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# **NOISE OVERSIGHT COMMITTEE** July 20, 2022

Audio recordings are made of this meeting

# Agenda

#### 1. Consent

- 1.1 Approval of May 18, 2022 Meeting Minutes
- 1.2 Reports
  - 1.2.1 Monthly Operations Reports: May and June 2022
  - 1.2.2 Status of Aviation Noise, Environment, and Health-Related Research Initiatives
- 2. Public Comment Period
- **3.** Business
  - 3.1 Hybrid Meeting Approval
  - 3.2 November 16, 2022 NOC Meeting Time

#### 4. Information

- 4.1 Guest Speaker: 133<sup>rd</sup> Airlift Wing, MinnesotaNational Guard, Lt. Col. Denny Paulsen
- 4.2 Meet the Fleet
- 5. Announcements
- 6. Adjourn





#### NOISE OVERSIGHT COMMITTEE JULY 20, 2022

Use QR code to access presentation.

|   |        |        |        |        | M      | ay     | 12     | 20     | 22     | 2      |        |        |        |        |              |        |        |        |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | J      | u      | ne     | 2      | 202    | 22     | 2      |        |        |        |        |                 |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------|--------|--------|--------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----------------|
| 5,960   | 5      |        |        |        |        |        |        |        |        |        |        | N I'   |        |        | ,7           |        |        |        |          |        |        |        |        |        |        |        |        |        |        | 2      | 6,     | 54     | 8      |        |        |        |        |        |        |        |        |        |        |        | N I'   |        |        | 82              |
| eratior   | IS     |        |        |        |        |        |        |        |        |        |        |        |        |        | ne (<br>PM · |        |        |        | ns<br>M) |        |        |        |        |        |        |        |        |        |        | Op     | bera   | atic   | ons    |        |        |        |        |        |        |        |        |        |        |        |        |        |        | e Ope<br>/I – 6 |
| 45,000<br>40,000<br>35,000<br>30,000<br>25,000<br>15,000<br>10,000<br>5,000 | 36,785 | 38,124 | 33,162 | 34,578 | 31,299 | 31,781 | 30,743 | 27,944 | 35,312 | 32,968 | 33,998 | 35,404 | 37,132 | 37,757 | 33,366       | 34.775 | 31.426 | 32.840 | 31,332   | 29,831 | 29,027 | 10,384 | 8,796  | 10,355 | 17,870 | 21,455 | 19,835 | 21,315 | 20,884 | 21,853 | 20,607 | 18,712 | 23,461 | 22,952 | 23,953 | 27,002 | 28,922 | 28,407 | 26,770 | 27,168 | 25,782 | 25,627 | 24,260 | 22,635 | 26,942 | 25,676 | 25,966 | 26,548          |
| 0   | Jul-18 | Aug-18 | Sep-18 | Oct-18 | Nov-18 | Dec-18 | Jan-19 | Feb-19 | Mar-19 | Apr-19 | May-19 | Jun-19 | Jul-19 | Aug-19 | Sep-19       | Oct-19 | Nov-19 | Dec-19 | Jan-20   | Feb-20 | Mar-20 | Apr-20 | May-20 | Jun-20 | Jul-20 | Aug-20 | Sep-20 | Oct-20 | Nov-20 | Dec-20 | Jan-21 | Feb-21 | Mar-21 | Apr-21 | May-21 | Jun-21 | Jul-21 | Aug-21 | Sep-21 | Oct-21 | Nov-21 | Dec-21 | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | Jun-22          |

|         | May  | 2022   | June   | 2022   |
|---------|--|--|--|--|
| 5,96    | 6  | 1,753  | 26,548   | <b>1,82</b> ′  |
| eratior | าร   | Nighttime Operations<br>(10:30 PM – 6:00 AM)   | Operations   | Nighttime Ope<br>(10:30 PM – 6   |
| 3,500   |  | A  | D  |  |
| 3,000   |  |  |  |  |
| 2,500   |  |  |  |  |
| 2,000   |  |  |  |  |
| 1,500   |  |  |  |  |
| 1,000   |  |  |  |  |
| 500     |  |  |  |  |
| 0       | Jul-18<br>Aug-18<br>Sep-18<br>Oct-18<br>Nov-18<br>Dec-18<br>Jan-19 | Feb-19<br>Mar-19<br>Apr-19<br>Jun-19<br>Jul-19<br>Jul-19<br>Aug-19<br>Sep-19<br>Sep-19<br>Oct-19<br>Dec-19<br>Jan-20<br>Feb-20<br>Mar-20<br>May-20 | Jun-20<br>Jul-20<br>Aug-20<br>Sep-20<br>Oct-20<br>Nov-20<br>Jan-21<br>Feb-21<br>Rar-21<br>Mar-21<br>Jun-21<br>Jun-21<br>Jun-21<br>Jun-21<br>Jun-21<br>Sep-21 | Oct-21<br>Nov-21<br>Dec-21<br>Jan-22<br>Feb-22<br>Mar-22<br>May-22<br>Jun-22 |

