

APPENDIX H

NOISE SCREENING REPORT

3 Noise Screening Tools

This section documents the methodology and limitations of noise screening tools in the Guidance to include the Operations test (OPS), the Traffic test (TRAF), the Lateral Movement test (LAT), the Altitude/Operations test (A/O), and the Area Navigation (RNAV) Overlay test (RNVO). These tools evaluate the potential noise impact of proposed air traffic actions relative to the noise screening thresholds identified in Table 3-1 and discussed in greater detail in the Guidance. The tests also consider FAA altitude limits for air traffic noise analyses, i.e., below 10,000 feet Above Ground Level (AGL) for departures, 7,000 feet AGL for arrivals, or up to 18,000 feet AGL over national parks or wilderness areas [6]. Based on the thresholds in Table 3-1, a detailed noise analyses is required when a proposed air traffic action would cause:

1. An increase of 1.5 decibel (dB) or greater for areas experiencing Day-Night Average Sound Levels (DNL) of 65 dB or greater.
2. An increase of 3 dB or more for areas experiencing DNL 60-65 dB.
3. An increase of 5 dB or more for areas experiencing DNL 45-60 dB.

Table 3-1. Noise Screening Change Thresholds

Proposed Action DNL Value (dB)	DNL Increase with Proposed Action (dB)
65 +	1.5 dB(1)
60-65	3.0 dB(2)
45-60	5.0 dB(3)

Source:

(1) FAA Order 1050.1E, Appendix A, 14.3; Part 150, Sec. 150.21(2) (d); FICON 1992 [7]

(2) FAA Order 1050.1E, Appendix A, 14.4c; FICON 1992

(3) FAA Order 1050.1E, Appendix A, 14.5e.

Inputs to noise screening tests are developed on an average annual day (AAD) basis, i.e., data representative of long-term variations of airport operations such as runway configurations, fleet mix, number of operations, etc. The objective of updating noise screening tools is to provide additional flexibility to the users within the limitations of FAA policies. The following sections document the basis for the noise screening tests in detail.

3.1 Operations Test

The OPS test helps determine if noise screening is required based on the total number of operations at the airport of interest. The OPS test is based on FAA Order 1050.1E, paragraph 14.6 requirement that no noise analysis is needed for proposals involving Design Group I and II airplanes (wingspan less than 79 feet) in Approach Categories A through D (landing speed less than 166 knots) operating at airports whose forecast operations in the period covered by the environmental review do not exceed 700 jet operations (2 average daily operations) or 90,000 annual propeller operations (247 average daily operations). To account for the increased

sensitivity to noise during certain periods, proposed operations between 10:00 p.m. and 07:00 a.m. must be multiplied by 10. In California, proposed operations between 7:00 p.m. and 10:00 p.m. must also be multiplied by 3.

Based on the above guidance, 700 jet operations were equated to 90,000 propeller operations such that the following direct relationship would be true:

$$\#Jet\ Ops = 700 - (0.0077778 \times \# Prop\ Ops)$$

Jet Ops is the number of jet operations not to exceed 700

Prop Ops is the number of propeller operations not to exceed 90,000

The above equation yields the maximum allowable number of jet operations given the number propeller operations (rounded to the nearest 5,000 operations) or vice versa.

Table 3-2 shows the resulting combinations of propeller and jet operations that must be exceeded to warrant further noise screening. The user can start with either the number of propeller operations or the number of jet operations. For example, if the annual number of jet operations was 700, the maximum allowable number propeller operations in order to pass the OPS test could not exceed zero (bold font). In a similar way, if the annual number of propeller operations was 5,000, the maximum allowable number jet operations in order to pass the OPS test could not exceed 662 (bold font).

Table 3-2. OPS Test for Airports

Annual Propeller Operations	Annual Jet Operations
0	700
5,000	662
10,000	622
15,000	584
20,000	544
25,000	506
30,000	466
35,000	428
40,000	388
45,000	350
50,000	310
55,000	272
60,000	232
65,000	194
70,000	154
75,000	116
80,000	76
85,000	38
90,000	0

Instrument Flight Procedure Changes Requiring Environmental Assessment

1. The following LIT VORTAC relocation driven terminal and enroute Instrument Flight Procedures (IFPs) changes are categorized as minor amendments that will not require flight track or altitude changes and therefore may be considered for Categorical Exclusion (CATEX). IFPs that will canceled without replacement and high altitude procedures or routes (FL 180 and above) are not included here as they not subject to environmental assessment. NOTE: hover over procedure name and click to link to IFP chart.

Batesville Regional (BVX), Batesville, AR

RNAV (GPS) RWY 8: The procedure will require the LIT VORTAC to HEPLU Initial Approach Fix (IAF) feeder route segment removed without replacement, no other changes required.

