

# ITEM 1 REVIEW AND APPROVAL OF NOVEMBER 20<sup>TH</sup> MEETING MINUTES





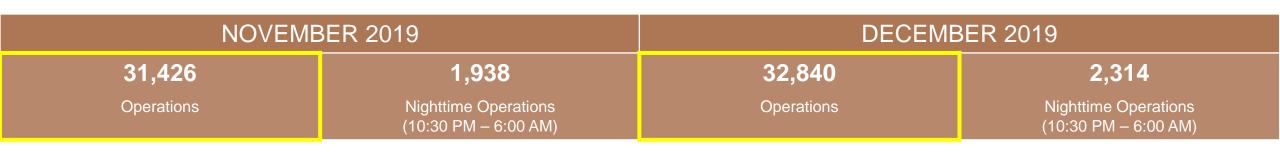


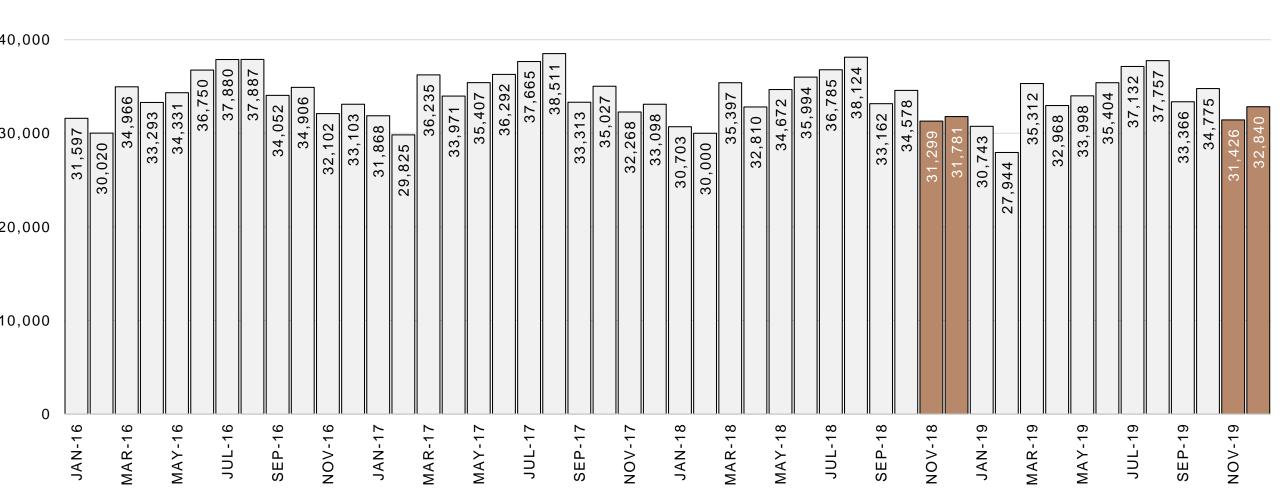
# ITEM 2 REVIEW OF MONTHLY OPERATIONS REPORTS

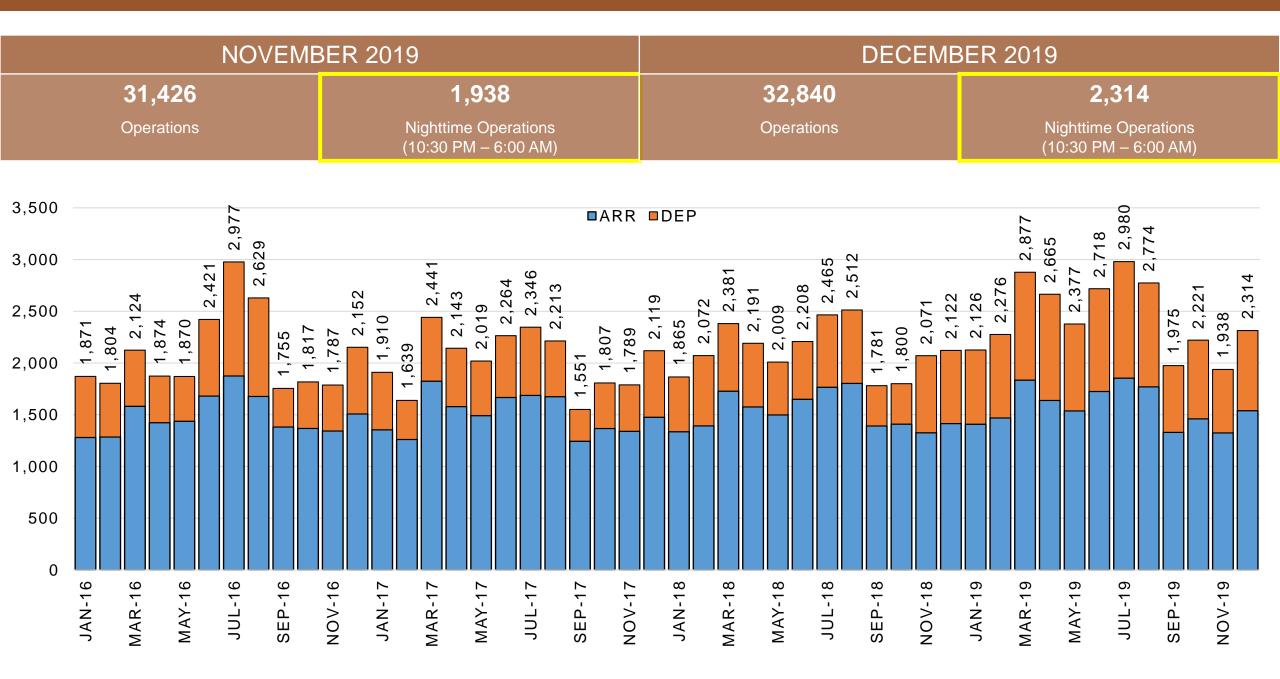




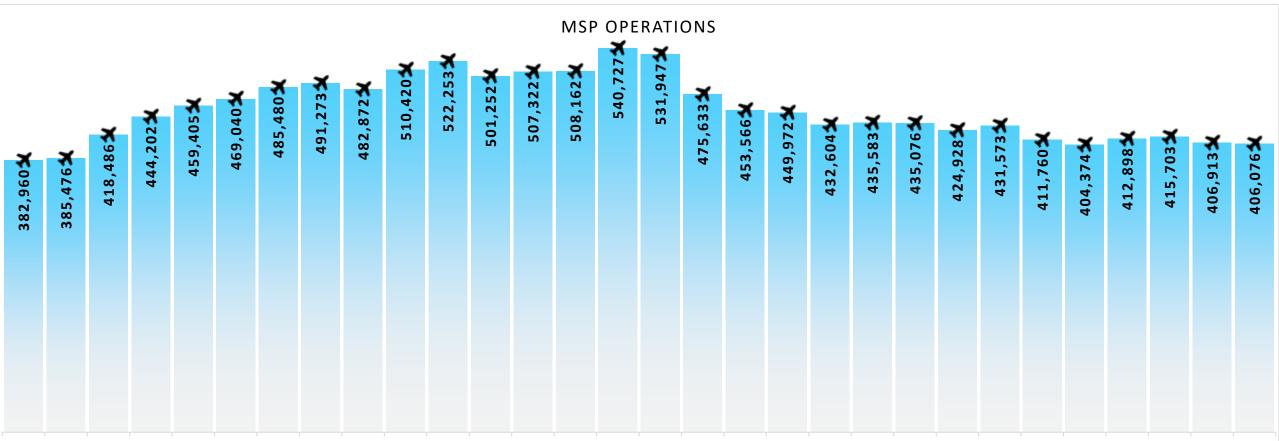








2018	2019
405,305	403,665
MSP Operations (MACNOMS)	MSP Operations (MACNOMS)



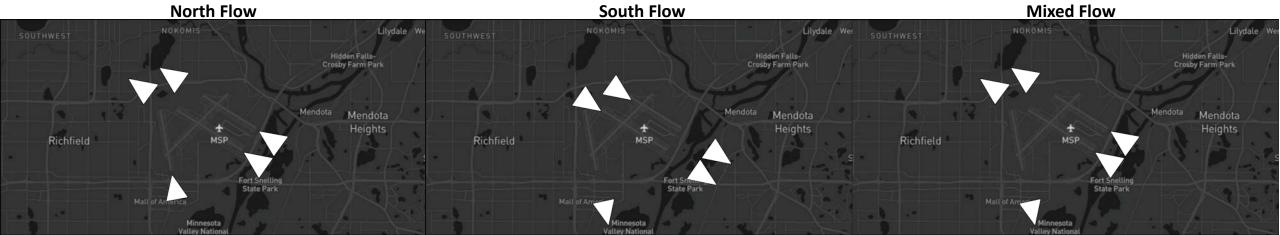
1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019

