

Flight Procedure Tracking Form		Action: FLIGHT CHECK	Task Type: IAP	Date Open: 07/23/2012	Task #: 2012072324733801006	Request #: 20120723247338
Procedure: NDB RWY 21 AMDT 2			Airport ID: KMRH	Airport: MICHAEL J. SMITH FIELD		Reimbursable #:
City: BEAUFORT		ST: NC	GPS #:		Estimated Chart Date: 02/07/2013	FICO #:
Fac ID: MRH		Fac. Type: NDB/M		Specialist: PETER GUIMOND		

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:	07/23/2012	10/16/2012	MARLON ROBINSON	
QA:	10/16/2012	10/19/2012	DAVID PUGLISI	
Liaison:	10/19/2012		<i>Spurlin</i>	

PI

Procedure Comments:	Remark Type: INFORMATION	<i>pg 5 of 5</i>
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BEAUFORT, NC MICHAEL J. SMITH FIELD (KMRH) NDB RWY 21, AMDT 2 ENROUTE-NO FC: 12.25.12 PUB: 2.7.13
 ATTACHED FORMS: 8260-5; 8260-10; 8260-9; 8260-2(S): MOREHEAD (MRH) NDB, REV 5; (INFO ONLY) FACTO, REV 2; GERIT, REV 3.
 CONTACT: DON SMITH/MARLON ROBINSON-AJV-352 LEADS, 405.954.1036 / 405.954.3636

BEAUFORT, NORTH CAROLINA

AI-5095 (FAA)

FIG

NDB MRH	APP CRS	Rwy Idg	4191
269	219°	THRE	7
		Apt Elev	11

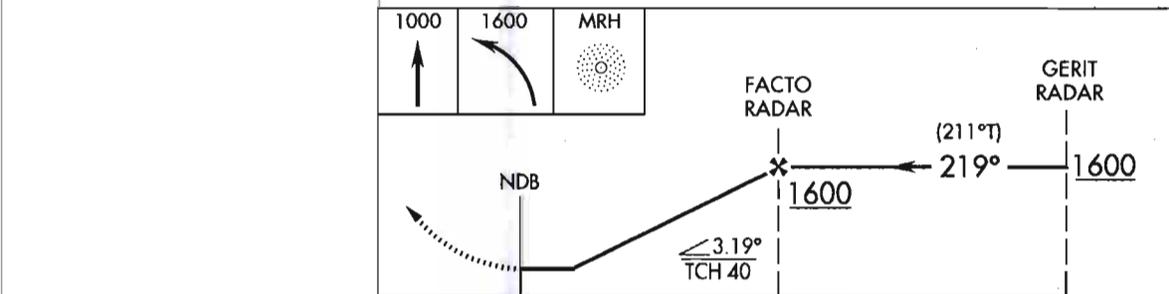
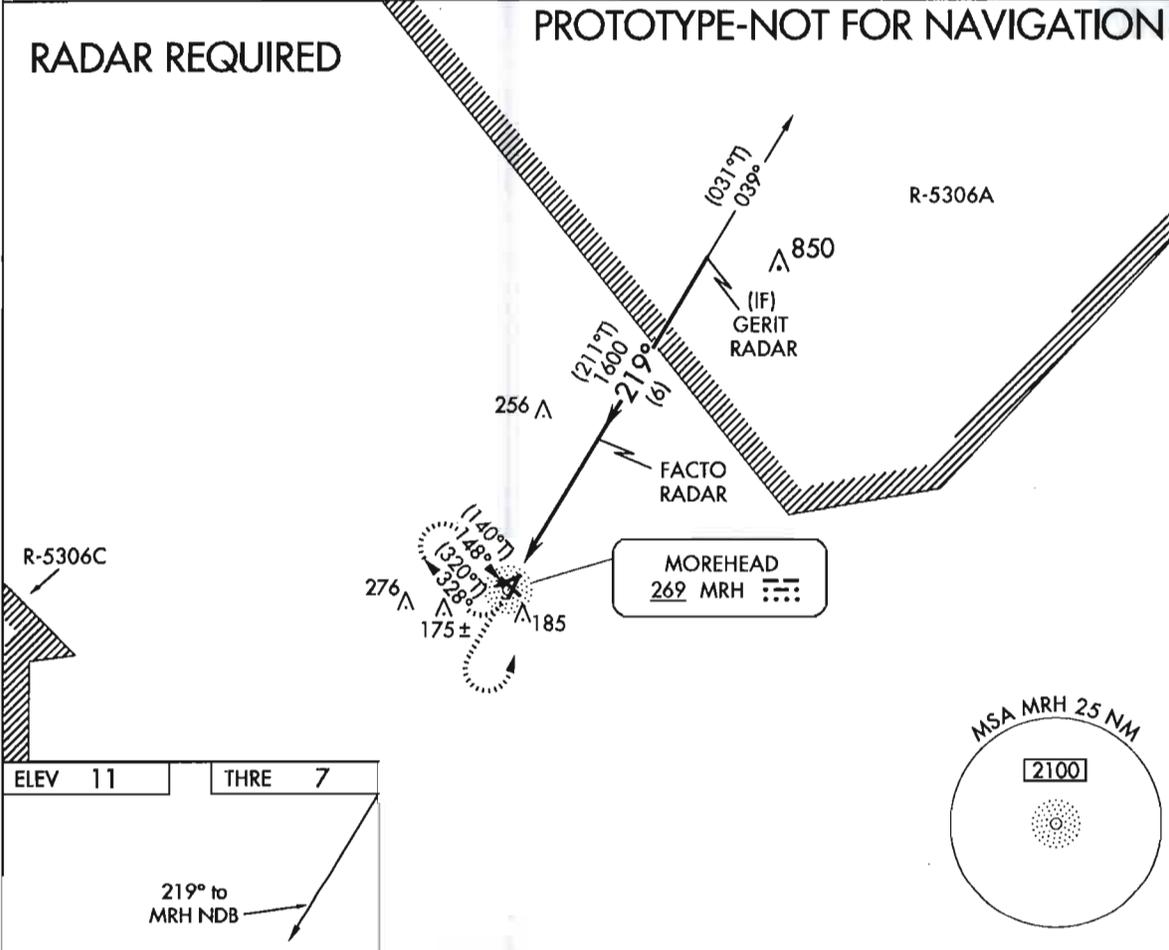
NEW