Bentonville Muni/Louise M Thaden Field (VBT), Bentonville, AR

BENTON SIX DEPARTURE: RADAR vector departure procedure will require only minor change to update or remove the LIT VORTAC data block depicted on chart.

Bill and Hillary Clinton National/Adams Field (LIT), Little Rock, AR

RNAV (GPS) RWY 4R: The procedure will require update to BRAUM Missed Approach Fix (MAF) fix-make up and depiction of BRAUM as a waypoint (WP). No other changes required.

RNAV (GPS) RWY 4L: The procedure will require update to BRAUM Missed Approach Fix (MAF) fix-make up and depiction of BRAUM as a waypoint (WP). No other changes required.

RNAV (GPS) RWY 18: Will require removal of the LIT to ALMOW IF/IAF feeder route segment without replacement. BIBBS IAF and DUMPI IAF will be retained as WPs (update fix make-up).

RNAV (GPS) RWY 22L: The procedure will require update to BAUDE Missed Approach Fix fix-make up and depiction of BAUDE as a waypoint (WP). No other changes required.

RNAV (GPS) RWY 22R: The procedure will require update to BAUDE Missed Approach Fix (MAF) fix-make up and depiction of BAUDE as a WP. No other changes required.

RNAV (GPS) RWY 36: Requires update to HIGHS MAF fix make-up and coding with future LIT facility location only.

Carlisle Muni (4M3), Carlisle, AR

RNAV (GPS) RWY 9: Will require update to the fix make-up of DUMPI and QIXTO IAFs and a change to fix depiction from conventional fixes to WPs. No other changes required.

Drake Field (FYV), Fayetteville, AR

RAZORBACK THREE DEPARTURE: RADAR vector departure procedure will require only minor a change to update or remove the LIT VORTAC data block depicted on chart.

Holley Mountain Airpark (2A2), Clinton, AR

RNAV (GPS) RWY 5: HAAWK IAF AND DUMPI feeder fix will require update to fix make-up and change to depiction as WPs.

Malvern Muni (M78), Malvern, AR

RNAV (GPS) RWY 22: Will require update to the fix make-up of TAYUV IAF and HERID feeder fixes, symbol depiction will change from conventional fixes to WPs. No other changes.

Memorial Field (HOT) Hot Springs, AR

ILS or LOC RWY 5: Will require amendment to the SOCKS MAF intersection radial from the current LIT VORTAC R-239 to future LIT R-236. No track, altitude, or other changes required.

VOR RWY 5: Same amendment of SOCKS Missed Approach Fix (MAF) as above. No track, altitude, or other changes required.

Memphis Intl (MEM), Memphis, TN

CONDOR THREE ARRIVAL (RNAV): Will require renaming of the LIT transition to the LITTR WP transition and change of VORTAC symbol to waypoint (WP). LITTR WP is collocated with current LIT VORTAC therefore no track or altitude change required.

HOBRK THREE ARRIVAL (RNAV): Rename the LIT transition to the LITTR transition and change VORTAC symbol to waypoint (WP). LITTR WP is collocated with current LIT VORTAC so no track or altitude change required.

North Little Rock Muni (ORK) North Little Rock, AR

RNAV (GPS) RWY 5: Will require removal of IAF PARON without replacement. Update fix make-up of IAF BEGAN and IF TADAW to remove LIT VORTAC and chart both as WPs. Update BRAUM MAF fix-make up. No other changes required.

Northwest Arkansas Rgnl (XNA), Fayetteville/Springdale/Rogers, AR

HIGHFILL EIGHT DEPARTURE: RADAR vector departure procedure will require only minor a change to update or remove the LIT VORTAC data block depicted on chart.

Pine Bluff Regional (PBF) Pine Bluff, AR

ILS OR LOC RWY 18: LIT VORTAC radial will be removed from NETAINT fix make-up, changing NETAINT to a DME fix. Monticello (MON) VOR/DME will also be removed from RISON MAF due to unrelated VOR MON program facility decommissioning. No other changes.

Pine Bluff Regional (PBF) Pine Bluff, AR

RNAV (GPS) RWY 18: MOMTE IAF should be depiction should change to a WP. No other changes.

Russellville Regional (RUE), Russellville, AR

RNAV (GPS) RWY 25: Will require removal of BIBBS IAF and deletion of HAAWK feeder segment without replacement, no other changes required.

Saline Country Regional (SUZ), Benton, AR

RNAV (GPS) RWY 2: Will require an update of PARON MAF and HERID feeder fix make-up and depiction of them as WPs. No track or altitude changes required.

Searcy Muni (SRC) Searcy, AR

ILS or LOC RWY 1: Will require removal of TAFTE to CERCY LOM/IAF feeder route without replacement. Removal of LIT feeder route segment from LIT to CERCY without replacement and annotation with RADAR required.

