Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: IAP	Date Open: 08/12/2011	Task #: 2010070728052101015	Request #: 20100707280521
Procedure: RNAV (RNP) Z RWY 28 AMDT 1		Airport ID: KMSY	Airport: LOUIS ARMSTRONG NEW ORLEANS INTL		Reimbursable #:
City: NEW ORLEANS	ST: LA	GPS #:		Estimated Chart Date: 04/05/2012	FICO #:
Fac ID:	Fac. Type: RNP	Specialist: RODNEY RUMSEY			

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:	08/29/2011	12/28/2011	JOSE ALFONSO	
QA:	12/28/2011	12/28/2011	STEVEN SZUKALA	
Liaison:	12/28/2011		Terrell	

Procedure Comments: ENROUTE **Remark Type:** INFORMATION

PKT 2 of 5

NEW ORLEANS, LA LOUIS ARMSTRONG NEW ORLEANS INTL (KMSY) RNAV (RNP) Z RWY 28, AMDT 1 (RNP) EN ROUTE-YES FC: 2.7.12 PUB: 4.5.12

ATTACHED FORMS: 8260-3; 8260-10; 8260-9; 8260-2(S): BRRES-INT, ORIG; HELMT-INT, REV 4; (INFO ONLY) HARVEY (HRV) VTAC, REV 7; LETSE, REV 2; RESERVE (RQR) VDME, REV 6.

CONTACT: JOSE ALFONSO/STEVE BARNETT, AJV-353 LEADS, 405.954.6378/9568:

APP CRS	Rwy ldg	9800
284°	THRE	2
	Apt Elev	4

RNAV (RNP) Z RWY 28

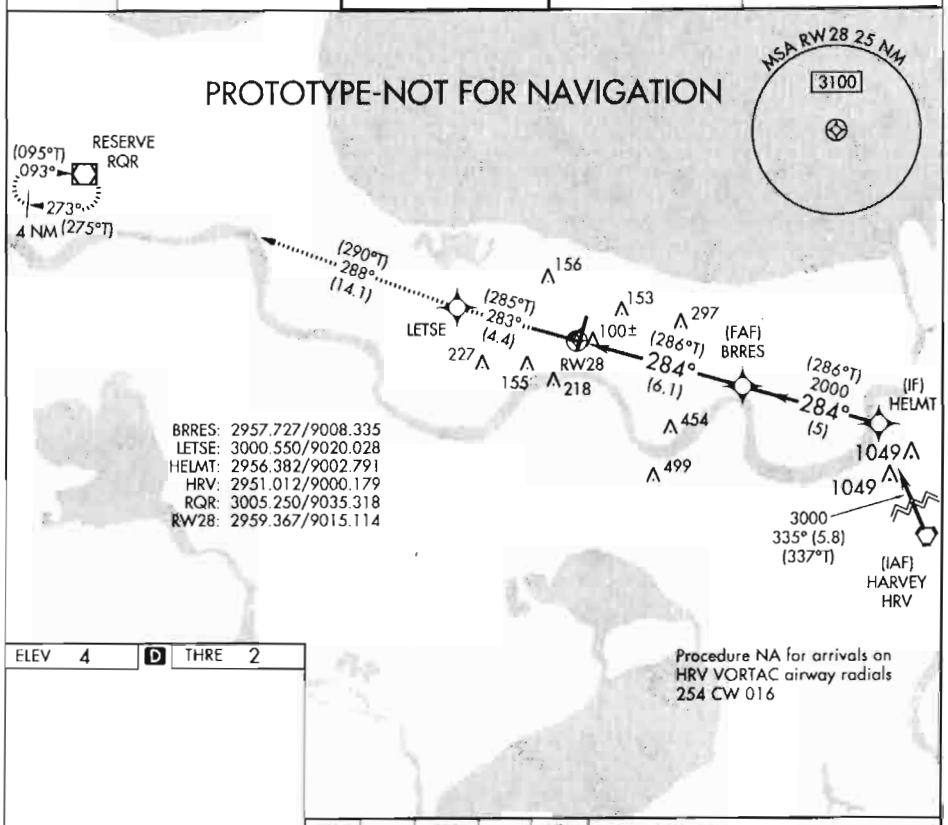
NEW ORLEANS/ LOUIS ARMSTRONG NEW ORLEANS INTL (MSY)

For uncompensated Baro-VNAV systems, procedure NA below -2°C (29°F) or above 49°C (120°F). For inoperative MALSR, increase RNP 0.30 all Cats visibility to RVR 6000. GPS Required.

MALSR

MISSED APPROACH: Climb to 3000 on track 283° to LETSE and on track 288° to RQR VOR/DME and hold.

ATIS	NEW ORLEANS APP CON	NEW ORLEANS TOWER	GND CON	CLNC DEL
127.55	125.5 284.7	119.5 254.3	121.9 273.525	127.2

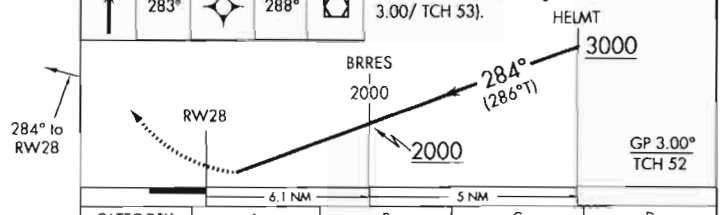


ELEV 4	D	THRE 2

Procedure NA for arrivals on HRV VORTAC airway radials 254 CW 016

3000	tr 283°	LETSE	tr 288°	RQR

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/ TCH 53).



