

RADIO FIX AND HOLDING DATA RECORD

INFORMATION ONLY

NAME: ETBUY STATE: NC COUNTRY: US ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 350648.43N/0792925.22W TYPE: WP

AIRSPACE DOCKET: FIX TYPE OF ACTION: ESTABLISH

FIX USE:	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
USE TYPE						
STAR	MALNR (RNAV)			KRDU	RALEIGH/DURHAM	NC (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG DATE OF REVISION: 01/10/2013

INITIATED BY:	DATE:	ORGANIZATION:	NAME:
DEVELOPED BY:	DATE: 08/02/2012	OFFICE: AJV-352	NAME: PETER GUIMOND
APPROVED BY:	DATE: 11/14/2012	OFFICE: AJV-352	NAME: DARRYEL ADAMS

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: FLORENCE VORTAC

STATE: SC

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 341358.69N/0793925.78W

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	FLORENCE	FLO	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	SW	FLO	VORTAC	215.00	035.00	R	1		10000	45000	9	29
2	SE	FLO	VORTAC	140.00	320.00	R	1		2000	6000	4	5
3	SE	FLO	VORTAC	140.00	320.00	L	1		6000	31000	5	23
4	SE	WP	WP	135.38	315.38	L		10	13000	18000	15	17

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	TOWER (45-000081)	341618.00N/0794333.00W	948	1A
2	200	TOWER (45-000674)	341116.00N/0793116.00W	575	5E
3	200	TOWER (45-000081)	341618.00N/0794333.00W	948	1A
4	230	TOWER (45-000081)	341618.00N/0794333.00W	948	1A

REASON FOR NONSTANDARD HOLDING:

PAT 3 ATC REQUEST

PAT 4 ATC REQUEST

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

10NM LEG LENGTH REQUESTED BY ATC.

MAG VAR W03/1965.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	KNIGHTS			KVUJ	ALBEMARLE	NC (US)
DP	CHARLOTTE			KCLT	CHARLOTTE	NC (US)
DP	KNIGHTS			KCLT	CHARLOTTE	NC (US)
DP	KNIGHTS			KJQF	CONCORD	NC (US)
DP	MOUNTY			KFAY	FAYETTEVILLE	NC (US)
DP	KNIGHTS			KAKH	GASTONIA	NC (US)
DP	HICKORY (OBSTACLE)			KHKY	HICKORY	NC (US)
DP	KNIGHTS			KIPJ	LINCOLNTON	NC (US)
DP	KNIGHTS			KEQY	MONROE	NC (US)
DP	KNIGHTS			KRUQ	SALISBURY	NC (US)
DP	KNIGHTS			KLKR	LANCASTER	SC (US)
DP	KNIGHTS			KUZA	ROCK HILL	SC (US)
EN ROUTE	J207		1			(US)
EN ROUTE	J55					(US)
EN ROUTE	V139					(US)
EN ROUTE	V157					(US)
EN ROUTE	V259					(US)
EN ROUTE	V3					(US)
EN ROUTE	V437					(US)
EN ROUTE	V56					(US)
IAP	ILS OR LOC/DME RWY 4			KFAY	FAYETTEVILLE	NC (US)
IAP	LOC BC RWY 22			KFAY	FAYETTEVILLE	NC (US)
IAP	VOR RWY 22			KFAY	FAYETTEVILLE	NC (US)
IAP	VOR RWY 28			KFAY	FAYETTEVILLE	NC (US)
IAP	VOR RWY 4			KFAY	FAYETTEVILLE	NC (US)
IAP	ILS OR LOC RWY 5			KLBT	LUMBERTON	NC (US)
IAP	ILS OR LOC RWY 5			KMEB	MAXTON	NC (US)
IAP	NDB RWY 7			KBBP	BENNETTSVILLE	SC (US)
IAP	NDB RWY 23			KUDG	DARLINGTON	SC (US)
IAP	RNAV (GPS) RWY 5			KUDG	DARLINGTON	SC (US)
IAP	VOR-A		2	KUDG	DARLINGTON	SC (US)
IAP	VOR/DME OR GPS RWY 7			KDLC	DILLON	SC (US)
IAP	ILS OR LOC RWY 9			KFLO	FLORENCE	SC (US)
IAP	RNAV (GPS) RWY 27			KFLO	FLORENCE	SC (US)
IAP	RNAV (GPS) RWY 9			KFLO	FLORENCE	SC (US)
IAP	VOR OR TACAN-A			KFLO	FLORENCE	SC (US)
IAP	VOR/DME-A			KMAO	MARION	SC (US)
IAP	ILS OR LOC RWY 23			KSMS	SUMTER	SC (US)
STAR	STWRT			KAGS	AUGUSTA	GA (US)

