

RADIO FIX AND HOLDING DATA RECORD

NAME: APPLETON VORTAC **STATE:** OH **COUNTRY:** US **ICAO REGION CODE:** K5
LATITUDE/LONGITUDE: 400903.83N/0823517.88W **TYPE:**
AIRSPACE DOCKET: 20-AEA-18 **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	APPLETON	APE	VORTAC	H							45000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
APE	VORTAC	R-168	78	10000	15800

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	NE	APE	VORTAC	055.00	235.00	R	1		3000	6000	4	5
2	NW	APE	VORTAC	328.00	148.00	L	1		2900	6000	4	5
3	S	APE	VORTAC	202.00	022.00	R	1		3000	6000	4	5
4	SE	APE	VORTAC	114.05	294.05	R	1		3100	6000	4	5
5	S	APE	VORTAC	194.00	014.00	R	1		3000	6000	4	5
6	NE		WP	055.00	235.00	R		4	3000	6000	5	6
7	NW		WP	328.00	148.00	L		4	3000	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (39-000448)	400920.44N/0823650.45W	1568	1D
2	200	TOWER (39-000783)	401344.22N/0823935.43W	1599	5D
3	200	TOWER (39-000448)	400920.44N/0823650.45W	1568	1D
4	200	TOWER (39-000448)	400920.44N/0823650.45W	1568	1D
5	200	TOWER (39-000448)	400920.44N/0823650.45W	1568	1D
6	200	TOWER (39-000448)	400920.44N/0823650.45W	1568	1D
7	200	TOWER (39-000783)	401344.22N/0823935.43W	1599	5D

REASON FOR NONSTANDARD HOLDING:

PAT 2 ATC REQUEST
PAT 7 ATC REQUEST

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:

PRECIPITOUS TERRAIN EVALUTION COMPLETE.
ASSIGNED FACILITY MAGVAR: W6 1990.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	CINCINNATI			KCVG	COVINGTON/CINCINNATI	KY (US)
DP	CAVVS (RNAV)			KBKL	CLEVELAND	OH (US)
DP	CAVVS (RNAV)			KCGF	CLEVELAND	OH (US)
DP	CAVVS (RNAV)			KCLE	CLEVELAND	OH (US)
DP	NCLUS			KCMH	COLUMBUS	OH (US)
DP	NCLUS			KLCK	COLUMBUS	OH (US)
DP	DAYTON			KDAY	DAYTON	OH (US)
DP	CAVVS (RNAV)			KLPR	LORAIN/ELYRIA	OH (US)
DP	CAVVS (RNAV)			KLNN	WILLOUGHBY	OH (US)
EN ROUTE	J178					(US)
EN ROUTE	J186					(US)
EN ROUTE	J30					(US)
EN ROUTE	J83					(US)
EN ROUTE	V144					(US)
EN ROUTE	V19					(US)
EN ROUTE	V38					(US)
EN ROUTE	V493					(US)
EN ROUTE	V5					(US)
IAP	ILS OR LOC RWY 10L		1	KCMH	COLUMBUS	OH (US)
IAP	ILS OR LOC RWY 10R (ALT MISS)		1	KCMH	COLUMBUS	OH (US)
IAP	ILS OR LOC RWY 28L (ALT MISS)		1	KCMH	COLUMBUS	OH (US)
IAP	ILS OR LOC RWY 28R		1	KCMH	COLUMBUS	OH (US)
IAP	ILS RWY 10R (SA CAT I & II) (ALT MISS)		1	KCMH	COLUMBUS	OH (US)
IAP	ILS RWY 28L (SA CAT I & II) (ALT MISS)		1	KCMH	COLUMBUS	OH (US)
IAP	RNAV (GPS) Y RWY 10L		6	KCMH	COLUMBUS	OH (US)
IAP	RNAV (GPS) Y RWY 28R		6	KCMH	COLUMBUS	OH (US)