CATEGORY	A	B	C	D
RNP 0.30 DA	368/40 366 (400-¾)			

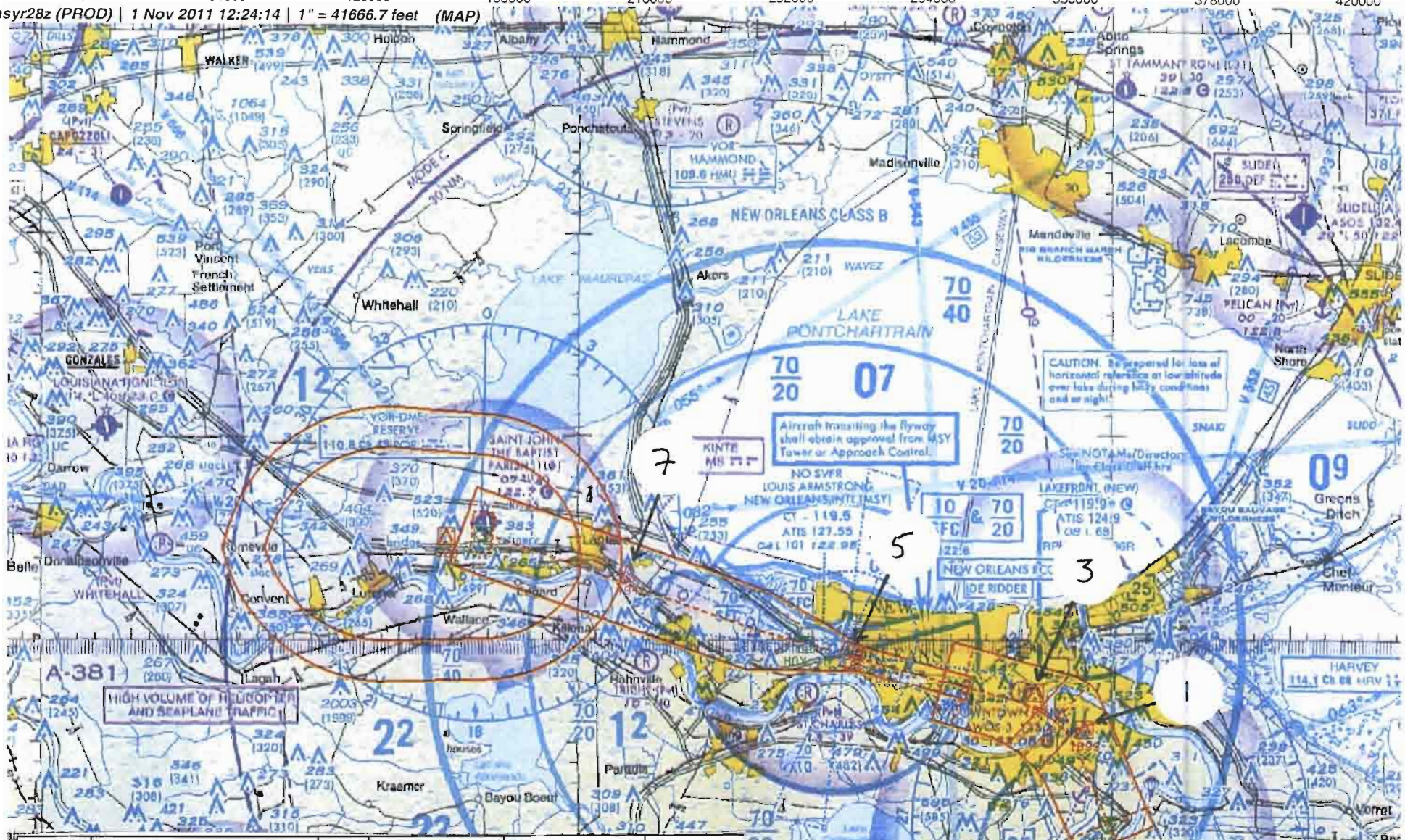
LDIN Rwy 1
TDZ/CL Rwy 10
HIRL All Runways