Springdale Muni (ASG), Springdale, AR

SPRING FIVE DEPARTURE: RADAR vector departure procedure will require only minor a change to update or remove the LIT VORTAC data block depicted on chart.

Stuttgart Muni Carl Humphrey Field (SGT), Stuttgart, AR

ILS or LOC RWY 36: Will have the LIT VORTAC to STUTT LOM/IAF feeder route segment removed without replacement, no other changes required.

RNAV (GPS) RWY 18: Will require the LIT VORTAC to NIBIC IAF and HILLE to WILUS IAF feeder routes segments removed without replacement. No other changes.

Rogers Executive-Carter Field (ROG), Rogers, AR

ROGERS THREE DEPARTURE: RADAR vector departure procedure will require only minor a change to update or removed the LIT VORTAC data block depicted on chart.

2. The following Victor Airway (routes below FL180) will be canceled and replaced with GPS routes (T-routes) to mitigate the LIT facility relocation impact on terminal and enroute ATC operations by not requiring track or altitude changes and therefore negating any environmental impact.

V534 and **V532** from Fort Smith (FSM) VORTAC to LIT VORTAC would be canceled without replacement due to being redundant little utilized routes.

V74 will be canceled from FSM VORTAC to Pine Bluff (PBF) VOR/DME and replaced with a T-route with identical tracks and altitudes.

V124 will be canceled from Paris (PRX) VOR/DME (planned decommissioning FY23) to Gilmore VOR/DME (planned decommissioning TBD) and replaced with a T-route with identical tracks and altitudes.

V573 will be canceled from Sulphur Springs (SLR) VOR/DME (planned decommissioning FY23) to LIT VORTAC and replace with a T-route with identical tracks and altitudes.

V54 will be canceled from Texarkana (TXK) to Marvel (UJM) VOR/DME and replace with a T-route with identical tracks and altitudes.

V305 will be canceled from El Dorado (ELD) VOR/DME to Malden (MAW) VORTAC (planned decommissioning TBD) and replaced with a T-route with identical tracks and altitudes.

3. The following Instrument Flight Procedures have been identified as requiring major amendments which may result in flight track or altitude changes.

Bill and Hillary Clinton National/Adams Field (LIT), Little Rock, AR

ILS OR LOC RWY 4L: Will require removal of MOMTE IAF arc initial without replacement, deletion of LIT to LASKY NDB feeder route and replacement with new feeder route from PBF VOR/DME to LASKY NDB. Update to ROLAN MAF and missed approach instructions from the current LIT R-303/16.7 DME to future LIT 279/14.7 DME. Amend the holding pattern at ROLAN from holding inbound on 123 heading to holding inbound on 099 heading.

ILS or LOC RWY 4R: Will require removal of MOMTE IAF arc initial without replacement. Removal of LIT to GETTY INT/IAF feeder route segment and replacement with new PBF VOR/DME to GETTY INT/IAF feeder route. Amend MAF/radial from current LIT VORTAC R-089 to future LIT VORTAC R-122 at 17 DME fix. Amend the ATERS MAF holding pattern from holding inbound heading 269 to holding inbound on heading 302. Update fix make-up on GETTY INT and OGRAY INT to DME fixes only.

ILS OR LOC RWY 22L: Will require removal of QIXTO IAF arc initial without replacement, deletion of DUMPI to CALAY feeder route and replacement with new feeder PBF VOR/DME to JOREG INT. Amend JOREG to make an INT IAF and add procedure turn (PT).

ILS OR LOC RWY 22R, (SA CAT I) (CAT II & III): Will require removal of LIT to SHERR INT feeder route and replacement with new PBF VOR/DME to SHERR INT feeder. Update to missed approach radial and MAF from current LIT R-250/22 DME to future LIT R-239/26.3 DME. Update fix make-up for IAFI DUMPI, IF HIGHS INT and BEGAN MAF holding. **Note:** ILS RWY 22R SA CAT I and ILS RWY 22R CAT II/III share identical flight profiles, therefore only one chart is depicted with the changes required in all three.

North Little Rock Muni (ORK) North Little Rock, AR

LOC/DME RWY 5: Will require removal of PARON IAF without replacement and annotation with RADAR required, update OCAPU MAF make-up from the current LIT R-352/25 DME fix to the future LIT R-351/17 DME fix at same altitude.

Saline Country Regional (SUZ), Benton, AR

ILS or LOC/DME RWY 2: Will require addition of a new feeder route from PBF VOR/DME to REMBE IF/IAF. Deletion of the LIT to REMBE feeder route and update to REMBE fix make-up. MAF holding will change from current LIT R-250/22 DME to future LIT R-239/26 DME. Missed approach holding pattern inbound heading will change from 070 to 059.

