US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

TERMINAL ROUTES

FROM	TO	COURSE AND DISTANCE	ALTITUDE
MUTSE (IAF)	PECIT (NOPT) (FB)	322.12 / 10.00	3400
FOGAP (IAF)	PECIT (NOPT) (FB)	141.95 / 10.58	3400
PECIT (IF/IAF)	PURME (FB)	052.04 / 5.96	2400
PURME (FAF)	RW05R (MAP) (FO)	052.09 / 6.12	
RW05R (MAP)	597 MSL	052.09	
597 MSL	POBIC (FB)		
POBIC	ZEBUL (FO)	097.48 / 17.12	2600

MISSED APPROACH

LPV: DA
LNAV/VNAV: DA
LNAV: RW05R

CLIMB TO 2600 DIRECT POBIC AND ON TRACK 097.48 TO ZEBUL AND HOLD.

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. HOLD SW PECIT, RT, 052.04 INBOUND, 3400 FT. IN LIEU OF PT (IAF)
3. FAC: 052.09 FAF: PURME DIST FAF TO MAP: 6.12 THLD: 6.12
4. MIN. ALT: PECIT 3400, PURME 2400
5. DIST TO THLD FROM OM: ____ MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____
6. MIN GS INCPT: 2400 GS ALT AT: PURME 2400 OM: ____ MM: ____ IM: ____
7. GS ANGLE: 3.00 TCH: 55.2 34:1 IS CLEAR
8. MSA FROM:

ADDITIONAL FLIGHT DATA:
HOLD E, RT, 269.06 INBOUND.
CHART FAS OBST: 487 TREE 355143N/0784742W
FAS OBST: 629 AAO 354720N/0785213W
DISTANCE TO THLD FROM 200 HATH: 0.45 NM.
CHART VDP AT 1.41 MILES TO RW05R*
*LNAV ONLY.
WAAS CHANNEL # 90213
REFERENCE PATH ID: W05B
LTP HAE: 89.1 M

MAG VAR: 7W EPOCH YEAR: 1985

MINIMUMS

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT ALTERNATE: N A STANDARD

CATEGORY =====>	A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LPV DA	597	2400	200	597	2400	200	597	2400	200	597	2400	200			
LNAV/VNAV DA	667	2400	270	667	2400	270	667	2400	270	667	2400	270			
LNAV MDA	900	2400	503	900	2400	503	900	5500	503	900	5500	503			
CIRCLING	960	1	525	960	1	525	960	1 1/2	525	1060	2	625			

NOTES:
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (5F) OR ABOVE 41C (105F).
CHART NOTE: DME/DME RNP-0.3 NA.
CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH ILS OR LOC RWY 5L, RNAV (GPS) Y RWY 5L, RNAV (RNP) Z RWY 5L.
(SEE FORM 8260-10)

QUALITY & CHECKED

CITY AND STATE	ELEVATION: 435 THRE: 397	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
RALEIGH/DURHAM, NC	AIRPORT NAME: RALEIGH-DURHAM INTL	RNAV	RNAV (GPS) Y RWY 5R, AMDT 2	AMDT: 1A
				DATED 03/08/2012

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
[ ] YES [X] NO		CONCURRENT

COORDINATED WITH:

ATA	AAT	ALPA	APA	AOPA	NBAA	OTHER (specify)
X		X	X	X	X	X AIRPORT MANAGER, ZDC, RDU ATC

FLIGHT CHECKED BY		
NAME: CURT ELISON DRAPER	FIFO FIOG	DATE: 03/07/2012
DEVELOPED BY		
NAME: KELLY DEAN	FIFO AJV-352	DATE: 09/14/2011
APPROVED BY		
NAME: DARRYEL ADAMS MANAGER	FIFO AJV-352	DATE:

CHANGES:

1. FINAL DISTANCE INCREASED FROM 6.01 TO 6.12; FAF TO THLD/MAP UPDATED.
2. MISSED TRACK FROM POBIC TO ZEBUL CHANGED FROM 095 TO 097.
3. LPV DA CHANGED FROM 620 TO 597 ALL CATS.
4. LNAV/VNAV DA CHANGED FROM 782 TO 667 ALL CATS.
5. LNAV/VNAV VISIBILITY CHANGED FROM 4000 TO 2400 ALL CATS.
6. LNAV CATS C/D VISIBILITY CHANGED TO 5500.
7. ADDED INOPERATIVE NOTE.
8. TDZE REFERENCE CHANGED TO THRE.
9. ADDED SIMULTANEOUS OPERATIONS NOTES.