### RUNWAY USE

|             | MAY 2022    |             |             | JUNE 2022   |             |
|-------------|-------------|-------------|-------------|-------------|-------------|
| NORTH FLOWS | SOUTH FLOWS | MIXED FLOWS | NORTH FLOWS | SOUTH FLOWS | MIXED FLOWS |
| 35%         | 53%         | 5%          | 36%         | 42%         | 14%         |

|             | 2021 JAN – JUNE |             |             | 2022 JAN – JUNE |             |
|-------------|-----------------|-------------|-------------|-----------------|-------------|
| NORTH FLOWS | SOUTH FLOWS     | MIXED FLOWS | NORTH FLOWS | SOUTH FLOWS     | MIXED FLOWS |
| 43%         | 43%             | 5%          | 45%         | 40%             | 8%          |





#### **CARRIER JET FLEET MIX**



#### MSP SCHEDULED SEATS PER DEPARTURE





### MSP COMPLAINTS

|                                     | May  | 2022   |  |  | June   | 2022   |
|-------------------------------------|--|--|--|--|--|--|
| PLAI                                | NTS  | LOCA   | TIONS  | COMPI  | _AINTS   | LOCATI   |
| ,899                                |  | 20   | 64   | 9,3  | 32   | 305  |
| : 1                                 | New Locations  | Average  | Median   | Ops per Complaint  | New Locations  | Average  |
| 25,000                              | 10   | 52   | F  | 20   | Л1   | 12   |
| 20,000<br>15,000<br>10,000<br>5,000 | 14,453   16,643   16,643   15,513   9,508   9,220        | 12,307   6,972   13,111   13,111   13,111   13,111   13,111   13,111   13,111   13,111   13,111   13,111   13,111   13,111   13,111   13,111   13,111   13,111   13,111   14,131   15,473   11,745   11,745   11,745   11,745   11,745   11,745   11,745   11,745   11,745   11,745   11,745   11,745   11,745   11,745   11,145   11,145   11,145   11,145   11,145   11,145   11,145   11,145   11,145   11,145   11,145   11,145   11,145   11,145   11,145   11,145   11,145   11,145   11,145 | 15,480   10,967   10,852   10,852   10,852   10,852   10,852   10,852   10,852   12,341   9,473   13,105   3,417 | 4,208     7,484     11,105     10,756     8,498     8,410     8,410          | 6,035 14,404   11,667 14,202   10,261 14,202   10,261 12,691   11,006 11,006 | 11,177   9,652   8,700   7,431   7,431   10,922   9,926   8,899   9,332      |
|                                     | Jul-18<br>Aug-18<br>Sep-18<br>Oct-18<br>Nov-18<br>Dec-18 | Jan-19<br>Feb-19<br>Mar-19<br>Apr-19<br>Jun-19<br>Jul-19<br>Aug-19<br>Sep-19   | Oct-19<br>Nov-19<br>Dec-19<br>Jan-20<br>Feb-20<br>Mar-20<br>Apr-20   | Jun-20<br>Jul-20<br>Aug-20<br>Sep-20<br>Oct-20<br>Nov-20<br>Dec-20<br>Jan-21 | Feb-21<br>Mar-21<br>Apr-21<br>Jun-21<br>Jun-21<br>Jul-21<br>Aug-21<br>Sep-21 | Uct-21<br>Nov-21<br>Dec-21<br>Jan-22<br>Feb-22<br>Apr-22<br>May-22<br>Jun-22 |

