

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** ALWYZ **STATE:** VA **COUNTRY:** US **ICAO REGION CODE:** K6

**LATITUDE/LONGITUDE:** 385900.66N/0773916.54W **TYPE:** WP, 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	ARMEL	AML	VOR/DME	L	296.50	288.50	9.27	9.27		7000	17500

**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	NW	AML	VOR/DME	296.50	116.50	L		6	8000	14000	7	9
2	NW		WP	299.32	119.32	L		6	8000	14000	7	9

**CONTROLLING OBSTRUCTIONS:**

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	210	AAO	390204.30N/0775538.30W	2140	6C
2	210	AAO	390204.30N/0775538.30W	2140	6C

**REASON FOR NONSTANDARD HOLDING:**

PAT 1 ATC REQUEST.  
PAT 2 ATC REQUEST.

**HOLDING RESTRICTIONS:**

PAT 1 CHART 210K ICON  
PAT 2 CHART 210K ICON  
HOLDING LIMITED TO ESTABLISHED PATTERNS.

**REMARKS:**

PRECIPITOUS TERRAIN EVALUTION COMPLETED.

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	FRDMM (RNAV)		2	KDCA	WASHINGTON	DC (US)
STAR	NUMMY	1	1	KDCA	WASHINGTON	DC (US)
STAR	FRDMM (RNAV)		2	KADW	CAMP SPRINGS	MD (US)
STAR	NUMMY	1	1	KADW	CAMP SPRINGS	MD (US)
STAR	FRDMM (RNAV)		2	KDAA	FORT BELVOIR	VA (US)
STAR	NUMMY	1	1	KDAA	FORT BELVOIR	VA (US)

**REQUIRED CHARTING:** STAR

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 1 **DATE OF REVISION:** 05/24/2018

**REASON FOR REVISION:**

CHANGED PAT 2 HOLDING CRS INBOUND FROM 117.32 TO 119.32 AND RAD/CRS/BRG FROM 297.32 TO 299.32 - KDCA MAGVAR UPDATED FROM 9W/1985 TO 11W/2020.

**DEVELOPED BY:** **DATE:** 09/28/2017 **OFFICE:** AJV-5431 **NAME:** SEAN BARBEE

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

**SIGNATURE:**

*Digitally signed by*

**DISTRIBUTION:**

**NFDC**  
**FPO:** EST  
**ARTCC:** ZDC  
**ATC FACILITY:** PCT APP CON  
**OTHER:**

**ADOLFO D URRUTIA**

Jan 26, 2018

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: FORGT STATE: VA COUNTRY: US ICAO REGION CODE: K6  
 LATITUDE/LONGITUDE: 390207.34N/0775119.25W TYPE: WP, 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	ARMEL	AML	VOR/DME	L	296.50	288.50	19.16	19.16		10000	17500

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	NW	AML	VOR/DME	296.50	116.50	L		10	10000	17000	15	15
2	NW		WP	299.17	119.17	L		10	10000	17000	15	15

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	385724.00N/0780127.00W	2386	4D
2	230	AAO	385724.00N/0780127.00W	2386	4D

## REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST  
 PAT 2 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
STAR	FRDMM (RNAV)		2	KDCA	WASHINGTON	DC (US)
STAR	NUMMY	1	1	KDCA	WASHINGTON	DC (US)
STAR	FRDMM (RNAV)		2	KADW	CAMP SPRINGS	MD (US)
STAR	NUMMY	1	1	KADW	CAMP SPRINGS	MD (US)
STAR	FRDMM (RNAV)		2	KDAA	FORT BELVOIR	VA (US)
STAR	NUMMY	1	1	KDAA	FORT BELVOIR	VA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 DATE OF REVISION: 05/24/2018

## REASON FOR REVISION:

CHANGED PAT 2 HOLDING CRS INBOUND FROM 117.17 TO 119.17 AND RAD/CRS/BRG FROM 297.17 TO 299.17 - KDCA MAGVAR UPDATED FROM 9W/1985 TO 11W/2020.

DEVELOPED BY: DATE: 09/28/2017 OFFICE: AJV-5431 NAME: SEAN BARBEE

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

SIGNATURE: *Digitally signed by*  
**ADOLFO D URRUTIA**

DISTRIBUTION: NFDC  
 FPO: EST  
 ARTCC: ZDC  
 ATC FACILITY: PCT APP CON  
 OTHER:

Jan 26, 2018

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: MORGANTOWN VORTAC

STATE: WV

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 393324.17N/0795137.48W

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	MORGANTOWN	MGW	VORTAC	L							45000

HOLDING:

HOLDING TYPE OF ACTION: MODIFY

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	NW	MGW	VORTAC	307.25	127.25	L	1 1/2		18000	45000	16	29
2	W	MGW	VORTAC	271.57	091.57	R	1		5000	6000	4	5
3	NW		WP	309.25	129.25	L		10	18000	45000	17	30
4	E	MGW	VORTAC	080.77	260.77	R	1		4500	8000	5	8

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	265	AAO	393008.50N/0793151.30W	3349	4E
2	200	AAO	393324.00N/0795139.00W	2530	4E
4	230	TOWER (54-000836)	393933.32N/0794614.19W	2651	2C

REASON FOR NONSTANDARD HOLDING:

PAT 1 AIR TRAFFIC REQUEST.

PAT 3 AIR TRAFFIC REQUEST.

HOLDING RESTRICTIONS:

UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 4600.