REASONS:

1. PFAF MOVED TO LNAV/VNAV PFAF LOCATION.
2. MIN SEG LENGTH NOT PREVIOUSLY MET.
3., 4. CALCULATION CHANGED FROM TDZE TO THRE.
5., 6. TERPS CHANGE 20 VOLUME 1, CHAP 3 APPLIED.
7. ADJUSTMENT NO LONGER STANDARD.
8. HATH APPLIED INSTEAD OF HAT.
9. ATC DIRECTED DUE TO KRDU BEING CONSIDERED DEPENDENT FOR SEPARATION.

3/12/2012 THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 09/14/2011.
ADDED SIMULTANEOUS APPROACH AUTHORIZATION NOTES.

EFFECTIVE CONCURRENT WITH: KRDU ILS OR LOC RWY 5R, AMDT 28

QUALITY CHECKED

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NOTES, (CONT.):
CHART NOTE: USE OF FD OR AP PROVIDING RNAV TRACK GUIDANCE REQUIRED DURING SIMULTANEOUS OPERATIONS.
CHART NOTE: LNAV PROCEDURE NA DURING SIMULTANEOUS OPERATIONS.
CHART NOTE: FOR INOPERATIVE MALSR, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO RVR 4500 AND LNAV CATS C/D VISIBILITY TO 1 3/8 MILE.

TAA

	FROM	TO	ALT
1.	322/30 CW 142/30 (NOPT)	PECIT (IF/IAF) (FB)	3400
2.	142/30 CW 232/30	FOGAP (IAF) (FB)	3400
3.	232/30 CW 322/30	MUTSE (IAF) (FB)	3400

QUALITY CHECKED 4

CITY AND STATE	ELEVATION: 435 THRE: 397	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
RALEIGH/DURHAM, NC	AIRPORT NAME: RALEIGH-DURHAM INTL	RNAV	RNAV (GPS) Y RWY 5R, AMDT 2	AMDT: 1A
				DATED: 03/08/2012

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
☐ YES ☐ NO		

COORDINATED WITH:

ATA	AAT	ALPA	APA	AOPA	NBAA	OTHER (specify)
☐	☐	☐	☐	☐	☐	☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	FIFO	DATE:
APPROVED BY		
NAME:	FIFO	DATE:

CHANGES:

REASONS:

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above aiport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KRDU
RUNWAY	RW05R
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W05B
LTP/FTP LATITUDE	355152.6680N
LTP/FTP LONGITUDE	0784750.4180W
LTP/FTP ELLIPSOIDAL HEIGHT	+00891
FPAP LATITUDE	355255.6000N
FPAP LONGITUDE	0784632.7000W
THRESHOLD CROSSING HEIGHT (TCH)	00055.2
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0464
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	8EEAB43D

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+01211
FPAP ORTHOMETRIC HEIGHT	+01211

QUALITY A CHECKED

CITY AND STATE	ELEVATION: 435 THRE: 397	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
RALEIGH/DURHAM, NC	AIRPORT NAME: RALEIGH-DURHAM INTL	RNAV	RNAV (GPS) Y RWY 5R, AMDT 2	AMDT: 1A
				DATED: 03/08/2012

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
☐ YES ☐ NO		

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	FIFO	DATE:
APPROVED BY		
NAME:	FIFO	DATE:

CHANGES:

REASONS:

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ARINC PACKET - 424-18 - RNAV (GPS)

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                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        --------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   FOGAP K70    W     N35504959W079073292                    W0087     NAR           FOGAP
        SUSAEAENRT   MUTSE K70    W     N35361468W078494147                    W0089     NAR           MUTSE
        SUSAEAENRT   PECIT K70    C   L N35432019W078582139                    W0088     NAR           PECIT
        SUSAEAENRT   POBIC K70    W     N35545487W078440528                    W0090     NAR           POBIC
        SUSAEAENRT   PURME K70    C     N35473336W078531011                    W0089     NAR           PURME
        SUSAEAENRT   ZEBUL K70    C   L N35544433W078230047                    W0093     NAR           ZEBUL