### MSP COMPLAINTS

| May  | 2022   |  |  | June   | 2022   |
|--|--|--|--|--|--|
| PLAINTS  | LOCA   | TIONS  | COMP   | LAINTS   | LOCATI   |
| ,899   | 20   | 64   | 9,3  | 332  | 305  |
| New Locations  | Average  | Median   | Ops per Complaint  | New Locations  | Average  |
| <b>1 Q</b>   | 52   | E  | 20   | Л1   | 12   |
| 600<br>500<br>400<br>300<br>200<br>100<br>0              |  |  |  | May-21<br>294<br>Jun-21<br>291   | May-22<br>264<br>Jun-22<br>305   |
| Jul-18<br>Aug-18<br>Sep-18<br>Oct-18<br>Nov-18<br>Dec-18 | Feb-19<br>Mar-19<br>Apr-19<br>Jun-19<br>Jul-19<br>Jul-19<br>Aug-19<br>Sep-19 | Oct-19<br>Nov-19<br>Dec-19<br>Jan-20<br>Feb-20<br>Mar-20<br>Apr-20<br>May-20 | Jun-20<br>Jul-20<br>Aug-20<br>Sep-20<br>Oct-20<br>Nov-20<br>Dec-20<br>Jan-21 | Feb-21<br>Mar-21<br>Apr-21<br>Jun-21<br>Jul-21<br>Jul-21<br>Aug-21<br>Sep-21 | Oct-21<br>Nov-21<br>Dec-21<br>Jan-22<br>Feb-22<br>Apr-22<br>May-22<br>Jun-22 |





### **TOP 10 LOCATIONS**

FILED **9,371** (51%) COMPLAINTS DURING MAY & JUNE

#### **7 OF 10** LOCATIONS WERE IN THE TOP 10 FOR MAR – APR DATA

**268** (68%) LOCATIONS FILED 10 OR FEWER COMPLAINTS

### SOUND MONITORING

|     | May 2022                       |                  |             | June 2022                      |    |
|-----|--------------------------------|------------------|-------------|--------------------------------|----|
|     | 55                             | 393 h 24 m       | Time Above  | 50                             | 36 |
| ve  | TA <sup>65</sup> Per Operation | TA <sup>65</sup> | Time Above  | TA <sup>65</sup> Per Operation |    |
|     | 2.98                           | 77,216           | Count Above | 2.81                           | -  |
| ove | N <sup>65</sup> Per Operation  | N <sup>65</sup>  |             | N <sup>65</sup> Per Operation  |    |

| Oct-18 501 h 47 m   Nov-18 402 h 58 m   Dec-18 394 h 40 m   Jan-19 372 h 54 m   Feb-19 257 h 27 m   Mar-19 408 h 08 m | 402 h 5<br>394 h 40<br>372 h 54 m<br>257 h 27 m<br>408 h 0 | 372 h 54 m<br>257 h 27 m<br>408 h 0 | 257 h 27 m<br>408 h C | 408 h C |  |  | May-19 495 h 41 m | Jun-19 482 h 42 m | Jul-19 476 h 02 m | Aug-19 506 h 28 m | Sep-19 460 h 48 m | Oct-19 526 h 24 m | Nov-19 416 h 08 m | Dec-19 367 h 42 m | Jan-20 334 h 24 m | Feb-20 287 h 53 m | Mar-20 370 h 16 m | Apr-20 108 h 23 m | May-20 103 h 02 m | 127 h 33 | 216 h |  |  | Oct-20 268 h 25 m | Nov-20 268 h 02 m | Dec-20 254 h 53 m | Jan-21 211 h 58 m | Feb-21 183 h 08 m |  |  | m | m | m | m | Sep-21 363 h 51 m | Oct-21 409 h 41 m | Nov-21 373 h 26 m | Dec-21 334 h 54 m | Jan-22 241 h 01 m | Feb-22 232 h 05 m | Mar-22 372 h 19 m | Apr-22 415 h 12 m | May-22 393 h 24 m | Jun-22 366 h 31 m |  |
|---|--|-------------------------------------|-----------------------|---------|--|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------|-------|--|--|-------------------|-------------------|-------------------|-------------------|-------------------|--|--|---|---|---|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--|
|---|--|-------------------------------------|-----------------------|---------|--|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------|-------|--|--|-------------------|-------------------|-------------------|-------------------|-------------------|--|--|---|---|---|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--|

