

RADIO FIX AND HOLDING DATA RECORD

NAME: BIIGG STATE: TX COUNTRY: US ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 295332.44N/0952852.17W TYPE: INT

AIRSPACE DOCKET: FIX TYPE OF ACTION: MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	FAC FEET	MRA	MAA
1	HUMBLE	IAH	VORTAC	H	236.34	241.34		8.05		6000	45000
2	NAVASOTA	TNV	VOR/DME	VH	120.15	128.15		38.27		6000	45000

HOLDING: HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

HUMBLE (FAC 1) AND NAVASOTA (FAC 2) USED TO ESTABLISH FIX COORDINATES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	DUUUK	1, 2		KIAH	HOUSTON	TX (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3 DATE OF REVISION: 02/20/2025

REASON FOR REVISION:

1. REMOVED "DME" FROM TYPE.
2. REMOVED DME "38.27" FROM FAC (2) IN FIX MAKE-UP FACILITIES.
3. CHANGED "HUMBLE (FAC 1) USED TO ESTABLISH FIX COORDINATES" TO "HUMBLE (FAC 1) AND NAVASOTA (FAC 2) USED TO ESTABLISH FIX COORDINATES" IN REMARKS.

INITIATED BY: DATE: ORGANIZATION: NAME:

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A432 NAME: ROBERT SWINSON

APPROVED BY: DATE: 02/20/2025 OFFICE: AJV-A432 NAME: JOSEPH ZEDER

SIGNATURE: *Digitally signed by*
CASIMIR L TABAKA
Oct 30, 2024



RADIO FIX AND HOLDING DATA RECORD

NAME: CHVRN STATE: TX COUNTRY: US ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 291636.50N/0964457.97W 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 FAC NM FEET	MRA	MAA
1	HUMBLE	IAH	VORTAC	H	236.34	241.34		83.94	4500	45000
2	SAN ANTONIO	SAT	VORTAC	VH	095.35	103.35	92.32	92.32	13000	45000
3	CORPUS CHRISTI	CRP	VORTAC	VH	014.92	023.92	90.00	90.00	13000	45000
4	PALACIOS	PSX	VORTAC	VH	314.86	322.86		38.52	4000	45000
5	VICTORIA	VCT	VOR/DME	L	022.11	028.11		25.56	13000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
IAH	VORTAC	R-236	84	4500	14600
SAT	VORTAC	R-095	93	13000	15700
CRP	VORTAC	R-015	90	13000	14600

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	SW	IAH	VORTAC	236.34	056.34	R	1-1 1/2	16000 45000	17 31

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	265	TOWER (48-009860)	291200.00N/0965948.00W	708	1A

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

HUMBLE (FAC 1) AND PALACIOS (FAC 4) USED TO ESTABLISH FIX COORDINATES.
PRECIPITOUS TERRAIN EVALUATION COMPLETE.
HOLD PAT 1 ONLY USES PSX AS INT HOLD; OTHER NAVAIDS DO NOT MEET FIX DISPLACEMENT.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	DUUUK	1, 2, 3, 4	1	KIAH	HOUSTON	TX (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 02/20/2025

REASON FOR REVISION:

1. REMOVED DME "38.52, 25.56" FROM FAC 4 (PSX) AND FAC 5 (VCT) IN FIX MAKE-UP FACILITIES.
2. REMOVED PAT 1 LEG LENGTH "10 DME" AND ADDED LEG TIME "1-1/2", CHANGED MIN HOLDING ALTITUDE FROM "7000" TO "16000", CHANGED MIN TEMPLATE FROM "15" TO "17".
3. CHANGED PAT 1 CONTROLLING OBSTRUCTION AIRSPEED FROM "200" TO "265".
4. REMOVED "PAT 1: EVALUATED FOR 10NM HOLDING PATTERN AT ATC REQUEST", ADDED "HOLD PAT 1 ONLY USES PSX AS INT HOLD; OTHER NAVAIDS DO NOT MEET FIX DISPLACEMENT" IN REMARKS.

INITIATED BY: DATE: ORGANIZATION: NAME:

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A432 NAME: ROBERT SWINSON

APPROVED BY: DATE: 01/16/2025 OFFICE: AJV-A432 NAME: JOSEPH ZEDER

SIGNATURE: Digitally signed by
CASIMIR L TABAKA
Oct 30, 2024



RADIO FIX AND HOLDING DATA RECORD

NAME: DUUUK STATE: TX COUNTRY: US ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 293942.52N/0955739.38W TYPE: INT

AIRSPACE DOCKET: FIX TYPE OF ACTION: MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	FAC FEET	MRA	MAA
1	HUMBLE	IAH	VORTAC	H	236.34	241.34		36.65		2000	45000
2	NAVASOTA	TNV	VOR/DME	VH	164.28	172.28		37.85		2000	45000

HOLDING: HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

HUMBLE (FAC 1) AND NAVASOTA (FAC 2) USED TO ESTABLISH FIX COORDINATES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	DUUUK	1, 2		KIAH	HOUSTON	TX (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 DATE OF REVISION: 02/20/2025

REASON FOR REVISION:

1. REMOVED "DME" FROM TYPE.
2. REMOVED DME "37.85" FROM FAC (2) IN FIX MAKE-UP FACILITIES.
3. REMOVED FAC 2 INDUSTRY (IDU) FROM FIX MAKE-UP FACILITIES AND REFORMATED NUMBERING.
4. CHANGED "HUMBLE (FAC 1) AND NAVASOTA (FAC 3) USED TO ESTABLISH FIX COORDINATES" TO "HUMBLE (FAC 1) AND NAVASOTA (FAC 2) USED TO ESTABLISH FIX COORDINATES" IN REMARKS.
5. REMOVED FAC 3 FROM DUUUK STAR IN FIX USE.