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        --------------------------------------------------------------------------------------------------------------------------------
        SUSAP KRDUK7ARDU     0     100YHN35523950W078471490W007000435         1800018000C    MNAR    RALEIGH-DURHAM INTL           I

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        --------------------------------------------------------------------------------------------------------------------------------
        SUSAP KRDUK7FR05RY AFOGAP 010FOGAPK7EA0E  A    IF                                          18000                A JS
        SUSAP KRDUK7FR05RY AFOGAP 020PECITK7EA0EE B 010TF                    14200106    + 03400                         A JS
        SUSAP KRDUK7FR05RY AMUTSE 010MUTSEK7EA0E  A    IF                                          18000                A JS
        SUSAP KRDUK7FR05RY AMUTSE 020PECITK7EA0EE B 010TF                    32210100    + 03400                         A JS
        SUSAP KRDUK7FR05RY APECIT 010PECITK7EA0EE AR   HF                    05200040    + 03400     18000               A JS
        SUSAP KRDUK7FR05RY R      010PECITK7EA0E  I    IF                                + 03400     18000               A JS
        SUSAP KRDUK7FR05RY R      020PURMEK7EA1E  F 051TF                    05200060    + 02400                         A JS
        SUSAP KRDUK7FR05RY R      020PURMEK7EA2WALPV       ALNAV/VNAV ALNAV                                                JS
        SUSAP KRDUK7FR05RY R      030RW05RK7PG0GY M 031TF                    05210061      00453             -300          A JS
        SUSAP KRDUK7FR05RY R      040         0  M     CA                    0521        + 00597                         A JS
        SUSAP KRDUK7FR05RY R      050POBICK7EA0E       DF                                                                A JS
        SUSAP KRDUK7FR05RY R      060ZEBULK7EA0EY   010TF                    0975        + 02600                         A JS
        SUSAP KRDUK7FR05RY R      070ZEBULK7EA0EE  R   HM                    26910040    + 02600                         A JS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        --------------------------------------------------------------------------------------------------------------------------------
        SUSAP KRDUK7GRW05R   0075000521 N35515267W078475042+0400    +0089100397000055150I
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QUALITY 4 CHECKED

CITY AND STATE	ELEVATION: 435 THRE: 397	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
RALEIGH/DURHAM, NC	AIRPORT NAME: RALEIGH-DURHAM INTL	RNAV	RNAV (GPS) Y RWY 5R, AMDT 2	AMDT: 1A
				DATED: 03/08/2012

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
☐ YES ☐ NO		

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	FIFO	DATE:
APPROVED BY		
NAME:	FIFO	DATE:

CHANGES:

REASONS:

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
PP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KRDUK7PR05RY RW05R001Y0000W05B0N3551526680W07847504180+008910300N3552556000W07846327000106750464000552F4003508EEAB43DI
        SUSAP KRDUK7PR05RY RW05R002E      +01211+01211LPV       90213
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QUALITY CHECKED

CITY AND STATE	ELEVATION: 435 THRE: 397	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
RALEIGH/DURHAM, NC	AIRPORT NAME: RALEIGH-DURHAM INTL	RNAV	RNAV (GPS) Y RWY 5R, AMDT 2	AMDT: 1A
				DATED: 03/08/2012

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
☐ YES ☐ NO		

COORDINATED WITH:

ATA	AAT	ALPA	APA	AOPA	NBAA	OTHER (specify)
☐	☐	☐	☐	☐	☐	☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	FIFO	DATE:
APPROVED BY		
NAME:	FIFO	DATE:

CHANGES:

REASONS:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33

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ARINC FLIGHT INSPECTION SUMMARY - VERSION 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE
	FOGAP	FOGAP	010	IAF	IF						
	FOGAP	PECIT	020	IF	TF		FB	1.0	142.0(135.0T)	010.6	03400
	MUTSE	MUTSE	010	IAF	IF						
	MUTSE	PECIT	020	IF	TF		FB	1.0	322.1(315.1T)	010.0	03400
	PECIT	PECIT	010	IAF	HF	R	FO		052.0(045.0T)	004.0	03400
		PECIT	010	FACF	IF						03400
		PURME	020	FAF	TF		FB	0.5	052.0(045.0T)	006.0	02400
		RW05R	030	MAP	TF		FO	0.3	052.1(045.1T)	006.1	00453