AUTHORIZATION REQUIRED

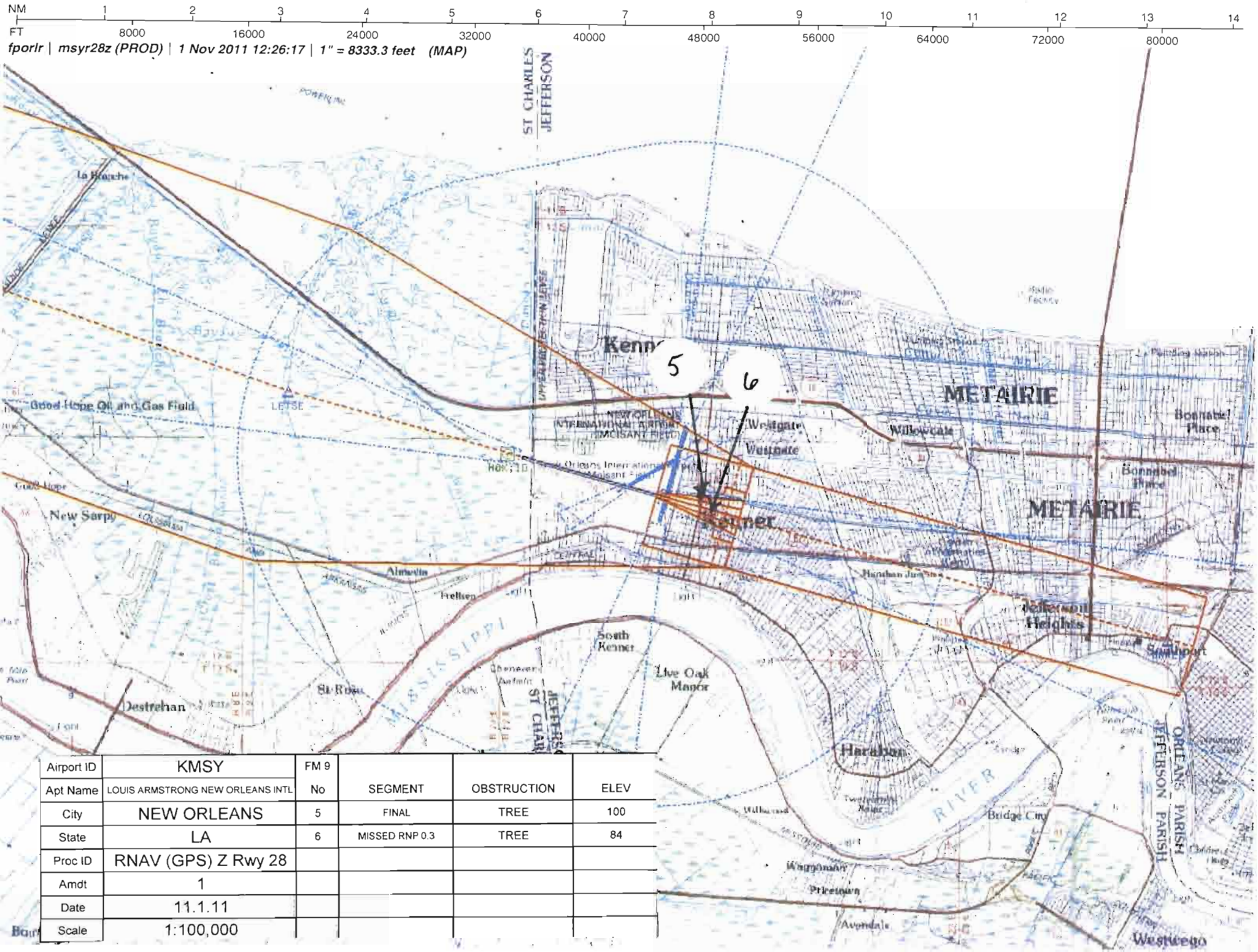
NM 7 14 21 28 35 42 49 56 63 70

FT 42000 84000 126000 168000 210000 252000 294000 336000 378000 420000

fporlr | msyr28z (PROD) | 1 Nov 2011 12:24:14 | 1" = 41666.7 feet (MAP)



Airport ID	KMSY	FM 9			
Apt Name	LOUIS ARMSTRONG NEW ORLEANS INTL	No	SEGMENT	OBSTRUCTION	ELEV
City	NEW ORLEANS	1	INITIAL	TOWER	1049
State	LA	3	INTERMEDIATE	BLDG	738
Proc ID	RNAV (GPS) Z Rwy 28	5	FINAL	TREE	100
Amdt	1	7	MISSED RNP 1.0	TOWER	494
Date	11.1.11				
Scale	1:500,000				



Airport ID	KMSY	FM 9			
Apt Name	LOUIS ARMSTRONG NEW ORLEANS INTL	No	SEGMENT	OBSTRUCTION	ELEV
City	NEW ORLEANS	5	FINAL	TREE	100
State	LA	6	MISSED RNP 0.3	TREE	84
Proc ID	RNAV (GPS) Z Rwy 28				
Amdt	1				
Date	11.1.11				
Scale	1:100,000				

US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

RNAV (RNP) - STANDARD, INSTRUMENT APPROACH PROCEDURE, TITLE 14 CFR PART 97.33

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TERMINAL ROUTES

FROM	TO	COURSE AND DISTANCE	ALTITUDE
HRV VORTAC (IAF)	HELMT (TF) (FB) (RNP 1.00)	335.05 / 5.82	3000
HELMT (IF)	BRRES (TF) (FB) (RNP 1.00)	283.60 / 5.00	2000
BRRES (FAF)	RW28 (MAP) (TF) (FO)	283.55 / 6.11	
RW28 (MAP)	LETSE (TF) (FB) (RNP 1.00)	283.49 / 4.43	
LETSE	RQR VOR/DME (TF) (FO) (RNP 1.00)	287.52 / 14.07	3000

MISSED APPROACH

MAP: DA

CLIMB TO 3000 ON TRACK 283.49 TO LETSE AND ON TRACK 287.52 TO RQR VOR/DME AND HOLD.

