



## Metropolitan Airports Commission (MAC)

Minneapolis-St. Paul International Airport (MSP)  
Noise Oversight Committee (NOC)  
MAC General Office Building  
Lindbergh Conference Room  
6040 28<sup>th</sup> Avenue South  
Minneapolis, MN 55450

### NOC Committee Members

Dianne Miller – Co-Chair, City of Eagan Representative (Assistant City Administrator)  
Jeffrey Hart – Co-Chair (Delta Air Lines)  
Ryan Barette – Minnesota Business Aviation Association Representative  
Pam Dmytrenko – City of Richfield Representative (Assistant City Manager)  
Gordon Goss – Chief Pilot Representative (Delta Air Lines)  
Todd Lawrence – Charter/Scheduled Operator Representative (Sun Country Airlines)  
Tom Link – At-Large Community Representative (Inver Grove Heights City Staff)  
Jay Miller – City of Mendota Heights Representative (Mendota Heights City Council)  
Angie Moos – Cargo Carrier Representative (United Parcel Service)  
Jon Oleson – City of Bloomington Representative (Bloomington City Council)  
John Quincy – City of Minneapolis Representative (Minneapolis City Council)  
Paulajeane Vick – At-large Airport User Representative (Delta Global Services)

### MEETING AGENDA

July 19, 2017 at 1:30 pm  
MAC General Office Building  
Lindbergh Conference Room

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

**\*Note:** 1:00 to 1:30 – Committee Agenda Review Session  
(NOC members only in the Coleman Conference Room)

1. 1:30 – 1:35 Review and Approval of the May 17, 2017 Meeting Minutes
2. 1:35 – 1:45 Nomination and Election of NOC Co-Chairs
3. 1:45 – 1:55 Review of Monthly Operations Reports: May and June, 2017
4. 1:55 – 2:10 Review of Residential Noise Mitigation Program Implementation
5. 2:10 – 2:30 2018 Super Bowl Aircraft Activity Update
6. 2:30 – 2:45 Fly Quiet Award Program Evaluation
7. 2:45 Public Comment Period
8. Announcements
9. Adjourn



## MSP NOISE OVERSIGHT COMMITTEE MEETING MINUTES

Wednesday, 17th of May 2017 at 1:30pm

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, 17th of May 2017, in the Council Chambers at the Richfield Municipal Building. Chair Hart called the meeting to order at 1:30pm. The following were in attendance:

**Representatives:** P. Dmytrenko; K. Erazo; T. Foster; A. Moos; J. Miller; L. Olson; D. Miller; J. Hart; G. Goss; J. Oleson; J. Bergman; D. Nelson; T. Harris

**Staff:** D. Nelson; B. Juffer, C. Leque; A. Kolesar; G. Warren; B. Ryks; E. Valencia

**Others:** R. Ditto – FAA; S. Heegaard – City of St. Paul; T. Link – City of Inver Grove Heights; C. Jacobson – City of Mendota Heights; J. Wulf – FAA; S. Devich – City of Richfield; J. Smith – City of Mendota Heights; L. Moore – City of Bloomington; D. Sloan – City of Mendota Heights; R. Schumacher – SCA Flight OPS; M. Brindle – City of Edina; B. Hoffman – City of Saint Louis Park; D. O’Leary – City of Sunfish Lake; M. McNeill – City of Mendota Heights; L. Gortz – City of Edina; A. Nemcek – City of Rosemount; J. Daddio – City of Eden Prairie; K. Aaker – City of Edina

### **1. Review and Approval of the March 15, 2017 Meeting Minutes**

**Chair Hart, Delta**, requested a motion to approve the minutes from the March 2017 NOC meeting. **Representative Miller, Eagan** made the motion with a second from **Representative Dmytrenko, Richfield** and the motion was passed unanimously.

### **2. MSP Optimized Profile Descent (OPD) Results**

**Dana Nelson, Technical Advisor**, provided a background of the OPD application prior to introduction. MSP has a nontraditional approach to how NextGen procedures were implemented, as a result of the NOC’s leadership. In 2005 the NOC requested a test from the FAA and while that was denied, it started the process for MSP to obtain NextGen procedures. In 2014 a consensus was on the horizon from MAC leadership, FAA, City Leaders, and the surrounding communities. At that time, the NOC passed a resolution to support RNAV arrival procedures with OPD descents at MSP. In March 2015 RNAV procedures began and MAC staff started testing to quantify the benefits of the procedures.

**Brad Juffer, Assistant Technical Advisor**, provided an overview of the application and a review of the results. The application identifies which flights follow the OPD and in conjunction with fuel data from the airlines. The creation of this application was possible through collaboration with the MAC, FAA, and airlines. The noise office team acquired flight track data from the FAA, which was necessary to obtain the entire descent segment of each flight. As a result, flight track data covering seven different states was obtained and analyzed. This expansive dataset was collected from March 1, 2014- March 31, 2017 and included over 1 billion individual data points that needed to be evaluated. From that data, the team created OPD metrics and fuel data metrics, the data from both metrics was aggregated and analyzed

The output included descent statistics from the top of descent 4-dimensional point to 8,000 feet. Cruise statistics were analyzed because it created a normalization of data between pre-RNAV and post-RNAV data sets. Fuel burn rate by aircraft, by runway, and by meters flown were also determined.

**Juffer** explained that his team determined that any arrival with 10% or more of its descent in level flight is not an OPD, and therefore a conventional approach. Anything less than 10% is considered an OPD. Non-jet aircraft and aircraft arrivals that never reach 12,000 feet of altitude are considered conventional approaches.

**Juffer** reported that since the first day of implementation, 79.4% of capable aircraft have flown an OPD. On average, every OPD arrival at MSP saves about 15.1 gallons of fuel. When taking that number and multiplying it by the flights on an OPD, an average of 2.8 million gallons of fuel are saved annually. Since implementation, that equals about 5.8 million gallons of fuel saved. Taking those numbers and equating them into a carbon reduction equivalent means 28,000 metric tons of CO<sub>2</sub> have been reduced annually and since implementation the reduction amount is at 57,000 metric tons. **Chair Hart, Delta**, asked if the application is proprietary to the MAC or if the algorithms were open sourced. **Juffer** responded that outside of the runway and fuel use data the program was built on open source data and open source technology.

### 3. Guest Speaker: MSP Update by Executive Director/CEO, Brian Ryks

**Brian Ryks, MAC Executive Director/CEO**, provided an update on MSP, beginning with an overview of MAC. **Ryks** discussed the MAC's governance structure, its status as a public corporation as designated by the Minnesota Legislature and its funding. MSP's key purposes from the MN Legislature are to promote efficient, safe, and economical air commerce; to develop the potentials of the metro area as an aviation center; and to minimize the environmental impact of air transportation. The MAC Board consists of a chairman and 12 commissioners, all of whom serve staggered, four-year terms. **Ryks** continued by reviewing and expanding on the MAC's mission and vision.

MSP is the 16<sup>th</sup> busiest airport in North America (by passengers) and is Delta's second largest hub. In 2016 there were 413,279 landings and take offs at MSP. This was the first increase since 2013, however that number is significantly lower than the peak in 2004 at 541,093 landings and take offs. While actual aircraft operations numbers are lower, passenger numbers are going up, that means aircraft are at capacity and larger aircraft are generally replacing smaller ones.

**Ryks** reported on traveler demographics and that nearly two-thirds of travelers fly five or fewer times a year. It was also reported that about 52% of all travel through MSP is for leisure, 60% of travelers are female, and the age range of the most frequent traveler is 55-64.

**Ryks** went on to report air service development. In 2016 - 2017, ten airlines added a total of 24 additional routes which means MSP now has competitive air service on 53 of its 155 direct routes.

**Ryks** continued with the airport's sustainability efforts and stated that MSP has the most extensive mitigation program in the United States. In 2016 MAC/MSP achieved Phase 1 in the Airports Carbon Accreditation Program and are working on achieving Phase 2 in 2017. Another achievement for reducing environmental impact is the use of Optimized Profile Descent (OPD) and this profile has gained national attention and is collaborative success. In 2016, MSP added four gates at Terminal 2 and that project included the first green roof at MSP.

**Ryks** continued his presentation with recent and future improvements in the "Reimagine MSP" campaign. In the last year, the international arrivals area at T1 was expanded, T2 saw new car rental facilities, a quick ride ramp was added to T1, and nearly 50 new concessions venues were added.

Looking to the future, it is projected that by 2035, MSP will serve more than 50 million passengers annually. In order to accommodate that increase in passengers, MAC plans to invest \$1.6 billion in airport improvements over the next several years and then \$2.5 billion by 2035. Some of those investments include a complete remodel of both ticketing and baggage levels at T1, escalator and elevator changes will be made at T1, amenities will be consolidated and centrally located, increasing natural light and better sight lines will be the focus for the upcoming upgrades and investments. Graves Hospitality and MAC are teaming up to develop a 300-room InterContinental Hotel and it will open in the summer of 2018. A skyway will connect T1 at Concourses A, B, and connect C to the hotel and this will expand to concourse G. A 5,000 space parking ramp is scheduled to start construction this summer.

**Ryks** reported that construction on these projects alone will generate more than 2,000 full-time equivalent jobs and in-total, the airport generates over \$10 billion to the local economy.

**Ryks** concluded his presentation with recent accolades and awards, namely Airports Council International-North America named MSP the Best Airport in North America in its size category. MSP also won a World Airport Award from Skytrax for Best Airport Staff in North America.

#### 4. Review of Monthly Operations Reports: March and April, 2017

Using the new Operations Summary Report, **Brad Juffer, Assistant Technical Advisor** highlighted that March 2017 had 36,235 operations and April 2017 had 33,971. There were 2,441 nighttime operations in March and 2,143 in April. In March 42% of the time was spent in North Flow, 50% in South Flow and 2% in Mixed Flows. In April that split was 44%/43%/7%. **Juffer** reported these months in 2016 had significantly higher use of South Flow traffic, due to southerly winds and Converging Runway Operations.

Regional jets represented 42% of operations in March and 40% in April. Narrow body jets increased from 54% in March to 57% of the operations in April.

**Juffer** went on to report aircraft noise complaints, stating 13,244 complaints were filed in March from 331 locations. In April, 13,907 complaints were filed from 407 locations. **Juffer** reported the average number of complaints per household as well as operations per complaint and how it relates to when the new complaint system was launched in January 2017.

Noise levels at the 39 Remote Monitoring Towers were reported for March and April. Collectively, 481 hours of aircraft events over 65dBA were recorded in March and 509 hours in April. Those times each month equate to 93,250 noise events in March and 95,553 noise events in April. That equates to each operation producing about 48 seconds of time over 65dBA in March and about 54 seconds in April. On average, each aircraft operation produced 2.5 noise events in March and almost 3 in April; this means that on average, each operation had a noise event detected by about 3 different monitors and each operation created a noise event, on average, of about 18.6 seconds in March and 19.2 in April.

Runway 17 Departure Procedure was flown by 99.7% of departures in March and 99.6% of the departures in April. The Eagan-Mendota Heights Departure Corridor compliance was at 90.7% compliance in March and 88.5% compliance in April. The decrease in compliance per month is typical during this time of year with more northeasterly winds blowing the aircraft out of the corridor and to the south. The Crossing-in-the-Corridor procedure was used 28.8% of the time during daytime hours in March and 32.7% of the time at night. In April, it was used 32.7% of the time during the day and 43% of the time at night. In March, high priority runways were used 50.7% of the time. In April the high priority runways were used 52% of the time in April.

**Representative Goss, Delta**, asked **Juffer** if data related to the number of complaints per household will still be available. **Juffer** responded that that information can be made available in future presentations.

**Representative Olson, Minneapolis**, said she would like to see a map that illustrates the locations of the households with noise complaints so over the span of a few months, the locations can be compared for greater understanding. **Olson** asked for clarification on the RUS numbers. **Juffer** responded that in March, 51% of departures used the 12s or 17 and 51% of arrivals used the 30s or 35. **Juffer** followed by saying that complaints by location are in the report and the interactive report but he can also add that information to the presentation for the NOC.

## 5. FAA Converging Runway Operations Update

**Kurt Mara, FAA ATC Manager**, reported that January 5<sup>th</sup>, 2017 was when the shift was made to using 30L/R for departures and there has been a drop in departure delays since then. June 1<sup>st</sup>, 2017 the FAA will implement a Converging Operating Runway Display Aid (CRDA). This tool will allow ATC to align and sequence departures more efficiently. CRDA has been used in the past on runway 17/22 operations and was used in 2008-2010 when the parallel runways were under construction. This process will now be used whenever MSP is on a north flow with arrivals on Runways 30L, 30R and 35 with departures on Runways 30L and 30R. The goal for CRDA is to help arrivals on 35 line up with arrivals on 30L so the departure gap is not missed due to the arrival/departure window (ADW). After an aircraft arrives on 30L, the controller will taxi the next departure onto the runway to wait for a departure clearance. Simultaneously, an arrival on Runway 35 will be just entering the ADW. When the arrival on 35 exits the ADW, the departure on 30L will be cleared with enough separation for the next arrival to Runway 30L.

For now, there is not a way to follow this procedure on 30R but during visual approach conditions, the goal will be to align the traffic on 30R and 30L. This process will help the departure gap for traffic departing on 30R as well as those departing 30L.

**Mara** provided clarification for **Representative Olson, Minneapolis** on the ghost plane and where it lines up.

**Representative Jill Smith, Mendota Heights**, asked how this procedure will help capacity at the airport. **Mara** responded that the overall capacity of the airport is sufficient and that the focus of this operation is not to increase capacity but to increase safety during short bursts of higher arrival and departure demand.

**Representative Olson, Minneapolis**, asked if using the CRDA encourages a preference of a North or South flow. **Mara** responded that there will always be certain factors based on season or time of year that will be a more determining factor of airport configuration. For now, the runway use percentages are not expected to change significantly. **Olson** followed up by asking **Mara** if there has been any change in the altitude in planes and **Mara** responded that he doesn't know of any changes that would have led to that occurrence. **Representative Goss, Delta**, followed up by saying that no, pilots will always prefer to climb faster. Delta pilots are flying bigger aircraft, so it's possible that the aircraft appear closer simply because they're larger. Larger planes can often be heavier and have heavier loads so it's possible that they're climbing slower but not regularly lower.

## 6. Delta Air Lines Fleet Mix Update

**Representative Goss, Delta**, presented the mainline fleet plan for Delta as of Spring 2017.

The Boeing 747 is set to retire by December 2017; however, none are scheduled through MSP. The Boeing 777 is currently being flown from MSP to Haneda, Tokyo (HND) and MSP to Paris, France (CDG) with a total of 18 in Delta's fleet.

Delta has an order of 25 Airbus A-350 aircraft with 15 to be delivered between 2017 and 2019. Currently, the airline does not plan to have regular flights from MSP. Delta has 32 Airbus A-330 -200/-300/-900 in its fleet with 25 on order for 2019-2022. These will mostly be on flights from MSP to Europe.

There are 82 Boeing 767 -300/-300ER/-400 in Delta's fleet with regular flights from MSP to Europe and are expected to remain in Delta's fleet through 2020. There are 104 Boeing 757 -200/-300 in Delta's fleet, mostly flying domestically out of MSP.