IAP	RNAV (RNP) Z RWY 10L	6	KCMH	COLUMBUS	OH (US)
IAP	RNAV (RNP) Z RWY 28R	6	KCMH	COLUMBUS	OH (US)
IAP	ILS OR LOC RWY 5L		KLCK	COLUMBUS	OH (US)
IAP	ILS OR LOC RWY 5R		KLCK	COLUMBUS	OH (US)
IAP	ILS RWY 5R (CAT II)		KLCK	COLUMBUS	OH (US)
IAP	ILS RWY 5R (SA CAT I)		KLCK	COLUMBUS	OH (US)
IAP	ILS OR LOC RWY 9R (ALT MISS)	1	KOSU	COLUMBUS	OH (US)
IAP	RNAV (GPS) RWY 27L		KOSU	COLUMBUS	OH (US)
IAP	RNAV (GPS) RWY 9R		KOSU	COLUMBUS	OH (US)
IAP	VOR RWY 28	4	KDLZ	DELAWARE	OH (US)
IAP	RNAV (GPS) RWY 28		KLHQ	LANCASTER	OH (US)
IAP	VOR OR GPS-A	5	KLHQ	LANCASTER	OH (US)
IAP	VOR-A		K4I9	MOUNT GILEAD	OH (US)
IAP	RNAV (GPS) RWY 10		K4I3	MOUNT VERNON	OH (US)
IAP	RNAV (GPS) RWY 28		K4I3	MOUNT VERNON	OH (US)
IAP	VOR-A	3	K4I3	MOUNT VERNON	OH (US)
IAP	LOC RWY 9	2	KVTA	NEWARK	OH (US)
IAP	RNAV (GPS) RWY 27	7	KVTA	NEWARK	OH (US)
IAP	VOR-A	2	KVTA	NEWARK	OH (US)
IAP	ILS OR LOC RWY 22R		KILN	WILMINGTON	OH (US)
IAP	ILS RWY 22R (CAT II & III)		KILN	WILMINGTON	OH (US)
IAP	ILS RWY 22R (SA CAT I)		KILN	WILMINGTON	OH (US)
STAR	REDSTONE		KJVV	JEFFERSONVILLE	IN (US)
STAR	TIGRR (RNAV)		KCVG	COVINGTON	KY (US)
STAR	CINCE		KCVG	COVINGTON/CINCINNATI	KY (US)
STAR	CINCE		KK62	FALMOUTH	KY (US)
STAR	HEDEE		KK62	FALMOUTH	KY (US)
STAR	REDSTONE		KLOU	LOUISVILLE	KY (US)
STAR	REDSTONE		KSDF	LOUISVILLE	KY (US)
STAR	CINCE		KI69	BATAVIA	OH (US)
STAR	HEDEE		KI69	BATAVIA	OH (US)
STAR	CINCE		KLUK	CINCINNATI	OH (US)
STAR	HEDEE		KLUK	CINCINNATI	OH (US)
STAR	BREMN		KCMH	COLUMBUS	OH (US)
STAR	GUNNE		KCMH	COLUMBUS	OH (US)
STAR	BREMN		KLCK	COLUMBUS	OH (US)
STAR	GUNNE		KLCK	COLUMBUS	OH (US)
STAR	BREMN		KOSU	COLUMBUS	OH (US)
STAR	GUNNE		KOSU	COLUMBUS	OH (US)
STAR	BREMN		KTZR	COLUMBUS	OH (US)
STAR	GUNNE		KTZR	COLUMBUS	OH (US)
STAR	DANEI		KDAY	DAYTON	OH (US)
STAR	DANEI		KFFO	DAYTON	OH (US)
STAR	DANEI		KMGY	DAYTON	OH (US)
STAR	CINCE		KHAO	HAMILTON	OH (US)
STAR	HEDEE		KHAO	HAMILTON	OH (US)
STAR	GUNNE		KLHQ	LANCASTER	OH (US)
STAR	DANEI		KMW0	MIDDLETOWN	OH (US)
STAR	GUNNE		KVTA	NEWARK	OH (US)
STAR	DANEI		KSGH	SPRINGFIELD	OH (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 30