ADDITIONAL FLIGHT DATA:
HOLD W, RT, 093.00 INBOUND.
CHART FAS OBST: 100 TREE 295913N/0901427W
ROUTE TYPE: A, H
DISTANCE TO THLD FROM 366 HATH: 0.98 NM
ROUTE TYPE QUALIFIER 1: F
ROUTE TYPE QUALIFIER 2: S
#TCH 54.1 MSL (DO NOT CHART)

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. PROFILE STARTS AT HELMT
3. FAC: 283.55 FAF: ____ DIST FAF TO MAP: ____ THLD: ____
4. MIN. ALT: HELMT 3000, BRRES 2000
5. DIST TO THLD FROM OM: 6.11 MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____
6. MIN GS INCPT: 2000 GS ALT AT: BRRES 2000 OM: ____ MM: ____ IM: ____
7. GS ANGLE: 3.00 TCH: 52.1 34:1 IS NOT CLEAR
8. MSA FROM: RW28 3100

MAG VAR: 2E EPOCH YEAR: 1990

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
AUTHORIZATION REQUIRED															
RNP 0.30 DA	368	4000	366	368	4000	366	368	4000	366	368	4000	366			

NOTES:
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -2C (29F) OR ABOVE 49C (120F).
CHART NOTE: FOR INOPERATIVE MALSR, INCREASE RNP 0.30 ALL CATS VISIBILITY TO RVR 6000.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON HRV VORTAC AIRWAY RADIALS 254 CW 016.
CHART NOTE: GPS REQUIRED.

QUALITY CHECKED

CITY AND STATE	ELEVATION: 4 THRE: 2	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
NEW ORLEANS, LA	AIRPORT NAME: LOUIS ARMSTRONG NEW ORLEANS INTL	RNAV	RNAV (RNP) Z RWY 28, AMDT 1	AMDT: ORIG-A
				DATED 06/30/2011

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

COORDINATED WITH:

ATA	AAT	ALPA	APA	AOPA	NBAA	OTHER (specify)
[ ]	[ ]	[X]	[X]	[X]	[X]	[X] **ZHU, NEW ORLEANS APP CON, MSY ATCT, AMGR**

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME: **RODNEY L. RUMSEY**	FIFO **AJV-353**	DATE: **11/01/2011**
APPROVED BY		
NAME: **LARRY H STROUT** **MANAGER**	FIFO **AJV-353**	DATE:

CHANGES:

1. FIX ZUTAT REMOVED FOR FIX BRRES AT PFAF LOCATION.
2. FIX HELMT MOVED.
3. FAF ALTITUDE RAISED FROM 1500 TO PFAF AT 2000.

REASONS:

1, 2, 3. TO MIRROR THE ILS AND RNAV (GPS) Y RWY 28 SIAPS.

QUALITY A CHECKED

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

RNAV (RNP) STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - **FAR PART 97.33**

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ARINC PACKET - 424-18 - RNAV (RNP)

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        HRV   K4011410VTHW N29510070W090001074    N29510070W090001074E0020000022     NARHARVEY
        SUSAD        RQR   K4011080VDLW N30051500W090351905    N30051500W090351905E0020000051     NARRESERVE

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   BRRES K40    C     N29574364W090082009                      W0002     NAR           BRRES
        SUSAEAENRT   HELMT K40    C     N29562290W090024744                      W0002     NAR           HELMT
        SUSAEAENRT   LETSE K40    W     N30003299W090200165                      E0000     NAR           LETSE

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KMSYK4AMSY     0     101YHN29593620W090152890E002000004         1800018000C    MNAR    LOUIS ARMSTRONG NEW ORLEANS IN

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KMSYK4FH28-Z AHRV   010HRV  K4D 0V  A    IF                                          18000                A FS
        SUSAP KMSYK4FH28-Z AHRV   020HELMTK4EA0EE B 010TF                                  + 03000                      A FS
        SUSAP KMSYK4FH28-Z H      010HELMTK4EA0E  I    IF                                  + 03000     18000            A FS
        SUSAP KMSYK4FH28-Z H      020BRRESK4EA1E  F 010TF                                  + 02000                RW28  K4PGA FS
        SUSAP KMSYK4FH28-Z H      020BRRESK4EA2W                                                A031                     FS
        SUSAP KMSYK4FH28-Z H      030RW28 K4PG0GY M 031TF                                    00054          -300        A FS
        SUSAP KMSYK4FH28-Z H      040LETSEK4EA0E M  010TF                                                             A FS
        SUSAP KMSYK4FH28-Z H      050RQR  K4D 0VY   010TF                                  + 03000                      A FS
        SUSAP KMSYK4FH28-Z H      060RQR  K4D 0VE  R   HM                     09300040     + 03000                      A FS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KMSYK4GRW28    0101042835 N29592197W090150683+0000    -0025500002030452150IIHOX1

