

RADIO FIX AND HOLDING DATA RECORD

NAME: CLARKSBURG VOR/DME **STATE:** WV **COUNTRY:** US **ICAO REGION CODE:** K6

LATITUDE/LONGITUDE: 391511.58N/0801604.30W **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	CLARKSBURG	CKB	VOR/DME	L						17500

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

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG TIME	LENGTH DME	HOLDING ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	SW	CKB	VOR/DME	222.00	042.00	R	1		3200	6000	4	5

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (54-000011)	391706.00N/0801946.00W	2045	4D
1	310	TOWER (54-000030)	390427.00N/0802527.00W	2159	4D

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN(S)

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	ILS OR LOC RWY 21	KCKB	CLARKSBURG	WV (US)

REMARKS:

PRECIPITOUS TERRAIN EVAL COMPLETED.
ASSIGNED FACILITY MAGVAR: 4W/1965.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V103					(US)
EN ROUTE	V166					(US)
EN ROUTE	V35					(US)
EN ROUTE	V37					(US)
IAP	RNAV (GPS) RWY 11			W22	BUCKHANNON	WV (US)
IAP	ILS OR LOC RWY 21		1	KCKB	CLARKSBURG	WV (US)
IAP	VOR-A			KCKB	CLARKSBURG	WV (US)
IAP	RNAV (GPS) RWY 23			KEKN	ELKINS	WV (US)
IAP	ILS OR LOC RWY 18		1	KMGW	MORGANTOWN	WV (US)
IAP	RNAV (GPS) RWY 26			79D	PHILIPPI	WV (US)
STAR	FEWGA (RNAV)			KPIT	PITTSBURGH	PA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 21 **DATE OF REVISION:** 11/30/2023

REASON FOR REVISION:

1. UPDATED FIX USE, DELETED KMGW VOR-A FROM FIX USE.
2. UPDATED HOLDING RESTRICTIONS, CHANGED PATTERNS TO PATTERN.

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

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A423 **NAME:** BARRY SMITH

APPROVED BY: **DATE:** 01/27/2022 **OFFICE:** AJV-A420 **NAME:** MARLON ROBINSON

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: ELKINS VORTAC

STATE: WV

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 385451.97N/0800557.38W

TYPE:

AIRSPACE DOCKET: 24-AEA-2

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	ELKINS	EKN	VORTAC	L						17500

FIX RESTRICTIONS:

MCA V4 4900 EASTBOUND

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG TIME	LENGTH DME	HOLDING ALTITUDES MIN MAX	TEMPLATES MIN MAX
1	W	EKN	VORTAC	271.53	091.53	R	1		5500 10000	5 10
2	S	EKN	VORTAC	202.08	022.08	R	1		6000 17500	5 16

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	385113.64N/0800257.51W	3079	4E
2	265	AAO	383633.00N/0801047.60W	4260	4E

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN(S)

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
ASSIGNED FACILITY MAGVAR: 7W (1985).

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	ALLEGHENY			KAGC	PITTSBURGH	PA (US)
DP	ELKINS (OBSTACLE)			KEKN	ELKINS	WV (US)
EN ROUTE	T553					(US)
EN ROUTE	V103					(US)
EN ROUTE	V286					(US)
EN ROUTE	V37		2			(US)
EN ROUTE	V38					(US)
EN ROUTE	V4					(US)
EN ROUTE	V469					(US)
IAP	RNAV (GPS) RWY 11			W22	BUCKHANNON	WV (US)
IAP	ILS OR LOC RWY 21			KCKB	CLARKSBURG	WV (US)
IAP	RNAV (GPS) RWY 21			KCKB	CLARKSBURG	WV (US)
IAP	RNAV (GPS) RWY 3			KCKB	CLARKSBURG	WV (US)
IAP	VOR-A			KCKB	CLARKSBURG	WV (US)
IAP	LDA-C		1	KEKN	ELKINS	WV (US)
IAP	RNAV (GPS)-A			KEKN	ELKINS	WV (US)
STAR	NUMMY			KDCA	WASHINGTON	DC (US)
STAR	NUMMY			KADW	CAMP SPRINGS	MD (US)
STAR	NUMMY			KDAA	FORT BELVOIR	VA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 26

DATE OF REVISION: 02/20/2025

REASON FOR REVISION:

AIRSPACE DOCKET: CHANGED FROM 22-AEA-16 TO 24-AEA-2.
FIX USE: REMOVED T479.
FIX USE: ADDED T553.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A422

NAME: DUSTIN HARDISON

APPROVED BY:

DATE: 02/20/2025

OFFICE: AJV-A422

NAME: RAKE MCGRAW

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: GREENSBORO VORTAC **STATE:** NC **COUNTRY:** US **ICAO REGION CODE:** K7