DATE OF REVISION: 06/17/2021

REASON FOR REVISION:

1. REMOVED V45 FROM FIX USE.
2. REMOVED LOCKBOURNE DP AT KLCK FROM FIX USE.
3. ADDED 20-AEA-18 TO AIRSPACE DOCKET.
4. ADDED APE ESV.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A433

NAME: KWEKU DONKOR

APPROVED BY:

DATE:

OFFICE: AJV-A430

NAME: LONNIE EVERHART

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: CEN
ARTCC: ZID
ATC FACILITY: CMH APP CON, CMH ATCT
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: KLARC STATE: OH COUNTRY: US ICAO REGION CODE: K5
 LATITUDE/LONGITUDE: 392142.05N/0835951.12W TYPE: RADAR, 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	MRA	MAA
1	MIDWEST	MXQ	VOR/DME	T	250.00	246.00	10.00	10.00	3500	12000
2	DAYTON	DQN	VOR/DME	L	155.64	154.64		43.39	3500	12000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
DQN	VOR/DME	R-156	44	3000	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	W	MXQ	VOR/DME	250.00	070.00	R	1		3500	6000	6	7

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (39-002039)	391423.64N/0840658.62W	1370	2C
1	310	TOWER (39-000020)	392111.00N/0841931.00W	1568	3C

HOLDING RESTRICTIONS:

- HOLDING LIMITED TO ESTABLISHED PATTERN.
 - CLIMB-IN-HOLD EVALUATED PAT 14.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	ILS OR LOC RWY 22R	KILN	WILMINGTON	OH (US)
1	ILS RWY 22R (CAT II & III)	KILN	WILMINGTON	OH (US)
1	ILS RWY 22R (SA CAT I)	KILN	WILMINGTON	OH (US)

REMARKS:

MIDWEST (FAC 1) USED TO ESTABLISH FIX COORDINATES
 PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 22R	1, 2	1	KILN	WILMINGTON	OH (US)
IAP	ILS RWY 22R (CAT II & III)	1, 2	1	KILN	WILMINGTON	OH (US)
IAP	ILS RWY 22R (SA CAT I)	1, 2	1	KILN	WILMINGTON	OH (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4 DATE OF REVISION: 10/10/2019

REASON FOR REVISION:

1. CHANGED HOLDING PAT 1 CONT OBST FROM 1301 TOWER (39-003205) TO 1370 TOWER (39-002039).
2. ADDED RADAR TO FIX TYPE.
3. ADDED ILS RWY 22R (SA CAT I) TO FIX USE.
4. ADDED - HOLDING PATTERN EVALUATED FOR CLIMB-IN-HOLD FROM 3500 TO 6000 AT 310 KTS IN HOLDING RESTRICTIONS.
5. CHANGED FACILITY MRA'S AND HOLDING MIN ALT FROM 3000 TO 3500.

INITIATED BY: DATE: ORGANIZATION: NAME:
 OFFICE OF PRIMARY RESPONSIBILITY: AJV-A422 NAME: ANDRE TUCKER
 APPROVED BY: DATE: 08/06/2019 OFFICE: AJV-A420 NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION: NFDC
 FPO: CEN
 ARTCC: ZID
 ATC FACILITY: DAY, ILN
 OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: MOAKS **STATE:** OH **COUNTRY:** US **ICAO REGION CODE:** K5

LATITUDE/LONGITUDE: 391742.68N/0841145.31W **TYPE:** WP, INT, 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 NM	MRA	MAA
1	CINCINNATI	CVG	VORTAC	L	058.59	054.59	29.00	29.00	3000	17500
2	DAYTON	DQN	VOR/DME	L	168.78	167.78		44.23	3000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
DQN	VOR/DME	R-169	45	3000	17500

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	CVG	VORTAC	058.59	058.59	R	1		3000	6000	6	7
2	SW		WP	238.59	058.59	R		4	3000	6000	5	6
3	NE	CVG	VORTAC	058.59	238.59	R	1		4000	6000	6	7