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE
		040		CA				052.1(045.1T)		00597
	POBIC	050		DF		FB				
	ZEBUL	060		TF		FO	1.0	097.5(090.5T)		02600
	ZEBUL	070		HM	R	FO		269.1(262.1T)	004.0	02600

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	FOGAP	N355049.59	W0790732.92	N3550.827	W07907.549
	MUTSE	N353614.68	W0784941.47	N3536.245	W07849.691
	PECIT	N354320.19	W0785821.39	N3543.337	W07858.357
	POBIC	N355454.87	W0784405.28	N3554.915	W07844.088
	PURME	N354733.36	W0785310.11	N3547.556	W07853.169
	ZEBUL	N355444.33	W0782300.47	N3554.739	W07823.008
	RW05R	N355152.67	W0784750.42	N3551.878	W07847.840

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW05R	00397	55

QUALITY CHECKED

CITY AND STATE	ELEVATION: 435 THRE: 397	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
RALEIGH/DURHAM, NC	AIRPORT NAME: RALEIGH-DURHAM INTL	RNAV	RNAV (GPS) Y RWY 5R, AMDT 2	AMDT: 1A
				DATED: 03/08/2012

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
☐ YES ☐ NO		

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	FIFO	DATE:
APPROVED BY		
NAME:	FIFO	DATE:

CHANGES:

REASONS:

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
STRAIGHT-IN AREA	322/30 CW 142/30	PECIT	1. TOWER (37-001034)	353044.00N/0785841.00W	2149 (3C)	1000	AT251	3400
			2. TERRAIN	355651.00N/0792606.00W	991 (1000)		AS1500	2500
LEFT BASE AREA	142/30 CW 232/30	FOGAP	3. TOWER (37-000083)	355200.00N/0791000.00W	2049 (2C)	1000	AT351	3400
			4. TERRAIN	361445.00N/0792451.00W	936 (900)		AS1500	2400
RIGHT BASE AREA	232/30 CW 322/30	MUTSE	5. TOWER (37-002504)	354029.00N/0783139.00W	2349 (1A)	1000		3400
			6. TERRAIN	354636.00N/0784700.00W	562 (600)		AS1500	2000
INITIAL	MUTSE	PECIT	7. TOWER (37-000061)	353642.00N/0784825.00W	832 (5D)	1000	AT1568	3400
			8. TERRAIN	353803.00N/0785106.00W	509 (500)		AS1500	2000
INITIAL	FOGAP	PECIT	9. AAO	355130.00N/0790509.00W	870 (4E)	1000	AT1530	3400
			10. TERRAIN	355130.00N/0790509.00W	670 (700)		AS1500	2200
INTERMEDIATE	PECIT (IF/IAF)	PURME	11. AAO	354327.00N/0785236.00W	663 (4E)	500	AC98 AT1139	2400
			12. TERRAIN	334327.00N/0785236.00W	463 (500)		AS1500	2000
FINAL: LPV	PURME	RW05R				ASC		597/200
FINAL: LNAV/VNAV	PURME	RW05R	13. TREE (KRDU0072)	355143.18N/0784742.03W	487 (1A)	PDA	MA19	667/270
2. HOLD-IN-LIEU-OF-PT	PECIT	P-5	15. CL TWR (37-000881)	353805.00N/0785704.00W	786 (5D)	1000	AT1614	3400
			16. TERRAIN	354403.00N/0790400.00W	499 (500)		AS1500	2000
3. MISSED APPROACH — MAP:	DA / DA / RW05R	ZEBUL	17. C-TWR (37-001244)	355252.00N/0784709.00W	660 (1A)	ASC		2600
			18. TOWER (37-001488)	355626.00N/0782844.00W	1549 (5D)		AC50	1600
ELEV:	429/506/794		19. TERRAIN	355546.11N/0784418.36W	549 (500)		AS1500	2000

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL								
CATEGORY A	1.3 NM	350	525	17. C-TWR (37-001244)	355252.00N/0784709.00W	660 (1A)	300		960
CATEGORY B	1.5 NM	450	525	17. C-TWR (37-001244)	355252.00N/0784709.00W	660 (1A)	300		960
CATEGORY C	1.7 NM	450	525	17. C-TWR (37-001244)	355252.00N/0784709.00W	660 (1A)	300		960
CATEGORY D	2.3 NM	550	625	20. TANK (37-002936)	355507.53N/0784438.02W	680 (4D)	300	XP30 AC50	1060
CATEGORY E	4.5 NM	550							