RNAV (GPS) RWY 20: Will require removal of ROLAN IAF without replacement, amendment of ZITPU from an IF to and IF/IAF and the addition of a holding in-lieu of procedure turn pattern. A straight-in "I" configuration TAA will be added. Update MALVE MAF fix make-up and depict as WP.

LITTLE ROCK, ARKANSAS

AL-233 (FAA)

18284

LOC/DME I-LIT 110.3 Chan 40	APP CRS 047°	Rwy Idg 8273 TDZE 258 Apt Elev 266
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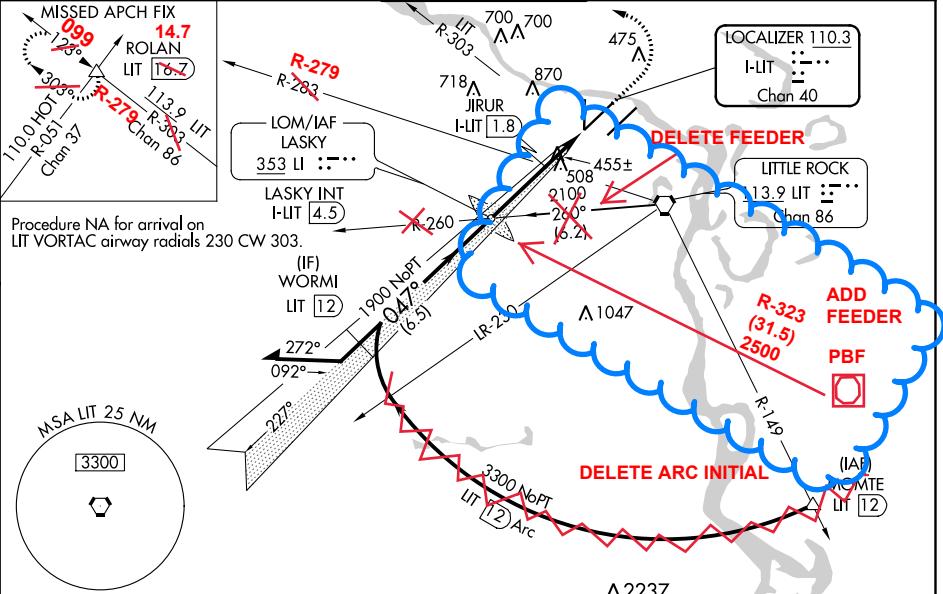
BILL AND HILLARY CLINTON NATIONAL/ADAMS FIELD (LIT)

ILS or LOC RWY 4L

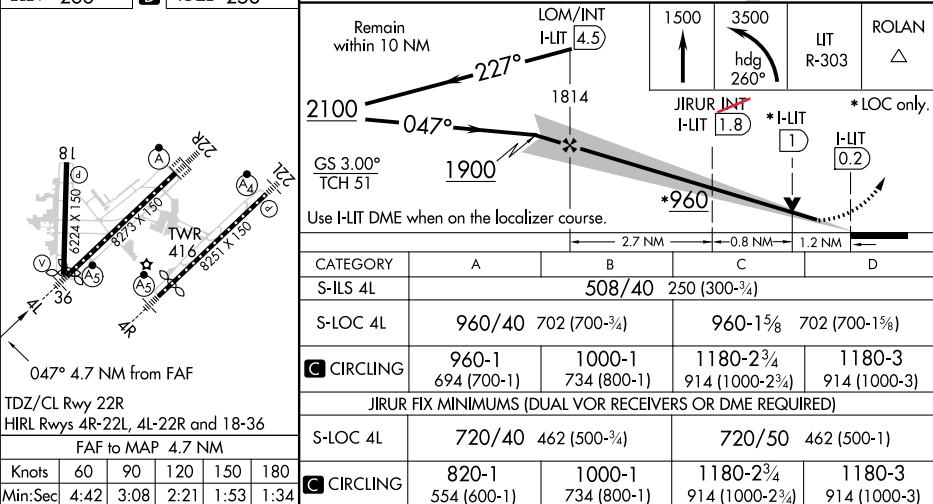
Inop table does not apply to S-ILS 4L all Cats. Simultaneous approach authorized. Rwy 4L helicopter visibility reduction below RVR 4000 NA. LOC minimums: For inop ALS, increase S-LOC 4L Cats A/B visibility to 1 SM and Cats C/D visibility to 2 SM. JIRUR fix minimums: For inop ALS, increase S-LOC 4L Cats A/B visibility to 1 SM and Cats C/D visibility to 1 1/2 SM.