There are 87 Boeing 737 -700/-800 aircraft and 75 Boeing 737-900 aircraft in Delta's fleet with 55 additional -900s on order to be delivered between 2017 and 2019. These aircraft fly mainly domestic flights from MSP. Delta has 125 Airbus A-319/320 aircraft and 19 A-321 aircraft in its fleet with an additional 112 to be delivered between 2017 and 2021. There are 91 Boeing 717 aircraft in Delta's fleet with no additional orders.

There are 65 McDonnell Douglas MD-90 aircraft in Delta's fleet and 116 MD-88 aircraft. These two aircraft types are out of production and Delta plans to retire all MD-88 aircraft by December 2020.

There is an order of 75 new Bombardier CS-100/300 aircraft, which the airline is expecting to take delivery beginning Spring 2018 and in service by Summer 2018. These are long range aircraft and extremely quiet.

**Goss** continued by reviewing technology and engine formations and how that factors in to a reduction in noise. Delta is focusing on up-gauging aircraft and reducing its carbon and noise

footprint. In the next 3 years, Delta is taking big steps towards the reductions of these impacts with quieter and more fuel efficient aircraft.

## 7. Interactive Reports Demonstration

**Brad Juffer, Assistant Technical Advisor**, stated that in March the Committee approved a Staff request to produce the new MSP Operations Summary Report that condensed 85 pages of reports down to a four-page summary of four sections: Operations, Complaints, Sound Monitoring, and Noise Abatement. This consolidation does not provide the level of detail that the community has grown accustomed to and as such, the Noise Office built a reporting application on its website.

**Juffer** provided a demonstration of the new reporting application and began by showing all the monthly reports from 2013 on are archived on the site and available for look-up. All current reports will be broken into four sections and online features are available on each page to assist in navigation and to increase the customers' access to detailed information. The Noise Office has a goal to launch this application for the May reporting cycle by June 12, 2017 and **Juffer** requested the NOC approve the new website interactive reporting capabilities and direct staff to discontinue the production of the monthly technical advisor's report, Eagan-Mendota Heights Corridor Report, Runway 17 Departure Analysis Report, Crossing-In-The-Corridor Analysis Report and the MSP Runway Use System Report. The motion was moved by **Representative Bergman, Apple Valley**, and seconded by **Representative Goss, Delta** and passed by a unanimous vote.

**Representative Olson, Minneapolis**, asked for clarification on complaint data, if it was by day or month and **Juffer** responded that it's per month. The data is exactly the same as in the previous reports. **Olson** asked if the colors used for wind flow on the RUS page could be changed and **Juffer** responded that the team opted out of that because there are conditions where the surface wind does not support the runway flow that was selected. There are times when other factors determine runway use and/or airport configuration.

**Representative Jill Smith, Mendota Heights**, asked for clarification on how you can tell what runway is in use during a specific wind flow; **Juffer** used the presentation to illustrate how to find that.

## 8. New Aircraft Noise Basics Videos

**Dana Nelson, Technical Advisor**, mentioned that a new aircraft noise basics video, *The MSP Noise Oversight Committee: Collaboration at Work*, was added to the MAC Noise website. This is the third video in a series of five videos to address common questions about aircraft-related topics. This video discusses the collaboration as well as the representation on the NOC.

## 9. Review of January 27 and April 19 Listening Sessions

**Dana Nelson, Technical Advisor**, reviewed both the Winter and Spring Listening Sessions. At the winter session, six residents attended. All resident questions were answered at the meeting, therefore staff did not prepare written responses.

19 residents attended the Spring Listening Session in Eagan, MN. All resident questions were answered at the meeting, therefore staff did not prepare written responses.

Presentation slides from both Listening Sessions are available at

<http://www.macnoise.com/our-neighbors/msp-quarterly-listening-sessions>

The next Listening Session will be on July 26<sup>th</sup> at 7pm in the Apple Valley Municipal Center.

#### 10. Public Comment Period

**Representative Bergman, Apple Valley**, had a resident who intended to make a comment but due to the meeting length she needed to leave. **Bergman** requested that she be allowed to speak at the next meeting but allow the public comment period to be at the start of the meeting so as to be more sensitive to time restrictions.

#### 11. Announcements

**Representative Erazo, Sun Country**, announced that she will no longer be serving on the committee. Sun Country designated her replacement to be Sun Country's Chief Pilot Todd Lawrence and the alternate will be the MSP Based Chief Pilot Ross Schumacher.

**Representative Bergman, Apple Valley**, announced that he will no longer be the At-Large Community representative. The At-Large Community members conducted elections for his replacement and Tom Link from Inver Grove Heights was selected to be the primary representative and the alternate will be Brian Hoffman from Saint Louis Park.

#### 12. Adjourn

A motion to adjourn was requested by **Chair Hart, Delta**, moved by **Representative Bergman, Apple Valley**, and seconded by **Representative Oleson, Bloomington**.

The meeting adjourned at 3:45 p.m.

The next meeting of the NOC is scheduled for Wednesday, 19 July 2017.

