



# FAR Part 150 Update – Duluth (DLH)

Planning Advisory Committee Meeting | November 2021



# Agenda

- Noise Abatement Screening
- Land Use Mitigation Recommendations
- Program Management Recommendations
- NCP Estimated Cost
- Next Steps

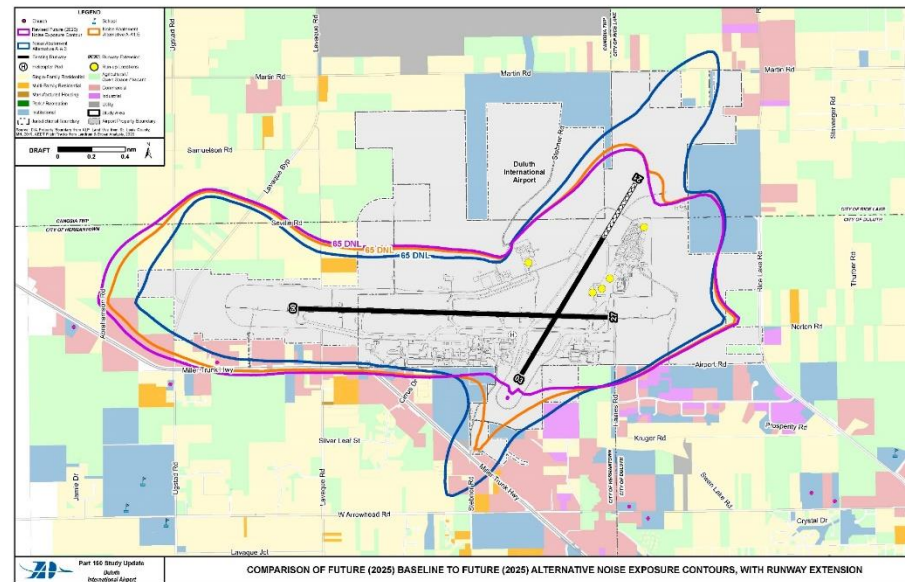
# Noise Abatement Screening

Eight (8) Noise Abatement options considered

- Flight Track modifications (1) – approved in previous NCP, considered implemented
- Runway Use modifications (1) – no reductions to impacted homes
- Aircraft Operational Procedure modifications (3) – no reduction and/or increase in number of impacted homes
- Airport Facility modifications (2) – potential reduction in impacted homes as well as potential to impact new homes
- Airport Facility Restrictions (1) – Significant loss in revenue and tax base, FAA has never approved such restrictions

One (1) Airport Facility (Runway 03/21 Extension) modification was recommended for further analysis

- Not recommended based on:
  - Lack of significant reduction in impacted homes
  - Potential to impact new homes
  - Cost (estimated at ~ 30 million)



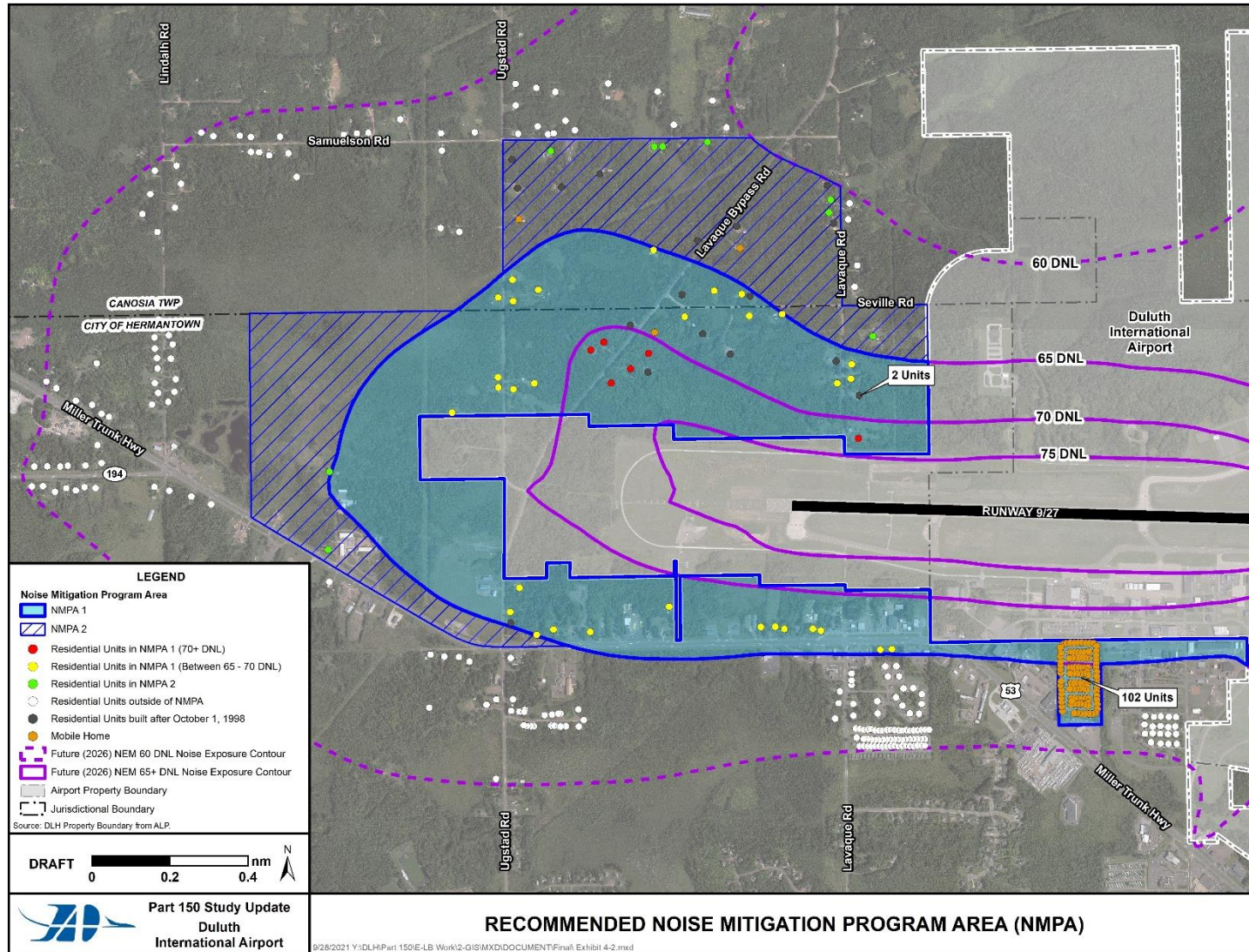
# Land Use Mitigation - Recommendations

MEASURE	RESPONSIBLE PARTY	COST TO AIRPORT	COST TO LOCAL GOVERNMENTS	COST TO USERS	IMPLEMENTATION STATUS
<b>CORRECTIVE LAND USE MITIGATION MEASURES</b>					
<p><i>(formerly 1997 NCP Measure M-1)</i>  <b>Measure M-A:</b>            Offer Residential Sound Insulation Program to Single- and Multi-Family Homes (47 units) within the 65+ DNL Noise Contour.</p> <p>Offer Residential Sound Insulation Program to Single-Family Homes (17 units) within the Block Rounding Area Outside of the 65 DNL Noise Contour</p>	DAA	<p>It is estimated 47 homes are located within the 65+ DNL noise contour plus an additional 17 homes in the block rounding area outside the 65 DNL. If 100% of all homes participated the cost to insulate all homes is estimated at \$4,000,000 which includes all hard costs (construction) and soft costs (administrative)</p> <p>Federal AIP funding likely available (80% FAA share/20% local airport share)</p>	None	None	<p>This is a measure that was never implemented from the 1997 NCP and should be continued with modification to include all properties identified within the 65+ DNL and the properties identified in the block rounding area outside the 65 DNL.</p>
<p><b>Measure M-B:</b>            Offer Land Acquisition Program to Single-Family Homes (7 homes) within the 70+ DNL Noise Contour</p>	DAA	<p>It is estimated at \$2,450,000 if 100% of homes participated.</p> <p>Federal AIP funding likely available (80% FAA share/20% local airport share)</p>	Loss of tax base	None	This is a new measure
<p><b>Measure M-C:</b>            Offer Land Acquisition Program to Mobile Homes within NMPA #1 (103 Mobile Homes)</p>	DAA	<p>It is estimated at \$11,568,000 depending upon the level of participation. It includes the cost of the 102 mobile homes and loss of income for owner of the mobile home park (cost of mobile homes and mobile home park), and 1 mobile home property located to the east of Lavaque Bypass Road within the 65 DNL contour (cost of single mobile home and property).</p> <p>Federal AIP funding likely available (80% FAA share/20% local airport share)</p>	Loss of tax base	None	This is a new measure

# Land Use Mitigation - Recommendations

MEASURE	RESPONSIBLE PARTY	COST TO AIRPORT	COST TO LOCAL GOVERNMENTS	COST TO USERS	IMPLEMENTATION STATUS
<b>CORRECTIVE LAND USE MITIGATION MEASURES</b>					
<b>Measure M-D:</b> Offer avigation easement to owner occupied single-family homes within NMPA #1 and NMPA #2 if acquisition and/or sound insulation is declined.	DAA	The estimated cost of each avigation easement is up to \$3,000 per home. Since the final cost of the measure is dependent on the number of property owners that decline acquisition and/or sound insulation an estimated overall total was not calculated.  Federal AIP funding likely available (80% FAA share/20% local airport share)	None	None	This is a new measure
<b>Measure M-E:</b> Offer avigation easement to 1 owner occupied mobile home within NMPA #1 if acquisition is declined.	DAA	The estimated cost of each avigation easement is up to \$6,000 per home.  Federal AIP funding likely available (80% FAA share/20% local airport share)	None	None	This is a new measure
<b>Measure M-F:</b> Offer avigation easement to 2 owner occupied mobile homes within NMPA #2.	DAA	The estimated cost of each avigation easement is up to \$12,000 (\$6,000 max per mobile home).  Federal AIP funding likely available (80% FAA share/20% local airport share)	None	None	This is a new measure

# Land Use Mitigation - Recommendations



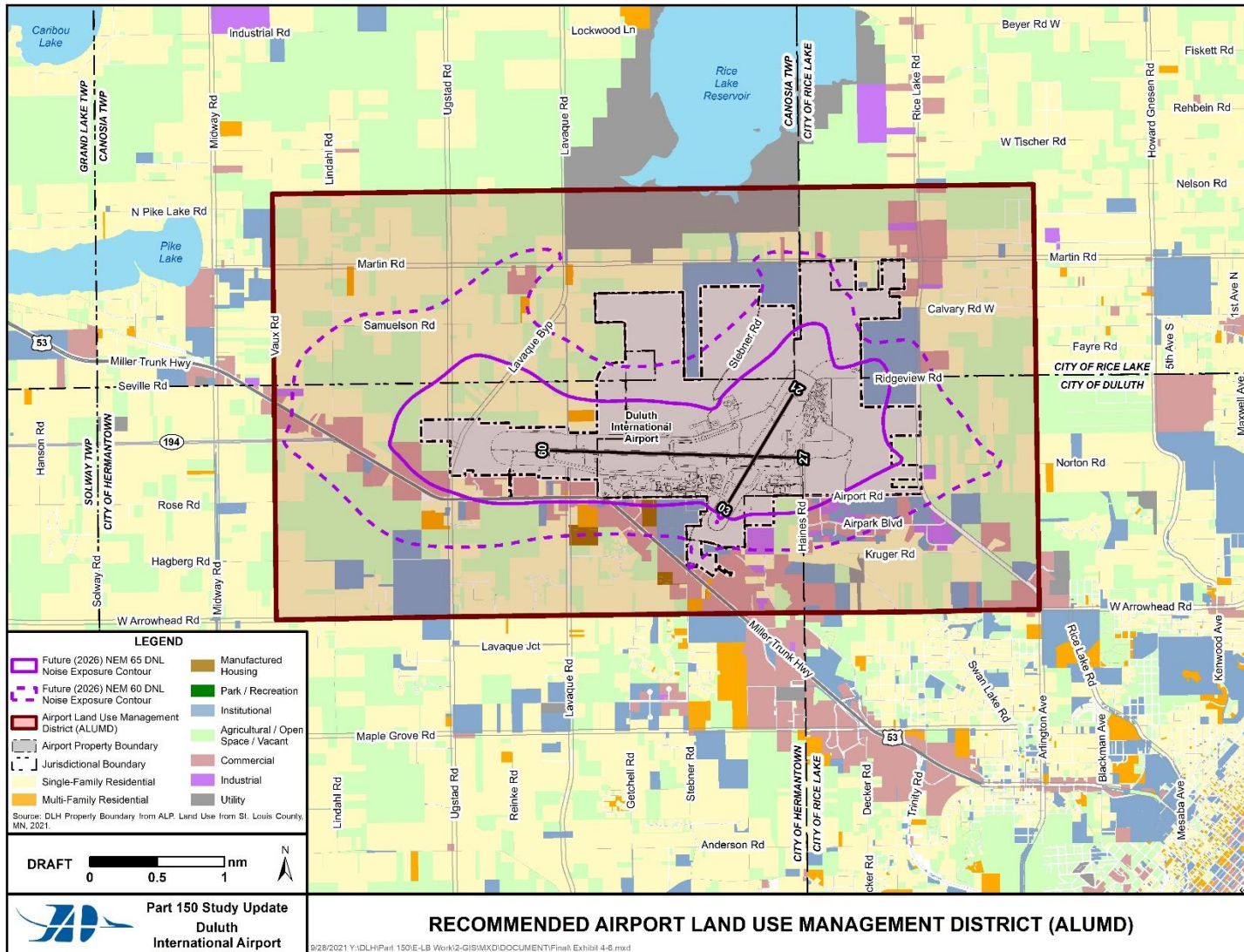
LAND USE	NMPA1		NMPA2		TOTAL	
	TOTAL HOUSING UNITS	POPULATION	TOTAL HOUSING UNITS	POPULATION	TOTAL HOUSING UNITS	POPULATION
Single-Family Residential	45	93	17	40	62	133
Multi-Family Residential	2	4	0	0	2	4
Mobile Homes	103	193	2	5	105	198
<b>Total</b>	<b>150</b>	<b>290</b>	<b>19</b>	<b>45</b>	<b>169</b>	<b>335</b>

\* Not all properties will meet eligibility requirements during testing phases of the Sound Insulation Program

# Land Use Mitigation - Recommendations

MEASURE	RESPONSIBLE PARTY	COST TO AIRPORT	COST TO LOCAL GOVERNMENTS	COST TO USERS	IMPLEMENTATION STATUS
<b>PREVENTATIVE LAND USE MITIGATION MAEASURES</b>					
<i>(formerly 1997 NCP Measure M-1)</i> <b>Measure M-G:</b> Develop an Airport Land Use Management District (ALUMD)	DAA, Cities of Duluth, Hermantown, Rice Lake, Saint Louis County	Minimal costs of up to \$50,000	None	None	This is a new measure
<b>Measure M-H:</b> Adopt Updated Subdivision Regulations	DAA, Cities of Duluth, Hermantown, Rice Lake, Saint Louis County	Minimal costs of up to \$50,000	Loss of tax base	None	This is a new measure
<b>Measure M-I:</b> Adopt Improved Building Codes	DAA, Cities of Duluth, Hermantown, Rice Lake, Saint Louis County	Minimal costs of up to \$50,000	Minimal administrative costs	None	This is a new measure
<b>Measure M-J:</b> Develop a Voluntary Fair Disclosure Program	Duluth Board of Realtors, Lake Superior Area Realtors, Cities of Duluth, Hermantown, Rice Lake, Saint Louis County	Minimal costs of up to \$50,000	Minimal administrative costs	None	This is a new measure

# Land Use Mitigation - Recommendations



## • Proposed Airport Land Use Management District (ALUMD)

- West Boundary – Vaux Rd. & Ext.
- South Boundary – Arrowhead Rd.
- East Boundary – Drake Rd. & Ext.
- North Boundary – Nelson Rd. & Ext.