LATITUDE/LONGITUDE: 360244.49N/0795834.94W **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	GREENSBORO	GSO	VORTAC	VH						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	SW	GSO	VORTAC	221.00	041.00	R	1	3100 17500	4 17
2	E	GSO	VORTAC	108.00	288.00	R	1	3100 17500	4 17
3	W		WP	287.00	107.00	R	4	3000 6000	5 6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (37-001004)	360553.00N/0800107.00W	1341	5D
1	310	TOWER (37-001292)	355642.65N/0795144.38W	2046	1A
2	200	TOWER (37-000975)	355811.00N/0794929.00W	1851	2C
2	310	TOWER (37-001292)	355642.65N/0795144.38W	2046	1A
3	200	TOWER (37-002786)	360636.33N/0800436.41W	1441	5D

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	VOR/DME RWY 23L	KGSO	GREENSBORO	NC (US)
2	ILS OR LOC RWY 23L	KGSO	GREENSBORO	NC (US)
2	ILS RWY 23L (CAT II)	KGSO	GREENSBORO	NC (US)

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
ASSIGNED FACILITY MAGVAR: 3W (1965)

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	CHATT (RNAV)			KAGS	AUGUSTA	GA (US)
DP	CHATT (RNAV)			KDNL	AUGUSTA	GA (US)
DP	CHATT (RNAV)			KHQU	THOMSON	GA (US)
DP	CHARLOTTE			KCLT	CHARLOTTE	NC (US)
DP	MOUNTY			KFAY	FAYETTEVILLE	NC (US)
DP	TRIAD			KGSO	GREENSBORO	NC (US)
DP	HICKORY			KHKY	HICKORY	NC (US)
DP	RALEIGH			KRDU	RALEIGH/DURHAM	NC (US)
DP	PACKK			KINT	WINSTON SALEM	NC (US)
DP	TRIAD			KINT	WINSTON-SALEM	NC (US)
DP	CHATT (RNAV)			KAIK	AIKEN	SC (US)
DP	READE			KRIC	RICHMOND	VA (US)
EN ROUTE	Q75					(US)
EN ROUTE	Q83					(US)
EN ROUTE	T356					(US)
EN ROUTE	T358					(US)
EN ROUTE	T480					(US)
EN ROUTE	T553					(US)
EN ROUTE	V103					(US)
EN ROUTE	V143					(US)
EN ROUTE	V266					(US)
EN ROUTE	V310					(US)
EN ROUTE	V373					(US)
EN ROUTE	V45					(US)
IAP	ILS Z OR LOC Z RWY 6			KBUY	BURLINGTON	NC (US)
IAP	ILS OR LOC RWY 36R			KCLT	CHARLOTTE	NC (US)
IAP	ILS RWY 36R (CAT II & III)			KCLT	CHARLOTTE	NC (US)
IAP	ILS RWY 36R (SA CAT I)			KCLT	CHARLOTTE	NC (US)
IAP	ILS OR LOC RWY 20			KJQF	CONCORD	NC (US)
IAP	ILS OR LOC RWY 23L		2	KGSO	GREENSBORO	NC (US)
IAP	ILS OR LOC RWY 23R			KGSO	GREENSBORO	NC (US)
IAP	ILS OR LOC RWY 5L			KGSO	GREENSBORO	NC (US)
IAP	ILS OR LOC RWY 5R			KGSO	GREENSBORO	NC (US)
IAP	ILS RWY 23L (CAT II)		2	KGSO	GREENSBORO	NC (US)
IAP	ILS RWY 5L (CAT II & III)			KGSO	GREENSBORO	NC (US)
IAP	ILS RWY 5R (SA CAT II)			KGSO	GREENSBORO	NC (US)
IAP	ILS Y OR LOC Y RWY 32			KGSO	GREENSBORO	NC (US)
IAP	ILS Z OR LOC Z RWY 32			KGSO	GREENSBORO	NC (US)

IAP	VOR/DME RWY 23L	1	KGSO	GREENSBORO	NC (US)
IAP	ILS OR LOC RWY 6		KEXX	LEXINGTON	NC (US)
IAP	VOR-A		KSIF	REIDSVILLE	NC (US)
IAP	ILS OR LOC RWY 20		KRUQ	SALISBURY	NC (US)
IAP	NDB RWY 20		KRUQ	SALISBURY	NC (US)
IAP	ILS Z OR LOC Z RWY 28		KSVH	STATESVILLE	NC (US)
IAP	VOR/DME OR GPS RWY 34		N63	WALNUT COVE	NC (US)
IAP	RNAV (GPS) RWY 15	3	KINT	WINSTON SALEM	NC (US)
IAP	ILS OR LOC RWY 33		KINT	WINSTON-SALEM	NC (US)
IAP	RNAV (GPS) RWY 33		KINT	WINSTON-SALEM	NC (US)
IAP	ILS OR LOC RWY 2		KDAN	DANVILLE	VA (US)
STAR	STWRT		KAGS	AUGUSTA	GA (US)
STAR	NASCR (RNAV)		KVUJ	ALBEMARLE	NC (US)
STAR	BTSEY		KCLT	CHARLOTTE	NC (US)
STAR	NASCR (RNAV)		KJQF	CONCORD	NC (US)
STAR	BLOCC		KGSO	GREENSBORO	NC (US)
STAR	BROOK		KGSO	GREENSBORO	NC (US)
STAR	HENBY (RNAV)		KGSO	GREENSBORO	NC (US)
STAR	NASCR (RNAV)		KRUQ	SALISBURY	NC (US)
STAR	HENBY (RNAV)		KINT	WINSTON SALEM	NC (US)
STAR	BLOCC		KINT	WINSTON-SALEM	NC (US)
STAR	BROOK		KINT	WINSTON-SALEM	NC (US)