                 1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KMSYK4SRW28 K4PG                0   18018003125                                                                   M
```

CITY AND STATE	ELEVATION: 4 THRE: 2	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
NEW ORLEANS, LA	AIRPORT NAME: **LOUIS ARMSTRONG NEW ORLEANS INTL**	**RNAV**	**RNAV (RNP) Z RWY 28, AMDT 1**	AMDT: **ORIG-A**
				DATED: **06/30/2011**

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:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

RNAV (RNP) STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - **FAR PART 97.33**

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ARINC SUMMARY - 424-18 - RNAV (RNP)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	HRV	HRV	010	IAF	IF		FB					
	HRV	HELMT	020		TF		FB	1.0			AA 03000	
		HELMT	010	FACF	IF		FB				AA 03000	
		BRRES	020	FAF	TF		FB	1.0			AA 02000	
		RW28	030	MAP	TF		FO	0.3			AT 00054	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	LETSE	040		TF		FB	1.0				
	RQR	050		TF		FO	1.0			AA 03000	
	RQR	060		HM	R	FO		093.0(095.0T)	004.0	AA 03000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	HRV	N295100.70	W0900010.74	N2951.012	W09000.179
	RQR	N300515.00	W0903519.05	N3005.250	W09035.318
	BRRES	N295743.64	W0900820.09	N2957.727	W09008.335
	HELMT	N295622.90	W0900247.44	N2956.382	W09002.791
	LETSE	N300032.99	W0902001.65	N3000.550	W09020.028
	RW28	N295921.97	W0901506.83	N2959.366	W09015.114

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW28	00002	52

QUALITY A CHECKED

CITY AND STATE	ELEVATION: 4 THRE: 2	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
NEW ORLEANS, LA	AIRPORT NAME: LOUIS ARMSTRONG NEW ORLEANS INTL	RNAV	RNAV (RNP) Z RWY 28, AMDT 1	AMDT: ORIG-A
				DATED: 06/30/2011

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:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	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.
INITIAL	HRV VORTAC	HELMT	1. TOWER (22-001835)	295511.73N/0900129.25W	1049 (5D)	1000	AT901 AC50	3000
			2. TERRAIN	295703.00N/0900209.00W	23 (0)		AS1500	1500
INTERMEDIATE: RNP	HELMT	BRRES	3. BLDG (22-001082)	295701.00N/0900415.00W	738 (3D)	500	AT712 AC50	2000
			4. TERRAIN	295638.00N/0900342.00W	40 (0)		AS1500	1500
FINAL: RNP 0.30	BRRES	RW28	5. TREE (KMSY0085)	295912.75N/0901426.97W	100 (1A)	20:44	MA18 AC3	368/366
MISSED APPROACH	DA	RW28	6. TREE (KMSY0086)	295905.95N/0901419.63W	84 (1A)	ASC	AC3	
(RNP 0.30-1.00)		(40:1)						
MISSED APPROACH	RW28	LETSE				ASC		
(RNP 0.30-1.00)		(40:1)						
MISSED APPROACH	LETSE	RQR VOR/DME				ASC		
(RNP 1.00)		(40:1)						
2. PROCEDURE TURN	NA							
3. MISSED APPROACH MAP:	DA (SEE ABOVE)	RQR VOR/DME				ASC		3000
			7. TOWER (22-000058)	300248.25N/0902705.97W	494 (2C)	1000	AC20	1500
ELEV:	73		8. TERRAIN	295951.00N/0902442.00W	27 (0)		AS1500	1500

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

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: RW28

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
360-360	TWR (22-001839)	263/ 24.7	2003 (5D)	3100					

CITY AND STATE		FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
NEW ORLEANS, LA	ELEVATION: 4 AIRPORT NAME: LOUIS ARMSTRONG NEW ORLEANS INTL	RNAV	RNAV (RNP) Z RWY 28, AMDT 1	ASW

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE	3. ALTIMETER SETTING
SATISFACTORY ON:	N W S / F A A / A / C — OTHER: ASOS	SOURCE: KMSY DISTANCE: HOURS REMOTE OPERATION:
V H F / U H F / H F	LOCATION: KMSY	ADJUSTMENT: 0

4. MONITOR STATUS		
PRIMARY NAVAID:		
MONITOR POINT:		
HRS OPTN:	CAT 1	
	CAT 3	

5. APPROACH & RUNWAY LIGHTING	
X	ALSF-2 10
	(S) SALS
X	MALS 19 MALSR 28
X	HIRL 10, 28, 24, 01, 19, 06
	MIRL
	REIL
X	TDZ 10
X	C/L 10, 28, 01, 19
X	OTHER (SPECIFY) PAPI-4R 10, 28 PAPI-4L 01, 19 LDIN 01

6. RUNWAY MARKINGS	
BASIC	BSC-G 24, 06
ALL WEATHER	PIR-G 10, 28, 01, 19
INSTRUMENT	

7. RUNWAY VISUAL RANGE	