Comments and Questions?

# Program Management - Recommendations

MEASURE	RESPONSIBLE PARTY	COST TO AIRPORT	COST TO LOCAL GOVERNMENTS	COST TO USERS	IMPLEMENTATION STATUS
<b>PROGRAM MANAGEMENT MEASURES</b>					
<p><i>(formerly 1997 NCP Measure A-1)</i>  <b>Measure P-A:</b>                      Continue Logging of Noise Complaints</p>	DAA and MnANG	Minimal administrative costs to answer telephones and to log noise complaints	None	None	This is a continuation of the existing process with a slight modification to be undertaken by the DAA and MnANG
<p><i>(formerly 1997 NCP Measure A-2)</i>  <b>Measure P-B:</b>                      Initiate Community Roundtable or Noise Abatement Committee</p>	DAA	Minimal administrative costs to participate on a regular basis	Minimal administrative costs to participate on a regular basis	None	This is considered a new measure since it was never implemented in the previous NCP.
<p><b>Measure P-C:</b>                      Perform regular updates to the NEMs and review of NCP</p>	DAA	NEM Update: \$350,000 to \$400,000 NEM/NCP Update: \$650,000 to \$750,000 Federal AIP funding likely available (80% FAA share/20% local airport share)	Minimal administrative costs to participate in study	None	This is a new measure

# NCP Estimated Total Cost

TYPE OF MEASURE	DIRECT COST (TOTAL)	DIRECT COST TO FAA (80% SHARE)	DIRECT COST TO AIRPORT (20% SHARE)	DIRECT COST TO LOCAL GOVERNMENT	DIRECT COST TO USERS
Land Use Mitigation Alternatives (Corrective) <sup>(1)</sup>	\$18,000,000	\$14,400,000	\$3,600,000	None	None
Land Use Mitigation Alternatives (Preventative)	\$200,000	\$160,000	\$40,000	Minimal	None
Program Management Alternatives	\$350,000 - \$750,000	\$280,000 - \$600,000	\$70,000 - \$150,000	Minimal	None
<b>TOTAL</b>	<b>Approximately \$19,000,000 - plus administrative costs</b>	<b>Approximately \$15,200,000 plus administrative costs</b>	<b>Approximately \$3,800,000 plus administrative costs</b>	<b>Minimal administrative costs; plus potential loss of tax base</b>	<b>None</b>

Notes: (1) Total cost for land use mitigation measures is the maximum possible mitigation cost and assumes 100 percent participation in program by eligible property owners. Property owners participating would also have to ensure they meet both the eligibility requirements for interior noise levels and the year the property was built. In addition, some property owners may choose one measure over another which would reduce overall costs. All costs are in 2020 dollars

- **DAA is actively seeking funding support from the 148<sup>th</sup> Fighter Wing**
  - Assistance in funding 20% local share if NCP measures are approved by FAA and awarded AIP funding at a later date.
  - 148<sup>th</sup> funding assistance is vital to fully implementing land use mitigation measures.

Comments and Questions?

# Public Involvement

- Five (5) Planning Advisory Committee (PAC) meeting
- Four (4) Public Workshops – 2 in-person & 2 virtual
  - Press release (newspaper, local news and radio outlets)
  - Website & social media
  - Email notifications
  - Meeting postcards (~650 sent every meeting to local residents)
  - Door hangers – conducted for 1<sup>st</sup> Public workshop to create awareness
- Multiple coordination meeting with each jurisdiction individually throughout process
  - City of Duluth
  - City of Hermantown
  - City of Rice Lake
  - St. Louis County / Canosia Township
- Noise measurement program included eleven (11) residential locations requested by local residents, one (1) place of worship, & prison employee housing

# NEXT STEPS

- Public comment period open until November 26, 2021
- DAA adoption
- Submit to FAA for approval (up to 180 day review period)
- FAA Record of Approval (ROA)

## After the Part 150 Study ROA

- Secure funding sources
- National Environmental Policy Act (NEPA) review of measure being implemented