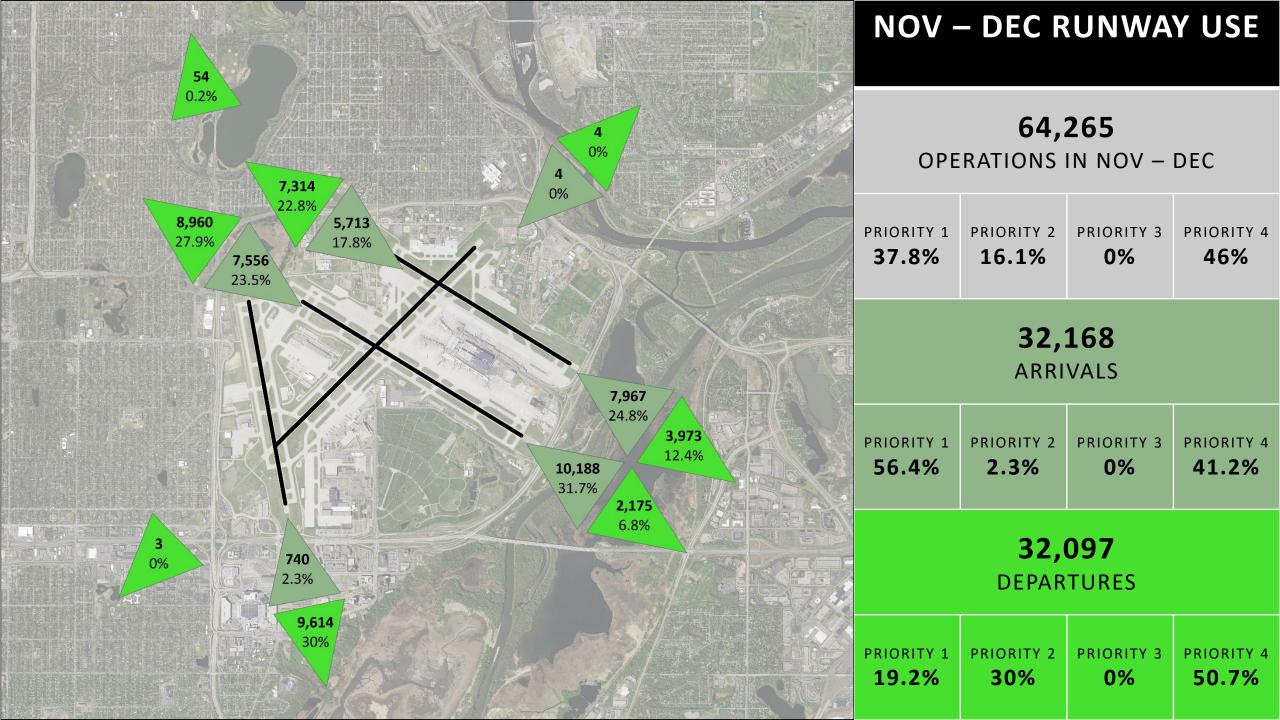
\*\*SOURCE: FAA OPSNET\*\*

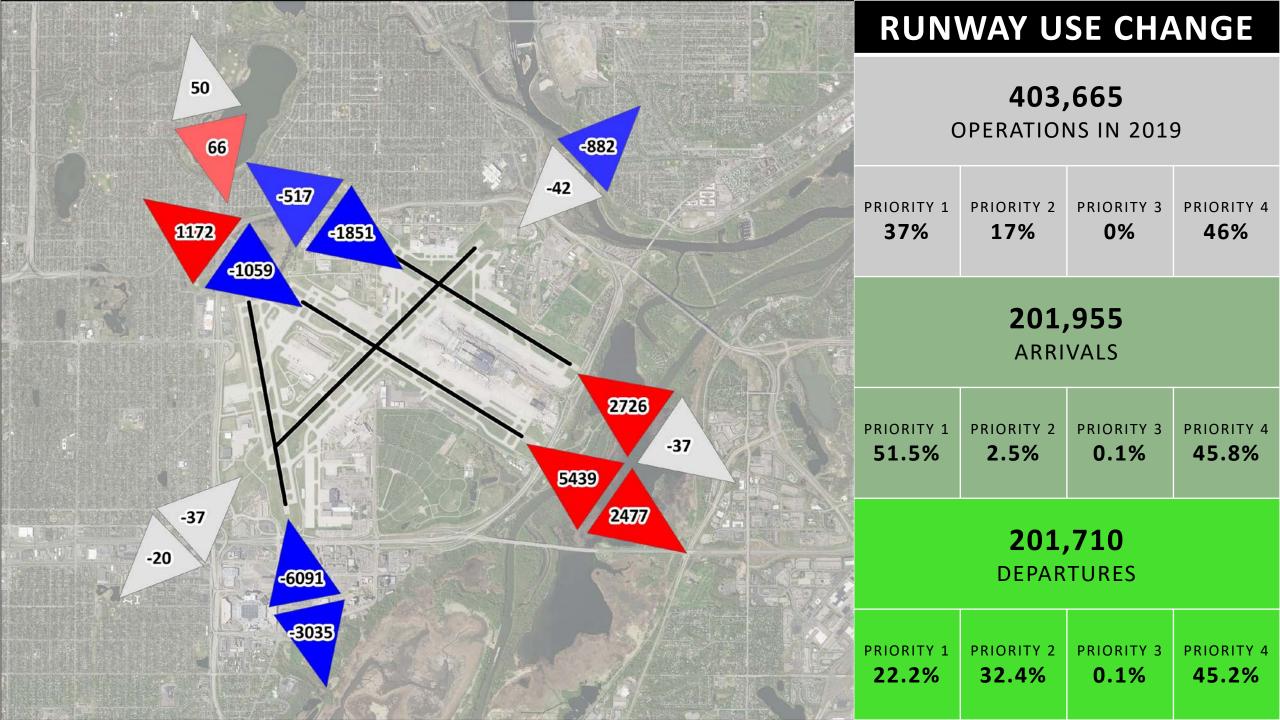
### **RUNWAY USE**

	NOVEMBER 2019			DECEMBER 2019	
NORTH FLOWS	SOUTH FLOWS	MIXED FLOWS	NORTH FLOWS	SOUTH FLOWS	MIXED FLOWS
44%	36%	11%	35%	45%	12%

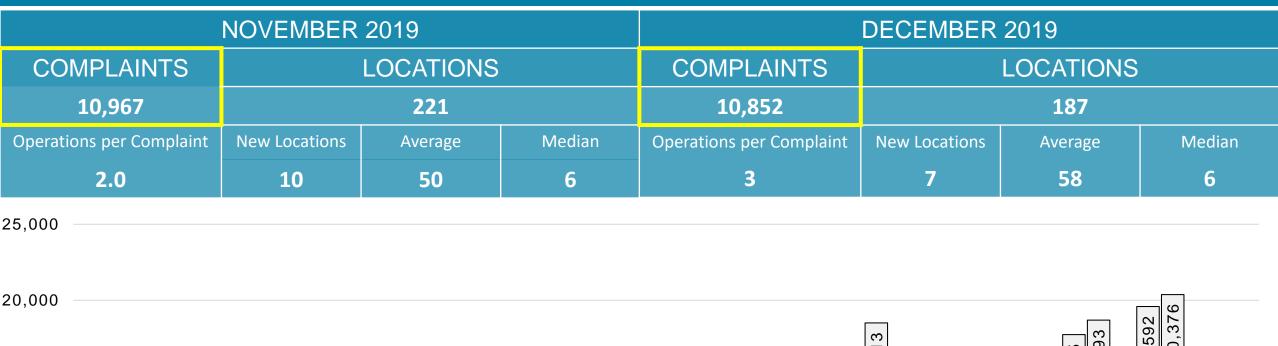
2018		2019				
NORTH FLOWS	SOUTH FLOWS	MIXED FLOWS		NORTH FLOWS	SOUTH FLOWS	MIXED FLOWS
34.2%	46%	11.8%		35.7%	44%	13.3%

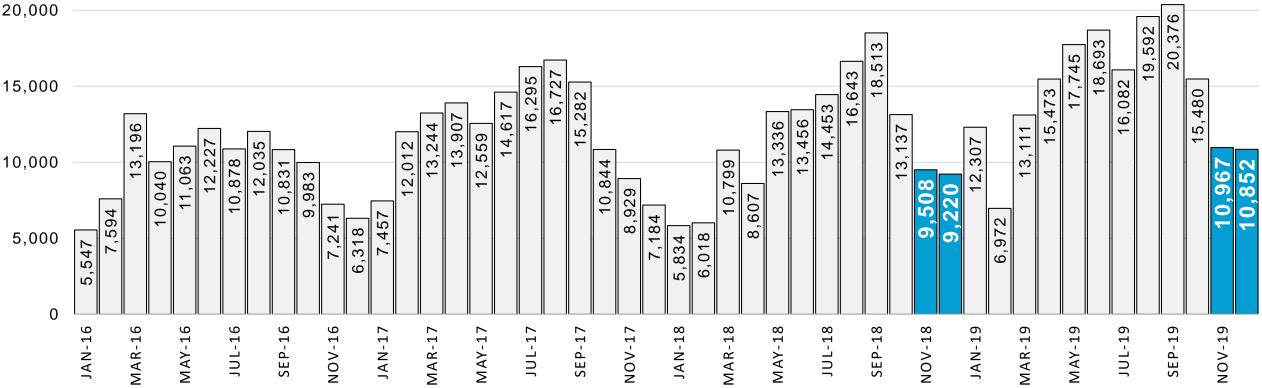




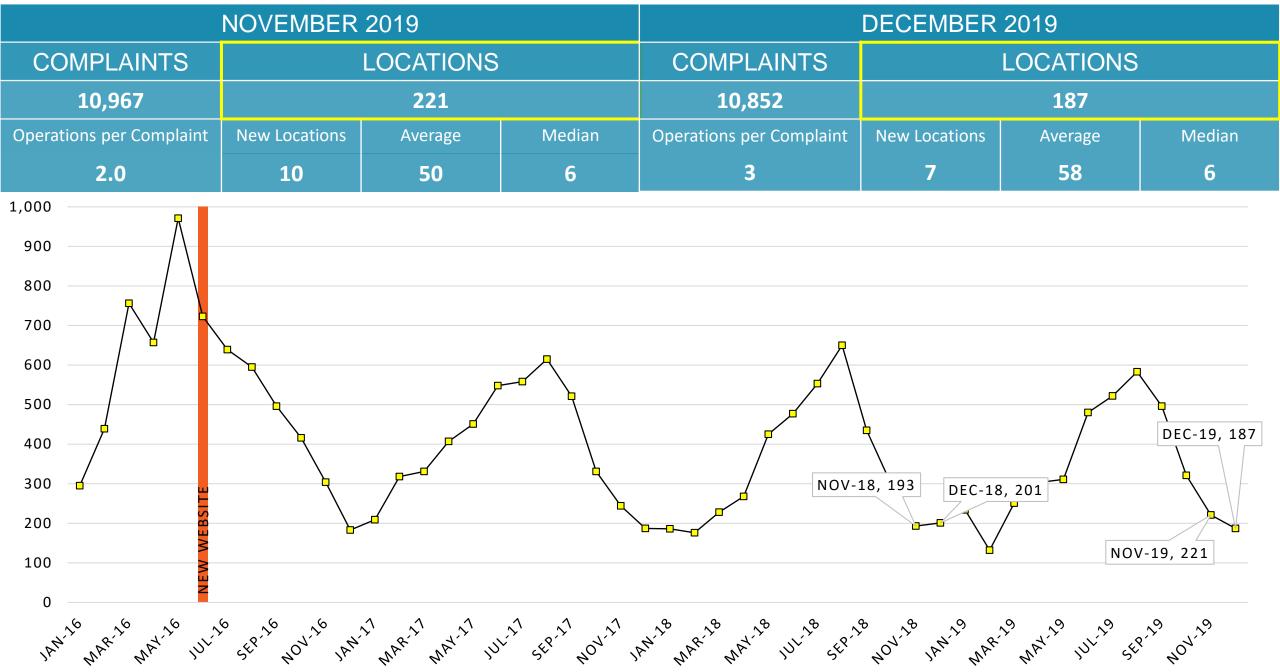


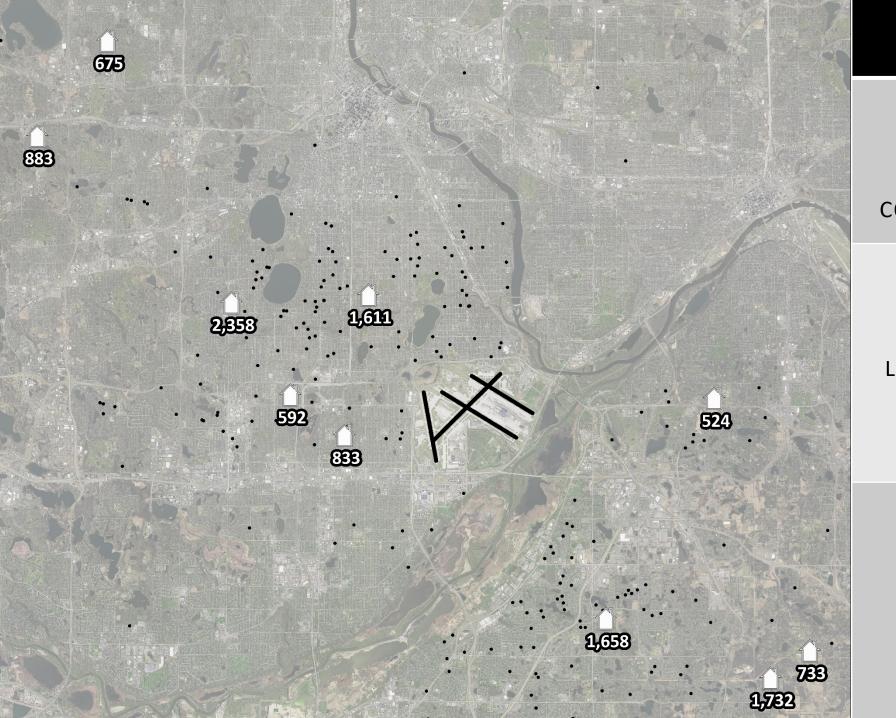
### MSP COMPLAINTS





### MSP COMPLAINTS





## **TOP 10 LOCATIONS**

11,559
(53%)
COMPLAINTS DURING NOV & DEC

**7 OF 10**LOCATIONS WERE IN THE TOP 10
FOR SEP – OCT DATA

171
(62%)
LOCATIONS FILED 10 OR LESS
COMPLAINTS

# MSP COMPLAINTS

	2019	
COMPLAINTS	LOCATIONS	AVERAGE
177,650	1,406	126

	2018	
COMPLAINTS	LOCATIONS	AVERAGE
139,524	1,484	94



### **TOP 10 LOCATIONS**

FILED **86,005** (48.4%) COMPLAINTS DURING 2019

**7 OF 10**LOCATIONS WERE IN THE TOP 10
FOR 2018 DATA

968 (69%) LOCATIONS FILED 10 OR FEWER COMPLAINTS

# 2019 COMPLAINTS BY NOC CITY

**TOP 3 NON-NOC CITIES** 

#### **MINNETONKA**

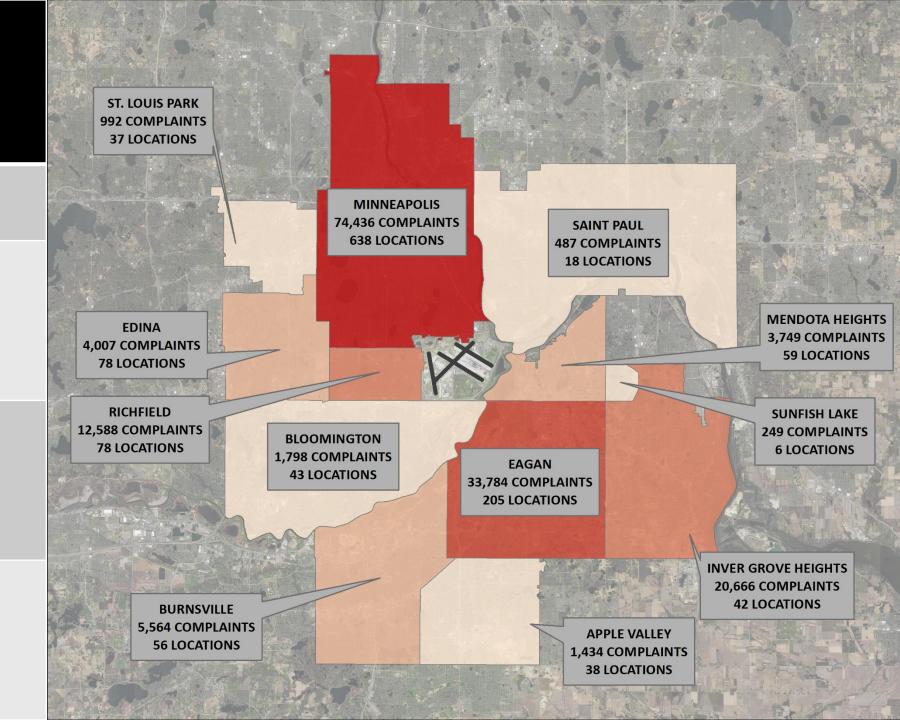
7,585 Complaints 19 Locations

#### **GOLDEN VALLEY**

5,439 Complaints 4 Locations

#### **COTTAGE GROVE**

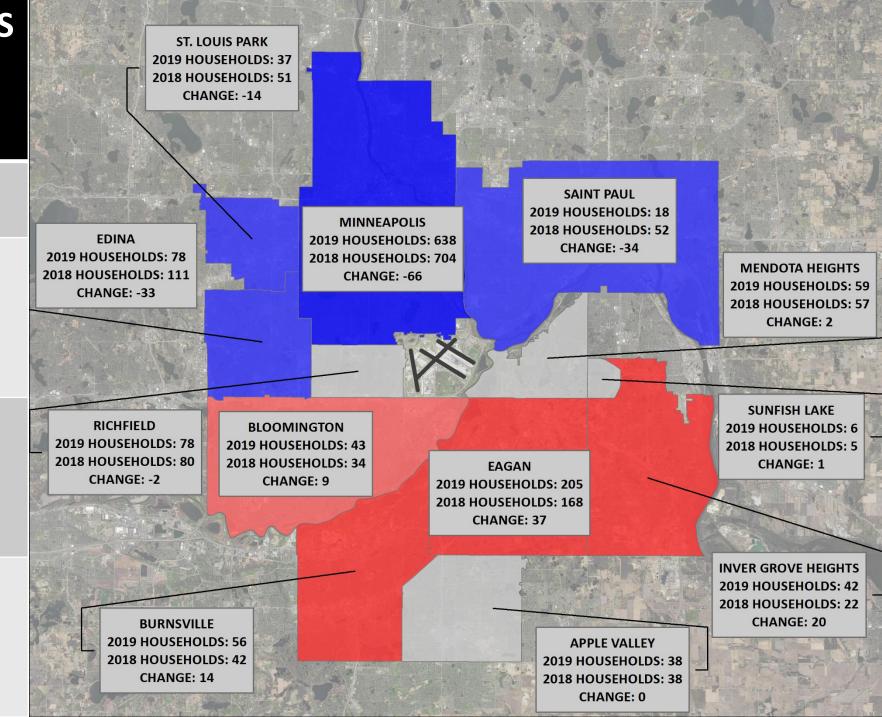
1,306 Complaints
2 Locations



# COMPLAINT LOCATIONS BY NOC CITY

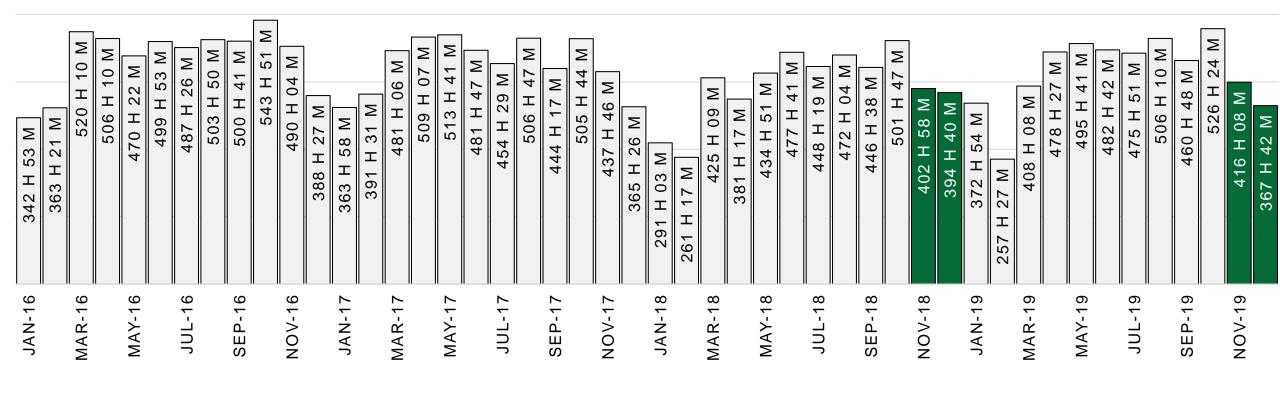
#### **ALL NON-NOC CITIES**

+/- 5 Locations



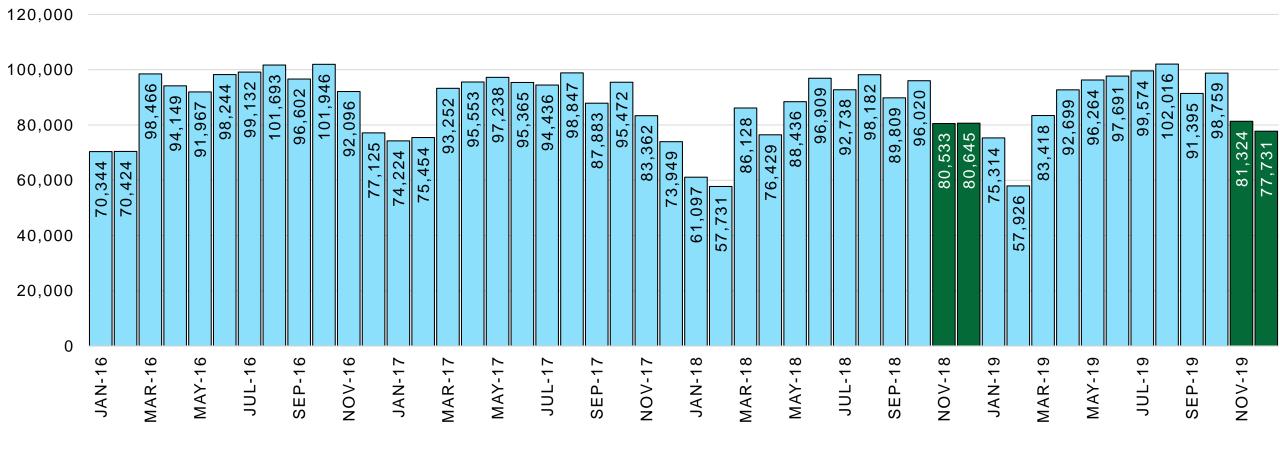
#### **SOUND MONITORING**

	NOVEMBER 201	9		DECEMBER 201	9
Time Above	<b>48<sub>s</sub></b> TA <sup>65</sup> per operation	<b>416<sub>h</sub> 8<sub>m</sub></b> TA <sup>65</sup>	Time Above	<b>40</b> <sub>s</sub> TA <sup>65</sup> per operation	<b>367<sub>h</sub> 42<sub>m</sub></b> TA <sup>65</sup>
Count Above	<b>2.59</b> N <sup>65</sup> per operation	<b>81,324</b> N <sup>65</sup>	Count Above	<b>2.37</b> N <sup>65</sup> per operation	<b>77, 731</b> N <sup>65</sup>



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## SOUND MONITORING

	2019	
Time Above TA <sup>65</sup> per operation		<b>5,248<sub>h</sub></b> TA <sup>65</sup>
Count Above	<b>2.61</b> N <sup>65</sup> per operation	<b>1,054,111</b> N <sup>65</sup>

	2018	
Time Above TA <sup>65</sup> per operation		<b>4,938</b> <sub>h</sub> TA <sup>65</sup>
Count Above	<b>2.48</b> N <sup>65</sup> per operation	<b>1,004,657</b> N <sup>65</sup>

### NOISE ABATEMENT

NOVEMBER 2019

Runway 17	99.5%
Corridor	86.9%
Cross Day	25.7%
Cross Night	38%

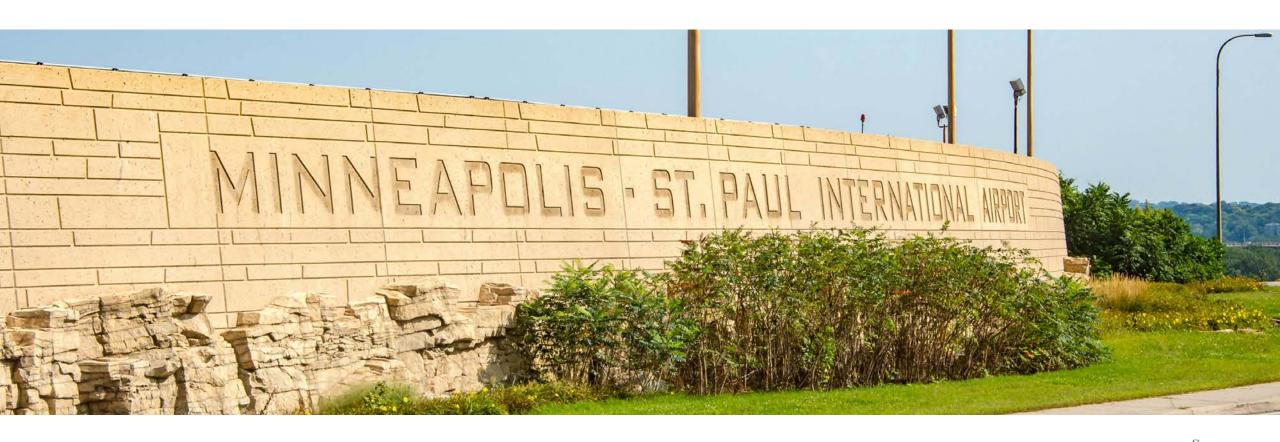
DECEMBER 2019



# NOISE ABATEMENT

Runway 17	99.4%	Runway 17	99.
Corridor	94.4%	Corridor	92.
3 31113131			<u> </u>
Cross Day	34.5%	Cross Day	28.
Cross Night	40.7%	Cross Night	44
RUS	53.8%	RUS	54.

# ITEM 3 PUBLIC COMMENT PERIOD







# ITEM 3 PUBLIC COMMENT PERIOD

#### **Speaking at a Meeting**

- Please complete and submit a speaker card.
- Each speaker will have one opportunity to speak and is allotted three (3) 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.





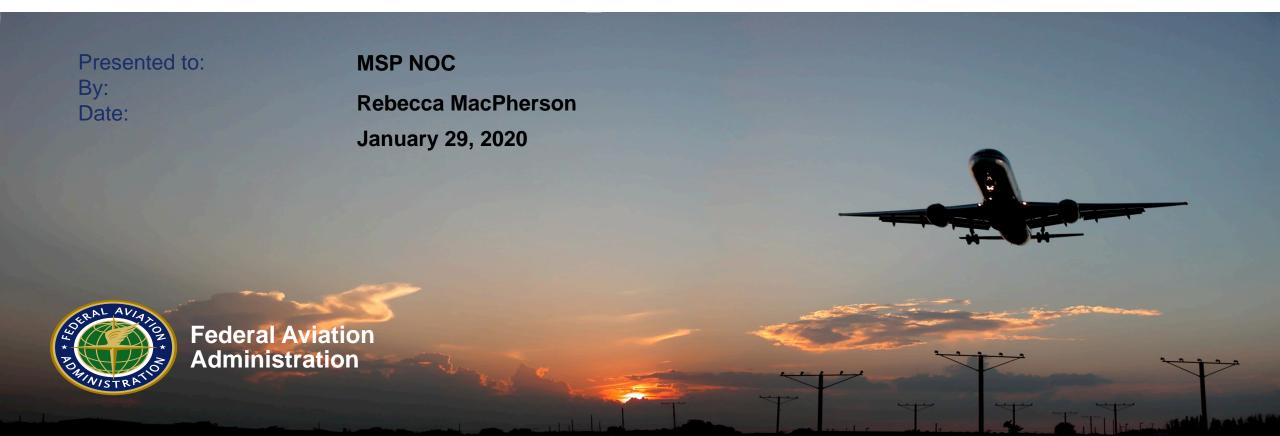
# ITEM 4 VOR MINIMUM OPERATIONAL NETWORK







# Minneapolis (MSP) VOR/DME Partial Decommissioning Overview



# What's being done?

- On Sept. 8, 2022, the MSP VOR/DME will be <u>partially</u> decommissioned.
- Decommissioned: the portion of the VOR/DME that provides pilots with:
  - A lateral navigation capability.
- Not decommissioned: the current DME portion of the VOR/DME will remain in service.
  - This equipment will continue to provide range information to pilots when procedurally required and GPS equipment is not used or the GPS signal is not available.

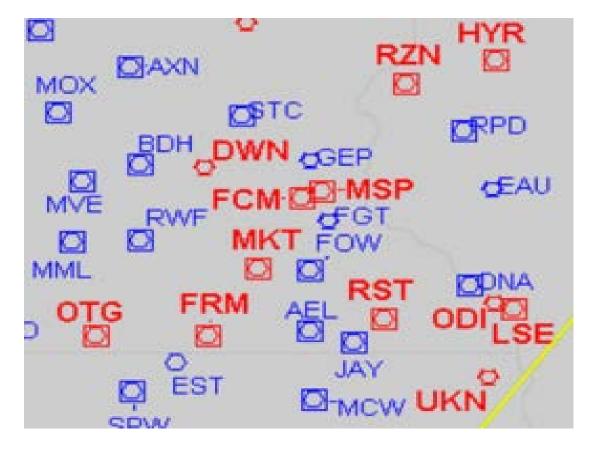
# Why Decommission the MSP VOR?

- This VOR, and many others, will be decommissioned as part of the FAA's NextGen program where GPS based Area Navigation (RNAV) and Performance Based Navigation (PBN) will replace the legacy ground based system.
  - Reliance on the Minimum Operational Network (MON) as the nationwide backup in case of GPS interruption. The MON renders much of the current network of VORs obsolete.
  - Decommissioning superfluous VORs will reduce cost, increase reliability and maintainability of the
    existing VOR based airway navigation system. Current ground lease costs, repair parts, routine and
    restorative maintenance costs as well as costs associated with manpower necessary to maintain the
    system are unsustainable.
  - Decreases redundancy. Given the proliferation of GPS equipment in aircraft and the wide use of this technology during flight procedures, much of the existing ground-based navigation network is redundant and unused during normal operations.
- The MSP VOR is not part of the MON.

## What is the MON?

- The MON will be a streamlined network of VORs made up of what will be left of the current national inventory of ground-based navigation equipment (VORs) once NextGen is fully implemented.
- The MON will allow aircraft to fly at an altitude of at least 5,000 feet, coast to coast, to an airports of safe landing using ground-based navigation such as an Instrument Landing System or VOR, in case of widespread GPS system disruption.
- The MON provides navigation services so that an aircraft will never be more than 100 miles away from a point of safe landing.
- The MON network will not be a primary method of day-to-day navigation. Its sole purpose is to provide an orderly, reliable and safe way to get flying aircraft out of the National Airspace System (NAS) and into a suitable airport in the event of a widespread GPS system disruption.

# Impact of the MON on Minneapolis Metro Area VORs.



**RED** – Decommission

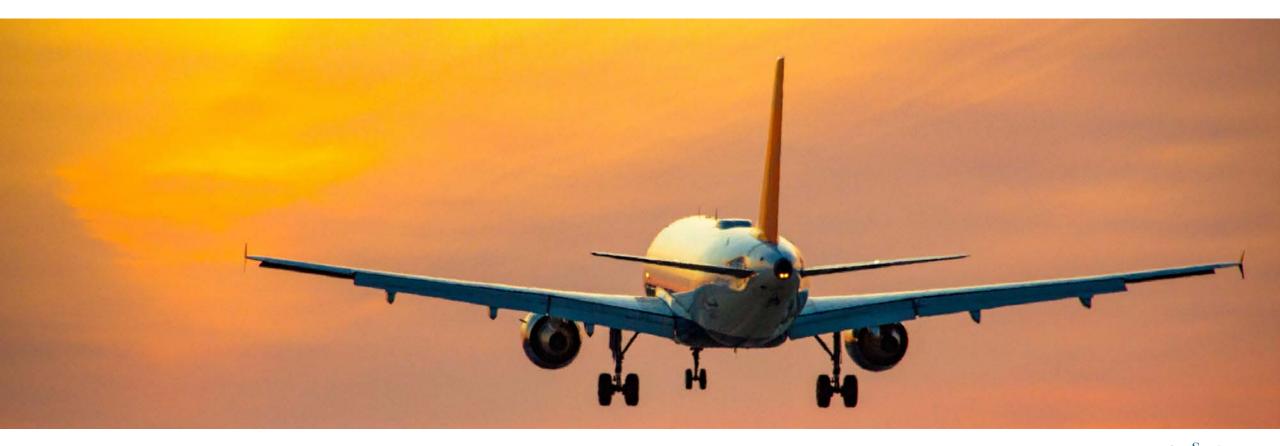
**BLUE** – Remain

This box identifies VORs that are within 150 miles of MSP.

# What's the Effect of the Partial Decommissioning of MSP and the Other VORs Identified?

- New GPS based instrument procedures will be established that will use existing VOR based navigation ground tracks. Preliminary analysis indicates that new procedures will mimic existing procedures around MSP and will not be noticeable from the ground.
- Some instrument flight procedures will be cancelled due to the decommissioning of the VORs.
- Not all VORs programmed for decommissioning will be turned off at the same time, although actions will be taken to avoid revisiting existing instrument flight procedures multiple times.

# ITEM 5 AIRLINE POLICIES AND PROCEDURES







# **Airline Policies and Procedures**

Departure Altitudes and Flight Paths

Noise Abatement Procedure Training



A Day in the Life of an Airline Pilot



# ITEM 6 MSP FLEET MIX AND NIGHTTIME OPERATIONS ASSESSMENT

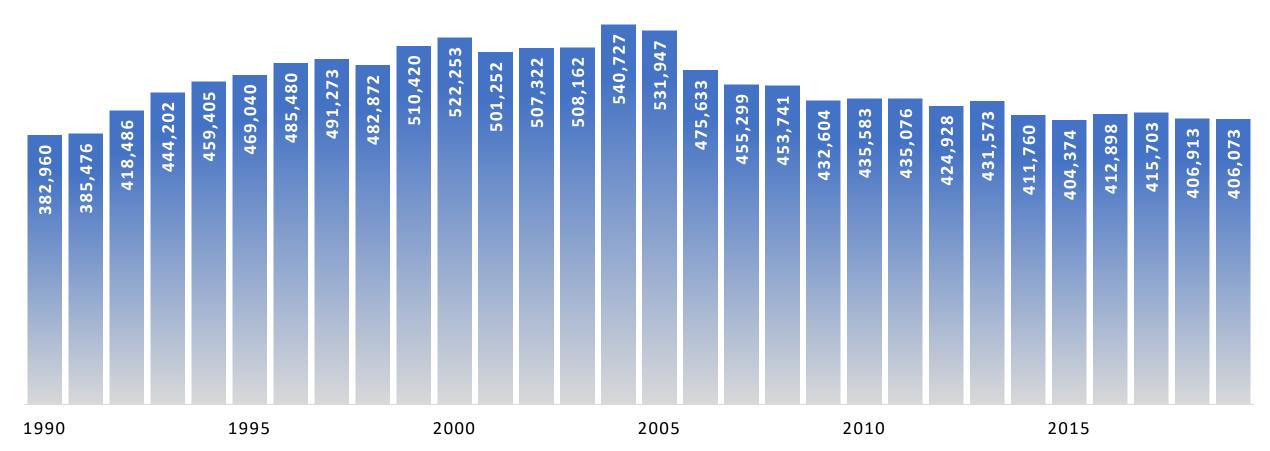




NOISE OVERSIGHT COMMITTEE JANUARY 29, 2020



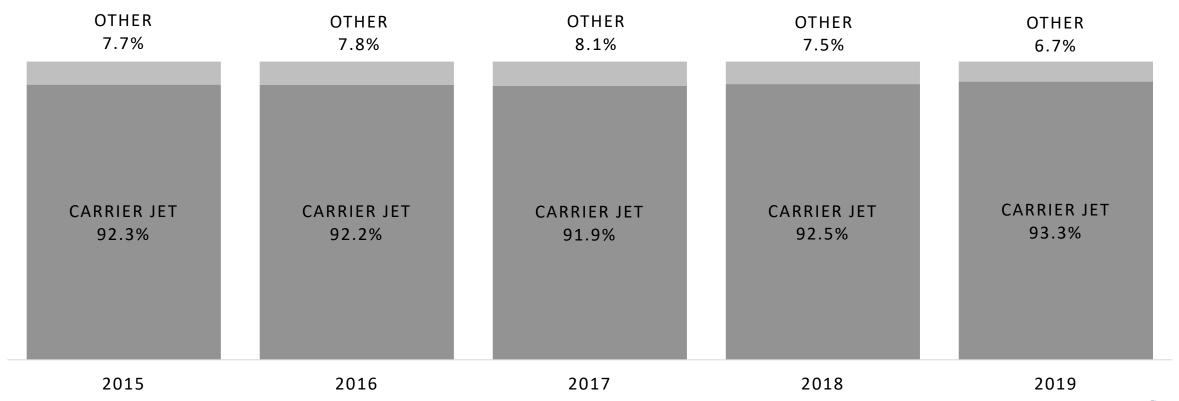
SOURCE: FAA OPSNET





NOISE OVERSIGHT COMMITTEE JANUARY 29, 2020



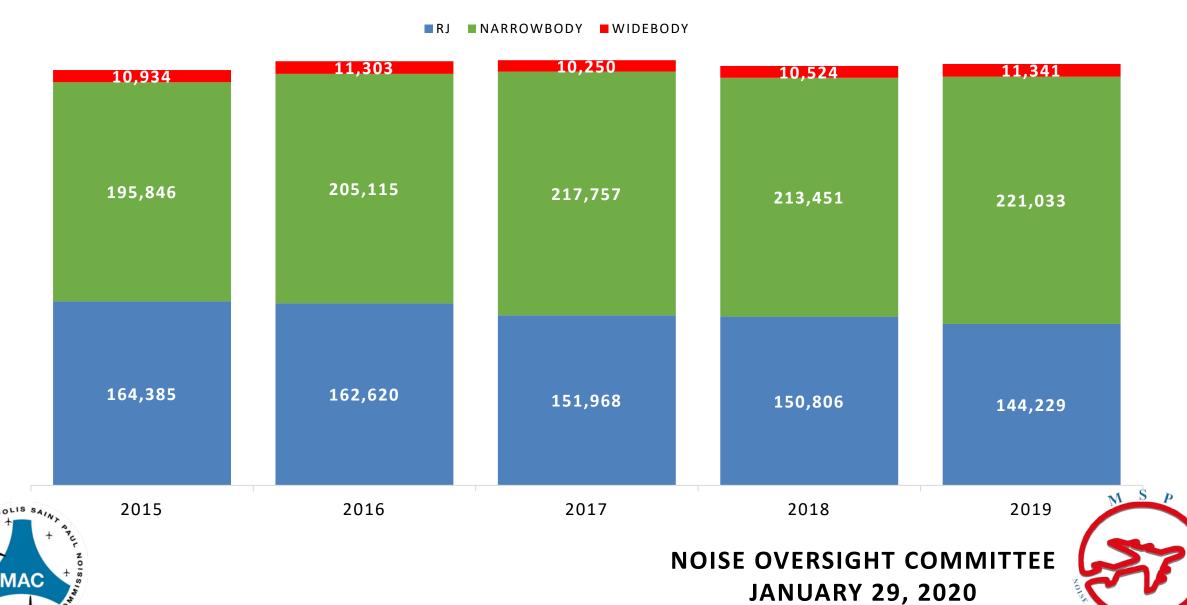


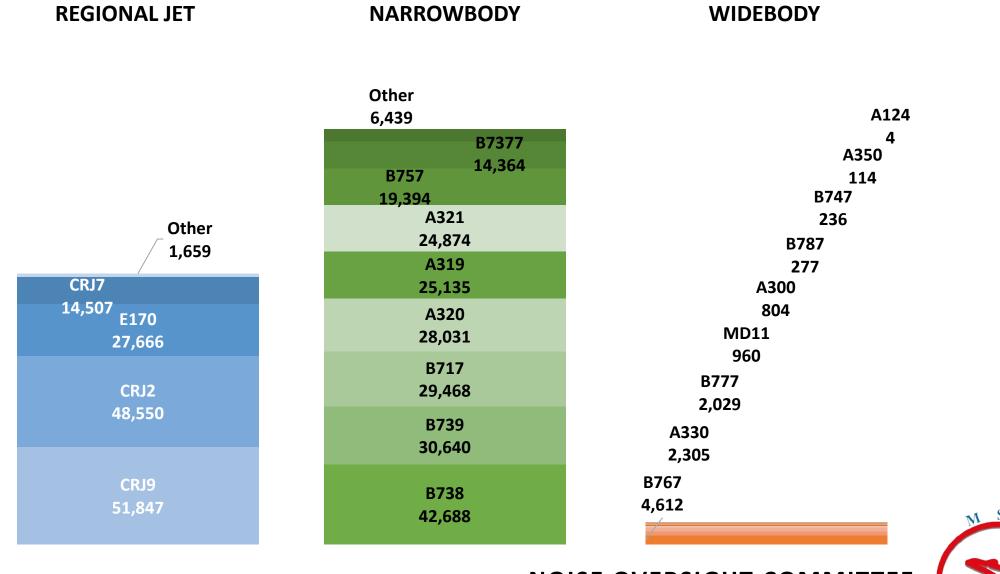


# NOISE OVERSIGHT COMMITTEE JANUARY 29, 2020

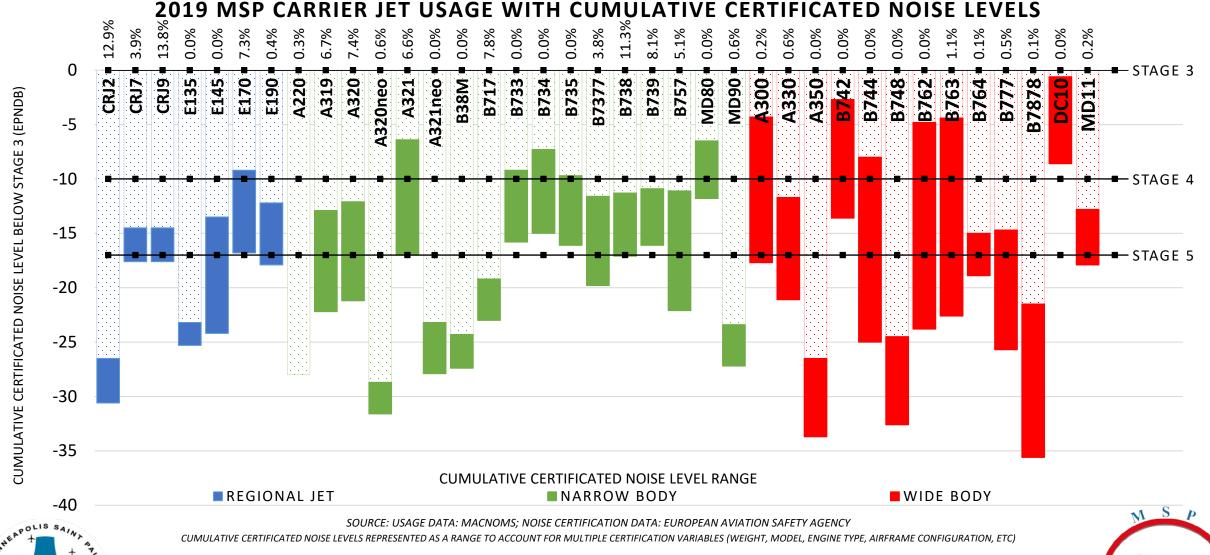
### Item 6: MSP Fleet Mix and Nighttime Operations Report