### SOUND MONITORING

|           | May 2022                              |                                |             | June 2022                             |    |
|-----------|---------------------------------------|--------------------------------|-------------|---------------------------------------|----|
| ve        | 55<br>TA <sup>65</sup> Per Operation  | 393 h 24 m<br>TA <sup>65</sup> | Time Above  | 50<br>TA <sup>65</sup> Per Operation  | 36 |
| ove       | 2.98<br>N <sup>65</sup> Per Operation | 77,216<br>N <sup>65</sup>      | Count Above | 2.81<br>N <sup>65</sup> Per Operation | -  |
| 120,000 — |                                       |                                |             |                                       |    |

| 100,000 | 92,738 | 98,182 | 6      | 96,020 |        |        |        |        |        | 92,699 | 96,264 | 97,691 | 99,612 | 102,077 | 95     | 98,759 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |                  |        |             |        |        |        |        |        |        |        |        |        |        |        |        |
|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------------------|--------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 80,000  | 92,7   | 0,     | 89,809 |        | 80,533 | 80,645 | 5,314  |        | 83,418 | 92,(   | 6      | 01     |        |         | 91,395 |        | 81,324 | 77,731 | 98     |        | 74,089 |        |        |        |        |        |        |        |        |        |        |        |                  |        | _           | 73,543 | 73,978 | 72,453 | 79,294 | 125    |        |        |        | 73,452 | 76,645 | 77,216 | 74,634 |
| 60,000  |        |        | -      | -      |        | -      |        | 57,926 |        |        | -      |        |        |         |        |        |        |        | 71,798 | 62,899 | 74,    |        |        |        |        | 56,366 | 52,400 | 53,543 | 53,083 | 52,650 |        |        | 63,102<br>67 746 | 65.306 | ,<br>66,699 | 73,    | 73,    | 72,4   |        | 72,025 | 67,564 | 52,968 | _      | 73,    | 7      | 2      | 74     |
| 40,000  |        |        |        |        |        |        |        | .,     | -      |        |        |        |        |         |        |        |        |        |        |        |        |        |        |        | 46,467 | ũ      | 52,4   | 53,    | 53,    | 52,(   | 45,891 | 39,308 |                  |        |             |        |        |        |        |        |        | 52,    | 49,592 |        |        |        |        |
| 20,000  |        |        | -      | -      |        | -      |        | -      |        |        |        |        |        |         |        |        |        | -      |        |        |        | 22,676 | 20,981 | 26,066 |        | -      |        |        |        |        |        |        |                  |        | -           |        |        |        |        |        | _      |        |        |        | -      |        | -      |
| 0       | Jul-18 | Aug-18 | Sep-18 | Oct-18 | Nov-18 | Dec-18 | Jan-19 | Feb-19 | Mar-19 | Apr-19 | May-19 | Jun-19 | Jul-19 | Aug-19  | Sep-19 | Oct-19 | Nov-19 | Dec-19 | Jan-20 | Feb-20 | Mar-20 | Apr-20 | May-20 | Jun-20 | Jul-20 | Aug-20 | Sep-20 | Oct-20 | Nov-20 | Dec-20 | Jan-21 | Feb-21 | Mar-21<br>Anr-21 | Mav-21 | Jun-21      | Jul-21 | Aug-21 | Sep-21 | Oct-21 | Nov-21 | Dec-21 | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | Jun-22 |

### NOISE ABATEMENT

May 2022

#### June 2022

| Runway 17   | 99.5% |
|-------------|-------|
| Corridor    | 88.8% |
|             |       |
| Cross Day   | 30.3% |
| Cross Night | 31.7% |

| Runway 17   | 99.5% |
|-------------|-------|
| Corridor    | 95.2% |
| Corridor    | 95.2% |
| Cross Day   | 32.4% |
| Cross Night | 38.8% |

| RUS     51.6%     Arrive - 44%     Depart - 59%     RUS     54.4%     Arrive - 57%     Depart - |
|---|
|---|

# ITEM 2 PUBLIC COMMENT PERIOD





# ITEM 2 PUBLIC COMMENT PERIOD

### Speaking at a Meeting

- Each speaker will have one opportunity to speak and is allotted three (3) minutes.
- When called upon to speak, speak clearly, 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.