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID:

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	MSA

CITY AND STATE	ELEVATION: 435 / AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
RALEIGH/DURHAM, NC	RALEIGH-DURHAM INTL	RNAV	RNAV (GPS) Y RWY 5R, AMDT 2	ASO

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE			3. ALTIMETER SETTING
RDU APP CON RDU TOWER ZDC ARTCC		N W S	OTHER: ASOS	SOURCE: KRDU
		F A A		DISTANCE:
		A / C		HOURS REMOTE OPERATION:
SATISFACTORY ON:				
X V H F X U H F H F	LOCATION: KRDU			ADJUSTMENT: 0

4. MONITOR STATUS	PRIMARY NAVAID:	
	MONITOR POINT:	
	HRS OPTN:	CAT 1
		CAT 3
5. APPROACH & RUNWAY LIGHTING	X	ALSF-2 23R
		(S) SALS
	X	MALSR 05R, 05L, 23L
	X	HIRL 05R, 05L, 23R, 23L
	X	MIRL 14, 32
	X	REIL 32
	X	TDZ 05L, 23R, 23L
	X	C/L 05R, 05L, 23R, 23L
	X	OTHER (SPECIFY) TAXI WAY 05L PAPI-4L 05R, 05L, 23R, 23L, 32
6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	PIR-G 05R, 05L, 23R, 23L
	INSTRUMENT	NPI-G 14, 32
7. RUNWAY VISUAL RANGE	APPROACH	05R, 05L, 23R, 23L
	MIDFIELD	05L, 23R
	ROLL OUT	05R, 05L, 23R, 23L
8. GLIDE PATH	GP ANGLE: 3.00	ELEV RWY THRESHOLD: 397.4
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT: 55.2
9. FINAL APPROACH COURSE AIMING	X	RUNWAY THRESHOLD FT. FROM THRESHOLD
	X	ON CENTERLINE FT. FROM CENTERLINE

10. WAIVERS: NONE

PART D - PREPARED BY: KELLY DEAN	DATE: 09/14/2011
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-352

PART C - REMARKS:

VGSI DATA: 3.00/55

SEE ATTACHED AIRSPACE LETTER.

BACK UP ALTIMETER SOURCE NOT DEVELOPED DUE TO REDUNDANT SOURCES AT KRDU.

ISA STANDARD (-30) UTILIZED DUE TO HISTORCIAL DATA NOT AVAILABLE ON WEB SITE.

IAPA CALCULATES INTERMEDIATE SEGMENT LEG LENGTH PER 8260.54. IAPA CALCULATES INITIAL TO INTERMEDIATE DTA AS 4.78 UTILIZING 3890 AS TF-TF CALCULAITON ALTITUDE. MIN SEG LENGTH PER PBN MEMO IS 4.78. 19 DEGREE BANK ANGLE WITH 6390 TF-TF CALCULATION ALTITUDE UTILIZED, PER PBN MEMO, TO EVALUATE 90 DEGREE TURN AT MUTSE IAF TO REMAIN UNDER 10 NM.

INITIAL LEG LENGTHS FOR TAA BASED ON FUTURE DEVELOPMENT OF RNAV STARS. DISCUSSION WITH 101 AND 110 MANAGMENT RESULTED IN KEEPING LAST COMPUTED LEG LENGTH WHICH EXCEEDED THE 8260.45 MAXIMUM OF 10NM BY .58NM USING DOWNWINDS FURTHER FROM THE PARALLEL RUNWAY.

XP - MAINTAIN CURRENT MINIMUMS TO BE CONSISTENT WITH OTHER APPROACHES

3/12/2012 THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 09/14/2011.
PER BRAD RUSH KRDU ATCT DIRECTED SIMULTANEOUS OPERATION NOTES. ATC AGREES TO MAINTAIN SEPARATION OF AIRCRAFT AS DEPENDENT CRITERIA IS UTILIZED.