NDB RWY 21
BEAUFORT/MICHAEL J. SMITH FIELD (MRH)

NA RADAR required. Circling to Rwy 8/14/32 NA at night. ATC clearance required to penetrate R-5306A and R-5306C. When local altimeter setting not received, use Cherry Point MCAS altimeter setting and increase all MDA 40 feet. Helicopter visibility reduction below 3/4 SM not authorized.

MISSED APPROACH:
Climb to 1000 then climbing left turn to 1600 direct MRH NDB and hold.

ASOS 135.375	CHERRY POINT APP CON 124.1 268.7	CHERRY POINT CLNC DEL 125.65	UNICOM 122.8 (CTAF) 0
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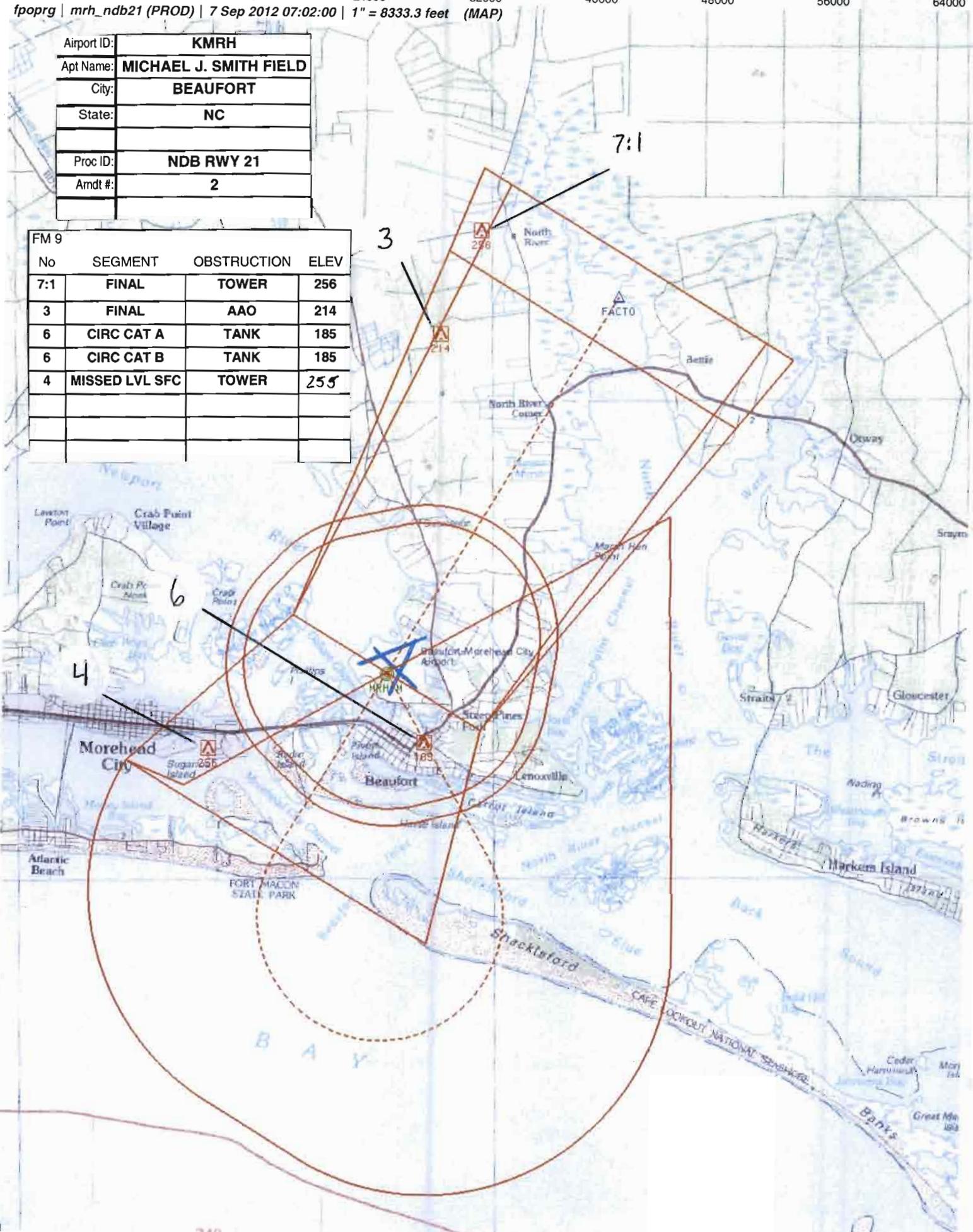


CATEGORY	A	B	C	D
S-21	520-1	513 (600-1)	NA	
CIRCLING	540-1	529 (600-1)	NA	

REIL Rwy 3 and 21
MIRL Rwy 3-21 and 8-26

Airport ID:	KMRH
Apt Name:	MICHAEL J. SMITH FIELD
City:	BEAUFORT
State:	NC
Proc ID:	NDB RWY 21
Amdt #:	2

FM 9			
No	SEGMENT	OBSTRUCTION	ELEV
7:1	FINAL	TOWER	256
3	FINAL	AAO	214
6	CIRC CAT A	TANK	185
6	CIRC CAT B	TANK	185
4	MISSED LVL SFC	TOWER	255