# **3.1 HYBRID MEETING APPROVAL**







### APPROVE FUTURE NOC MEETINGS BE CONDUCTED WITH HYBRID MEETING OPTION FOR COMMITTEE MEMBERS AND PUBLIC TO PARTICIPATE



# 3.2 NOVEMBER 16, 2022 NOC MEETING TIME







#### APPROVE THE NOVEMBER 16, 2022 NOC MEETING START TIME OF 1:30 PM



## **5.3 GUEST SPEAKER: LT. COL. DENNY PAULSEN**







#### 133AW MINNESOTA AIR NATIONAL GUARD



# Title

A Century in the Sky

Lt Col. Denny Paulsen

CITIZEN AIRMEN Strengthening FREEDOM

# Overview

- Introduction Lt Col Denny Paulsen, 109AS DO
- Overview of Wing
- History of Wing
- Our Mission
- C-130H3 Hercules Aircraft
- The Future of the C-130 Fleet
- Community Notifications
- Questions



# 133rd Airlift Wing Overview

- Personnel
  - 1,200+
- Aircraft
  - Eight C-130H3 Hercules
- 934<sup>th</sup> (Air Force Reserves)
  - Also fly Eight C-130H3 Aircraft, same Fed MSN
  - Gopher vs Viking call-sign and tail flash
- Units
  - Five Groups
    - Maintenance Group
    - Mission Support Group
    - Medical Group
    - Operations Group
    - Headquarters Unit
  - Two Geographical Separated Units
    - 208th Weather Flight
    - 210th Engineering Installation Squadron





# History

- Active Aug 27 1917-Present
- Sept. 26, 1920
  - Capt. Ray S. Miller, Lt. Col. William Garis and Gen. Walter Rhinow, traveled for seven days to Washington D.C. to advocate for flying units within the National Guard
- Jan. 17, 1921
  - 109th Observation Squadron became the nation's first federally recognized Air National Guard unit
- Founder
  - Brig. Gen. Ray S. Miller
- Have flown 15 different aircraft models and have been involved in every major conflict since WWII





# Some of our History

• 1947

- Moved to Minneapolis-St. Paul International Airport (MSP) from Holman Field
- Aircraft flown from MSP
  - 1947 1954: P-51D Mustang
  - 1957 1959: Northrop F-89
  - 1957 1958: Lockheed F-94
  - 1960 1971: C-97 Stratofreighter
  - 1971 1981: C-130A Hercules
  - 1981 1995: C-130E Hercules
  - 1995 Present: C-130H3 Hercules











# Our Mission

- Very busy and active ANG Unit.
- We have an important mission set.
  - <u>Federal</u>: Deployments throughout the world to include Northeast Africa, Middle East and Southeast Asia.
  - <u>State</u>: Natural Disasters, Hurricane and Flood relief, Civil Unrest, COVID-19 support.
  - Ready as a moments notice to Mobilize!







# C-130H3 Hercules

## • About the C-130H3

- Cruising Speed: 300+ knots
- Power Plant: Four Turboprop Engines producing 4508 HP each
- Weight (Max): 155,000 lbs; 53,164 lbs payload
- Ceiling: 33,000 feet
- Range: 4,200 miles
- Longest running and most successful military aircraft in history with multiple variants.





# C-130H3 Hercules Operations

# • Training Flights

- Weekly: Day and Night
- Fly at night to capture valuable Night Vision Goggle (NVG) training.
- We train hard to safely perform our mission and represent both MN and the United States of America!
- Typical destinations include Camp Ripley (Brainerd), Duluth, Rochester, Fargo, Volk Field and destinations throughout the world.

# • Maintenance

- Most heavy Maintenance and Engine Run-ups are done during the day and on drill weekends.
- Preflight Checks before each takeoff.
- Most noise at night associated with general aircraft movement (no heavy maintenance).



# The Future of our C-130 Fleet

- 8-Bladed Prop modifications have started. New props provide noise reduction.
- Potential for more enhancements in the future.







# Community Notification

• Occasional advanced notices for increased flying activity.

#### 👌 133rd Airlift Wing 🥝

Published by Mnang Airlift Wing 😰 - June 11 - 😋

The 133rd Airlift Wing will increase their flying between June 11-16, 2022. Airmen are required to train during hours of darkness as part of a training exercise. Residents around the Minneapolis-St. Paul International Airport, Southern Minnesota, and Western Wisconsin may see our C-130 Hercules taking off, flying, and landing outside regular flying hours. All C-130s will be on the ground by midnight each day.



Increase Flying June 11 - 16, 2022









# Questions

- Questions
- Thank You!





### 4.2 – MEET THE FLEET





# ITEM 5 ANNOUNCEMENTS

Summer Listening Session Wednesday, July 27, 2022 @ 6 PM Location: Eagan City Hall September NOC Meeting Wednesday, Sept 21, 2022 @ 1:30 PM Location: MAC General Office Building