INITIATED BY: DATE: ORGANIZATION: NAME:

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A432 NAME: ROBERT SWINSON

APPROVED BY: DATE: 02/20/2025 OFFICE: AJV-A432 NAME: JOSEPH ZEDER

SIGNATURE: *Digitally signed by*
CASIMIR L TABAKA
Oct 30, 2024



RADIO FIX AND HOLDING DATA RECORD

NAME: FLANL **STATE:** TX **COUNTRY:** US **ICAO REGION CODE:** K4

LATITUDE/LONGITUDE: 292357.66N/0963000.50W **TYPE:** INT

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM FEET	MRA	MAA
1	HUMBLE	IAH	VORTAC	H	236.34	241.34		68.95	6000	45000
2	PALACIOS	PSX	VORTAC	VH	337.03	345.03		39.34	6000	45000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
IAH	VORTAC	R-236	69	6000	14600

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

REMARKS:

HUMBLE (FAC 1) AND PALACIOS (FAC 2) USED TO ESTABLISH FIX COORDINATES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	DUUUK	1, 2		KIAH	HOUSTON	TX (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 02/20/2025

REASON FOR REVISION:

1. REMOVED "DME" FROM TYPE.
2. REMOVED DME "39.34" FROM FAC 2 (PSX) IN FIX MAKE-UP FACILITIES.
3. REMOVED FAC 2 INDUSTRY (IDU) FROM FIX MAKE-UP FACILITIES AND REFORMATED NUMBERING.
4. CHANGED "HUMBLE (FAC 1) AND PALACIOS (FAC 3) USED TO ESTABLISH FIX COORDINATES" TO "HUMBLE (FAC 1) AND PALACIOS (FAC 2) USED TO ESTABLISH FIX COORDINATES" IN REMARKS.

12/18/2024: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 10/30/2024.

1. RAISED FAC 1 AND 2 MRA FROM 4000 TO 6000.
2. RAISED IAH ESV MIN ALTITUDE FROM 4000 TO 6000.

INITIATED BY: **DATE:** **ORGANIZATION:** **NAME:**
OFFICE OF PRIMARY RESPONSIBILITY: AJV-A432 **NAME:** ROBERT SWINSON
APPROVED BY: **DATE:** 02/20/2025 **OFFICE:** AJV-A432 **NAME:** JOSEPH ZEDER

SIGNATURE:
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CASIMIR L TABAKA
Oct 30, 2024



RADIO FIX AND HOLDING DATA RECORD

NAME: GMANN **STATE:** TX **COUNTRY:** US **ICAO REGION CODE:** K4

LATITUDE/LONGITUDE: 293246.74N/0961156.88W **TYPE:** WP, INT

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM FEET	MRA	MAA
1	HUMBLE	IAH	VORTAC	H	236.34	241.34		50.90	2000	45000
2	PALACIOS	PSX	VORTAC	VH	358.83	006.83		47.13	4000	45000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
IAH	VORTAC	R-236	51	2000	14600
PSX	VORTAC	R-359	48	4000	14600

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	SW	IAH	VORTAC	236.34	056.34	R	1	6000 45000	7 31

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (48-003116)	293158.70N/0960510.50W	539	4D

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

HUMBLE (FAC 1) AND PALACIOS (FAC 2) USED TO ESTABLISH FIX COORDINATES.
PRECIPITOUS TERRAIN EVALUATION COMPLETE.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	DUUUK	1, 2	1	KIAH	HOUSTON	TX (US)
STAR	HTOWN (RNAV)			KIAH	HOUSTON	TX (US)
STAR	TEJAS (RNAV)			KIAH	HOUSTON	TX (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 02/20/2025

REASON FOR REVISION:

1. REMOVED "DME" FROM TYPE.
2. REMOVED "FAC 3 INDUSTRY (IDU)", FAC 2 (PSX) DME "47.13" FROM FIX MAKE-UP FACILITIES.
3. DELETED PAT 1 "LENGTH DME 10", ADDED "LEG TIME 1", CHANGED MIN HOLDING ALTITUDES FROM "2000" TO "6000", CHANGED MIN TEMPLATE FROM "15" TO "7".
4. CHANGED HOLDING OBSTRUCTION FROM "TOWER (48-002755) 293528.00N/0962145.00W, 677, 5D" TO "TOWER (48-003116) 293158.70N/0960510.50W, 539, 4D".
5. REMOVED "PAT 1: EVALUATED FOR 10NM HOLDING PATTERN AT ATC REQUEST" FROM REMARKS.
6. REMOVED FAC 3 FROM DUUUK STAR IN FIX USE.

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

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A432 **NAME:** ROBERT SWINSON

APPROVED BY: **DATE:** 02/20/2025 **OFFICE:** AJV-A432 **NAME:** JOSEPH ZEDER

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Oct 30, 2024