QUALITY CHECKED

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
FINAL: LNAV	PURME	RW05R	14. AAO	354720.22N/0785213.00W	629 (2C)	250	XL6	900

3. MISSED APPROACH									
	MAP:								
	ELEV:								

4. CIRCLING AREA	DISTANCE		HT. ABV. ARPT.		
CATEGORY A	1.3 NM	REQUIRED	350	ACTUAL	
CATEGORY B	1.5 NM		450		
CATEGORY C	1.7 NM		450		
CATEGORY D	2.3 NM		550		
CATEGORY E	4.5 NM		550		

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID:

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A

QUALITY CHECKED

CITY AND STATE		FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
RALEIGH/DURHAM, NC	ELEVATION: 435 AIRPORT NAME: RALEIGH-DURHAM INTL	RNAV	RNAV (GPS) Y RWY 5R, AMDT 2	ASO

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE			3. ALTIMETER SETTING
SATISFACTORY ON:		N W S	OTHER:	SOURCE:
		F A A		DISTANCE:
		A / C		HOURS REMOTE OPERATION:
V H F / U H F / H F	LOCATION:			ADJUSTMENT:

4. MONITOR STATUS	PRIMARY NAVAID:	
	MONITOR POINT:	
	HRS OPTN: CAT 1	
	HRS OPTN: CAT 3	
5. APPROACH & RUNWAY LIGHTING		**ALS**
		(S) SALS
		MALS
		HIRL
		MIRL
		REIL
		TDZ
		C/LINE
		OTHER (SPECIFY)
6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	
	INSTRUMENT	
7. RUNWAY VISUAL RANGE	APPROACH	
	MIDFIELD	
	ROLL OUT	
8. GLIDE PATH	GP ANGLE:	ELEV RWY THRESHOLD:
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT:
9. FINAL APPROACH COURSE AIMING	RUNWAY THRESHOLD	FT. FROM THRESHOLD
	ON CENTERLINE	FT. FROM CENTERLINE

10. WAIVERS:

PART D - PREPARED BY:	DATE:
TITLE:	OFFICE:

PART C - REMARKS:

RADIO FIX AND HOLDING DATA RECORD

NAME: POBIC **STATE:** NC **COUNTRY:** US

LATITUDE/LONGITUDE: 355454.87N/0784405.28W **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	RNAV (GPS) Y RWY 5R			KRDU	RALEIGH/DURHAM	NC (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 04/05/2012

REASON FOR REVISION:
FIX MOVED 1.3NM NE.

DEVELOPED BY: **DATE:** 09/12/2011 **OFFICE:** AJV-352 **NAME:** KELLY DEAN

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZDC
ATC FACILITY: RDU ATCT
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: PURME **STATE:** NC **COUNTRY:** US

LATITUDE/LONGITUDE: 354733.36N/0785310.11W **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	DIST FROM FAC FEET	MRA	MAA
1	RALEIGH/DURHAM	I-RDU	LOC		232.14	225.14		7.52	45675	2400	4900
2	RALEIGH/DURHAM	RDU	VORTAC	H			6.93	6.93	42132	2400	4900

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 5R	1, 2		KRDU	RALEIGH/DURHAM	NC (US)
IAP	RNAV (GPS) Y RWY 5R			KRDU	RALEIGH/DURHAM	NC (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 04/05/2012

REASON FOR REVISION:
FIX MOVED 0.10NM SW.
UPDATED FAC 1 AND FAC 2 DME AND DISTANCE.

DEVELOPED BY: **DATE:** 09/09/2011 **OFFICE:** AJV-352 **NAME:** KELLY DEAN

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

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

QUALITY 4 CHECKED

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: FOGAP **STATE:** NC **COUNTRY:** US

LATITUDE/LONGITUDE: 355049.59N/0790732.92W **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	RNAV (GPS) Y RWY 5L			KRDU	RALEIGH/DURHAM	NC (US)
IAP	RNAV (GPS) Y RWY 5R			KRDU	RALEIGH/DURHAM	NC (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 08/27/2009

REASON FOR REVISION:
FIX MOVED .58NM TO ALIGN WITH INTERMEDIATE SEGMENT

DEVELOPED BY: **DATE:** 01/26/2009 **OFFICE:** AVN-110 **NAME:** TONY LAWSON

APPROVED BY: **DATE:** 07/14/2009 **OFFICE:** AVN-110 **NAME:** PETER GETZ

SIGNATURE:

