



Minneapolis-St. Paul International Airport Noise Oversight Committee (NOC)



NOC Committee Members

Jeffrey Hart – Co-Chair (Delta Air Lines)
Dianne Miller – Co-Chair, City of Eagan Representative (City of Eagan)
Ryan Barette – Minnesota Business Aviation Association Representative
Pam Dmytrenko – City of Richfield Representative (City of Richfield)
Chris Finlayson – At-Large Airport User Representative (Endeavor Air, Inc.)
Gordy Goss – Chief Pilot Representative (Delta Air Lines)
Brian Hoffman – At-Large Community Representative (City of St. Louis Park)
Todd Lawrence – Charter/Scheduled Operator Representative (Sun Country Airlines)
Patrick Martin – City of Bloomington Representative (Bloomington City Council)
Jay Miller – City of Mendota Heights Representative (Mendota Heights City Council)
Angie Moos – Cargo Carrier Representative (United Parcel Service)
Loren Olson – City of Minneapolis Representative (City of Minneapolis)

MEETING AGENDA

January 16, 2019 at 1:30 PM

**MAC General Office Building
Lindbergh Conference Room
6040 28th Avenue South
Minneapolis, MN 55450**

(Dianne Miller, Eagan, will be the acting Chairperson for the meeting)

***Note:** 1:00 to 1:30 PM – Committee Agenda Review Session

(NOC members, alternates, and at-large contacts only in the Coleman Conference Room)

1. 1:30 Review and Approval of the November 28, 2018 Meeting Minutes
2. 1:35 Review of Monthly Operations Reports: November and December, 2018
3. 1:50 Public Comment Period
4. 2:10 MSP Fleet Mix and Nighttime Operations Report
5. 2:30 Eagan Mobile Noise Monitoring Study Plan
6. 2:50 Evaluate Noise Management Benchmarking Study Findings and Considerations
7. 3:10 2019 NCAA Final Four Aircraft Activity Update
8. Announcements
9. Adjourn

Public Comment Notice: A public comment period of no more than 20 minutes will be added to each agenda. Members of the public wishing to address the NOC during this period are allotted 3 minutes to speak. Please complete and submit a speaker card prior to the start of the meeting or have arrangements made with your NOC representative prior to the meeting date.



MSP NOISE OVERSIGHT COMMITTEE
DRAFT MEETING MINUTES

Wednesday, 28th of November 2018 at 6:30 PM

MAC General Office
Lindbergh Conference Room

Call to Order

A regularly-scheduled meeting of the MSP Noise Oversight Committee, having been duly called, was held Wednesday, 28th November 2018, in the Lindbergh Conference Room at the MAC General Office. Chair Hart called the meeting to order at 6:31 PM. The following were in attendance:

Representatives: D. Miller; J. Hart; R. Barette; G. Goss; B. Hoffman; J. Malin; P. Martin; L. Olson; P. Dmytrenko,

Staff: D. Nelson; B. Juffer; A. Kolesar; J. Lewis; R. Fuhrmann, B. Ryks; N. Pesky

Others: J. Axmacher – Eagan Airport Relations Commission; A. Gladhill – Eagan; T. Gladhill – Eagan; B. Gilbertson – Minneapolis; D. Hughes – Eagan; D. Dullinger – Eagan; S. Henry – Eagan; T. Drill – Eagan; D. Lager – Minneapolis; D. O’Leary – City of Sunfish Lake; L. Moore – City of Bloomington; T. Cossalter – City of Edina; R. Owen – Met Council

1. Review and Approval of the September 19, 2018 Meeting Minutes

Chair Hart, Delta, asked for a motion to approve the minutes. The motion was moved by **Representative Martin** and seconded by **Representative Goss**. It was passed unanimously.

2. Review of Monthly Operations Reports: September and October, 2018

Brad Juffer, Assistant Technical Advisor, stated that there were 33,162 operations in September and 34,578 operations in October. The September count is one-half of 1% reduction from 2017 and the October count is 1.24% reduction from 2017. This equates to 600 fewer flights than the same time period of 2017. Year to date operations as of October 31 was 342,225. This is a reduction of nearly 5,900 flights from 2017 or a reduction of 1.7%.

In September, there were 1,781 flights between 10:30 PM and 6:00 AM and 1,800 in October. The September figure is an increase of 230 operations (15%) from September 2017 while the October number is a seven flight reduction (.4%) from 2017. Weather was a factor as there were thunderstorms on 9/17, 9/18, 9/20 and roughly only 3 hours of thunderstorm activity in September 2017.

There have been 951 more night flights thus far in 2018 compared to the same time period of 2017. This is a 4.7% increase from 2017 or three additional flights per night.

Juffer reported there were 67,740 operations recorded at MSP in September and October. RUS Priority 1 runways were used 33.5% of the time during the previous two months. Combining this number with the 19.4% for Priority 2, and we arrive to the more traditionally reported 52.9% use for high priority runways. A thorough investigation into the RUS percentages and the map does show one other oddity. There were 25 Runway 35 departures and 134 Runway 17 arrivals during the previous two months. This activity, occurring entirely at night, was necessary as both parallel runways had to be closed to facilitate construction activity on and adjacent to Runway 4/22.

A high prevalence of south winds in September aided a month with unbalanced flow configurations. For September the flows were split 21/67/6 between North/South/Mixed. For 15 consecutive days from 9/6 through 9/20 the airport was configured in a South Flow. The flows were more balanced in October with splits of 43/39/10. Of the 104 hours in Mixed Flow during September and October, 98 were Mixed A (arrivals and departures on Runways 30L and 30R with departures on Runway 17) and 6 were Mixed B (arrivals and departures on Runways 12L and 12R with arrivals on Runway 35).