APPROACH	10, 28, 01, 19
MIDFIELD	10, 28
ROLL OUT	10, 28, 01, 19

8. GLIDE PATH		
GP ANGLE: 3.00		ELEV RWY THRESHOLD: 2.0
DISTANCE FROM RWY:		ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT: 52.1

9. FINAL APPROACH COURSE AIMING			
	X	RUNWAY THRESHOLD	FT. FROM THRESHOLD
	X	ON CENTERLINE	FT. FROM CENTERLINE

10. WAIVERS: NONE

PART D - PREPARED BY:	DATE:
RODNEY L. RUMSEY	11/01/2011
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-353

PART C - REMARKS:

PARA 251, 34:1 PENETRATION.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

2. ASOS ON SERVICE A.
VGSI DATA: 3.00/68.3
BACKUP ALTIMETER SETTING NOT ESTABLISHED DUE TO REDUNDANT WEATHER SOUCES AT AIRPORT.

ACT: -2

VEB DATA: SEE ATTACHED SPREADSHEET.

TERPS, VOLUME 1, "VISUAL PORTION OF FINAL" PENETRATIONS.
34:1 75 TREE (KMSY0079)
295908.30N-0901441.58W (8.25)
88 TREE (KMSY0081)
295916.24N-0901431.01W (1.68)
100 TREE (KMSY0085)
295912.75N-0901426.97W (.84)
Average Cold Temperature based on 5-year history (2004-2008)

SEE ATTACHED AIRSPACE LETTER.

QUALITY CHECKED 4

RADIO FIX AND HOLDING DATA RECORD

NAME: BRRES **STATE:** LA **COUNTRY:** US

LATITUDE/LONGITUDE: 295743.64N/0900820.09W **TYPE:** WP, RADAR, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

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	NEW ORLEANS	I-HOX	LOC/DME		283.49	285.49	5.94	7.89	47935	1000	4500

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 28	1		KMSY	NEW ORLEANS	LA (US)
IAP	RNAV (GPS) Y RWY 28			KMSY	NEW ORLEANS	LA (US)
IAP	RNAV (RNP) Z RWY 28			KMSY	NEW ORLEANS	LA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

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

REASON FOR REVISION:
I-HOX DME LOCATED AT 295917.34N/0901456.02W

DEVELOPED BY: **DATE:** 10/18/2010 **OFFICE:** AJV-353 **NAME:** RODNEY RUMSEY

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZHU
ATC FACILITY: NEW ORLEANS APP CON
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: HELMT **STATE:** LA **COUNTRY:** US

LATITUDE/LONGITUDE: 295622.90N/0900247.44W **TYPE:** WP, 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	DIST FROM FAC FEET	MRA	MAA
1	NEW ORLEANS	I-HOX	LOC/DME		103.49	105.49	10.94	12.89		2100	4500
2	HARVEY	HRV	VORTAC	H	335.05	337.05		5.82		2100	4500

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

REMARKS:
NEW ORLEANS (FAC 1) USED TO ESTABLISH FIX COORDINATES
I-HOX DME LOCATED AT 295917.34N/0901456.02W.
RWY 28 DISPLACED THRESHOLD: 295921.97N/0901506.83W.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 28	1, 2		KMSY	NEW ORLEANS	LA (US)
IAP	RNAV (GPS) Y RWY 28			KMSY	NEW ORLEANS	LA (US)
IAP	RNAV (RNP) Z RWY 28			KMSY	NEW ORLEANS	LA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4 **DATE OF REVISION:** 04/05/2012

REASON FOR REVISION:
UPDATED FIX MAKE-UP.
FIX MOVED 3744 FT EAST.

DEVELOPED BY: **DATE:** 10/18/2011 **OFFICE:** AJV-353 **NAME:** RODNEY RUMSEY

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZHU
ATC FACILITY: NEW ORLEANS APP CON
OTHER:

QUALITY CHECKED 4

RADIO FIX AND HOLDING DATA RECORD

NAME: HARVEY VORTAC **STATE:** LA **COUNTRY:** US

LATITUDE/LONGITUDE: 295100.70N/0900010.74W **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	DIST FROM FAC FEET	MRA	MAA
1	HARVEY	HRV	VORTAC	H							45000

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

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	200	TOWER (22-001835)	295511.73N/0900129.25W	1049	5D

HOLDING RESTRICTIONS:
UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 2100.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BOWFN (RNAV)			KLBX	ANGLETON/LAKE JACKSON	TX (US)
DP	BOWFN (RNAV)			KGLS	GALVESTON	TX (US)
DP	BOWFN (RNAV)			KAXH	HOUSTON	TX (US)
DP	BOWFN (RNAV)			KCXO	HOUSTON	TX (US)
DP	BOWFN (RNAV)			KDWH	HOUSTON	TX (US)
DP	BOWFN (RNAV)			KEFD	HOUSTON	TX (US)
DP	BOWFN (RNAV)			KEYQ	HOUSTON	TX (US)
DP	BOWFN (RNAV)			KHOU	HOUSTON	TX (US)