MALS R

MISSSED APPROACH: Climb to 1500 then climbing left turn to 3500 on heading 260° and on LIT VORTAC R-303 to **R-279** ROLAN INT/LIT 16-7 DME and hold. **14.7**

D-ATIS
125.65LITTLE ROCK APP CON
135.4 353.6ADAMS TOWER
118.7 257.8GND CON
121.9 339.8CLNC DEL
118.95

ELEV 266 D TDZE 258

TDZ/CL Rwy 22R
HIRL Rwy 4R-22L, 4L-22R and 18-36

FAF to MAP 4.7 NM

Knots	60	90	120	150	180
Min:Sec	4:42	3:08	2:21	1:53	1:34

LITTLE ROCK, ARKANSAS

Amdt 26B 11OCT18

BILL AND HILLARY CLINTON NATIONAL/ADAMS FIELD (LIT)
34°44'N-92°13'W

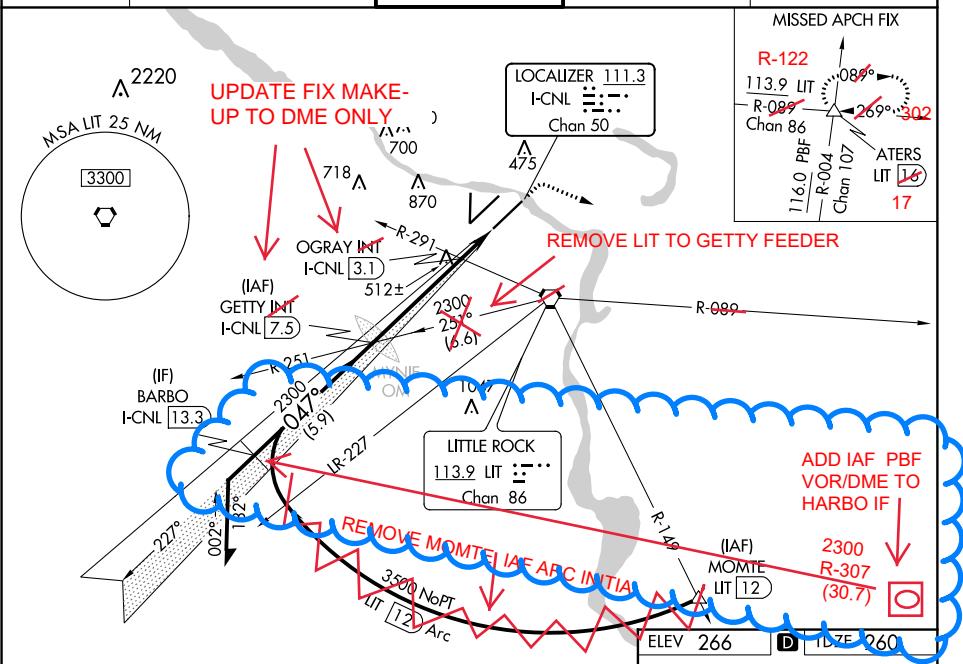
ILS or LOC RWY 4L

LOC/DME I-CNL	APP CRS	Rwy Idg	7201
111.3	047°	TDZE	260
Chan 50		Apt Elev	266

BILL AND HILLARY CLINTON NATIONAL/ADAMS FIELD (LIT)

ILS or LOC RWY 4R

▀ Inop table does not apply to S-ILS 4R.
 ▲ Rwy 4R helicopter visibility reduction below $\frac{3}{4}$ NA.
 Simultaneous approach authorized.

MALS R
(AS) MISSSED APPROACH: Climb to 800 then climbing right turn to 4000 on heading 090° and LIT VORTAC R-089 to ATERS INT/LIT 16 DME and hold.
R-122D-ATIS
125.65LITTLE ROCK APP CON
135.4 353.6ADAMS TOWER
118.7 257.8GND CON
121.9 339.8CLNC DEL
118.95

Remain within 10 NM	GETTY INT I-CNL [7.5]		800	4000	LIT R-089	ATERS
2300	047°	GS 3.00°	2300	047°		
TCH 49						
Use I-CNL DME when on the localizer course.			*880			
CATEGORY	A	B	C	D		
S-ILS 4R		510/40	250 (300- $\frac{3}{4}$)			
S-LOC 4R	880/40	620 (700- $\frac{3}{4}$)	880-1 $\frac{3}{8}$	620 (700- $\frac{3}{4}$)		
C CIRCLING	880-1 614 (700-1)	1000-1 734 (800-1)	1180-2 $\frac{3}{4}$ 914 (1000-2 $\frac{3}{4}$)	1180-3 914 (1000-3)		
OGRAY (DUAL VOR RECEIVERS OR DME REQUIRED)						
S-LOC 4R	780/40	520 (600- $\frac{3}{4}$)	780/55	520 (600-1)		
C CIRCLING	820-1 554 (600-1)	1000-1 734 (800-1)	1180-2 $\frac{3}{4}$ 914 (1000-2 $\frac{3}{4}$)	1180-3 914 (1000-3)		
FAF to MAP 6.1 NM						
Knots	60	90	120	150	180	
Min:Sec	6:06	4:04	3:03	2:26	2:02	

LOC/DME I-BWY 110.7 Chan 44	APP CRS 228°	Rwy Idg 7200 TDZE 259 Apt Elev 266
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BILL AND HILLARY CLINTON NATIONAL/ADAMS FIELD (LIT)

DME or RADAR required.