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (39-002039)	391423.64N/0840658.62W	1370	2C
2	200	TOWER (39-002039)	391423.64N/0840658.62W	1370	2C
3	200	TOWER (39-001729)	392057.00N/0841208.00W	1319	5D

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:

CINCINNATI (FAC 1) AND DAYTON (FAC 2) USED TO ESTABLISH FIX COORDINATES
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V5	1, 2				(US)
IAP	ILS OR LOC RWY 36R	1, 2	1	KCVG	COVINGTON	KY (US)
IAP	ILS RWY 36R (CAT II & III)	1, 2	1	KCVG	COVINGTON	KY (US)
IAP	RNAV (GPS) Y RWY 36R		2	KCVG	COVINGTON	KY (US)
IAP	RNAV (RNP) Z RWY 36R		2	KCVG	COVINGTON	KY (US)
IAP	RNAV (GPS) RWY 21L			KLUK	CINCINNATI	OH (US)
IAP	RNAV (GPS) RWY 5			KMWO	MIDDLETOWN	OH (US)
IAP	ILS OR LOC RWY 22R	1, 2	3	KILN	WILMINGTON	OH (US)
IAP	ILS RWY 22R (CAT II & III)	1, 2	3	KILN	WILMINGTON	OH (US)
IAP	ILS RWY 22R (SA CAT I)	1, 2	3	KILN	WILMINGTON	OH (US)
STAR	GAILL (RNAV)			KCMH	COLUMBUS	OH (US)
STAR	GAILL (RNAV)			KLCK	COLUMBUS	OH (US)
STAR	GAILL (RNAV)			KOSU	COLUMBUS	OH (US)
STAR	GAILL (RNAV)			KTZR	COLUMBUS	OH (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 22

DATE OF REVISION:

REASON FOR REVISION:

FIX USE: DELETED KVTA AND KLHQ FROM THE GAILL STAR.

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

DEVELOPED BY: **DATE:** **OFFICE:** AJV-A442 **NAME:** JOSEPH ZEDER

APPROVED BY: **DATE:** **OFFICE:** AJV-A440 **NAME:** PATRICK MULQUEEN

SIGNATURE:

DISTRIBUTION: NFDC
FPO: CEN
ARTCC: ZID
ATC FACILITY: CVG APP CON, CMH APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: WIZRD **STATE:** OH **COUNTRY:** US **ICAO REGION CODE:** K5

LATITUDE/LONGITUDE: 393428.23N/0833923.11W **TYPE:** WP, RADAR, 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	FAC FEET	MRA	MAA
1	AIRBO	I-ILN	LOC		044.32	037.32		11.89		2600	5500
2	MIDWEST	MXQ	VOR/DME	T			10.98	10.98		2600	5500

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

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH DME	HOLDING ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	NE		WP	044.40	224.40	R	4	3000	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (39-027334)	393852.27N/0834325.22W	1391	1A

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

AIRBO (FAC 1) AND MIDWEST (FAC 2) USED TO ESTABLISH FIX COORDINATES
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 22R	1, 2		KILN	WILMINGTON	OH (US)
IAP	ILS RWY 22R (CAT II & III)	1, 2		KILN	WILMINGTON	OH (US)
IAP	ILS RWY 22R (SA CAT I)	1, 2		KILN	WILMINGTON	OH (US)
IAP	RNAV (GPS) RWY 22R		1	KILN	WILMINGTON	OH (US)
IAP	RNAV (GPS) RWY 4L		1	KILN	WILMINGTON	OH (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5 **DATE OF REVISION:** 06/17/2021

REASON FOR REVISION:

UPDATED FAC 1: CHANGED MAG BRG FROM 43.32 TO 44.32.
HOLDING PAT 1 OUTBOUND CRS/INBOUND CRS CHANGED FROM 041.40/221.40 TO 44.40/224.40.

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

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A431 **NAME:** KELLY DEAN

APPROVED BY: **DATE:** **OFFICE:** AJV-A430 **NAME:** LONNIE EVERHART

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZID
ATC FACILITY: ILN ATCT
OTHER: