



CENTENNIAL AIRPORT COMMUNITY NOISE ROUNDTABLE

December 1, 2021

6:30 p.m. – 8:30 p.m.

Members' Representatives and Alternate Representatives:

For In-Person Attendance (preferred): Centennial Airport, 7565 S. Peoria Street, Unit D9, Englewood, CO 80112

Anyone wishing to join this meeting from a telephone, tablet, or desktop:

Registration URL

<https://attendee.gotowebinar.com/register/4892925019128474379>

Webinar ID: 434-200-315

After registering, you will receive a confirmation email containing information about joining the webinar.

Here is a [link](#) to a helpful, quick guide for anyone who is new to the technology.

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CACNR DECEMBER 1, 2021 AGENDA

Chair: Brad Pierce **Vice Chair:** Melissa Coudeyras **Treasurer:** Andy Jones **Secretary:** Alison Biggs

CACNR Mission: Utilizing Partnerships to Reduce Airport Noise for the Benefit of Neighboring Communities

1. CALL TO ORDER AND DETERMINATION OF QUORUM:

Arapahoe County: Carrie Warren-Gully/Bill Skinner
Paul Krier/Vacant

Douglas County: Abe Laydon/Dan Avery
Alison Biggs/Mark Adams

Aurora: Brad Pierce/Karen Hancock

Castle Pines: Melissa Coudeyras/Kevin Rants

Castle Rock: Laura Cavey/Sandy Vossler

Centennial: Candace Moon/Don Sheehan

Cherry Hills Village: Al Blum/Afshin Safavi

Foxfield: Pam Thompson/Frank Lawrence

Greenwood Village: Donna Johnston/Libby Barnacle

Highlands Ranch Metro Dist. Andy Jones/Renee Anderson

Lone Tree: Mike Anderson/Chuck Darnell

Parker: Amy Holland/Todd Hendreks

ACPAA: Michael Fronapfel/Vacant

AOPA: Robert Doubek/John Hirshman

CABA: Don Kuskie/Mike Straka

CDOT Aeronautics Div: Todd Green/Vacant

FAA APA Control Tower: Jeff Holmes/Ron Curry

FAA District Office: John Bauer/John Sweeney

FAA TRACON: Steve Martin/Bill Dunn

Wings Over the Rockies: Bill Wasmund/Keith Palmer

2. PUBLIC COMMENT: (non-Agenda items – 3 minutes per person time limit; correspondence from the public)

A. MEETING ATTENDEES

B. FROM CACNR EMAIL ADDRESS

3. CONSENT AGENDA: (items here may be moved to Agenda Item #4, on the request of any CACNR Representative)

A. DRAFT MINUTES, November 3, 2021 – Alison Biggs, Secretary

B. TREASURER'S REPORT, November 2021 – Andy Jones, Treasurer

C. CACNR REPORT to November 12, 2021 ACPAA Meeting – Alison Biggs

4. ITEMS REMOVED FROM CONSENT AGENDA

5. COMMITTEE REPORTS:

A. EXECUTIVE/WORK PLAN COMMITTEE – Brad Pierce, Chair

1. Flight Schools

B. COMMUNITY OUTREACH – Melissa Coudeyras, Chair

C. FLY QUIET – Bill Wasmund, Chair

D. NOISE MONITORS – Candace Moon, Chair

1. Noise Report, October 2021 – Rachel Keller

E. WORK PROGRAM – Alison Biggs, Chair

6. FAA REPORTS:

A. CENTENNIAL AIRPORT AIR TRAFFIC CONTROL TOWER – Kurt Carpenter/Ron Curry

7. OTHER REGULAR REPORTS:

- A. ACPAA – Robert Doubek, ACPAA Treasurer
- B. AIRPORT DIRECTOR'S REPORT – Mike Fronapfel
 - 1. Airport Activity
 - 2. Legislative
 - 3. Other

8. OLD BUSINESS:

- A. DRAFT 2022 MEETING SCHEDULE FOR CACNR AND ACPAA with CACNR REPRESENTATIVES TO ACPAA
- B. CONGRESSIONAL QUIET SKIES CAUCUS
- C. FOLLOW-UP ITEMS FROM PRIOR CACNR MEETINGS
- D. UC DAVIS NOISE AND EMISSIONS SYMPOSIUM, May 1-3, 2022 at UC Davis in California. Registration likely will be similar to the prices from the 2020 event: Early Bird by January 31, 2022, \$380 for community. Registration begins 12/1/21