REMARKS:

CHART PAT #1 ON ENROUTE HIGH AND CONTROLLER CHARTS.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

ASSIGNED FACILITY MAGVAR: 5W (1965).

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	ALLEGHENY			KAGC	PITTSBURGH	PA (US)
DP	PITTSBURG			KPIT	PITTSBURGH	PA (US)
DP	TAKEOFF MINIMUMS			KMGW	MORGANTOWN	WV (US)
EN ROUTE	J162		1			(US)
EN ROUTE	V144					(US)
EN ROUTE	V35					(US)
EN ROUTE	V44					(US)
EN ROUTE	V469					(US)
EN ROUTE	V75					(US)
IAP	VOR/DME RWY 9		2	K2G4	OAKLAND	MD (US)
IAP	LOC RWY 5			KVVS	CONNELLSVILLE	PA (US)
IAP	RNAV (GPS) RWY 5			KVVS	CONNELLSVILLE	PA (US)
IAP	ILS OR LOC RWY 21 (ALT MA)		4	KCKB	CLARKSBURG	WV (US)
IAP	RNAV (GPS) RWY 21			KCKB	CLARKSBURG	WV (US)
IAP	RNAV (GPS) RWY 3			KCKB	CLARKSBURG	WV (US)
IAP	RNAV (GPS) RWY 23			K4G7	FAIRMONT	WV (US)
IAP	VOR/DME-A			K4G7	FAIRMONT	WV (US)
IAP	ILS OR LOC RWY 18			KMGW	MORGANTOWN	WV (US)
IAP	RNAV (GPS) Y RWY 18			KMGW	MORGANTOWN	WV (US)
IAP	RNAV (GPS) Z RWY 18			KMGW	MORGANTOWN	WV (US)
IAP	VOR-A			KMGW	MORGANTOWN	WV (US)
STAR	FRDMM (RNAV)		3	KDCA	WASHINGTON	DC (US)
STAR	NUMMY		1	KDCA	WASHINGTON	DC (US)
STAR	GIBBZ (RNAV)			KIAD	WASHINGTON	DC (US)
STAR	WESTMINSTER			KBWI	BALTIMORE	MD (US)
STAR	WESTMINSTER			KMTN	BALTIMORE	MD (US)
STAR	FRDMM (RNAV)		3	KADW	CAMP SPRINGS	MD (US)
STAR	NUMMY		1	KADW	CAMP SPRINGS	MD (US)
STAR	BREMN			KCMH	COLUMBUS	OH (US)
STAR	BREMN			KLCK	COLUMBUS	OH (US)
STAR	BREMN			KOSU	COLUMBUS	OH (US)
STAR	BREMN			KTZR	COLUMBUS	OH (US)
STAR	FRDMM (RNAV)		3	KDAA	FORT BELVOIR	VA (US)
STAR	NUMMY		1	KDAA	FORT BELVOIR	VA (US)
STAR	GIBBZ (RNAV)		1	KJYO	LEESBURG	VA (US)
STAR	GIBBZ (RNAV)		1	KHEF	MANASSAS	VA (US)

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

QUALITY  
14  
CHECKED

**COMPULSORY REPORTING POINT: NO****RECORD REVISION NUMBER: 16****DATE OF REVISION: 05/24/2018****REASON FOR REVISION:**

1. CHANGED PAT 3 CRS INBOUND FROM 127.25 TO 129.29 AND RAD/CRS/BRG FROM 307.25 TO 309.25 - KDCA MAGVAR UPDATED FROM 9W/1985 TO 11W/2020.

2. UPDATED FIX USE - CHANGED HOLDING PATTERN FOR ALL FRDMM(RNAV) STAR ENTRIES FROM PAT 1 TO PAT 3.

**DEVELOPED BY:**      **DATE:** 09/29/2017      **OFFICE:** AJV-5431      **NAME:** SEAN BARBEE**APPROVED BY:**      **DATE:**      **OFFICE:** AJV-5430      **NAME:** PATRICK MULQUEEN**SIGNATURE:** *Digitally signed by***ADOLFO D URRUTIA****DISTRIBUTION:****NFDC****FPO: EST**

Jan 26, 2018

**ARTCC: ZOB****ATC FACILITY: ZDC, CKB****OTHER:**

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: PLDGE

STATE: VA

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 390951.33N/0782158.72W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

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 MIN	ALTITUDES MAX	TEMPLATES MIN	MAX
1	W		WP	288.16	108.16	L	10	13000	20000	15	15

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	391214.60N/0784714.90W	3270	6C

## REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST.

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

## REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	FRDMM (RNAV)		1	KDCA	WASHINGTON	DC (US)
STAR	FRDMM (RNAV)		1	KADW	CAMP SPRINGS	MD (US)
STAR	FRDMM (RNAV)		1	KDAA	FORT BELVOIR	VA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 05/24/2018

## REASON FOR REVISION:

CHANGED PAT 1 HOLDING CRS INBOUND FROM 106.16 TO 108.16 AND RAD/CRS/BRG FROM 286.16 TO 288.16 - KDCA MAGVAR UPDATED FROM 9W/1985 TO 11W/2020.

DEVELOPED BY:

DATE: 09/28/2017

OFFICE: AJV-5431

NAME: SEAN BARBEE

APPROVED BY:

DATE:

OFFICE: AJV-5430

NAME: PATRICK MULQUEEN

SIGNATURE:

*Digitally signed by*

**ADOLFO D URRUTIA**

Jan 26, 2018

DISTRIBUTION:

NFDC

FPO: EST

ARTCC: ZDC

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