For the previous two months, the CRJ2 and CRJ9 were the top used aircraft types, followed by the Boeing 737-800 and -900 followed by the Airbus A320 and A319. These six aircraft types flew 62% of all carrier jet flights in September and October. The top 10 included the Boeing 717 and MD90, followed by the CRJ7 and Embraer E170. These top 10 flew 84% of all carrier jet flights.

For carrier jets, **Juffer** reported narrowbody usage was by far the most common jet type in the early part of this century until 2010 when the regional jet overtook the narrowbodies as propeller driven Northwest Airliner Saabs and Metroliners were replaced with jets. From 2012 through today, that ratio tipped back to narrowbody aircraft. 2018 YTD is the first time since 2012 when the split has leveled off. In 2017, narrowbody aircraft were used for 57.3% of the operations with regional jets (RJs) used for 40% of the operations. Thus far in 2018, narrowbody aircraft flew 57.1% of all carrier jet flight with RJs operating 40.2%.

The MAC Noise Office received 18,513 complaints in September and 13,137 in October. The complaint count in September is 3,231 more than 2017 while the October number is 2,293 more complaints than 2017, both of the months happen to be a 21.14% increase. Year to date complaints are down by more than 12,000 from 2017, a 9% reduction.

Complaints were filed from 435 locations in September and 298 locations in October. Both of those totals are reductions from 2017 when the locations were 521 and 331. Because of increased complaints and decreased locations, the average complaints per location of 43 and 44 for September and October were the 2nd and 3rd highest monthly average in the previous four years (March 2018 – 47) while the 1.8 operations per complaint in September was the lowest result on that metric in the previous 4 years.

Juffer reported the top 10 locations filed 18,761 complaints in September and October a total encompassing 59% of all complaints. 72% of the complaints from these locations were filed

in regard to South/Straight South Flow, 19% were from North/Straight North Flow. Three-hundred eighty-three locations filed 10 or fewer complaints in September and October.

Regarding sound monitoring, **Juffer** stated aircraft noise events above 65 decibels totaled 447 hours in September and 502 hours in October. Overall, this is a .2% reduction compared to 2017. The 89,809 events for September and 96,020 events in October is 2,474 more events than the same months in 2017 (an increase of 1.3%).

Juffer then reported the noise abatement procedure compliance beginning with the Runway 17 Departure Procedure, which was consistent at 99.5% in September and 99.2% in October. There were 69 jets west of the 2.5 nautical mile turnpoint during those months. The Eagan-Mendota Heights Departure Corridor procedure was used 96.2% of the time in September and 95% in October. The use of the Crossing-in-the-Corridor Procedure was 36% and 32% during the day and 46% and 43% at night.

Representative Olson, Minneapolis, asked if the upgauging trend was stabilizing. **Juffer** responded that the aircraft family use is stabilizing but he would look to seat capacity to accurately respond to aircraft specific inquiry.

Olson asked how **Juffer** concluded that certain complaints were related to specific flow. **Juffer** responded that the data presented on flow was only in reference to the top 10 complaint locations. In general South Flow tends to generate a larger volume of complaints albeit not always more locations. The top 10 locations are not representative of all complaints, some are related to 12L, others in Eagan are related to 17, and some are related to 35. **Olson** commented that the uptick could be from more continuous days in a certain flow and **Juffer** stated that both North and South Flow have similar complaint locations but, anecdotally, continuous South Flow tends to create a greater volume of complaints.

3. Public Comment Period

Chair Hart, Delta, introduced the new public comment process since the bylaw change at the previous meeting. Each commenter is asked to state their name and address and has three minutes for comment.

Steve Henry
37XX Falcon Way, Eagan, MN

Lived in this home since 1993, prior to Runway 17 opening. The appeal of this location, at the time, was the rare occurrence of aircraft noise and general quiet of the area. Runway 17 opened and there was an increase in aircraft and noise, but not enough to be a bother. Three years ago something changed and the aircraft activity over our house has increased. Planes come over every 2-3 minutes and is having a negative impact on our quality of life. If the activity was even just once every half-hour it probably wouldn't be a big deal. Looking for help and have worked with City of Eagan and the Eagan Airport Relations Commission. What changed 3-4 years ago that created the situation and what options are there to deal with it? For 10 years when Runway 17 was open it was ok but the last 3-4 years it's gotten worse. Members of community are talking about moving because this is having an impact on quality of life. What can be done to remediate the situation? Not looking for insulation but for other solutions.

Ted Gladhill
11XX Blue Heron Court, Eagan, MN

The residents in this area are not agreeing with MAC statistics regarding activity over their homes. Why has the airport not returned to pre-CRO? 2014-2015 departures, pre-CRO, showed about 4,000 departures a month. July 2015, CRO was put in-place and six months after CRO had a 45% increase in departures, on average 5,800-6,100/month. In late 2016 the adjusted CRO procedures occurred and that frequency was ok. Mr. Mara stated in January 2017 that there would be relief, fewer arrivals from Runway 17. That year there was a slight drop with about 5,300 departures/month. In 2018, Runway 17 returns to about 5,790 departures/month. Why has the airport not returned to pre-CRO departure volumes? Was there a change to Runway 17 departure early turn rules to the east? Departure turns have changed, why do aircraft need to turn immediately after the runway? This procedure didn't seem to occur when the runway was originally open. Why is this turn procedure taking place? Was there a mandate for it?

David Hughes
33XX Sibley Memorial Highway, Eagan, MN

Over the last two years, the increase of aircraft noise has had a negative impact on daily living. Mr. Hughes stated he has met with neighbors, MAC, and the City of Eagan. He has lived in home since 2009 and in 2016/2017 the noise increased drastically and is nonstop. Feels like property rights and human rights have been violated. He no longer has life, liberty, and pursuit of happiness due to a decision thrust on community by the airport. Did staff think about knocking on doors to inform about the runway change? There are a variety of animals on property, it's a safe place for them. There are flocks of geese and migratory birds on property and aircraft shouldn't be moved over property since the number one threat to an airplane are birds.

Co-Chair, Miller, Eagan, mentioned that many of the questions asked during the comment period will be addressed later in the meeting by Sean Fortier, FAA District Manager of Operations for the Minneapolis District. **Hart** followed up that other questions may be sent to the Noise Office through the MACNoise.com website or asked at the next listening session on January 23rd, 2019 at the MAC General Office at 7 PM.

4. Review of the Fall Listening Session

Brad Juffer, Assistant Technical Advisor, stated the Fall Listening Session was held on October 24th, 2018 at the MAC General Office. The meeting was attended by residents from Apple Valley, Mendota Heights, Minneapolis, and Savage. There were representatives from local FAA Air Traffic Management, MAC staff, NOC Representatives, and a Minneapolis Councilmember. The meeting covered a variety of topics regarding the NOC structure and purpose, the 2018 NOC Work Plan, and the 2019 Draft Work Plan. This meeting had a slightly different format in order to solicit ideas for the NOC's 2019 Work Plan.

5. Summary of Aviation Noise, Environment, and Health-Related Research

Dana Nelson, Technical Advisor, introduced Jennifer Lewis, Noise Program Specialist. **Lewis** started by stating that there is a lot of research being conducted on aircraft noise and how that impacts our environment and our health. Each year a summary is provided to the NOC that updates the committee on items relevant to MSP and surrounding areas. The summary

provides information on projects that were completed, active, initiated, or anticipated in 2018 or 2019 by:

- Transportation Research Board (TRB)
- FAA's Centers of Excellence (ASCENT)
- Federal Interagency Committee on Aircraft Noise (FICAN)
- World Health Organization (WHO)

Lewis thanked **Representative Olson** for feedback from the City of Minneapolis. In 2018 there was conversation about how the NOC can dig deeper into research topics. Looking into 2019, this is a good opportunity to see if there are topics of particular interest to the NOC, and suggested a discussion about them may occur at a future meeting.

Representative Olson, Minneapolis, thanked **Lewis** for her work and the quick synopsis that allows the committee to keep track of the studies. **Olson** mentioned that she wants to find a way to integrate this information to a meeting, specifically when it relates to the airport and health impacts.

6. Review and Approval of 2019 NOC Work Plan, NOC 2018 Accomplishments, 2019 NOC Meeting Dates

Dana Nelson, Technical Advisor, stated at the September NOC Meeting, the committee reviewed the 2019 NOC Work Plan and the listening session in October acted as a working meeting to gather input from community members. **Nelson** presented the Draft NOC 2019 Work Plan. The full 2019 NOC Work Plan may be found on the MACNoise.com website:

<https://www.macnoise.com/our-neighbors/noc-work-plans-and-accomplishments>

2019 will focus on reviewing the residential noise mitigation program; the 2018 actual noise contour and residential noise mitigation program eligibility; updates on CRO, LTCP; noise and health-related research initiatives; improving the user experience with the website and MACNOMS; and continued review of community input from listening sessions. **Co-Chair Miller, Eagan**, mentioned expanding item 2.i. so it was not limited to nighttime usage and could include Runway 17 departure trends and heading usage. **Representative Olson, Minneapolis**, clarified that item 2.c. should include arrival usage and altitude trends. **Nelson** responded that those items were added to the 2018 NOC Work Plan and will continue for 2019. **Olson** stressed the importance of coming up with creative solutions to nighttime noise and would like to see the NOC and MAC lead the way to manage nighttime noise.

Nelson presented the 2018 NOC Accomplishment list with 23 items. Item #11 is the MSP Noise Management Benchmarking Study which was born from a request made by MSP FairSkies. This then led to a robust discussion on goals and further opportunities for the NOC to identify. The study was multi-faceted and a big component was to ensure it was performed by an independent third party. **Nelson** thanked the NOC Bylaw Review Subcommittee for helping to break down barriers and increase citizen involvement. The 2018 NOC Accomplishment List may be found on the MAC Noise website: <https://www.macnoise.com/our-neighbors/noc-work-plans-and-accomplishments>.

Nelson presented the suggested 2019 NOC Meeting dates:

- January 16
- March 20
- May 15
- July 17
- September 18
- November 20

Representative Martin, Bloomington, asked if the November Meeting will be in the evening again for 2019. **Nelson** responded that the NOC Committee can decide on that, it was chosen as the evening meeting for 2018 so the public could come to discuss the 2019 NOC Work Plan. **Nelson** requested for action to approve and recommend to the MAC Planning, Development and Environment Committee the final 2019 NOC Work Plan and approve the list of 2018 NOC accomplishments and 2019 meeting dates.

A motion was made and seconded to approve and recommend to the MAC Planning, Development and Environment Committee the final 2019 NOC Work Plan and approve the list of 2018 accomplishments and 2019 meeting dates. The motion passed by a unanimous vote.

7. Guest Speaker: MSP Converging Runway Operations (CRO) Update

Sean Fortier, FAA District Manager of Operations for the Minneapolis District reported that the FAA's main focus is to bring traffic into and out of MSP safely and efficiently, but within the constraints of the current airport configuration. All airports with converging runways have constraints and they're all unique to that airport and its configuration. The FAA is working to determine a final, long-term strategy for mitigating CRO, as it exists within the current footprint at MSP. Once a long term strategy has been determined, the FAA will determine the appropriate level of environmental review regarding CRO mitigation in accordance with the requirements of the National Environmental Policy Act, and FAA Order 1050.1F, Environmental Impacts: Policies and Procedures. This was specifically requested through a NOC Resolution and backed by the MAC, the FAA responded in December 2016. The FAA continues to stand by that commitment once they reach that final strategy. The FAA continues to explore additional mitigation strategies to determine options that ensure the highest degree of safety while minimizing efficiency constraints and environmental impacts.