STAR	KABEE (RNAV)	4	KVUJ	ALBEMARLE	NC (US)
STAR	RASLN	3	KCLT	CHARLOTTE	NC (US)
STAR	KABEE (RNAV)	4	KJQF	CONCORD	NC (US)
STAR	RASLN	3	KAKH	GASTONIA	NC (US)
STAR	BLOCC		KGSO	GREENSBORO	NC (US)
STAR	RASLN	3	KIPJ	LINCOLNTON	NC (US)
STAR	RASLN	3	KEQY	MONROE	NC (US)
STAR	BUZZY		KRDU	RALEIGH/DURHAM	NC (US)
STAR	KABEE (RNAV)	4	KRUQ	SALISBURY	NC (US)
STAR	RASLN	3	KEHO	SHELBY	NC (US)
STAR	KABEE (RNAV)	4	KSVH	STATESVILLE	NC (US)
STAR	RASLN	3	KAFP	WADESBORO	NC (US)
STAR	RASLN	3	KN52	WAXHAW	NC (US)
STAR	RASLN	3	KDCM	CHESTER	SC (US)
STAR	RASLN	3	KLKR	LANCASTER	SC (US)
STAR	RASLN	3	KUZA	ROCK HILL	SC (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 24

DATE OF REVISION: 05/21/2020

REASON FOR REVISION:

DELETED FAYETTEVILLE DP FROM FIX USE - FAYETTEVILLE DP IS BEING CANCELLED.
DELETED MALNR STAR AT KRDU FROM FIX USE - FACILITY NO LONGER USED ON PROCEDURE.

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

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A431 **NAME:** ROBERT GRIM

APPROVED BY: **DATE:** **OFFICE:** AJV-A430 **NAME:** GEORGE DAVIS

SIGNATURE:

DISTRIBUTION: **NFDC**
 FPO: EST
 ARTCC: ZJX
 ATC FACILITY: FLO APP CON
 OTHER:

RADIO FIX AND HOLDING DATA RECORD

INFORMATION ONLY

NAME: FRETO

STATE: NC

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 355329.07N/0785240.61W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE:
USE TYPE
STAR

USE TITLE
MALNR (RNAV)

FAC

PAT

AIRPORT IDENT
KRDU

CITY
RALEIGH/DURHAM

STATE
NC (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 09/23/2010

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 02/04/2010

OFFICE: AVN-110

NAME: JILL OLSON

APPROVED BY:

DATE: 08/09/2010

OFFICE: AVN-110

NAME: GEORGE DAVIS

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: EST
ARTCC: ZDC
ATC FACILITY: RDU APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: HOGIL

STATE: NC

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 345719.40N/0793113.93W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE:
USE TYPE
STARUSE TITLE
MALNR (RNAV)

FAC

PAT

AIRPORT IDENT
KRDUCITY
RALEIGH/DURHAMSTATE
NC (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 01/10/2013

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 08/02/2012

OFFICE: AJV-352

NAME: PETER GUIMOND

APPROVED BY:

DATE: 11/14/2012

OFFICE: AJV-352

NAME: DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: EST
ARTCC: ZDC
ATC FACILITY: RDU APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: LEZZY