DP	BOWFN (RNAV)			KIAH	HOUSTON	TX (US)
DP	BOWFN (RNAV)			KIWS	HOUSTON	TX (US)
DP	BOWFN (RNAV)			KSGR	HOUSTON	TX (US)
DP	BOWFN (RNAV)			KTME	HOUSTON	TX (US)
DP	BOWFN (RNAV)			KT41	LA PORTE	TX (US)
EN ROUTE	A321					(US)
EN ROUTE	J31					(US)
EN ROUTE	J37					(US)
EN ROUTE	J58					(US)
EN ROUTE	Q105					(US)
EN ROUTE	V198-240					(US)
EN ROUTE	V198-552					(US)
EN ROUTE	V552					(US)
IAP	RNAV (GPS) RWY 18			KGAO	GALLIANO	LA (US)
IAP	RNAV (GPS) RWY 36			KGAO	GALLIANO	LA (US)
IAP	ILS OR LOC RWY 1			KMSY	NEW ORLEANS	LA (US)
IAP	ILS OR LOC RWY 10			KMSY	NEW ORLEANS	LA (US)
IAP	ILS OR LOC RWY 28			KMSY	NEW ORLEANS	LA (US)
IAP	ILS RWY 10 (CAT II)			KMSY	NEW ORLEANS	LA (US)
IAP	ILS RWY 10 (CAT III)			KMSY	NEW ORLEANS	LA (US)
IAP	LOC RWY 19			KMSY	NEW ORLEANS	LA (US)
IAP	RNAV (GPS) Y RWY 28			KMSY	NEW ORLEANS	LA (US)
IAP	RNAV (RNP) Z RWY 28			KMSY	NEW ORLEANS	LA (US)
IAP	VOR/DME RWY 10			KMSY	NEW ORLEANS	LA (US)
IAP	HI TACAN Y RWY 22			KNBG	NEW ORLEANS	LA (US)
IAP	HI TACAN Y RWY 4			KNBG	NEW ORLEANS	LA (US)
IAP	HI TACAN Z RWY 22			KNBG	NEW ORLEANS	LA (US)
IAP	HI TACAN Z RWY 4			KNBG	NEW ORLEANS	LA (US)
IAP	ILS OR LOC/DME RWY 4			KNBG	NEW ORLEANS	LA (US)
IAP	VOR/DME OR TACAN RWY 22			KNBG	NEW ORLEANS	LA (US)
IAP	VOR/DME OR TACAN RWY 4			KNBG	NEW ORLEANS	LA (US)
IAP	ILS OR LOC RWY 18R			KNEW	NEW ORLEANS	LA (US)
IAP	VOR/DME RWY 36L			KNEW	NEW ORLEANS	LA (US)
STAR	OLEDD			KMSY	NEW ORLEANS	LA (US)
STAR	OLEDD			KNEW	NEW ORLEANS	LA (US)
STAR	COLUMBIA (RNAV)			KT00	ANAHUAC	TX (US)
STAR	DOCCC			KT00	ANAHUAC	TX (US)
STAR	COLUMBIA (RNAV)			KLBX	ANGLETON/LAKE JACKSON	TX (US)
STAR	DOCCC			KLBX	ANGLETON/LAKE JACKSON	TX (US)
STAR	COLUMBIA (RNAV)			K54T	BAYTOWN	TX (US)
STAR	DOCCC			K54T	BAYTOWN	TX (US)
STAR	COLUMBIA (RNAV)			KHPY	BAYTOWN	TX (US)
STAR	DOCCC			KHPY	BAYTOWN	TX (US)
STAR	COLUMBIA (RNAV)			KGLS	GALVESTON	TX (US)
STAR	DOCCC			KGLS	GALVESTON	TX (US)
STAR	COLUMBIA (RNAV)			KAXH	HOUSTON	TX (US)
STAR	DOCCC			KAXH	HOUSTON	TX (US)
STAR	GILCO			KCXO	HOUSTON	TX (US)
STAR	WOLDE (RNAV)			KCXO	HOUSTON	TX (US)

QUALITY CHECKED 4

INFORMATION ONLY

STAR	GILCO	KDWH	HOUSTON	TX (US)
STAR	WOLDE (RNAV)	KDWH	HOUSTON	TX (US)
STAR	COLUMBIA (RNAV)	KEFD	HOUSTON	TX (US)
STAR	DOCCC	KEFD	HOUSTON	TX (US)
STAR	COLUMBIA (RNAV)	KEYQ	HOUSTON	TX (US)
STAR	DOCCC	KEYQ	HOUSTON	TX (US)
STAR	COLUMBIA (RNAV)	KHOU	HOUSTON	TX (US)
STAR	DOCCC	KHOU	HOUSTON	TX (US)
STAR	GILCO	KIAH	HOUSTON	TX (US)
STAR	WOLDE (RNAV)	KIAH	HOUSTON	TX (US)
STAR	COLUMBIA (RNAV)	KIWS	HOUSTON	TX (US)
STAR	DOCCC	KIWS	HOUSTON	TX (US)
STAR	COLUMBIA (RNAV)	KLVJ	HOUSTON	TX (US)
STAR	DOCCC	KLVJ	HOUSTON	TX (US)
STAR	COLUMBIA (RNAV)	KSGR	HOUSTON	TX (US)
STAR	DOCCC	KSGR	HOUSTON	TX (US)
STAR	COLUMBIA (RNAV)	KTME	HOUSTON	TX (US)
STAR	DOCCC	KTME	HOUSTON	TX (US)
STAR	COLUMBIA (RNAV)	KT41	LA PORTE	TX (US)
STAR	DOCCC	KT41	LA PORTE	TX (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7 **DATE OF REVISION:** 06/03/2010

REASON FOR REVISION:
ADDED PRECIPITOUS TERRAIN TO REMARKS.
UPDATE FIX USE.
ADDED DP TO REQUIRED CHARTING.

DEVELOPED BY: **DATE:** 02/19/2010 **OFFICE:** AVN-120 **NAME:** LARRY STROUT (KISSY PADRON)

APPROVED BY: **DATE:** 02/25/2010 **OFFICE:** AVN-120 **NAME:** SUE CRUMB

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: CEN
ARTCC: ZHU
ATC FACILITY: MSY/NBG
OTHER:

QUALITY CHECKED 4

RADIO FIX AND HOLDING DATA RECORD

NAME: LETSE **STATE:** LA **COUNTRY:** US

LATITUDE/LONGITUDE: 300032.99N/0902001.65W **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 28			KMSY	NEW ORLEANS	LA (US)
IAP	RNAV (RNP) Z RWY 28			KMSY	NEW ORLEANS	LA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 09/23/2010

REASON FOR REVISION:
NEW COORDINATES; MOVED FIX W 1.48 NM.
DELETED FAC 1.
REMOVED REMARK.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 04/23/2010 **OFFICE:** AVN-120 **NAME:** LARRY STROUT (SCOTT CORY)

APPROVED BY: **DATE:** 08/12/2010 **OFFICE:** AVN-120 **NAME:** SUE CRUMB