Over the past two years, several FAA workgroups have met to refine procedures and operational configurations to determine what options will best meet required safety goals while also minimizing efficiency constraints and environmental impacts. The FAA continues to review existing procedures.

Mr. Fortier reported the FAA has made substantial progress in designing and employing technological tools within its system to regain some capacity loss. The latest procedural test, announced by Kurt Mara at the July NOC meeting, comprises of a workgroup of Minneapolis Tower (MSP), Minneapolis Terminal Radar Control (M98 TRACON), and Minneapolis Air Route Traffic Control Center (ZMP ARTCC) personnel. The goals of this FAA workgroup are to outline standardized processes and procedures, with repeatable and clear expectations for the agreed upon capacity triggers that necessitate the use of a Runway 30L, 30R and 35 configuration. Additional research is also being conducted with FAA Technical Operations and the MITRE Corporation to develop Virtual Runway Intercept Point (VRIP) technology as an additional safety mitigation for CRO. Updates have been continuously provided to MAC representatives, the FAA will continue its engagement with the MAC and NOC to provide updates as they become available.

This workgroup should be developing recommendations soon and those will be passed on to the representative sponsors and that will lead to a long term strategy. The exact timeline for this is still unknown but updates will be provided.

Representative, Olson, Minneapolis, mentioned the MAC taking steps forward with the Long Term Comprehensive Plan (LTCP) and doing so with the understanding that we're getting close to a runway use pattern that we will see in the future. **Fortier** responded that it is premature to

say there wouldn't be any changes and it would be irresponsible, prior to a long term strategy, to say something like that. The data provided and shared, thus far, does indicate stabilization on those rates.

Olson asked to clarify that FAA currently uses the arrival and departure window off the end of each runway. Then asked if the FAA adds the VRIP bases that on knowing what time the plane will be in a certain location. **Fortier** responded that the VRIP projects a time utilizing a ground base radar to project where a possible loss of separation or conflict may occur. That is in development and will provide another layer of safety mitigation for that runway configuration. Some residents that spoke, noted differences in 2015, 2016, and 2017. When the runway window was implemented for CRO in 2015, it was only on runway 30L and then in January 2016 it was expanded to 30L and 30R. These are the main tools being implemented now, the work group is working on establishing standardized procedures for the use of equipment and process.

Chair Hart, Delta, added in the recent year or so, we've seen stabilized runway use patterns and will the task force radically change that? **Fortier** responded that it would be irresponsible to state, at this time, if there would be a substantial or any change. Once the recommendations come in, the work group will move forward, and the FAA will keep the MAC and the NOC fully informed of those recommendations.

Co-Chair Miller, Eagan, referred back to the environmental review process mentioned in **Fortier's** presentation and asked what that looks like. **Fortier** responded that he doesn't have that information now but the work group will and once he has it, he will report back. **Nelson** interjected that MAC staff will be involved and part of the NOC resolution was to have the FAA report back on the environmental review. **Miller** asked **Fortier** to speak to Runway 17 use and the change from the forecast of use when the runway was initially approved. **Fortier** responded that as a baseline, winds dictate the runway configuration. During periods of calm winds, ATC has the option to select alternative runway configurations. The second factor in determining runway use is the demand on the airport. This doesn't mean annual airport demand, this means the 15 minute demand periods that identify a low, medium, or high period of demand. Total annual operations may have decreased but the impact periods of high demand still exist. When demand is at a moderate or greater level, the runway configuration that is most aligned with the wind that allows the greatest capacity shall be selected. **Miller** asked if the impact periods have increased enough to justify increased departures of Runway 17. **Fortier** responded when looking at runway use due to CRO mitigation procedures, there's a loss of capacity utilizing those arrival departure windows. When choosing a runway with the most capacity will lead to Runway 17 being chosen, prior to CRO, that configuration may have been a Runway 30L, 30R and 35 configuration. That explains the change in use on all three runways but in particularly a decrease in arrivals on Runway 35 and increase in departures on Runway 17. **Miller** stated that preferential Runway Use System (RUS) calls for Runways 12L and 12R to be used as first priority for departures but Runway 17 continues to be used more than both 12L and 12R combined. What's driving that change, year after year? **Fortier** responded year over year the FAA predicted Runway 17 would have more use than Runways 12L and 12R, the initial environmental study of the runway before it was built indicated that. The reason is because Runway 17 is a departure only runway and there's no competition with arrival traffic. Any time an aircraft has less than 6,000 feet between an arrival and a departure those safety considerations are taken in to account. If you have arrivals and departures on a

runway, you need to maintain that space but if you only have departures on a runway, you can depart without arrivals competing for airspace. **Miller** stated there has an increase in planes turning quickly and asked if this was related to CRO and if there is an opportunity to move planes straight south. **Fortier** responded that when aircraft depart MSP on Runway 17, they are destined for a city pair like Atlanta, Vegas, or Phoenix. These city pairs and associated headings are the same as before CRO, while number of flights may have increased, headings have stayed the same. Delta has a hub in Atlanta now and that may be impactful. **Miller** asked if there was a correlation between CRO and changes in headings. **Fortier** responded that there may be an increase in flight frequency but he's not sure if the heading distributions are impacting as well. **Nelson** added that increases in Runway 17 are also driven by weather. She also noted that when the airport is in a Mixed Flow, Runway 17 departures are held to either a straight out heading or a west heading, not impacting Eagan residents.

Representative Goss, Delta, added that it would be worthwhile for NOC Members and staff to spend time in ATC during a CRO operation. Doing so may offer extra insight and perspective on the process and ATC staff can explain how it's working. **Fortier** responded that his team absolutely welcomes that opportunity.

Olson asked if changes in fleet could be resulting in variation in altitude and headings. **Fortier** responded that fleet may not change the impact exactly but maybe it changes the altitude given the weight of the aircraft. The heading is provided to achieve a certain track over the ground and the tracks resemble those from 2005.

