



# NCP OVERVIEW

The Louisville Regional Airport Authority (LRAA) is updating the Airport Noise Compatibility Program (NCP Update) for the Louisville Muhammad Ali International Airport (SDF). This update evaluates and recommends potential measures to address incompatible land uses identified in the 2024 Noise Exposure Map, which was submitted to the Federal Aviation Administration (FAA) on December 23,

2024. In accordance with Title 14 of the Code of Federal Regulations Part 150, this phase is referred to as the Noise Compatibility Program (NCP). At the end of the process, LRAA will submit an updated NCP to the FAA with recommended measures to address the incompatible land uses identified in the 2024 Noise Exposure Map.

## Noise Compatibility Program Development

**Step 1** **Identify Incompatible Land Uses**  
Existing conditions Noise Exposure Map  
Forecast Conditions Noise Exposure map

**Step 2** **Consider Noise Abatement Strategies**  
*Reduce* exposure over incompatible uses.  
*Limit* growth in exposure over incompatible uses.

**Step 3** **Consider Noise Mitigation Strategies**  
*Mitigate* residential incompatible uses.  
*Prevent* introduction of new incompatible uses.

**Step 4** **Consider Program Management Measures**  
*Implement* and *promote* measures.  
*Monitor* and *report* on effectiveness.  
*Update* Noise Exposure Maps.  
*Revise* NCP as appropriate.

## Noise Compatibility Measures

### Noise Abatement Strategies

- Flight tracks
- Preferential runway use
- Arrival/departure procedures
- Airport layout modifications
- Use restrictions

### Noise Mitigation Strategies

- Land acquisition
- Sound insulation
- Avigation easements
- Prevention
- Land use controls
- Real estate disclosures

### Program Management Measures

- Implementation
- Promotion
- Monitoring
- Reporting
- NEM updating
- NCP Revision

## Analysis and Selection Process

- 1) Evaluate effectiveness in addressing objectives
- 2) Evaluate feasibility (economic, operational, safety, etc.)
- 3) Select most effective "package" of measures
- 4) Identify implementation responsibilities, schedule, etc.
- 5) If not recommended, document reason(s)



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## Previous Noise Compatibility Program Summary

The 2003 NCP recommended 18 noise abatement measures, 19 noise mitigation (or land use) measures, and 5 program management measures to address the incompatible land uses resulting from SDF aircraft operations. These recommended measures were documented in the 2024 Noise Exposure Map document, along with the implementation status.

The LRAA-recommended noise abatement measures fall into the following categories:

1. Preferential runway use, including the contraflow program
2. Offset departure and arrival paths to avoid residential neighborhoods
3. Flight paths and aircraft equipment which have been superseded by the FAA’s implementation of a redesigned airspace and FAA requirements for aircraft equipage
4. Use of the FAA’s defined Distant Noise Abatement Departure Profile (NADP-2)

5. Continuation of the LRAA restriction of aircraft engine run-ups

The LRAA-recommended noise mitigation (land use) measures included:

1. Land acquisition
2. Sound insulation
3. Avigation easements
4. Sales assistance
5. Noise barrier/berms
6. Compatible land use planning with local jurisdictions including overlay zones and building codes for noise-sensitive structures

The LRAA-recommended program management measures resulted in:

1. The establishment of the SDF Noise Office
2. The establishment of the Community Noise Forum (CNF)
3. The acquisition of a flight track monitoring system

## Tentative Schedule for the SDF Noise Compatibility Program Update

Description	Tentative Dates
<b>Project Kickoff:</b> Airport and CNF Meeting 1	February 2026
<b>Noise Abatement Strategies:</b> CNF Meeting 2, TAC Meeting 1, and Public Open House 1	April 2026
<b>Noise Mitigation Strategies:</b> CNF Meeting 3, TAC Meeting 2, and Public Open House 2	July 2026
<b>LRAA-Recommended Measures:</b> CNF Meeting 4 and TAC Meeting 3	September 2026
<b>Submit Preliminary Draft NCP to FAA</b>	October 2026
<b>Draft Noise Compatibility Program:</b> CNF Meeting 5, TAC Meeting 4, and Public Open House 3	October 2026
<b>NCP Public Comment Period and Public Hearing</b>	December 2026
<b>Submit Final NCP to FAA</b>	January 2027