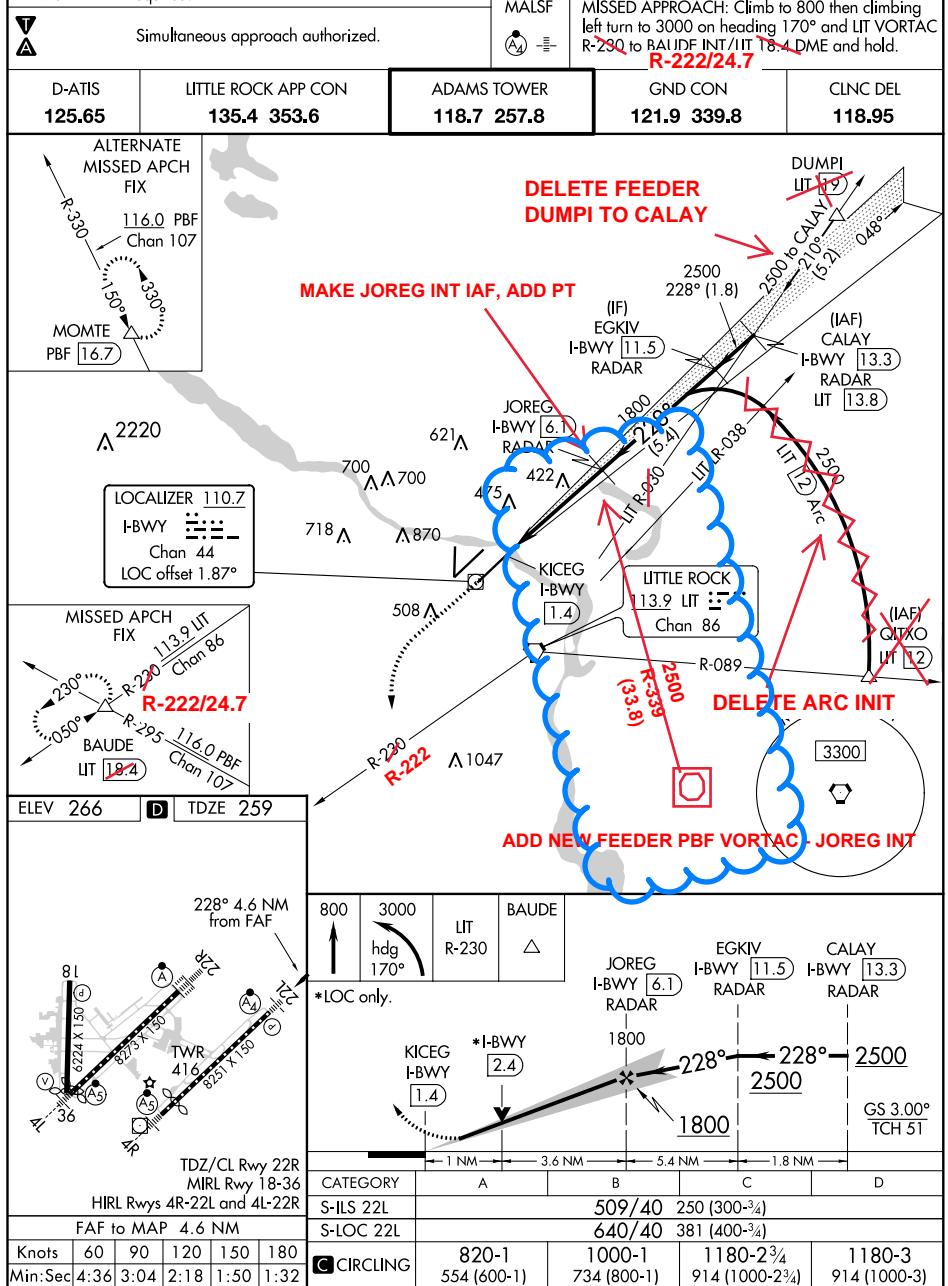


Simultaneous approach authorized.