Miller thanked Fortier, Kurt Mara, and the ATC team for their communication with the MAC and NOC, especially through the CRO process. **Fortier** responded that his team enjoys the opportunity to answer questions and help the community understand the constraints of the system and make sure residents understand the FAA is not motivated to impact them in an adverse way. The goal is to ensure safe, orderly, and efficient process while understanding the environmental impacts that do occur.

8. Stakeholder Engagement Plan for MSP 2040 Long Term Comprehensive Plan (LTCP)

Dana Nelson, Technical Advisor, reminded the committee that the MAC's effort towards the LTCP update began in 2015 with airport planner, Neil Ralston, presenting before the NOC. The plan was delayed due to CRO and at the request of the City of Minneapolis to ensure the plan reflected as close as possible the operational conditions under the new CRO standards. There were changes in efficiency and capacity at the airport. Prior to CRO there were about 90 arrivals per hour during a north flow was reduced to 64 arrivals per hour during the suspension of Runway 35 in July 2015. In August 2015, FAA started using the arrival departure window, this regained some capacity loss. Between 2016 and 2018 NOC was provided regular updates from MAC staff and the FAA. In October 2017m, the MAC and Met Council, in conjunction with the NOC, reaffirmed the delay due to FAA's ongoing efforts. At that time, it was agreed that the MSP LTCP would be a 20-year forecast, for the years 2020-2040. As we approach that timeframe, MAC staff has continued to closely monitor runway use and capacity trends at the airport. As we heard, the FAA still has some work group activities ongoing and will continue providing updates to the NOC on their progress. As MAC begins to incorporate airfield and airspace use assumptions into the plan, close consultation with the FAA is critical.

Equally critical is making sure there is a robust engagement effort throughout. The MSP LTCP will include a formal Stakeholder Engagement Plan. **Nelson** went over the objectives, approach and communication for the Stakeholder Engagement Plan. She explained the intent is to ensure a wide variety of stakeholders are involved in the process. This will an airport community panel that will be both an advisory role and carry the message to their constituents and return with feedback. There are four project milestones created to ensure the LTCP process is transparent and allows for consistent public involvement. Communication for the Stakeholder Engagement Plan will be through a project website, monthly e-news updates, and project newsletters. Public meetings events, updates at the NOC and PD&E meetings, and additional public presentations as requested will continue.

Representative Olson, Minneapolis, asked where the capacity analysis fits in to the project milestones. **Nelson** responded that there is not yet a timeline for each milestone yet, the first two take the longest and that will include the aviation activity forecast and the capacity study. **Olson** asked where the runway use projection and noise contour maps fit in. **Nelson** responded that it would fit in the third milestone that includes environmental land use planning.

Representative Martin, Bloomington, mentioned that one of the stakeholder groups MAC is going to engage are travelers, what is the process for actually obtaining the traveling public's information. **Nelson** responded that the MAC has a travelers assistance committee and they would provide that data and input.

9. Noise Abatement Dashboard Update

Brad Juffer, Assistant Technical Advisor, stated that one of the NOC functions is to monitor compliance with established noise policy at MSP and MAC staff provides data online daily, through published reports monthly, and at NOC meetings bi-monthly. The new dashboard is to provide more timely compliance information to air traffic control and MAC staff.

Juffer displayed the new dashboard on a screen at the meeting and provided a demo for the committee. During the presentation **Juffer** pointed out the graph displaying the current information and historical information for the corridors and compliance. Each abatement procedure is voluntary so the term “violation” on the graph is not a documentable violation but rather neglecting to participate in a voluntary abatement procedure. **Representative Goss, Delta**, suggested finding a synonym for violation as that word denotes shattering transgression and this is more akin to drifting out of the corridor bounds, often due to wind. **Juffer** said he'll take the suggestion back and potentially use deviation or non-compliant as both of those words will be just as effective.

10. Announcements

- Winter Listening Session, Wednesday, January 23, 2019 @ 7:00 PM, MAC General Offices, Lindbergh Conference Room

11. Adjourn

A motion to adjourn was requested by **Chair Hart, Delta**, moved by **Co-Chair Miller, Eagan**, and seconded by **Representative Olson, Minneapolis**.

The meeting adjourned at 8:35 p.m.

The next meeting of the NOC is scheduled for **Wednesday, 16 January, 2019 at 1:30 PM**

Respectfully Submitted,

Amie Kolesar, Recording Secretary

MEMORANDUM

ITEM 2

TO: MSP Noise Oversight Committee (NOC)

FROM: Brad Juffer, Assistant Manager – Noise, Environment & Planning

SUBJECT: **REVIEW OF MONTHLY OPERATIONS REPORTS: NOVEMBER AND DECEMBER 2018**

DATE: January 2, 2019

Each month the MAC reports information on MSP aircraft operations, aircraft noise complaints, sound levels associated with MSP aircraft operations, and compliance with established noise abatement procedures on its interactive reporting website: <https://www.macenvironment.org/reports/>.

At the January 16, 2019 NOC meeting, MAC staff will provide a summary of this information for the months of November and December, 2018. To view these summary reports prior to the meeting, visit the “Archive” section at the link above.

MEMORANDUM

ITEM 3

TO: MSP Noise Oversight Committee (NOC)

FROM: Dana Nelson, Manager – Noise, Environment & Planning

SUBJECT: **PUBLIC COMMENT PERIOD**

DATE: January 2, 2019

Members of the public are welcome to attend NOC meetings. During each meeting, a public comment period of no more than 20 minutes is added to each agenda. Individuals choosing to speak during the public comment period may do so by submitting a speaker card prior to the meeting start time or by contacting their NOC representative prior to the meeting date. Speaker cards will be made available at the sign-in table before each meeting. Submit completed speaker cards to the NOC Secretary or to any NOC member before the meeting begins.