9. NEW BUSINESS:

- A. INFORMATION SHARING

10. PUBLIC COMMENT: (3 minutes per person time limit):

11. NEXT MEETINGS:

- A. **CACNR** –

January 5, 2022	6:30 p.m. 7565 S Peoria Street, Unit 9D
February 2, 2022	6:30 p.m. 7565 S Peoria Street, Unit 9D
March 2, 2022	6:30 p.m. 7565 S Peoria Street, Unit 9D
- B. **ACPAA** – December 9, 2021 3:00 p.m. hybrid in-person/virtual meeting

12. ADJOURN



CENTENNIAL AIRPORT COMMUNITY NOISE ROUNDTABLE MINUTES

November 3, 2021

DRAFT

VISION – QUIETER SKIES FOR OUR COMMUNITIES

MISSION – UTILIZING PARTNERSHIPS TO REDUCE AIRPORT NOISE FOR THE BENEFIT OF NEIGHBORING COMMUNITIES

Chair: Brad Pierce **Vice Chair:** Melissa Coudeyras **Treasurer:** Andy Jones **Secretary:** Alison Biggs

1. **CALL TO ORDER, ROLL CALL, and QUORUM:** The meeting was called to order at 6:34 p.m. by Chair Brad Pierce. The following were in attendance and a quorum was present:

Arapahoe County:	Carrie Warren-Gully	Foxfield:	Pam Thompson
Arapahoe County:	Paul Krier	Greenwood Village:	Donna Johnston
Douglas County:	Dan Avery	Highlands Ranch Metro District:	Andy Jones
Douglas County:	Alison Biggs	Lone Tree:	Mike Anderson
Aurora:	Brad Pierce	ACPAA:	Mike Fronapfel
Castle Pines:	Melissa Coudeyras	AOPA:	Bob Doubek
Castle Rock:	Sandy Vossler (virtual)	CABA:	Don Kuskie
Centennial:	Candace Moon	Wings Over the Rockies:	Bill Wasmund

Others in attendance were Arapahoe County Alternate Representative Bill Skinner; new Lone Tree Alternate Representative Chuck Darnell, introduced by Mike Anderson and welcomed by all; past Centennial Alternate Representative Andrea Suhaka; and ACPAA staff Jay Clark, Gina Conley, and Rachel Keller.

Those absent were:

Cherry Hills Village:	Al Blum/Afshin Safavi	FAA APA Control Tower:	Kurt Carpenter/Ron Curry
Parker:	Amy Holland/Todd Hendreks	FAA District Office:	John Bauer/John Sweeney
CDOT Aeronautics Div:	Todd Green/Vacant	FAA TRACON:	Steve Martin/Bill Dunn

Brad Pierce indicated there would be another presentation about the noise monitors, as agenda item 8.D.

2. **PUBLIC COMMENT:**

A. **VIRTUAL/IN-PERSON MEETING ATTENDEES** – Randy Johnson of Louviers, had no comment.

Andrea Suhaka indicated she had reviewed the preliminary content of the Orientation Manual, and suggested the maps might have more detailed labeling. The suggestion was appreciated.

James Slaggert of Orchard Hills #1 in Greenwood Village reported there were still unacceptable levels of noise in his area. He noted he lives very close to a noise monitor, so there is data available about the noise levels he must tolerate. Flight school traffic still presents a problem. Mike Fronapfel indicated the airport would be assisting more actively with the meetings with the flight schools.

Slaggert then asked why it was taking so long for placement of the second noise abatement sign. Bill Wasmund responded that a new run-up area was planned at the airport, which had to be approved by the FAA and finalized. Once that is accomplished, it is planned for the sign to be placed there, where it will be visible to a majority of the training traffic.

B. **FROM CACNR EMAIL ADDRESS** – None. It was requested that the CACNR email address and website be added to the airport's website home page under the listings for the Roundtable's meetings. Rachel Keller stated this would be done.

3. **CONSENT AGENDA:** The Consent Agenda included the October 6, 2021, draft minutes; a Treasurer's Reports dated October 29, 2021 which showed a balance of \$5,134.08; the September Noise Report; the CACNR report to the October 14, 2021 ACPAA meeting from Brad Pierce; and NAC Agenda of October 19, 2021 from Brad Pierce. Following a question from Candace Moon, Alison Biggs moved to remove the October minutes from the consent agenda. Motion was seconded and carried. On the motion of Carrie Warren-Gully, duly seconded, the remainder of the Consent Agenda was approved.

A summary of the September Noise Report follows:

Total Local Operations:	Sept. – 13,547	Aug. – 12,181	July – 12,151	June – 12,974	May – 9,243	April – 13,579
Total Operations:	Sept. – 30,309	Aug. – 29,544	July – 29,468	June – 30,148	May – 22,855	April – 27,444

Year To Date Total Operations:	Sept. – 236,820	Aug. – 206,511	July – 176,967	June – 147,499	May – 117,351	April – 94,496
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Noise Events:	Sept. – 31,664	August – 30,170	July Total – 30,495	June total – 34,335	May Total – 28,869
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Noise Events Recorded at Each Noise Monitor:

<u>Sept. Totals:</u>	<u>Sept. 60 – 69 db:</u>	<u>Sept. 70-79 db:</u>	<u>Sept. 80-89 db:</u>
9,902 Golf Course	5,835 Golf Course	3,838 Golf Course	587 Airport East
7,839 Meridian	5,971 Meridian	1,799 Meridian	224 Golf Course
3,144 State Park	2,238 State Park	910 Airport East	67 Meridian
2,983 Airport East	1,883 Parker	892 State Park	14 State Park
2,129 Parker	1,413 Airport East	244 Parker	11 Grandview Estates
1,551 Grandview Estates	1,372 Grandview Estates	167 Grandview Estates	4 Hunters Hill
1,180 Greenwood Village	1,059 Greenwood Village	119 Greenwood Village	4 Lone Tree
1,070 Castle Rock	1,024 Castle Rock	83 Hunters Hill	2 Greenwood Village
827 Lone Tree	757 Lone Tree	66 Lone Tree	2 Parker
630 Hunters Hill	543 Hunters Hill	44 Castle Rock	1 Castle Rock
222 Castle Pines	199 Castle Pines	23 Castle Pines	0 Castle Pines
187 Sagebrush Park	172 Sagebrush Park	15 Sagebrush Park	0 Sagebrush Park

Sept. noise events in the 90+ decibel range were:

Airport East – 73 Golf Course – 5 Meridian – 2 Castle Rock – 1 Grandview Estates – 1

Noise Complaints and Numbers of Households: Sept – 1,618 & 55 August – 1,497 & 67 July – 1,562 & 112 June – 1,476 & 145

September Complaints:

594 U Douglas County (37%)	95 Centennial (6%)
367 Greenwood Village (23%)	50 Aurora (3%)
200 U Arapahoe County (12%)	30 Highlands Ranch (2%)
140 Other (9%)	6 Lone Tree (.4%)
136 Castle Rock (8%)	

September Households:

14 U Arapahoe County (25%)	3 Aurora (6%)
11 U Douglas County (20%)	3 Centennial (6%)
9 Greenwood Village (16%)	2 Castle Rock (4%)
7 Other (13%)	2 Highlands Ranch (4%)
4 Lone Tree (7%)	

Comparatively, in September 2021, there were 1,618 complaints from 30,309 operations. In August 2021, there had been 1,497 complaints from 29,544 operations. In July 2021, there had been 1,562 complaints from 29,468 operations; in June 2021, there had been 1,476 complaints from 30,148 operations.

Year to Date, at the end of September 2021, there had been 10,903 complaints from 339 households:

Complaints:

3,129 U Arapahoe County (29%)	165 Highlands Ranch (1.5%)
2,972 U Douglas County (27%)	86 Parker (0.8%)
1,597 Greenwood Village (15%)	41 Lone Tree (0.4%)
1,029 Centennial (9%)	34 Castle Pines (0.3%)
919 Castle Rock (8%)	34 Denver (0.3%)
553 Other (5%)	1 Cherry Hills Village (0.009%)
370 Aurora (3%)	

Households:

106 U Arapahoe County (31%)	11 Aurora (3%)
80 Greenwood Village (24%)	8 Highlands Ranch (2%)
35 U Douglas County (10%)	7 Castle Pines (2%)
26 Other (8%)	6 Castle Rock (2%)
25 Centennial (7%)	6 Parker (2%)
16 Denver (5%)	1 Cherry Hills Village (0.3%)
12 Lone tree (4%)	

September had 139 noise complaint responses requested, 71 by mail (51%) and 68 by telephone (49%). August had 113 noise complaint responses requested, with 37 of those made by email and 76 made by phone. **Year to date** at the end of September 2021, there had been **1,099 responses requested**, with 588 requests made by email and 511 by telephone (the latter figure has been corrected from that shown on page 7 of the September Noise Report).

1,503 of the 1,618 complaints in September were about flights during **day hours** (93%); 115 were about **night flights** (7%)

Year to date at the end of September, the **top five complaining households** were in:

2,076 Unincorporated Douglas County (19%)	1,235 Unincorporated Arapahoe County (11%)
1,283 Unincorporated Arapahoe County (12%)	1,167 Greenwood Village (11%)
	882 Castle Rock (8%)

Props accounted for 76% of the complaints by aircraft type in September, while **jets accounted for 22% of the complaints**, and **2% were about helicopters**. These figures do not include complaints made by the top complaining household.

Departures were responsible for **58%** of the complaints in September. **Arrivals** were responsible for **20%** of the complaints, and **Training** was responsible for **22%** of the complaints in September. Again, these figures do not include complaints made by the top complaining household.

The graph showing the 13-month relationships between airport operations and the numbers of complaints with and without the top complaining household removed was again provided.

The September and Year to Date complaint maps continued to show the **largest cluster of complaints** located north and slightly west of the airport's north-south runway. In September, there had been 2 complaining households from outside the map boundaries: Elizabeth, and Littleton. Year to date by the end of September, there had been 27 households located outside the map area,. In August, there had been 26 complaining household from outside the map boundaries: Blackhawk – 1; Boulder - 3; Broomfield – 1; Colorado Springs – 2; Denver – 3; Elizabeth – 1; Franktown – 2; Golden – 1; Littleton – 7; Morrison – 2; Parker – 1; Sedalia – 1; and Thornton – 1. The location of the additional household noted in September was not available as of the meeting date. A July 2021 Radar Track Density Map was included.

4. **ITEMS REMOVED FROM CONSENT AGENDA:** Following discussion, the October 6, 2021 minutes were amended on page three, 5.D. to read "...Candace Moon indicated the committee had met to consider the request..."

It was noted there had apparently been a transmission problem in the second paragraph of 5.D., on page 3, resulting in some of the text being garbled. The last sentence was intended to read "The initiation of another FAA Part 150 study (Title 14 Code of Federal Regulations (CFR) Part 150, Airport Noise Compatibility Planning) was also being considered by ACPAA, and Mr. Reindel might be available as part of that again." The problem would be handled in the amended version of the minutes.

On the motion of Donna Johnston, duly seconded, the October 6, 2021 minutes were approved as amended.

5. **COMMITTEE REPORTS:**

1. **EXECUTIVE /WORK PLAN COMMITTEES** – 1. On the motion of Alison Biggs, duly seconded, the Chair's appointment of Andy Jones to fill the unexpired term of Treasurer Tom Dougherty was approved.
2. Draft Bylaws amendments to address the problem of establishing a quorum and the lack of a Chair if both the Chair and Vice Chair are absent from any meeting were presented. On the motion of Andy Jones, duly seconded, the Bylaws were adopted as amended.
3. A different approach will be attempted for meetings with the flight schools, due to the continuing difficulty in getting the group together. This may entail meeting individually with each school.
4. The Town of Parker had requested an educational session about CACNR, and Brad Pierce and Melissa Coudeyras would be doing that on November 8th. The updated power point presentation would be utilized.

B. **COMMUNITY OUTREACH** – Melissa Coudeyras reported the committee had not met.

C. **FLY QUIET** – Bill Wasmund had provided a written report for the committee, which was included in the email packet. Since that report was written, the committee had met again and would consider other approaches to recognizing pilots who fly quietly, as there were too many factors involved for consistent and fair implementation of an incentive program. It was hoped a new approach might be ready for consideration at the December meeting. The committee's work on other projects continues.

D. **NOISE MONITORS** – Candace Moon indicated the committee had met and learned more about the workings of the noise monitors, which would be reported later in the meeting. A site had been found in Highlands Ranch for one of the two portable noise monitors. Question was asked how long it could stay there. Response was until it was needed elsewhere; placement is a first come, first placed basis, but there has not been much call for the portables lately.