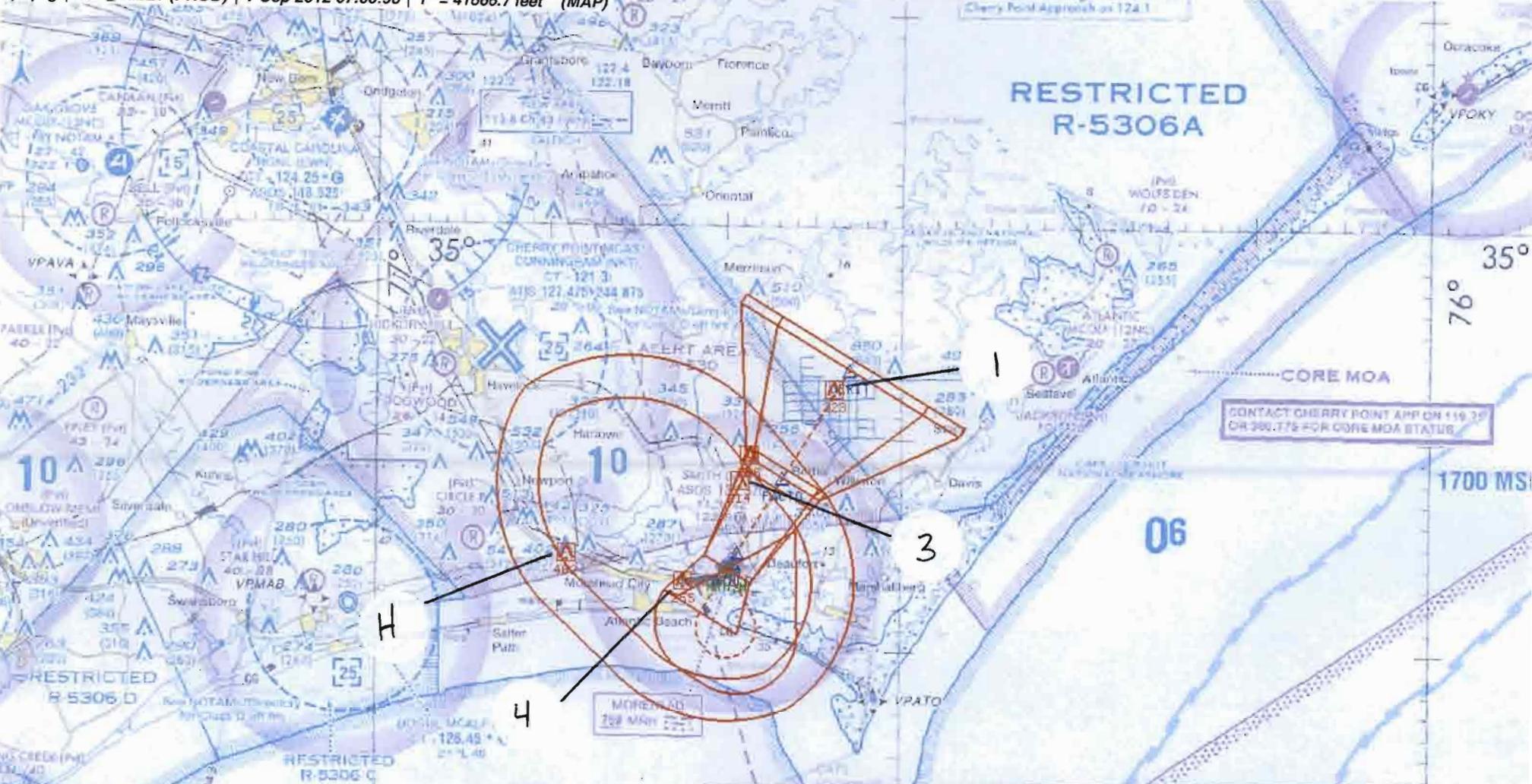


7:1
 3

6

4

NM 7 14 21 28 35 42 49 56 63 70
 FT 42000 84000 126000 168000 210000 252000 294000 336000 378000 420000
 fpoprg | mrh_ndb21 (PROD) | 7 Sep 2012 07:00:56 | 1" = 41666.7 feet (MAP)



Airport ID:	KMRH	FM 9			
Apt Name:	MICHAEL J. SMITH FIELD	No	SEGMENT	OBSTRUCTION	ELEV
City:	BEAUFORT	1	INTERMEDIATE	AAO	223
State:	NC	3	FINAL	AAO	214
		4	MISSED LVL SFC	TOWER	255
Proc ID:	NDB RWY 21	H	MISSED HOLD	TOWER	402
Amdt #:	2				

WARNING

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
 NDB STANDARD INSTRUMENT APPROACH PROCEDURE
 FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.27

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

MISSED APPROACH

FROM	TO	COURSE AND DISTANCE	ALTITUDE	MAP: MRH NDB
GERIT/RADAR (IF)	FACTO/RADAR	219.11 / 6.00 (MRH BRG-039)	1600	CLIMB TO 1000 THEN CLIMBING LEFT TURN TO 1600 DIRECT MRH NDB AND HOLD.
				ADDITIONAL FLIGHT DATA: HOLD NW, RT, 148.00 INBOUND. CHART: 256 TOWER 344850N/0763831W FAS OBST: 214 AAO 344739N/0763903W CHART R-5306C. CHART R-5306A. FACTO TO RW21: 3.19/40. FAC 231L OF RWY C/L EXTENDED 3000 FROM THLD.