Below are some rules of decorum for speaking at NOC meetings.

- Each speaker will have one opportunity to speak and is allotted three (3) minutes. The public comment period is limited to 20 minutes.
- When called upon to speak, speak clearly into the microphone, state your name and address. If you are affiliated with any organization, please state your affiliation.
- Commenters shall address their comments to the NOC and not to the audience.
- Use of profanity, personal attacks, or threats of violence will not be tolerated.

MEMORANDUM

ITEM 4

TO: MSP Noise Oversight Committee (NOC)

FROM: Brad Juffer, Assistant Manager – Noise, Environment & Planning

SUBJECT: **MSP FLEET MIX AND NIGHTTIME OPERATIONS REPORT**

DATE: January 2, 2019

The 2019 NOC Work Plan includes an assessment of current fleet mix and nighttime operational trends. MAC staff will prepare and distribute the Annual MSP Fleet Mix and Nighttime Operations Report when all 2018 data are available, which is anticipated to be January 9, 2019.

This report will incorporate data requests and suggestions from NOC members related to aircraft up-gauging and altitude trends. The report will provide year-end 2018 data in comparison with historical trends. The report will include the following sections:

- MSP Fleet Mix
 - o Historical Carrier Jet Trends
 - o Trends in Aircraft Passenger Load Factors
 - o MSP Carrier Jet Usage with Cumulative Certificated Noise Levels
 - o Average Altitude Trends
- Nighttime Operations
 - o Average Daily Nighttime Operations
 - o Nighttime Operations by Runway, Airline, Aircraft Type, Origin/Destination
 - o Trends in Nighttime Operations by Hour
 - o Scheduled versus Actual Nighttime Operations by Hour

Staff will present information from this report at the January 16, 2019 NOC meeting.

MEMORANDUM

ITEM 5

TO: MSP Noise Oversight Committee (NOC)

FROM: Dana Nelson, Manager – Noise, Environment & Planning

SUBJECT: **EAGAN MOBILE NOISE MONITORING STUDY PLAN**

DATE: January 2, 2019

At the September 19, 2018 NOC meeting, the Committee approved a mobile noise monitoring request from Eagan representative, Dianne Miller on behalf of the Eagan Airport Relations Commission (ARC). The purpose of the study is to collect quality recordings and measurements of aircraft noise events associated with MSP that occur in the City of Eagan. Data collected from the mobile noise monitoring equipment will be compared to data being collected at the MAC's permanent monitoring sites in Eagan, particularly sites 25 and 37 near I-35E, to assess whether the mobile monitoring locations collect higher-quality data from aircraft and fewer community noise events.

MAC staff intends to conduct mobile monitoring during the summer 2019 and is currently developing the data collection plan in partnership with Representative Miller and the Eagan ARC.

The attached document outlines the draft plan for the Eagan Mobile Noise Monitoring Study and will be presented to the Eagan ARC at its January 8, 2019 meeting. Subsequently, staff will provide an update to the NOC at its January 16, 2019 meeting.

DRAFT Eagan Mobile Monitoring Study 2019 – Outline

Purpose

Collect quality recordings and measurements of aircraft noise events associated with Minneapolis-St. Paul International Airport that occur in the City of Eagan, in accordance with established Mobile Sound Monitoring Guidelines. The objective of the study is to compare data collected from the mobile equipment with data being collected at the MAC's permanent monitoring sites in Eagan, particularly sites 25 and 37.

Suggested timing and duration of the study

Target start date of Wednesday, May 1, 2019 with data collection for two consecutive weeks. The data will be presented in a report at the July 9 Eagan ARC and July 17 NOC meetings.

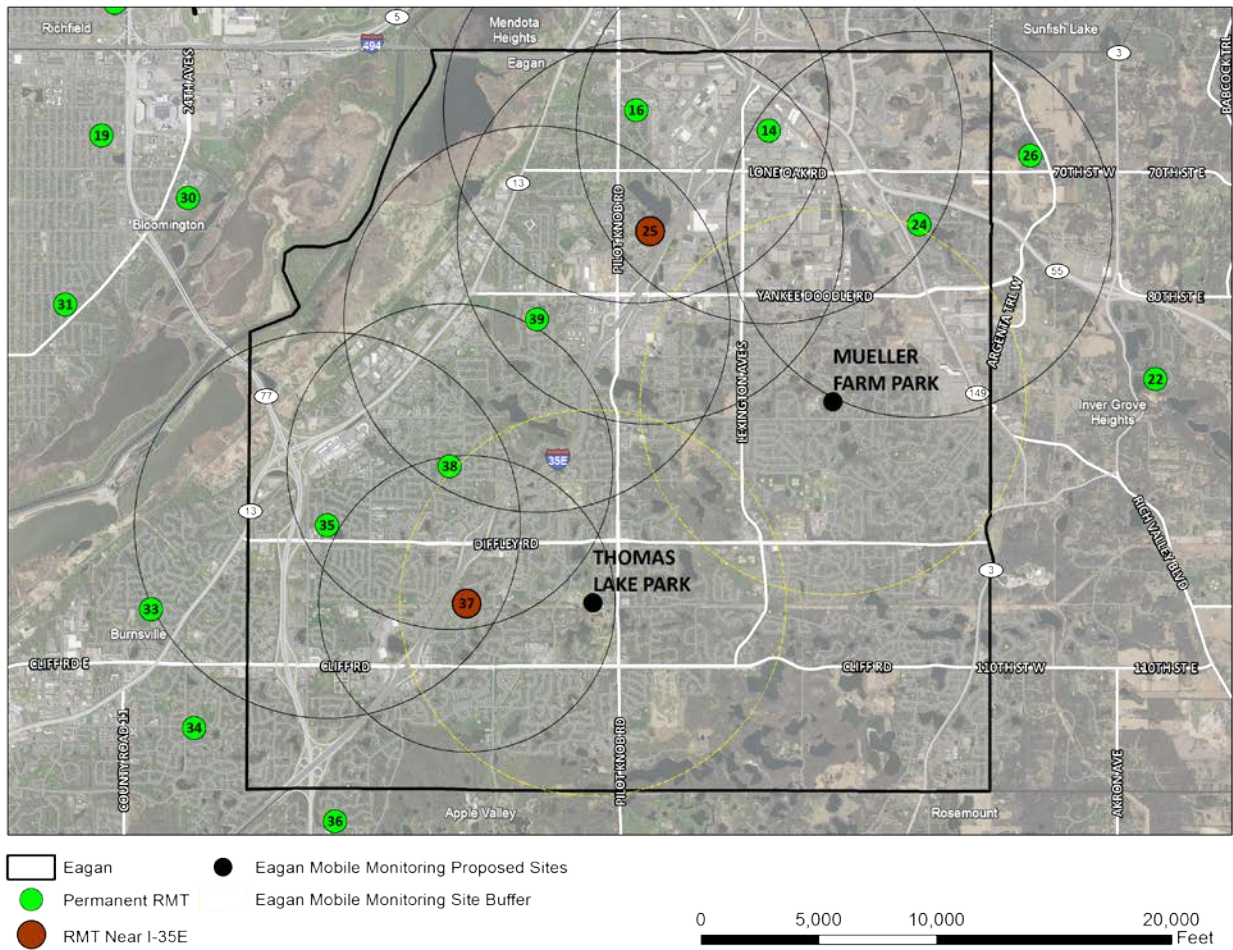
Number of mobile noise monitors and siting criteria