MALS F



ILS or LOC RWY 22L

MISSIED APPROACH: Climb to 800 then climbing left turn to 3000 on heading 170° and LIT VORTAC R-230 to BAUDE INT/IIT T84 DME and hold.
R-222/24.7

NOTE: THESE SAME CHANGES ALSO APPLY TO ILS

RWY 22R SA CAT I AND CAT II/III APPROACHES

AL-233 (FAA)

18312

LITTLE ROCK, ARKANSAS

LOC/DME I-AAY 110.3 Chan 40	APP CRS 227°	Rwy Idg TDZE Apt Elev	8273 262 266
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BILL AND HILLARY CLINTON NATIONAL/ADAMS FIELD (LIT)

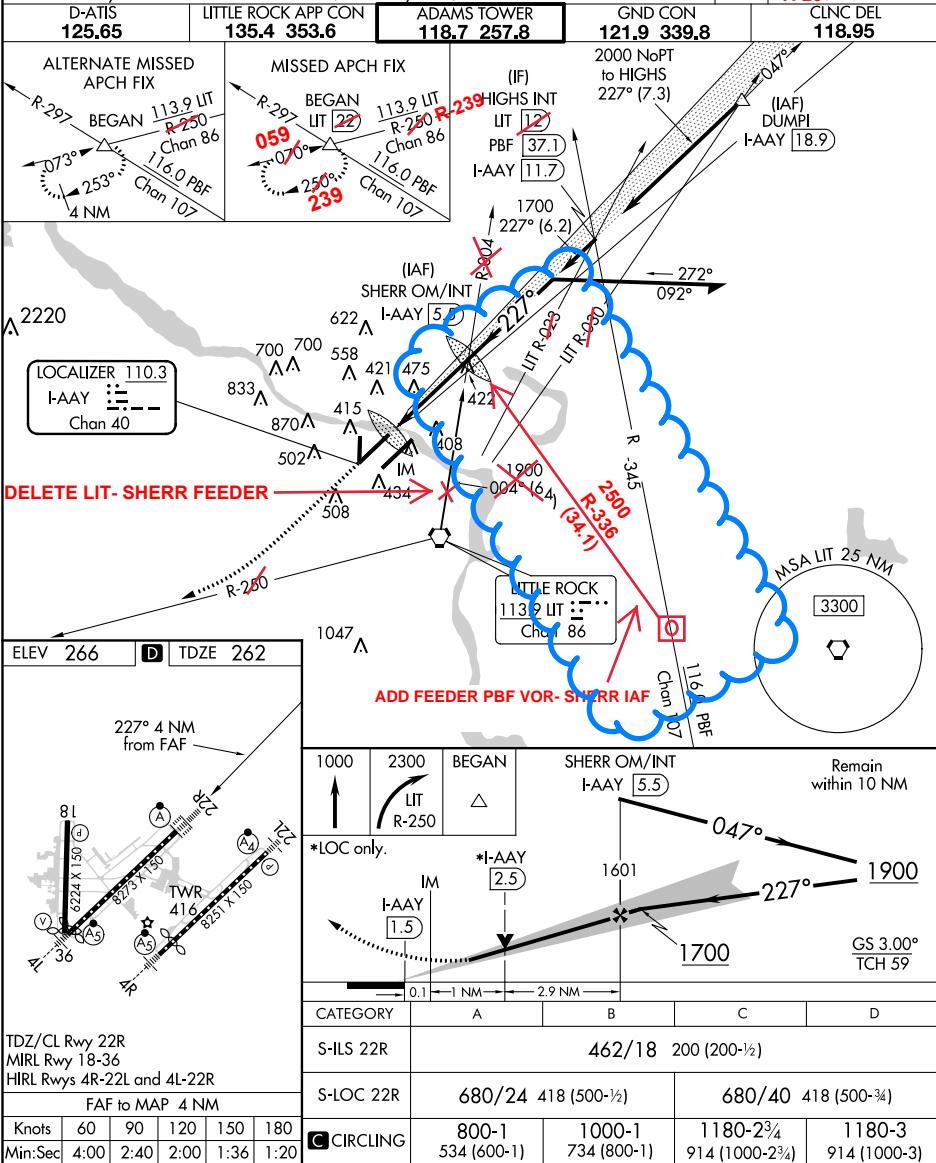
ILS or LOC RWY 22R

DME required.

▲ Simultaneous approach authorized with Rwy 22L, VDP NA when using Stuttgart altimeter setting. When local altimeter setting not received, use Stuttgart altimeter setting; increase all DA to 544 feet and increase S-ILS all Cats visibility to RVR 2200; increase all MDAs 100 feet and increase S-LOC Cat C/D visibility to RVR 5500, and Circling Cat B visibility to 1/4 SM, Cat C visibility to 3 SM. For inop ALS, increase S-LOC Cat C/D visibility to RVR 6000. For inop ALS when using Stuttgart altimeter setting, increase S-ILS all Cats visibility to RVR 4500 and S-LOC Cat C/D visibility to 1/2 SM.