Respectfully Submitted,  
Amie Kolesar, Recording Secretary



# MEMORANDUM

**TO:** MSP Noise Oversight Committee (NOC)  
**FROM:** Dana Nelson, Manager – Noise, Environment & Planning  
**SUBJECT:** **NOC CO-CHAIR ELECTIONS**  
**DATE:** July 5, 2017

Per the Minneapolis-St. Paul International Airport (MSP) Noise Oversight Committee (NOC) Bylaws Article 2, Part 6, the *“primary representatives and alternate representatives of Designated Communities and, Users and At-Large Communities shall be appointed to serve for two (2) years.”* Pursuant to this bylaw provision and in consideration of the present appointment cycle, NOC appointments were required as of June 26, 2017, as the preceding appointment cycle began on June 26, 2015. All of the Designated Communities, At-Large Communities, and Users have made their appointments.

The process for the selection of Co-Chairs is found in the NOC Bylaws in Article V, given below:

*“The airport user and community segments of the Committee shall each select a Co-Chairperson who will serve at the pleasure of the appointing group. Each Co-Chairperson will serve for a two-(2) year term or until his/her representation on the Committee terminates, or until replaced by the appointing group, whichever occurs first.*

*The powers and duties of the Co-Chairpersons are as follows:*

- 1. To review agendas.*
- 2. To preside over meetings - the presiding Chairperson will alternate every other meeting.*
- 3. By the mutual consent of the Co-Chairpersons, special meetings may be called, or upon request of a majority of the Committee, four (4) users and four (4) community representatives.*
- 4. To sign as Co-Chairpersons of this Committee, all instruments in writing that may require such signature, unless the membership shall otherwise direct, and to perform such other duties and tasks as these Bylaws or as the membership shall from time to time prescribe.*
- 5. Each segment of the Committee, by a majority vote, shall elect their respective Co-Chairperson.”*

Additionally, the bylaws outline a process for the At-Large Communities to establish their primary and alternate representatives to the NOC. Specifically, the At-Large Communities as a group are the appointing authority for the At-Large seat. Each At-Large Community has one vote in the selection process of the At-Large Communities’ primary and alternate representatives. On May 17, 2017 the newly appointed At-Large Community group elected Tom Link, City Staff of Inver Grove Heights, to be the primary At-Large Community representative and the alternate was selected to be Brian Hoffman, City Staff of St. Louis Park.

Within the Users group, Charter/Scheduled Operator representative, Todd Lawrence replaced Karen Erazo; Minnesota Business Aviation Association (MBAA) representative Ryan Barette replaced Doug Nelson. All of the other representatives were re-appointed by their respective authorities.

Within the Community group, St. Paul At-Large City representative, Susan Heegaard replaced Amy Salmela; earlier in the year, Mendota Heights City Council Member, Jay Miller replaced Council Member, Elizabeth Petschel; Richfield City representative, Pam Dmytrenko replaced outgoing City Council Member, Tom Fitzhenry; Sunfish Lake At-Large representative, Daniel O'Leary replaced outgoing Mayor, Molly Park; Edina At-Large City representative, Council Member Mary Brindle replaced outgoing Council Member, Ann Swenson. All of the other representatives were re-appointed by their respective cities. The updated NOC roster is shown on Attachment 1.

At the July 19, 2017 NOC meeting a nomination process and vote will be conducted for airport user selection and community selection of their respective NOC Co-Chairs.

#### COMMITTEE ACTION REQUESTED

CONDUCT USER AND COMMUNITY CO-CHAIR NOMINATIONS AND ELECTIONS TO ESTABLISH THE RESPECTIVE CO-CHAIRS TO SERVE FOR TWO YEARS FROM JUNE 26, 2017 THROUGH JUNE 25, 2019.

**Attachment 1**  
**MSP Noise Oversight Committee**

**Membership Roster**

**22 May 2017**



Airport User Chair: Jeffrey Hart, Delta Air Lines  
 Community Chair: Dianne Miller, City of Eagan

User Representation	Representative	Alternate	Alternate
SCHEDULED AIRLINE (Term: 6.26.17 - 6.25.19)	Jeffrey Hart Delta Air Lines Department 118 D5550 4300 Glumack Dr St Paul MN 55111 jeffrey.hart@delta.com	Hank Moody Delta Air Lines Department 877 1030 Delta Boulevard Atlanta GA 30320 404-715-2114 hank.moody@delta.com	
CARGO CARRIER (Term: 6.26.17 - 6.25.19)	Angie Moos United Parcel Service 2645 Cargo Rd Minneapolis MN 55450 612.243.4703 amoos@ups.com	Christine Koppen United Parcel Service 2645 Cargo Rd Minneapolis MN 55450 ckoppen@ups.com	
CHARTER/SCHEDULED OPERATOR (Term: 6.26.17 - 6.25.19)	Todd Lawrence Sun Country Airlines Chief Pilot 2005 Cargo Road Minneapolis MN 55450 651.681.3984 todd.lawrence@suncountry.com	Ross Schumacher Sun Country Airlines Base Chief Pilot 2005 Cargo Road Minneapolis MN 55450 651.389.3271 ross.schumacher@suncountry.com	
CHIEF PILOT (Term: 6.26.17 - 6.25.19)	Gordon Goss Chief Pilot - Minneapolis Delta Air Lines Dept MSP 062 7500 Airline Dr St Paul MN 55111 612.266.8770 gordon.goss@delta.com	John Klinger Chief Pilot Office - Minneapolis Delta Air Lines Dept MSP 062 7500 Airline Dr St Paul MN 55111 612.266.8770 john.r.klinger@delta.com	
MBAA (Term: 6.26.17 - 6.25.19)	Ryan Barette barette.ryan@gmail.com 952.250.2164	Matthew Hall matthew.hall@signatureflight.com 18035 Hydra Circle Lakeville MN 55044 612.816.3897	
At-Large Representative (Term: 6.26.17 - 6.25.19)	Paulajeane Vick MSP City Director Delta Global Services, LLC 4300 Glumack Dr Ste C1931B St Paul MN 55111 612.266.8825 paulajeane.vick@delta.com	Thomas Harris Delta Global Services, LLC 4300 Glumack Dr Ste C1931B St Paul MN 55111 612.266.8825 thomas.harris@delta.com	