This study will use two monitoring locations with a back-up site determined for unanticipated challenges during the monitoring period. The location of the mobile monitors will be in accordance with established Mobile Sound Monitoring Guidelines as follows:

- Located to monitor aircraft operations at MSP
 - Under known aircraft flight paths
- Where flight operations are at altitudes, concentrations, and configurations creating sound levels above community sound levels
- Away from known community sound sources (such as large arterial roads, train tracks, factories, and transit centers and other gathering spots)
- In areas where the permanent sound monitoring sites are not already monitoring aircraft noise levels
- Predominantly residential
- Within 100 feet of electrical power
- On public property

Proposed locations (see graphic below)

1. Thomas Lake Park
2. Mueller Farm Park



A back-up site would be Patrick Eagan Park in the event that either of the above targeted locations pose unforeseen challenges. If a monitor is moved to the back-up site, MAC staff will extend the monitoring period to collect data for two consecutive weeks. MAC staff will communicate any location changes and/or scheduling changes to the City of Eagan as soon as possible.

What the data will provide

- A comparison of sound data collected from the mobile equipment and sound data collected at permanent noise monitoring sites in Eagan will reveal if gaps exist.
- An assessment of mobile data collected will determine aircraft noise levels and community noise levels in the areas where the mobile equipment is placed.

What the data will NOT provide

- Residential sound insulation eligibility
- Changes to annual DNL noise contours

MEMORANDUM

ITEM 6

TO: MSP Noise Oversight Committee (NOC)

FROM: Dana Nelson, Manager – Noise, Environment & Planning

SUBJECT: **EVALUATE NOISE MANAGEMENT BENCHMARKING STUDY FINDINGS AND CONSIDERATIONS**

DATE: January 2, 2019

In 2018 the NOC directed staff to complete a [Noise Management Benchmarking Study](#) to detail the regulatory constraints imposed on U.S airport noise programs; provide an independent comparison of the MAC Noise Program Office to peer airports; and identify improvement opportunities for the MAC Noise Program Office and the NOC. HMMH, a well-known aircraft noise consulting firm, completed the benchmarking study and reported the study findings to the NOC at its July 2018 meeting.

The study concluded that the MAC Noise Program Office performs well amongst peer airports across the five noise management categories that were assessed and identified the considerations outlined below for noise management and mitigation efforts at MSP.

Consideration 1: Accept noise complaints from non-residential addresses

During the benchmarking study, 73% of airports responded that they accept noise complaints from non-residential addresses. The MAC Noise Program Office requires a valid address from the seven-county metropolitan area in order to log an aircraft noise complaint. The MAC's Aircraft Activity Complaint guidelines have been revised and attached to clarify that a residential address is not required to log a complaint. Going forward, complaints will be taken from any address within the seven-county metropolitan area. Staff remains committed to responding to customers who request a response within three business days.

Consideration 2: Live-stream NOC meetings

During the benchmarking study, 29 out of 54 airports responded that they have a standing noise committee/roundtable and two airports offer a live-stream video recording of these meetings. The proceedings of most airport noise committee meetings are recapped in either meeting minutes or summary documents.

NOC meetings are held outside of airport security and in a location open and available for the public. Meeting agendas are publicly available two weeks prior to each meeting; and presentations and meeting minutes are available following each meeting. Meeting materials are posted at www.macnoise.com/our-neighbors/msp-noise-oversight-committee-noc-meetings. Additionally, the NOC made changes to meeting structure, public input and public meeting accessibility in 2018.

Providing the capability to live-stream NOC meetings in the Lindbergh Conference Room, where the meetings are regularly held, would require a capital investment to update the


meeting room facilities with media equipment. Currently the MAC's capital improvement program does not include funding for such an update.

Consideration 3: Use real-time alerts to Air Traffic Control (ATC) for non-compliant flights to further enhance awareness and compliance

During the benchmarking study, 56% of airport respondents reported they have voluntary noise abatement procedures in place at the airport. One of the functions stated in the NOC bylaws is to "Monitor compliance with established noise policy at MSP." To that end, the NOC regularly receives reports on compliance with the Eagan-Mendota Heights Corridor Procedure, Crossing-in-the-Corridor Procedure, Runway 17 Departure Procedure and the Runway Use System.