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

QUALITY CHECKED

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: MUTSE **STATE:** NC **COUNTRY:** US

LATITUDE/LONGITUDE: 353614.68N/0784941.47W **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	RNAV (GPS) Y RWY 5L			KRDU	RALEIGH/DURHAM	NC (US)
IAP	RNAV (GPS) Y RWY 5R			KRDU	RALEIGH/DURHAM	NC (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 08/27/2009

REASON FOR REVISION:
FIX MOVED 476' TO ALIGN WITH INTERMEDIATE SEGMENT

DEVELOPED BY: **DATE:** 01/26/2009 **OFFICE:** AVN-110 **NAME:** TONY LAWSON

APPROVED BY: **DATE:** 07/14/2009 **OFFICE:** AVN-110 **NAME:** PETER GETZ

SIGNATURE:

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

QUALITY 4 CHECKED

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: PECIT **STATE:** NC **COUNTRY:** US

LATITUDE/LONGITUDE: 354320.19N/0785821.39W **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	DIST FROM FAC FEET	MRA	MAA
1	RALEIGH/DURHAM	I-RDU	LOC		232.14	225.14		13.48		4000	4900
2	RALEIGH/DURHAM	RDU	VORTAC	H	229.80	225.80	12.90	12.90		4000	17500

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	SW		WP	232.04	052.04	R		4	3300	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	COOL TWR (37-000881)	353805.00N/0785704.00W	786	5D

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
ENROUTE CHARTING (FAC 2)
ILS OR LOC RWY 5R FAC 2 DME ONLY.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	ENROUTE LOW CHARTS	2				(US)
IAP	ILS OR LOC RWY 5R	1, 2		KRDU	RALEIGH/DURHAM	NC (US)
IAP	RNAV (GPS) Y RWY 5R		1	KRDU	RALEIGH/DURHAM	NC (US)
IAP	RNAV (RNP) Z RWY 23L			KRDU	RALEIGH/DURHAM	NC (US)
IAP	RNAV (RNP) Z RWY 5R			KRDU	RALEIGH/DURHAM	NC (US)
STAR	RASKL (RNAV)			KRDU	RALEIGH/DURHAM	NC (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 08/27/2009

REASON FOR REVISION:
CORRECTED FIX MAKE UP.
UPDATED HOLDING SPEEDS, ALTITUDES AND OBSTACLE INFORMATION.
FIX MOVED 486.60' TO CENTERLINE LOCATION

DEVELOPED BY: **DATE:** 01/21/2009 **OFFICE:** AVN-110 **NAME:** TONY LAWSON

APPROVED BY: **DATE:** 07/14/2009 **OFFICE:** AVN-110 **NAME:** PETER GETZ

SIGNATURE:

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

QUALITY CHECKED 4

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: ZEBUL **STATE:** NC **COUNTRY:** US

LATITUDE/LONGITUDE: 355444.33N/0782300.47W **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	FEET	MRA	MAA
1	RALEIGH/DURHAM	RDU	VORTAC	H	086.91	082.91	19.64	19.64		2500	17500
2	SOUTH BOSTON	SBV	VORTAC	L	151.00	146.00		55.00		2500	17500
3	TAR RIVER	TYI	VORTAC	L	268.55	263.55	33.34	33.34		2500	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
SBV	VORTAC	R-151	55	2500	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	E	RDU	VORTAC	086.91	266.91	R	1-1 1/2		2600	17500	6	18
2	E		WP	089.06	269.06	R		4	2600	17500	5	17
3	E	TYI	VORTAC	268.55	268.55	R	1-1 1/2		2600	17500	6	18
4	W	TYI	VORTAC	268.55	088.55	R	1-1 1/2		2600	17500	6	18

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (37-001488)	355626.00N/0782844.00W	1549	5D
2	200	TOWER (37-001488)	355626.00N/0782844.00W	1549	5D
2	310	TOWER (37-001047)	354955.00N/0780846.00W	2208	4D
3	200	TOWER (37-001488)	355626.00N/0782844.00W	1549	5D
4	200	TOWER (37-001488)	355626.00N/0782844.00W	1549	5D

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
2	RNAV (GPS) RWY 23	KLHZ	LOUISBURG	NC (US)

REMARKS:
KRDU ILS OR LOC RWY 5R PATTERN 3 ALTERNATE MISSED APPROACH.
KLHZ ILS OR LOC RWY 5 PATTERN 4 ALTERNATE MISSED APPROACH.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V194-310	1, 2, 3				NC (US)
IAP	ILS OR LOC RWY 5	1, 2, 3	1, 4	KLHZ	LOUISBURG	NC (US)
IAP	RNAV (GPS) RWY 23		2	KLHZ	LOUISBURG	NC (US)
IAP	RNAV (GPS) RWY 5			KLHZ	LOUISBURG	NC (US)
IAP	ILS OR LOC RWY 23L	1, 2, 3	1	KRDU	RALEIGH/DURHAM	NC (US)
IAP	ILS OR LOC RWY 5R	1, 2, 3	1, 3	KRDU	RALEIGH/DURHAM	NC (US)
IAP	NDB RWY 23L	1, 2, 3	1	KRDU	RALEIGH/DURHAM	NC (US)
IAP	RNAV (GPS) Y RWY 5R		2	KRDU	RALEIGH/DURHAM	NC (US)
IAP	VOR RWY 23L	1, 2, 3	1	KRDU	RALEIGH/DURHAM	NC (US)
IAP	VOR RWY 5R	1, 2, 3	1	KRDU	RALEIGH/DURHAM	NC (US)
STAR	FRAZI (RNAV) ONE		2	KRDU	RALEIGH/DURHAM	NC (US)
STAR	MEYER (RNAV) ONE		2	KRDU	RALEIGH/DURHAM	NC (US)
STAR	RASKL (RNAV) ONE		2	KRDU	RALEIGH/DURHAM	NC (US)
STAR	ZODAS (RNAV) ONE		2	KRDU	RALEIGH/DURHAM	NC (US)

REQUIRED CHARTING: STAR, IAP, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7 **DATE OF REVISION:** 10/20/2011

REASON FOR REVISION:
ADDED PAT 4
ADDED ALT MISSED REMARK FOR KLHZ
UPDATED FIX USE
ADDED CIH OBSTACLE AND TO PAT 2 AND ASSOCIATED NOTES

DEVELOPED BY:	**DATE:** 04/05/2011	**OFFICE:** AJV-352	**NAME:** DONALD SMITH (CHRISTOPHER COX)
APPROVED BY:	**DATE:** 07/26/2011	**OFFICE:** AJV-352	**NAME:** DARRYEL ADAMS
	SIGNATURE:		

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

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **RALEIGH/DURHAM** STATE: **NC**

AIRPORT NAME: **RALEIGH-DURHAM INTL** ID: **KRDU**

PROCEDURE: **RNAV (GPS) Y RWY 5R** AMDT: **2**

DOCKET # :
(96-AXX-X/Required/Not Required)

ALL DIST TO 1/100 NM; ELEV TO NEAREST FT; COORD TO 1/100 SEC; DEG TO 1/100 DG.

1. Distance from **THLD** to 1000' point **2.98**
   (Enter THLD, FAF, ARP, FACILITY, as appropriate)
2. Width of **FINAL** segment at 1000' point **1.20**
   (Enter appropriate segment , final, intermediate, etc.)
3. True Course of **FINAL** segment containing 1000' point **045.14**
4. High Terrain in **FINAL** segment containing 1000' point **429**
5. Distance from **THLD** to 1500' point **5.12**
   (If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of **FINAL** segment at 1500' point **1.20**
7. True Course of **FINAL** segment containing 1500' point **045.14**
8. High Terrain in **FINAL** segment containing 1500' point **429**
9. Threshold Coordinates (if straight-in) ... **355152.67N** / **0784750.42W**
10. ARP Coordinates ..... **355239.50N** / **0784714.90W**
11. Runway Approach End and distance furthest from ARP.....RWY **23L**
    Distance **1.07** NM
12. FAF Coordinates ..... **354733.36N** / **0785310.11W**
    (Click to Select)

REMARKS: Approach/Drawing attached. TAA UTILIZES 30NM RADII.
PECIT (IF/IAF): 354320.19N/0785821.39W
FOGAP (IAF): 355049.59N/0790732.92W MUTSE (IAF): 353614.68N/0784941.47W