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. PROFILE STARTS AT GERIT
3. FAC 219.11 FAF FACTO/RADAR DIST FAF TO MAP THLD 4.59
4. MIN. ALT GERIT 1600, FACTO 1600
8. MSA FROM: MRH NDB 2100

MAG VAR: 8W EPOCH YEAR:1985

MINIMUMS

TAKEOFF:	SEE FAA FORM 8260-15A FOR THIS AIRPORT						ALTERNATE: N A X								
CATEGORY ==>	A			B			C			D			E		
	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA
S-21	520	1	513	520	1	513		NA			NA				
CIRCLING	540	1	529	540	1	529		NA			NA				

NOTES:

CHART NOTE: CIRCLING TO RWY 8/14/32 NA AT NIGHT.
 CHART NOTE: RADAR REQUIRED.
 CHART PLANVIEW NOTE: RADAR REQUIRED.
 CHART NOTE: ATC CLEARANCE REQUIRED TO PENETRATE R-5306A AND R-5306C.
 (SEE FORM 8260-10)

CITY AND STATE BEAUFORT, NC	ELEVATION: 11 THRE: 7 AIRPORT NAME: MICHAEL J. SMITH FIELD	FACILITY IDENTIFIER: MRH	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: NDB RWY 21, AMDT 2	SUP
				AMDT
				DATE 05/31/2012

QUALITY CHECKED

**NDB STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - - TITLE 14 CFR PART 97.27**

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.

NOTES, (CONT.):

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE CHERRY POINT MCAS ALTIMETER SETTING AND INCREASE ALL MDA 40 FEET.
CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.

QUALITY
3
CHECKED

CITY AND STATE BEAUFORT, NC	ELEVATION: 11	THRE: 7	FACILITY IDENTIFIER: MRH	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
	AIRPORT NAME: MICHAEL J. SMITH FIELD			NDB RWY 21, AMDT 2	AMDT: 1
					DATED: 05/31/2012

ALL AFFECTED PROCEDURES REVIEWED? <input type="checkbox"/> YES <input type="checkbox"/> NO	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE				
COORDINATED WITH:						
<input type="checkbox"/> ATA	<input type="checkbox"/> AAT	<input type="checkbox"/> ALPA	<input type="checkbox"/> APA	<input type="checkbox"/> AOPA	<input type="checkbox"/> NBAA	<input type="checkbox"/> OTHER (specify) _____
FLIGHT CHECKED BY						
NAME:					FIFO	DATE:
DEVELOPED BY						
NAME:					FIFO	DATE:
APPROVED BY						
NAME:					FIFO	DATE:
CHANGES:						
REASONS:						
WHITEOUT CORRECTIONS 1. INSERTED A / SYMBOL FOR ALL RADAR FIXES. 2. ADDED B/U ALTIMETER ADJUSTMENT TO BLOCK 3 OF DASH 9. 3. REMOVED NA ADJACENT PT IN LINE 1.						
						