Community Representation	Representative	Alternate	Alternate
City of Bloomington (Term: 6.26.17 - 6.25.19)	Jon Oleson 8725 2nd Ave S Bloomington MN 55420 C: 651.208.6586 joleson@bloomingtonmn.gov	Dwayne Lowman 2400 W 102nd St Apt 210 Bloomington MN 55431 952.479.0226 dlowman@bloomingtonmn.gov	
City of Eagan (Term: 6.25.17 - 6.25.19)	Dianne Miller Assistant City Administrator City of Eagan 3830 Pilot Knob Rd Eagan MN 55122 W: 651.675.5014 dmiller@cityofeagan.com	Cyndee Fields City Council Member City of Eagan 3830 Pilot Knob Rd Eagan MN 55122 H: 651.686.0351 cfields@cityofeagan.com	
City of Mendota Heights (Term: 6.25.17 - 6.25.19)	Jay Miller City Council Member Mendota Heights MN H: 651-994-0482 jaym@mendota-heights.com	Jill Smith Mendota Heights MN H: 651-688-7444 C: 651-402-6086 jillsmith38@comcast.net	Dave Sloan Airport Relations Commissioner 2073 Acacia Dr Mendota Heights MN 55118 H: 612.850.0328 davidssloan@msn.com
City of Minneapolis (Term: 6.26.17 - 6.25.19)	John Quincy City Council Member, Ward 11 City of Minneapolis Rm 307 350 S 5th St Minneapolis MN 55415 W: 612.673.2211 F: 612.673.3940 john.quincy@minneapolismn.gov	Loren Olson Government Relations Representative City of Minneapolis 350 South 5th St 301M Minneapolis MN 55415 W: 612.673.2447 C: 612.759.9037 loren.olson@minneapolismn.gov	
City of Richfield (Term: 6.25.17 - 6.25.19)	Pam Dmytrenko Assistant City Manager 6700 Portland Ave Richfield MN 55423 W: 612.861.9708 PDmytrenko@cityofrichfield.org	Maria Regan Gonzalez City Council Member 6700 Portland Ave Richfield MN 55423 H: 612.500.3862 MRegan@cityofrichfield.org	

At-Large Representative	Primary Representative	Alternate Representative
(Term: 6.26.17 - 6.25.19)	Tom Link Community Development Director City of Inver Grove Heights 8510 Barbara Ave Inver Grove Heights MN 55077 W: 651.450.2546 tlink@invergroveheights.org	Brian Hoffman Director of Inspections City of St Louis Park 5005 Minnetonka Blvd St Louis Park MN 55416-2290 W: 952.924.2584 bhoffman@stlouispark.org

At-Large City Contacts	Representative	Alternate
APPLE VALLEY (Term: 6.25.17 - 6.25.19)	John Bergman City Council Member 14691 Guthrie Ave Apple Valley MN 55124 H: 952.891.2508 jkbergman@frontiernet.net	
BURNSVILLE (Term: 6.25.17 - 6.25.19)	Skip Nienhaus Economic Development Director City of Burnsville 100 Civic Center Pkwy Burnsville MN 55337 W: 952.895.4454 skip.nienhaus@burnsvillemn.gov	
EDINA (Term: 6.26.17 - 6.25.19)	Mary Brindle City Council Member 6901 Paiute Drive Edina MN 55439 H: 952.941.7746 C: 612.270.9887 mbrindle@comcast.net or mbrindle@edinamn.gov	
INVER GROVE HEIGHTS (Term: 6.25.17 - 6.25.19)	Tom Link Community Development Director City of Inver Grove Heights 8510 Barbara Ave Inver Grove Heights MN 55077 W: 651.450.2546 tlink@invergroveheights.org	
ST LOUIS PARK (Term: 6.25.17 - 6.25.19)	Brian Hoffman Director of Inspections City of St Louis Park 5005 Minnetonka Blvd St Louis Park MN 55416-2290 W: 952.924.2584 bhoffman@stlouispark.org	
ST PAUL (Term: 6.25.17 - 6.25.19)	Susan Heegaard 1742 Hartford Avenue St. Paul MN 55116 651.699.8612 sgheegaard@gmail.com	
SUNFISH LAKE (Term: 6.25.17 - 6.25.19)	Daniel O'Leary 10 Windy Hill Road Sunfish Lake MN 55077 O: 651.222.2731 C: 651.238.0904 olearytriallaw@yahoo.com	