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZHU
ATC FACILITY: NEW ORLEANS APP CON/MSY ATCT
OTHER:

INFORMATION ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: RESERVE VOR/DME **STATE:** LA **COUNTRY:** US

LATITUDE/LONGITUDE: 300515.00N/0903519.05W **TYPE:**

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	RESERVE	RQR	VOR/DME	L							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	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	W	RQR	VOR/DME	273.00	093.00	R	1		3000	6000	4	5
2	W		WP	273.00	093.00	R		4	3000	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (22-000991)	300438.00N/0903718.00W	523	3C
2	200	TOWER (22-000991)	300438.00N/0903718.00W	523	3C

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V114					(US)
EN ROUTE	V20					(US)
EN ROUTE	V455					(US)
EN ROUTE	V566					(US)
IAP	ILS OR LOC RWY 22R			KBTR	BATON ROUGE	LA (US)
IAP	VOR RWY 4L			KBTR	BATON ROUGE	LA (US)
IAP	VOR/DME RWY 22R			KBTR	BATON ROUGE	LA (US)
IAP	ILS OR LOC RWY 18			KHDC	HAMMOND	LA (US)
IAP	RNAV (GPS) RWY 36			KHDC	HAMMOND	LA (US)
IAP	VOR RWY 18			KHDC	HAMMOND	LA (US)
IAP	VOR RWY 31			KHDC	HAMMOND	LA (US)
IAP	COPTER VOR/DME 121			KHUM	HOUMA	LA (US)
IAP	ILS OR LOC RWY 18			KHUM	HOUMA	LA (US)
IAP	RNAV (GPS) RWY 18			KHUM	HOUMA	LA (US)
IAP	VOR RWY 12			KHUM	HOUMA	LA (US)
IAP	VOR/DME RWY 30			KHUM	HOUMA	LA (US)
IAP	ILS OR LOC RWY 1			KMSY	NEW ORLEANS	LA (US)
IAP	ILS OR LOC RWY 10			KMSY	NEW ORLEANS	LA (US)
IAP	ILS OR LOC RWY 28		1	KMSY	NEW ORLEANS	LA (US)
IAP	ILS RWY 10 (CAT II,III)			KMSY	NEW ORLEANS	LA (US)
IAP	LOC RWY 19			KMSY	NEW ORLEANS	LA (US)
IAP	RNAV (GPS) Y RWY 10			KMSY	NEW ORLEANS	LA (US)
IAP	RNAV (GPS) Y RWY 28		2	KMSY	NEW ORLEANS	LA (US)
IAP	RNAV (RNP) Z RWY 10			KMSY	NEW ORLEANS	LA (US)
IAP	RNAV (RNP) Z RWY 28		2	KMSY	NEW ORLEANS	LA (US)
IAP	VOR/DME RWY 10			KMSY	NEW ORLEANS	LA (US)
IAP	VOR/DME RWY 36L			KNEW	NEW ORLEANS	LA (US)
IAP	VOR RWY 35			K1L0	RESERVE	LA (US)
IAP	WOLDE (RNAV)			KIAH	HOUSTON	TX (US)
STAR	AWDAD			KMSY	NEW ORLEANS	LA (US)
STAR	OLEDD			KMSY	NEW ORLEANS	LA (US)
STAR	RYTHM			KMSY	NEW ORLEANS	LA (US)
STAR	SLIDD			KMSY	NEW ORLEANS	LA (US)
STAR	AWDAD			KNEW	NEW ORLEANS	LA (US)
STAR	OLEDD			KNEW	NEW ORLEANS	LA (US)
STAR	RYTHM			KNEW	NEW ORLEANS	LA (US)
STAR	SLIDD			KNEW	NEW ORLEANS	LA (US)
STAR	COLUMBIA (RNAV)			KHOU	HOUSTON	TX (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6 **DATE OF REVISION:** 07/29/2010

REASON FOR REVISION:

QUALITY 4 CHECKED

INFORMATION ONLY

UPDATED FIX USE.
NOTE "HOLDING LIMITED TO ESTABLISHED PATTERNS" MOVED FROM REMARKS TO HOLDING RESTRICTIONS.
ADDED NOTE "PRECIPITOUS TERRAIN EVALUATION COMPLETED".

DEVELOPED BY:	**DATE:** 02/25/2010	**OFFICE:** AVN-120	**NAME:** JOSE ALFONSO (BEV L BORDY)
APPROVED BY:	**DATE:**	**OFFICE:** AVN-120	**NAME:** SUE CRUMB
	SIGNATURE:		

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZHU
ATC FACILITY: MSY/HUM
OTHER:

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **NEW ORLEANS** STATE: **LA**

AIRPORT NAME: **LOUIS ARMSTRONG NEW ORLEANS INTL** ID: **KMSY**

PROCEDURE: **RNAV (GPS) Z Rwy 28** AMDT: **1**

DOCKET#: **NOT REQUIRED**
(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 **3.05**
   (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 **285.55**
4. High Terrain in **FINAL** segment containing 1000' point **27**
5. Distance from **FAF** to 1500' point **4.63**
   (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 **285.55**
8. High Terrain in **FINAL** segment containing 1500' point **27**
9. Threshold Coordinates (if straight-in) ... **295921.97N** / **901506.83W***
10. ARP Coordinates ..... **295936.20N** / **0901528.90W**
11. Runway Approach End and distance furthest from ARP ..... RWY **R28**
    Distance **0.44** NM
12. FAF Coordinates ..... **295743.64N** / **0900820.09W**

REMARKS: Approach/Drawing attached.
***DISPLACED THRESHOLD**