#### MSP OPERATIONS



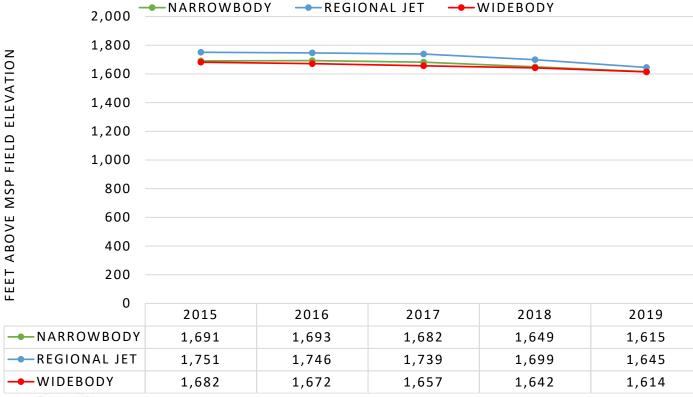


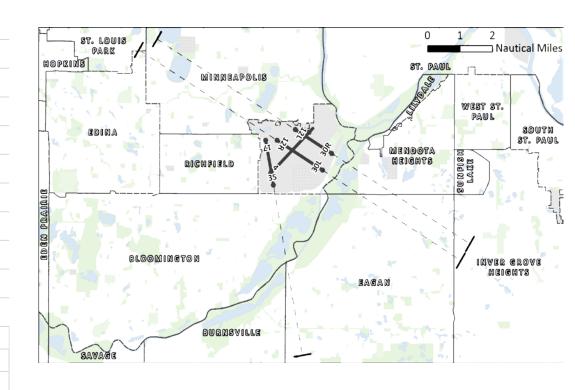






#### AVERAGE ALTITUDE FOR AIRCRAFT ARRIVING TO MSP



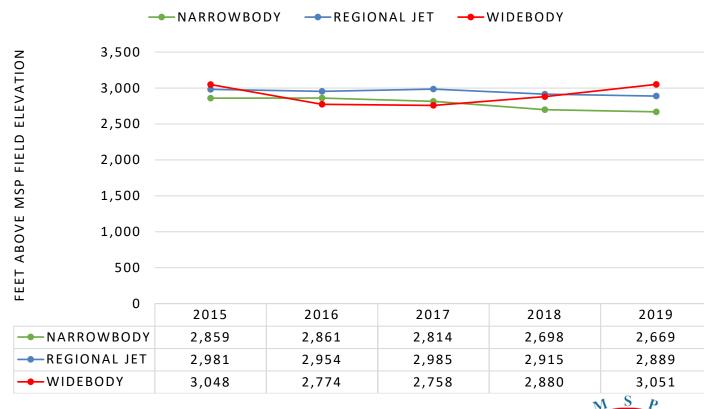






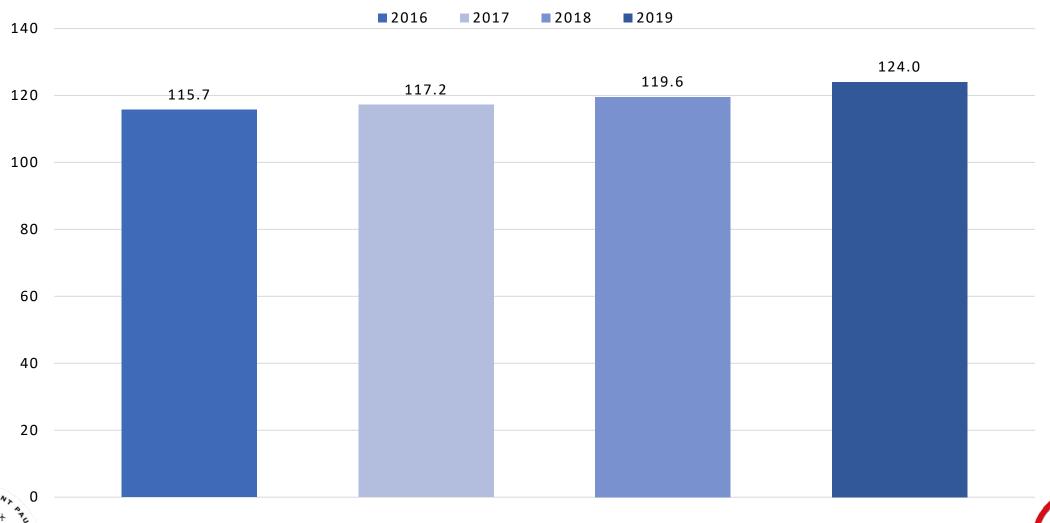
# ST. LOUIS PARK ROPKINS ADINA RIGHPIELD ST. PAUL ROPKINS ROPKINS

#### AVERAGE ALTITUDE FOR AIRCRAFT DEPARTING FROM MSP



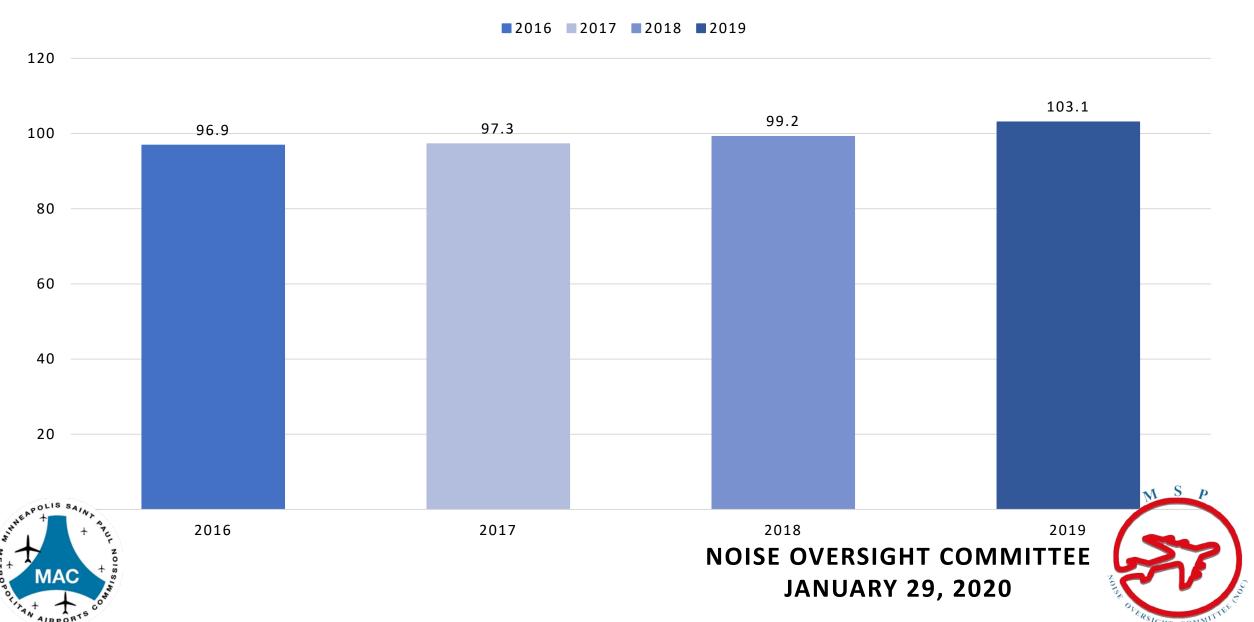


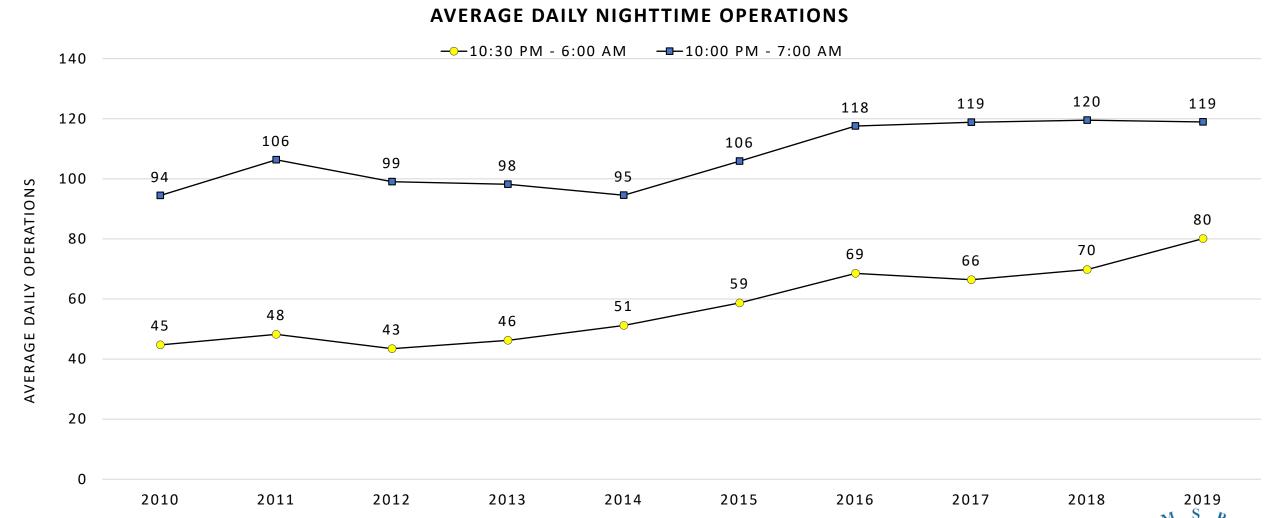
#### AVERAGE SCHEDULED SEATS PER FLIGHT



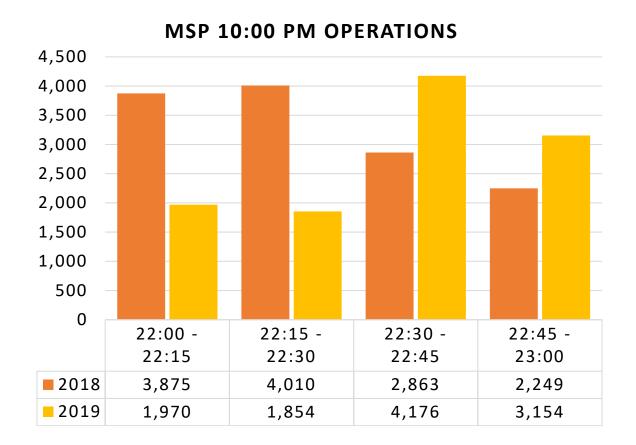
SOURCE: OAG









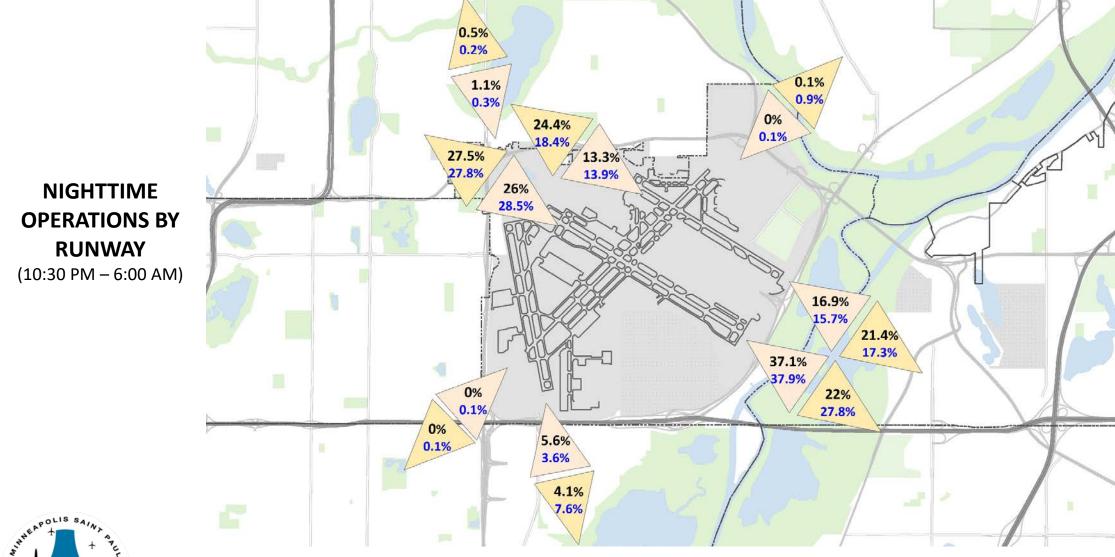


Time	2018	2019	Difference
23:00	7,440	7,610	170
0:00	2,692	3,224	532
1:00	913	1,050	137
2:00	407	575	168
3:00	610	659	49
4:00	1,617	1,968	351
5:00	6,686	6,825	139
6:00*	10,263	10,347	84
<b>Annual Total</b>	30,628	32,258	1,630











#### **2019 NIGHTTIME OPERATIONS BY AIRLINE**

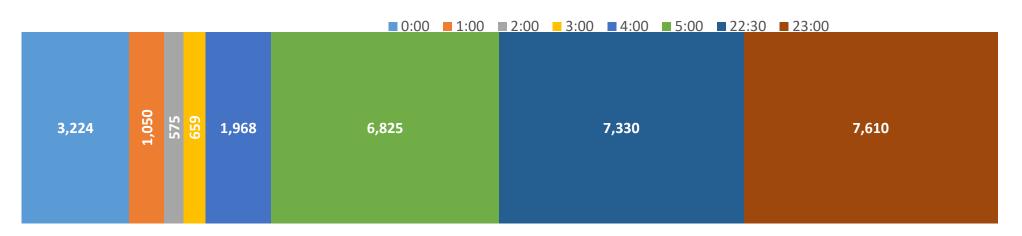
AIRLINE	ID	COUNT	PERCENT OF AIRLINE OPERATIONS' OCCURRING AT NIGHT	PERCENT OF CONTRIBUTION TO NIGHTTIME TOTAL
DELTA	DAL	8,370	5.60%	30.16%
SKYWEST AIRLINES	SKW	4,541	4.70%	16.37%
SUN COUNTRY	SCX	3,781	17.80%	13.63%
SOUTHWEST	SWA	1,958	12.50%	7.06%
AMERICAN	AAL	1,640	11.80%	5.91%
UPS	UPS	1,254	37.20%	4.52%
SPIRIT	NKS	1,093	14.20%	3.94%
REPUBLIC AIRLINES	RPA	899	8.50%	3.24%
UNITED	UAL	859	12.20%	3.10%