ALSF-2

MISSSED APPROACH:
Climb to 1000 then climbing right turn to 2300 on LIT VORTAC R-250 to BEGAN INT/LIT 22 DME and hold.
R-239/26.3



BILL AND HILLARY CLINTON NATIONAL/ADAMS FIELD (LIT)

34°44'N-92°13'W

ILS or LOC RWY 22R

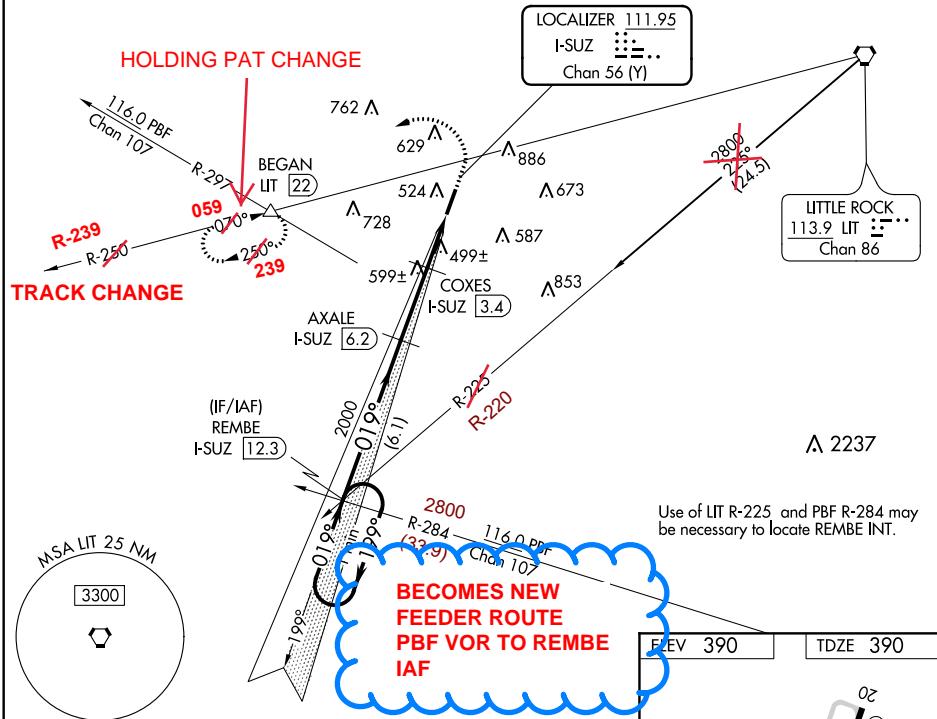
LOC/DME I-SUZ 111.95 Chan 56 (Y)	APP CRS 019°	Rwy Idg 5002 TDZE 390 Apt Elev 390
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T Visibility reduction by helicopters NA. Use Little Rock/Bill and Hillary Clinton
A NA National/Adams Field altimeter setting; when not received, use Hot Springs altimeter setting and increase all DA 41 feet and all MDA 60 feet. Increase S-ILS 2 all Cals visibility $\frac{1}{4}$ mile.

ILS or LOC/DME RWY 2 SALINE COUNTY RGNL (SUZ)

MISSIED APPROACH: Climb to 1000 then climbing left turn to 2300 via LIT VORTAC R-250 to BEGAN INT/LIT 22 DME and hold.

AWOS-3 132.125	LITTLE ROCK APP CON 119.5 306.2	UNICOM 122.8 (CTAF) 0
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One Minute Holding Pattern	VGSI and ILS glide-path not coincident (VGSI Angle 3.00/TCH 56).		
REMBE I-SUZ 12.3	AXALE I-SUZ 6.2	COXES I-SUZ 3.4	I-SUZ 1.3
2800	019°	1000 2300 LIT R-250	BEGAN
GS 3.00° TCH 45	2000	* LOC only	
2800	019°	1100	
CATEGORY	A	B	C
S-ILS 2	693-1	303 (400-1)	
S-LOC 2	820-1 430 (500-1)	820-1 430 (500-1)	820-1 430 (500-1)
CIRCLING	1040-1 650 (700-1)	1140-1 750 (800-1)	1140-2 750 (800-2)

5002 X/200
019° 4.9 NM from FAF
REIL Rwy 2 and 20 MIRL Rwy 2-20

WAAS CH 40309 W20A	APP CRS 199°	Rwy Idg TDZE Apt Elev	5002 387 390
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RNAV (GPS) RWY 20

SALINE COUNTY RGNL (SUZ)

▼ Baro-VNAV NA. DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. ▲ NA Use Little Rock/Bill and Hillary Clinton National/Adams Field altimeter setting; when not received, use Hot Springs altimeter setting and increase all DA 41 feet and all MDA 60 feet. Increase LPV visibility all Cats 1/4 mile, LNAV/VNAV visibility Cat C 1/4 mile and LNAV visibility Cat C, D 1/4 mile.	MISSSED APPROACH: Climb to 2000 direct UCICE and via 222° track to MALVE and hold.
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AWOS-3 132.125	LITTLE ROCK APP CON 119.5 306.2	UNICOM 122.8 (CTAF) 0
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