PART B - SUPPLEMENTAL DATA										PART C - REMARKS:	
1. COMMUNICATIONS WITH:			2. WEATHER SERVICE				3. ALTIMETER SETTING			THRESHOLD DISPLACED 516.	
ZDC ARTCC KNKT APP CON RALEIGH FSS			NWS	OTHER: ASOS			SOURCE:KMRH / KNKT			VDP NOT ESTABLISHED - FINAL FACILITY DOES NOT HAVE DME.	
			FAA				DISTANCE: 0 / 14.88			PRECIPITOUS TERRAIN EVALUATION COMPLETED.	
SATISFACTORY ON:			A/C				HOURS REMOTE OPERATION: 24 / BACKUP			TERPS PARAGRAPH 289 APPLIED TO 256 TOWER 344850N/0763831W	
X	VHF	X	UHF		HF	LOCATION: KMRH		ADJUSTMENT: 0 / 36.72		2. KMRH ASOS ON SERVICE A. KNKT WEATHER STATION IS ON SERVICE A.	
4. MONITOR STATUS	PRIMARY NAVAID: MRH NDB									3. KNKT 24-HR BACK-UP.	
	MONITOR POINT: AIRPORT MGR									5. VGSI DATA: 3.00/40.1.	
	HRS OPTN:	CAT 1								SEE ATTACHED AIRSPACE LETTER.	
			CAT 3	24						100 FOOT TREES USED PER EASTERN FPT.	
5. APPROACH & RUNWAY LIGHTING	ALS									77 FOOT ADVERSE ASSUMPTION BOAT HEIGHT USED NEAR SHORE AND FOR INLETS. 248 FOOT ADVERSE ASSUMPTION BOAT HEIGHT USED BEYOND OUTER SHORES.	
	(S) SALS									ATC CLEARANCE REQUIRED TO PENETRATE R-5306A AND R-5306C NOTE REQUESTED BY ATC AND EASTERN FPT.	
	MALS									OPTIMUM FINAL COURSE IS 221.52. SELECTED FINAL COURSE 219.11 MEETS STRAIGHT-IN CRITERIA AND ALLOWS RADAR FIXES FACTO AND GERIT TO REMAIN IN FLIGHT INSPECTED LOCATIONS.	
	HIRL									EASTERN FPT ADVISES A SPECIAL TERPS PARA 251, 20:1 VISUAL SURFACE WAS CONDUCTED FOR RWY 3, 21, AND 26. SURFACES WERE EITHER CLEAR OR IDENTIFIED PENETRATIONS WILL BE REMOVED/MITIGATED PRIOR TO PROCEDURE PUBLICATION.	
	X	MIRL 21 (PCL), 08 (PCL), 03 (PCL), 26 (PCL)									EASTERN FPT ADVISES THAT BOAT TRAFFIC ADJACENT TO RWY 8 WILL ENCROACH NO CLOSER THAN 1000 FEET TO THE RUNWAY. A 77 MSL ADVERSE ASSUMPTION OBSTACLE AT THIS LOCATION PENETRATES THE RWY 8 VISUAL SURFACES, THEREFORE CIRCLING TO RWY 8 WILL BE NA AT NIGHT.
	X	REIL 21 (PCL), 03 (PCL)									RWY 14 AND 32 DO NOT HAVE OBSTACLE SURVEYS, THEREFORE STRAIGHT-IN/CIRCLING RWY 14 AND 32 WILL BE NA AT NIGHT.
	TDZ									TERPS PARA 251, 34:1 SURFACES ARE ASSUMED TO BE PENETRATED TO ALL RUNWAYS UNTIL THE FULL OBSTACLE SURVEY AT THE AIRPORT IS COMPLETED.	
	C/LINE									RASS (PRESSURE PATTERNS ARE THE SAME): KMRH 11.1, KNKT 28.9 RA = 36.72 RASS ROUNDED UP TO 40 FEET FOR ALL MDA AND PUBLISHED AS A NOTE.	
	X	OTHER (SPECIFY) PAPI-2L 21, 08, 03 PAPI-2R 26									TERPS, VOLUME 1, VISUAL PORTION OF FINAL PENETRATIONS: (EASTERN FPT NOTIFIED 9/27/2012) RWY 8, 20:1 PENETRATION: 77 BOAT (ADVERSE ASSUMPTION) 344355.56N/0764019.72 (30.52)
6. RUNWAY MARKINGS		BASIC BSC-F 14, 32									
		ALL WEATHER									
		INSTRUMENT NPI-G 21, 08, 03, 26									
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 3000				FT. FROM THRESHOLD					
		ON CENTERLINE 231L				FT. FROM CENTERLINE					
10. WAIVERS: NONE											
											
PART D - PREPARED BY: PETER R. GUIMOND						DATE: 09/28/2012					
TITLE: AERONAUTICAL INFORMATION SPECIALIST						OFFICE: AJV-352					

RADIO FIX AND HOLDING DATA RECORD

NAME: MOREHEAD NDB

STATE: NC

COUNTRY: US

LATITUDE/LONGITUDE: 344353.42N/0763944.94W

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 NM	FAC FEET	MRA	MAA
1	MOREHEAD	MRH	NDB		MH						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	MRH	NDB	328.00	148.00	R	1		1600	6000	5	7

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	230	TOWER (37-002358)	344534.00N/0765115.00W	442	2C
1	230	TOWER (37-000764)	344409.00N/0764854.00W	402	5D

HOLDING RESTRICTIONS:

UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 2000.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
 UNPLANNED HOLDING PER ATC REQUEST.
 EVALUATED HOLDING PATTERNS AT 230 KIAS TO ACCOMMODATE MILITARY TRAFFIC.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	NDB RWY 14		1	KMRH	BEAUFORT	NC (US)
IAP	NDB RWY 21		1	KMRH	BEAUFORT	NC (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5

DATE OF REVISION: 02/07/2013

REASON FOR REVISION:

1. MOVED UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 2000 FROM REMARKS TO HOLDING RESTRICTIONS.
2. AMENDED PAT 1 MAX HOLDING ALTITUDE FROM 17500 TO 6000.
3. AMENDED PAT 1 HOLDING LENGTH TIME FROM 1-1 1/2 TO 1.
4. DELETED PAT 2.
5. UPDATED FIX USE.