FEDEX	FDX	855	27.30%	3.08%
ATLAS AIR (USA)	GTI	590	77.00%	2.13%
JETBLUE AIRWAYS	JBU	533	26.50%	1.92%
FRONTIER AIRLINES	FFT	511	16.10%	1.84%
ENDEAVOR AIR	EDV	487	1.80%	1.76%
GULF & CARIBBEAN CARGO	TSU	377	98.20%	1.36%



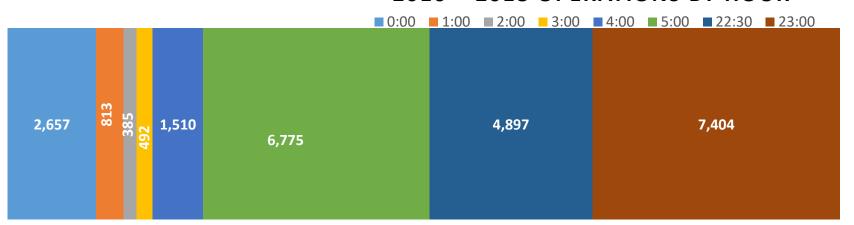




#### **2019 NIGHTTIME OPERATIONS BY HOUR**



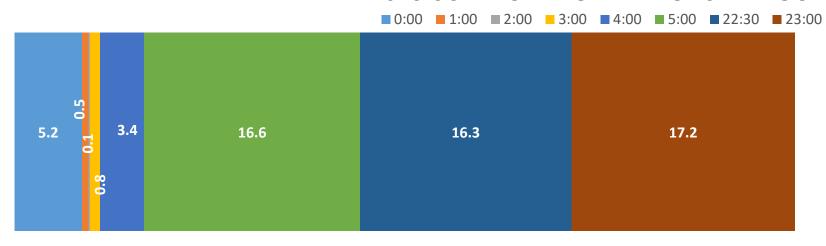
#### 2016 - 2018 OPERATIONS BY HOUR



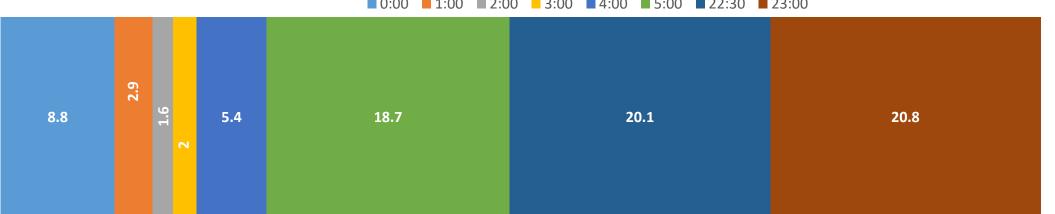




#### **2019 SCHEDULED OPERATIONS BY HOUR**



## **2019 ACTUAL OPERATIONS BY HOUR**







# ITEM 7 **REVIEW OF WINTER LISTENING SESSION**







# **Winter Listening Session**

- January 22, 2020, 7pm
- MAC General Offices
- Meeting Attendees
  - One resident from Eagan
  - NOC co-chair Jeff Hart
  - NOC members Loren Olson, Daniel O'Leary and Paul Borgstrom
  - MAC staff



## Winter Listening Session – Topics Discussed

- Balance between the airport as a community asset and the effect of noise on communities
- Efforts by MAC, NOC, FAA and neighbors to address noise concerns
- Variability and unpredictability of aircraft activity over Eagan
- Air traffic control standard operating procedures
- Education and engagement strategies for communities

# ITEM 8 ANNOUNCEMENTS

**March NOC Meeting** 

Wednesday, March 18, 2020 @ 1:30 PM

**MAC General Offices** 

Lindbergh Conference Room