MAC Staff

Dana Nelson  
NOC Technical Advisor  
6040 28th Ave S  
Minneapolis MN 55450  
W: 612.725.6330  
F: 612.725.6310  
dana.nelson@mspmac.org

Brad Juffer  
NOC Assistant Technical Advisor  
6040 28th Ave S  
Minneapolis MN 55450  
W: 612.467.0741  
F: 612.725.6310  
brad.juffer@mspmac.org

Amie Kolesar  
NOC Secretary  
6040 28th Ave S  
Minneapolis MN 55450  
W: 612.794.9140  
F: 612.725.6310  
amie.kolesar@mspmac.org

# MEMORANDUM

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ITEM 3

**TO:** MSP Noise Oversight Committee (NOC)

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

**SUBJECT:** **REVIEW OF MONTHLY OPERATIONS REPORTS: MAY AND JUNE, 2017**

**DATE:** July 5, 2017

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 aircraft operations on its interactive reporting website: <https://www.macenvironment.org/reports/>.

At the July 19, 2017 NOC meeting, MAC staff will provide a summary of this information for the months of May and June, 2017. To view these summary reports prior to the meeting, visit the Archives section at the link above.

# MEMORANDUM

**TO:** MSP Noise Oversight Committee (NOC)  
**FROM:** Dana Nelson, Manager – Noise, Environment & Planning  
**SUBJECT:** **REVIEW OF RESIDENTIAL NOISE MITIGATION PROGRAM IMPLEMENTATION**  
**DATE:** July 5, 2017

The NOC 2017 Work Plan includes a review of the residential noise mitigation program implementation.

For over two decades the MAC has administered one of the most aggressive noise mitigation programs in the world at Minneapolis-St. Paul International Airport (MSP). Since 1992, the MAC has spent close to \$500 million on noise mitigation programs at MSP. This includes insulating over 15,000 single-family homes, 3,200 multi-family units, 18 schools and acquiring 437 residential properties. The MAC is committed to continue mitigating homes based on an amended Consent Decree until the year 2023.

Amended Noise Mitigation Program

Under the provisions of the First Amendment to the Consent Decree, filed in September 2013 by the MAC, the cities of Minneapolis, Richfield, Eagan, and the Minneapolis Public Housing Authority, properties must meet certain criteria to be considered eligible for participation in the MAC noise mitigation program.

First, as stated in the Amendment:

*“The community in which the home is located has adopted local land use controls and building performance standards applicable to the home for which mitigation is sought that prohibit new residential construction, unless the construction materials and practices are consistent with the local land use controls and heightened building performance standards for homes within the 60 DNL Contour within the community in which the home is located.”*

Second, as stated in the Amendment:

*“The home is located, for a period of three consecutive years, with the first of the three years beginning no later than calendar year 2020 (i) in the actual 60-64 DNL noise contour prepared by the MAC under Section 8.1(d) of this Consent Decree and (ii) within a higher noise impact mitigation area when compared to the Single-Family home's status under the noise mitigation programs for Single-Family homes provided in Sections 5.1 through 5.3 of this Consent Decree or when compared to the Multi-Family home's status under the noise mitigation programs for Multi-Family homes provided in Section 5.4 of this Consent Decree. The noise contour*



*boundary will be based on the block intersect methodology. The MAC will offer noise mitigation under Section IX of this Consent Decree to owners of eligible Single-Family homes and Multi-Family homes in the year following the MAC's determination that a Single-Family or Multi-Family home is eligible for noise mitigation under this Section.”*

In cases where homes have received previous reimbursements or mitigation from the MAC, those improvements will be deducted from the efforts required to increase the homes' mitigation relative to the actual noise level, per the amended Consent Decree.

A second amendment was made to the Consent Decree in 2017. This amendment allows the use of the Aviation Environmental Design Tool (AEDT) to run the actual noise contours each year, beginning with the 2016 actual noise contour. In 2015, AEDT became the federally-approved computer model for determining and analyzing noise exposure and land use compatibility issues around United States airports. The second amendment also provided clarity on the opt-out eligibility criteria. Specifically, single-family homes that previously opted out of the Partial Noise Reduction Package may participate in the Full 5-decibel Reduction Package, provided the home meets the eligibility requirements.

#### 2017 Noise Mitigation

The 2017 Noise Mitigation Program eligibility was established by the 2013/2014/2015 annual noise contours. These noise contours qualified 138 single-family homes, a 6-unit separate living complex and an 82-unit apartment building to receive mitigation in 2017. All of these units are located within the 60-62 DNL noise contour and therefore eligible for the “Partial Noise Reduction Package”, which is the installation of central air conditioning plus up to \$5,395<sup>1</sup> of noise mitigation products and services or up to \$18,884<sup>1</sup> of noise mitigation products and services where air conditioning already exists, or when the homeowner chooses not to receive a new air conditioner. All residential properties that meet the mitigation eligibility criteria are located within the City of Minneapolis. The MAC has reserved \$3.2 million to execute the 2017 Noise Mitigation Program.

