	VOR RWY 15			KGRK	FORT HOOD/KILLEEN	TX (US)

REQUIRED CHARTING: MILITARY IAP, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 06/15/2023

REASON FOR REVISION:

AMENDED FIX USE FROM "IAP VOR/DME RWY 15 KGRK" TO "IAP VOR RWY 15 KGRK"
AMENDED REQUIRED CHARTING TO ADD "IAP"

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A412

NAME: KELLY CARLSON

APPROVED BY:

DATE: 08/11/2022

OFFICE: AJV-A412

NAME: MARK ADAMS

Digitally signed by
SIGNATURE: **MARK D ADAMS**

Mar 29, 2023