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

COMPULSORY REPORTING POINT: LOW

RECORD REVISION NUMBER: 37

DATE OF REVISION: 04/17/2025

REASON FOR REVISION:

1. REMOVED "QUAKER AT KGSO, KINT" FROM FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: ROBERT SWINSON

APPROVED BY:

DATE: 03/13/2025

OFFICE: AJV-A432

NAME: CASIMIR TABAKA

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: MAYOS

STATE: NC

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 361935.65N/0795947.29W

TYPE: WP, INT, DME

AIRSPACE DOCKET: 24-AEA-2

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	GREENSBORO	GSO	VORTAC	VH	359.69	356.69	16.86	16.86		3100	31000
2	SOUTH BOSTON	SBV	VORTAC	L	251.56	246.56		51.89		3500	17500
3	CHARLOTTE	CLT	VOR/DME	L	039.14	034.14	82.52	82.52		6000	31000
4	LIBERTY	LIB	VORTAC	VL	331.93	328.93	36.06	36.06		3100	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
SBV	VORTAC	R-252	52	3500	17500
CLT	VOR/DME	R-039	83	6000	31000

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	GSO	VORTAC	359.69	179.69	L	1		3100	17500	6	18
2	NW	LIB	VORTAC	331.93	151.93	R	1		3100	6000	6	7

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (37-001097)	361633.00N/0795626.00W	2021	5E
2	200	TOWER (37-001097)	361633.00N/0795626.00W	2021	5E

REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS

REMARKS:

GREENSBORO (FAC 1) AND SOUTH BOSTON (FAC 2) USED TO ESTABLISH FIX COORDINATES.
PRECIPITOUS TERRAIN EVALUATION COMPLETE
FAC 2 AND 4 USED TO ESTABLISH HOLD FOR ALT MISSED APPROACH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	T224					(US)
EN ROUTE	T553					(US)
EN ROUTE	V103	1, 2				NC (US)
EN ROUTE	V20	1, 2				NC (US)
IAP	ILS OR LOC RWY 23R	1, 2, 4	1, 2	KGSO	GREENSBORO	NC (US)
IAP	ILS OR LOC RWY 5L	1, 2, 4	1, 2	KGSO	GREENSBORO	NC (US)
IAP	ILS RWY 5L (CAT II)	1, 2, 4	1, 2	KGSO	GREENSBORO	NC (US)
IAP	ILS RWY 5L (CAT III)	1, 2, 4	1, 2	KGSO	GREENSBORO	NC (US)
STAR	MAJIC	3		KCLT	CHARLOTTE	NC (US)
STAR	MAJIC	3		KAKH	GASTONIA	NC (US)
STAR	MAJIC	3		KIPJ	LINCOLNTON	NC (US)
STAR	MAJIC	3		KEQY	MONROE	NC (US)
STAR	MAJIC	3		KEHO	SHELBY	NC (US)
STAR	MAJIC	3		KAFP	WADESBORO	NC (US)
STAR	MAJIC	3		N52	WAXHAW	NC (US)
STAR	MAJIC	3		KDCM	CHESTER	SC (US)
STAR	MAJIC	3		KLKR	LANCASTER	SC (US)
STAR	MAJIC	3		KUZA	ROCK HILL	SC (US)

REQUIRED CHARTING: SECTIONAL, STAR, IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 14

DATE OF REVISION: 02/20/2025

REASON FOR REVISION:

AIRSPACE DOCKET: 24-AEA-2

FIX USE: ADDED T553.

FIX USE: ADDED FAC 1,2,4 AND PAT 1,2 TO KGSO ILS OR LOC RWY 23R AND KGSO ILS OR LOC RWY 5L.

FIX USE: ADDED FAC 4 TO KGSO ILS RWY 5L (CAT II) AND KGSO ILS RWY 5L (CAT III)

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A422

NAME: DUSTIN HARDISON**APPROVED BY:****DATE:** 02/20/2025**OFFICE:** AJV-A422**NAME:** RAKE MCGRAW**SIGNATURE:**