The MAC coordinated letter and questionnaire mailings with the City of Minneapolis beginning in June 2016. An invitation to a Homeowner Orientation Meeting was sent in January 2017 and three homeowner orientation meetings were held in March 2017 to share information and options with homeowners, gather more information about their homes and schedule design visits. Per the requirements of the amended Consent Decree, all 2017 Noise Mitigation Program homes will be completed by December 31, 2017.

#### 2018 Noise Mitigation

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<sup>1</sup>Dollar allocations will be adjusted consistent with changes in the Consumer Price Index.

The 2018 Noise Mitigation Program eligibility was established by the 2014/2015/2016 annual noise contours. These noise contours qualified 286 single-family homes to receive mitigation by the end of 2018. Of these homes, 165 are located within the 60-62 DNL noise contour and therefore eligible for the “Partial Noise Reduction Package”, which is the installation of central air conditioning plus up to \$5,395<sup>1</sup> of noise mitigation products and services or up to \$18,884<sup>1</sup> of noise mitigation products and services where air conditioning already exists, or when the homeowner chooses not to receive a new air conditioner. An additional 121 single-family homes are eligible for the Full 5-decibel Reduction Package. Previous mitigation given to these homes will be considered when doing the design for the 5-decibel reduction package. There are no multi-family units within the 2018 Mitigation Program. All residential properties that meet the mitigation eligibility criteria are located within the City of Minneapolis. The MAC has reserved \$6.0 million in its Capital Improvement Program to execute the 2018 Noise Mitigation Program.

The MAC coordinated letter and questionnaire mailings with the City of Minneapolis beginning in June 2017. The letters also included an invitation to one of six Homeowner Orientation Meetings beginning July 2017. Per the requirements of the amended Consent Decree, all 2017 Noise Mitigation Program homes will be completed by December 31, 2018.

At the July 19, 2017 NOC meeting, Mr. Pat Mosites, MAC Airport Development Project Manager, will provide an update on the progress of the implementation of the 2017 Residential Noise Mitigation Program and the plans for the upcoming 2018 program.

# MEMORANDUM

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ITEM 5

**TO:** MSP Noise Oversight Committee (NOC)

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

**SUBJECT:** **2018 SUPER BOWL AIRCRAFT ACTIVITY UPDATE**

**DATE:** July 5, 2017

Super Bowl LII is coming to Minnesota on Sunday, February 4, 2018 at the new US Bank Stadium. Increased passenger and aircraft activity levels are expected at MSP and the MAC's general aviation reliever airports between January 26 and February 5, 2018. The MAC's preparation and planning efforts are being led by Phil Burke, the Director of MSP Airport Operations.

A communication strategy is being developed to inform residents of the temporary change in operations at MSP. This will include posting website news articles on macnoise.com and providing updates at the Fall 2017 and Winter 2018 Listening Sessions.

At the July 19, 2017 NOC meeting, Mr. Burke and Federal Aviation Administration representatives Kurt Mara and Sean Fortier will provide a presentation on the planning efforts, the expected flight activity levels, operational changes associated with the event, and discuss the associated communication plan.

# MEMORANDUM

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ITEM 6

**TO:** MSP Noise Oversight Committee (NOC)

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

**SUBJECT:** **FLY QUIET AWARD PROGRAM EVALUATION**

**DATE:** July 5, 2017

The 2017 NOC Work Plan includes an evaluation of benefits associated with implementing a Fly Quiet Award Program at MSP. Such programs exist at a small number of U.S. airports where the primary goal is to complement the airlines that are the quietest at the airport.

In order to better understand the value of instituting a similar program at MSP, MAC staff conducted a baseline assessment of three U.S. airports that have instituted a Fly Quiet Award Program – Vancouver International Airport, Oakland International Airport (OAK), and Seattle-Tacoma International Airport (SEA). Staff contacted airport staff at each of these airports and requested information on the criteria each airport uses to determine an award winner and the effectiveness of the program at reducing noise impacts by changing operator behavior.

The Vancouver International Airport (YVR) established their award program to raise awareness of noise issues within the aviation community and with airport operators. They determine the award winners using average annual noise levels at specific noise monitoring stations located under the departure path of their main departure runway. The airport reported that some airlines are pleased when they win and that the program has raised awareness of noise issues, however the award has not resulted in operational behaviors to comply with the award criteria.

The Oakland International Airport (OAK) award was based on adherence to existing voluntary noise abatement procedures. The airport has not given an award in several years due to staffing limitations. Even with the absence of the award program, the airport reports having a high compliance rate with voluntary noise abatement procedures.

The Seattle-Tacoma International Airport (SEA) uses a custom report for jet operations and determines the award winners using adherence to noise abatement procedures, single event noise levels at four noise monitoring stations and field rule violations for ground maintenance run-ups. The airport reports that, in general, the noise abatement compliance percentages have improved over the past ten years; however airport staff indicated this was not directly related to the implementation of their Fly Quiet Program. The airport does not receive much feedback from aircraft operators, other than that they are happy to receive the award.

The NOC will discuss the efficacy of a Fly Quiet Award Program at MSP at its July 19, 2017 NOC meeting.