STATE: NC

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 355157.13N/0783900.78W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
IAPUSE TITLE
RNAV (RNP) Z RWY 23L

FAC

PAT

AIRPORT IDENT
KRDUCITY
RALEIGH/DURHAMSTATE
NC (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 05/21/2020

REASON FOR REVISION:

1. FIX MOVED 0.16 NM SOUTHWEST. ATC RETAINS FIX USE FOR OPERATIONAL ADVANTAGE.
2. FIX USE: REMOVED STAR MALNR (RNAV) AT KRDU.
3. CHARTING: REMOVED STAR.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: BARBARA GORMAN

APPROVED BY:

DATE:

OFFICE: AJV-A430

NAME: LONNIE EVERHART

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: EST
ARTCC: ZDC
ATC FACILITY: RDU APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

INFORMATION ONLY

NAME: OTTOS

STATE: NC

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 353900.81N/0790719.59W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 5L			KRDU	RALEIGH/DURHAM	NC (US)
IAP	ILS OR LOC RWY 5R			KRDU	RALEIGH/DURHAM	NC (US)
IAP	ILS RWY 5R (SA CAT I/II)			KRDU	RALEIGH/DURHAM	NC (US)
IAP	RNAV (GPS) Y RWY 5L			KRDU	RALEIGH/DURHAM	NC (US)
IAP	RNAV (GPS) Y RWY 5R			KRDU	RALEIGH/DURHAM	NC (US)
IAP	RNAV (RNP) Z RWY 5L			KRDU	RALEIGH/DURHAM	NC (US)
IAP	RNAV (RNP) Z RWY 5R			KRDU	RALEIGH/DURHAM	NC (US)
STAR	MALNR (RNAV)			KRDU	RALEIGH/DURHAM	NC (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 05/21/2020

REASON FOR REVISION:

FIX MOVED 1.29 NM SW. ATC RETAIN FIX NAME FOR OPERATIONAL ADVANTAGE.

ADDED:ILS OR LOC RWY 5L, ILS OR LOC RWY 5R,ILS RWY 5R (SA CAT I/II),RNAV (GPS) Y RWY 5L, RNAV (GPS) Y RWY 5R TO FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: THERON CYRUS

APPROVED BY:

DATE:

OFFICE: AJV-A430

NAME: LONNIE EVERHART

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: EST
ARTCC: ZDC
ATC FACILITY: RDU APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

INFORMATION ONLY

NAME: SMIRF

STATE: NC

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 351223.01N/0793401.98W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE:
USE TYPE
STAR

USE TITLE
MALNR (RNAV)

FAC

PAT

AIRPORT IDENT
KRDU

CITY
RALEIGH/DURHAM

STATE
NC (US)

REQUIRED CHARTING: STAR, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 01/05/2017

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 08/31/2016

OFFICE: AJV-5431

NAME: DAVID DOWLING

APPROVED BY:

DATE: 11/08/2016

OFFICE: AJV-5410

NAME: GEORGE DAVIS

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: EST
ARTCC: ZDC
ATC FACILITY: RDU APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: WISPY		STATE: NC		COUNTRY: US		ICAO REGION CODE: K7	
LATITUDE/LONGITUDE: 353756.34N/0791030.99W				TYPE: WP			
AIRSPACE DOCKET:				FIX TYPE OF ACTION: ESTABLISH			
FIX USE:	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE	
STAR	MALNR (RNAV)			KRDU	RALEIGH/DURHAM	NC (US)	

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 01/10/2013

INITIATED BY:	DATE:	ORGANIZATION:	NAME:
DEVELOPED BY:	DATE: 08/02/2012	OFFICE: AJV-352	NAME: PETER GUIMOND
APPROVED BY:	DATE: 11/14/2012	OFFICE: AJV-352	NAME: DARRYEL ADAMS
SIGNATURE:			

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