While the use of these noise abatement procedures are typically high, the benchmarking study identified an opportunity to increase compliance and awareness by providing real-time access and alerts to ATC management. In December 2018, MAC staff developed and implemented a Noise Abatement Dashboard. This dashboard will alert MAC staff and ATC in real-time if flights are not using the procedures and allow for notes to be added for unusual events.

MAC staff will provide an update on these topics to the NOC at its January 16, 2019 meeting.

	Metropolitan Airports Commission <i>Policies and Procedures</i>	Number: 001 Date: September 2006 Revision: December 21, 2018	No. of Pages: 3
	MAC Noise Program Office	Subject: <p style="text-align: center;">Aircraft Activity Complaints</p>	

- AUTHORITY** Metropolitan Airports Commission
- PURPOSE** To describe how aircraft activity complaints will be handled within the Noise Program Office of the Metropolitan Airports Commission (MAC).
- SCOPE** The MAC will document aircraft activity complaints related to flights at any MAC-owned airport. The purpose of collecting this data is to log, monitor and analyze concerns of airport neighbors, identify trends, and communicate with customers about their concerns. Complaint information received by MAC staff will be entered into the MAC Noise and Operations Monitoring System (MACNOMS) and managed by MAC Noise Program Office staff.
- GUIDELINES** Aircraft activity complaints may be received through any form (e.g., electronic form, phone, in-person, etc.) and must contain a location of the aircraft activity and details about the aircraft activity such as date, time, and description of the activity of concern.

General Policies

- Aircraft activity complaints received by MAC Program Office staff will be protected by MAC data privacy policies.
- A complaint will be entered into MACNOMS anytime a person provides the following information:
 - Physical address of complaint location
 - Date and time of event
 - Annoyance descriptor
- Complaint data are kept for a minimum of 3 years.
- Noise complaint data are public, with the exception of personal data (e.g. names, telephone numbers, email addresses, and individual communication records).
- MAC staff responsible for entering complaints will use their best judgment in determining from the customer: (1) the airport tagged to the complaint, (2) appropriate annoyance descriptors and (3) the date/time of the event when not expressly stated by the customer.

- Complaints are collected and reported monthly; therefore complaints must be documented by or before the 5th of the following month. For example, complaints pertaining to November 2013 must be logged or called in by or before the 5th of December 2013.
- One complaint will be entered for each specified date, hour, and minute provided by the customer. These complaints will be processed and matched with flight activity collected in MACNOMS.
- Complaints will be logged only when a complete, valid address (within the seven-county metropolitan area) is provided. Staff will take all reasonable steps to determine whether an address is valid.
- Complaints received from areas outside the seven-county metropolitan area of the Twin Cities (Anoka, Dakota, Ramsey, Hennepin, Carver, Washington and Scott counties) cannot be logged.
- Complaints submitted through the phone line system between the hours of 10:30 p.m. and 6:00 a.m. will be recorded as an “Early/Late” complaint along with any other annoyance descriptor given by the complainant (e.g., low flying, helicopter, structural disturbance, etc.).
- Complaints that can or should be referred to someone else, either inside or outside of the MAC, will be forwarded appropriately.

Callers Who Use Threats of Bodily or Structural Harm

Threats against people, structures or aircraft will not be tolerated and may be considered criminal.

- Staff will contact the Airport Police Department anytime a threat against a person, a structure or an aircraft is received.
- Phone calls, voicemail messages, or written communication containing threats will be retained for possible investigation.
- Staff will provide to the Airport Police, or other law enforcement agency, written documentation of any threat made in person, stated in a voicemail message or while speaking on the phone.
- Staff will fill out a *Bomb Threat Checklist* form for calls that could be considered a bomb threat. These forms have been provided by the Airport Police Department, have been distributed to MAC staff and are printed on salmon-colored paper.

Abusive Callers or Residents

The definition of an abusive caller is *one who goes beyond expressing anger about a problem and begins attacking the person*

handling or listening to the complaint. An abusive caller is considered one who engages in swearing or uses other offensive language, and personal attacks.

- Any complaint from an abusive caller will not be logged as a complaint.
- Staff members communicating with someone who has become abusive or is using vulgar or offensive language will give one warning to the complainant before discontinuing the exchange. If the communication was to register a complaint, that complaint will not be logged.
- Complainants who communicate repeatedly while using vulgar or offensive language will be reported to the Airport Police Department or other public safety organization for possible investigation.

Audio Recordings

Recorded voicemail complaints typically are deleted after the pertinent complaint information has been logged in MACNOMS.

The MAC does not retain voicemail messages; however, the MAC reserves the right to save such recordings for the purpose of investigation if it should become necessary.

MEMORANDUM

TO: MSP Noise Oversight Committee (NOC)
FROM: Dana Nelson, Manager – Noise, Environment & Planning
SUBJECT: **2019 NCAA FINAL FOUR AIRCRAFT ACTIVITY UPDATE**
DATE: January 2, 2019

The 2019 NCAA Final Four is coming to Minnesota during the first week of April at US Bank Stadium. Increased passenger and aircraft activity levels are expected at MSP and the MAC’s general aviation reliever airports between April 3 and April 8, 2019.

A communication plan has been developed to inform residents of the expected flight activity at MSP and three primary reliever airports owned by the MAC. The communication strategy includes development of two fact sheets – one for MSP and one for the reliever airports – for airport neighbors informing them of the expected flight activity associated with the Final Four events.

These fact sheets will be posted on the macnoise.com website and shared with the NOC, reliever airport advisory commissions and councils, as well as the cities that surround these airports. Additionally, the fact sheets will be distributed at the Winter Listening Session on January 23, 2019.

At the January 16, 2019 NOC meeting, MAC staff will distribute the fact sheets and respond to questions pertaining to the Final Four communication plan.