DEVELOPED BY: **DATE:** 09/05/2012 **OFFICE:** AJV-352 **NAME:** PETER GUIMOND

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** SUE CRUMB

SIGNATURE:

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



RADIO FIX AND HOLDING DATA RECORD

INFO ONLY

NAME: FACTO

STATE: NC

COUNTRY: US

LATITUDE/LONGITUDE: 344810.66N/0763636.71W

TYPE: RADAR

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM NM	FAC FEET	MRA	MAA
1	MOREHEAD	MRH	NDB	MH	039.11	031.11		5.00	30381	1600	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

MOREHEAD (FAC 1) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	NDB RWY 21	1		KMRH	BEAUFORT	NC (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 05/31/2012

REASON FOR REVISION:

FIX MOVED 3294.09 FEET TO THE NORTHEAST; COORDINATES UPDATED.
FAC 1 TRUE/MAG BRG CHANGED FROM 030.79/038.79 TO 031.11/039.11; MRA INCREASED FROM 1000 TO 1600.
REMOVED FAC 2 IAW 8260.19D, CH. 8, PARA 841 F(3).
ADDED FIX COORDINATE ESTABLISHMENT REMARK IAW 8260.19D, PARA 841(D)1.

DEVELOPED BY: DATE: 09/28/2011 OFFICE: AJV-352 NAME: DONALD SMITH (DAN POWELL)

APPROVED BY: DATE: 03/14/2012 OFFICE: AJV-352 NAME: DARRYEL ADAMS

SIGNATURE:

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

QUALITY
3
CHECKED

RADIO FIX AND HOLDING DATA RECORD

INFO ONLY

NAME: GERIT

STATE: NC

COUNTRY: US

LATITUDE/LONGITUDE: 345319.23N/0763250.41W

TYPE: RADAR

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC	MRA	MAA
								NM FEET		
1	MOREHEAD	MRH	NDB	MH	039.11	031.11		11.00	1600	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

MOREHEAD (FAC 1) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	NDB RWY 21	1		KMRH	BEAUFORT	NC (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 05/31/2012

REASON FOR REVISION:

FIX MOVED 3467.95 FEET TO THE NORTHEAST; COORDINATES UPDATED.
FAC 1 TRUE/MAG BRG CHANGED FROM 030.79/038.79 TO 031.11/039.11; MRA INCREASED FROM 1000 TO 1600.
REMOVED FAC 2 IAW 8260.19D, CH. 8, PARA 841 F(3).
ADDED FIX COORDINATE ESTABLISHMENT REMARK IAW 8260.19D, PARA 841(D)1.

DEVELOPED BY: DATE: 09/28/2011 OFFICE: AJV-352 NAME: DONALD SMITH (DAN POWELL)

APPROVED BY: DATE: 03/14/2012 OFFICE: AJV-352 NAME: DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: EST
ARTCC: ZDC
ATC FACILITY: CHERRY POINT APP CON
OTHER:

Handwritten initials/signature

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **BEAUFORT**

STATE: **NC**

AIRPORT NAME: **MICHAEL J. SMITH FIELD**

ID: **KMRH**

PROCEDURE: **NDB RWY 21**

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 **2.59**
(Enter THLD, FAF, ARP, FACILITY, as appropriate)
2. Width of **FINAL** segment at 1000' point **3.00**
(Enter appropriate segment , final, intermediate, etc.)
3. True Course of **FINAL** segment containing 1000' point **211.11**
4. High Terrain in **FINAL** segment containing 1000' point **33**
5. Distance from **THLD** to 1500' point **4.39**
(If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of **FINAL** segment at 1500' point **3.30**
7. True Course of **FINAL** segment containing 1500' point **211.11**
8. High Terrain in **FINAL** segment containing 1500' point **33**
9. Threshold Coordinates (if straight-in) ... ***344411.73N / 0763924.07W**
10. ARP Coordinates **344400.76N / 0763938.11W**
11. Runway Approach End and distance furthest from ARP.....RWY **26**

Distance **0.45** NM
12. FAF Coordinates **344810.66N / 0763636.71W**
(Click to Select)

REMARKS: Approach/Drawing attached.
9. *DISPLACED RWY THRESHOLD COORDINATES