E. **WORK PLAN** – The committee had not met, but exploration was being done about the mechanics of designating a place on the website for the orientation information. There may be need for some 'outside' assistance with this. A draft of the information to be placed there had again been shared, and Representatives again asked to provide feedback on the content.

6. **FAA REPORTS:**

A. **CENTENNIAL (APA) AIR TRAFFIC CONTROL TOWER** – Mike Fronapfel reported Jeff Holmes was the new Manager here. Fronapfel had shared with him how helpful CACNR found it when Ron Curry had been able to attend meetings.

7. **OTHER REGULAR MONTHLY REPORTS:**

A. **ACPAA** – Bob Doubek had no report. Brad Pierce had represented CACNR at the October 14 meeting and indicated there had been interest in progress on the flight school meeting. It was noted ACPAA would be holding a public hearing on its 2022 budget on December 9, 2021

B. **AIRPORT DIRECTOR'S REPORT** – Mike Fronapfel was congratulated on his appointment as the new Executive Director of Centennial Airport. He reported the airport was busy, although the latest numbers were not yet available. Fuel sales in August had been the highest ever, even though avgas sales had been lower due to pandemic restrictions. DIA traffic is more normal, which does have an effect on Centennial. Upon request, Fronapfel provided a history of the Denver Metroplex Project and ACPAA's involvement with it, and its lawsuit against the FAA. Some areas report noticing a difference in flight patterns and resulting noise. Staff would be doing an analysis of recent flight tracks, and updating the heat maps, which would be shared when completed.

Fronapfel further reported he was getting a positive reaction from the FAA about federal grant monies being made available for another Part 150 study for ACPAA in 2023. Although this would likely be a lengthy process (hopefully not as long as the last one), this could certainly be an opportunity to look at the impact of Metroplex here, as well as training traffic, and might eventually lead to a Part 161 review as well. He noted there had been twelve recommendations from the last Part 150; these had been provided with the meeting materials for the October CACNR meeting along with the FAA's ruling on each one. Naples, Florida has been the only place in the US which has gone through a successful Part 161 to date; that review relates to airport noise and access restrictions, and information about it had also been provided to CACNR in October. Various processes need to be accomplished in relation to both Part 150 and Part 161, but the results could affect noise ordinances and land use referrals.

8. **OLD BUSINESS:**

A. **2021 MEETING SCHEDULE FOR CACNR & ACPAA, INCLUDING CACNR REPRESENTATIVES TO ACPAA** – The 2021 meeting schedule was provided. No one from CACNR was available to attend the November ACPAA meeting, so the Secretary would provide a written report.

B. **CONGRESSIONAL QUIET SKIES CAUCUS** – no report

C. **ACTION ITEMS FROM PRIOR CACNR MEETINGS** – There was consideration of the list of Items for Follow-Up from previous meetings. Those items considered completed were from February 3 - #1; May 5 - #1; September 1 - #3; and October 6 - #7 and #9.

9. **NEW BUSINESS:**

A. **PRESENTATION ON NOISE MONITORS** – Mike Fronapfel discussed the 2 portable and 12 permanent noise monitors in use, with six permanent monitors each in Arapahoe and Douglas Counties. Originally, the cost was approximately \$35,000 per site, although that would likely be higher now. The system will accommodate the addition of other monitors. He briefly discussed the challenges in selecting all the sites, and the pros and cons of each. Question was asked how the data is used. Response was in responding to complaints primarily. The monitors have a life cycle of about twenty years, with these activated in about 2013 or 2014. They are checked for accuracy on an annual basis. Ambient noise levels may be measured more often than annually if changes become noticeable. Staff was asked to provide CACNR with the current ambient noise levels for each monitor.

Rachel Keller discussed the various classes of airspace and how flights to and from Centennial Airport are held down by the priorities given to Denver International Airport. She noted the 1,000 foot altitude requirement does not apply for landings and take-offs, which result in many of the noise problems affecting those who reside in the CACNR communities surrounding the airport. Flights transitioning to the unofficial practice areas are uncontrolled and manage themselves, so all must rely on the willingness of pilots and instructors to fly quiet while doing so. The rather abrupt altitude changes around the airport also require pilot attention and accommodation. Air traffic is also affected considerably by 'outside' events, such as when the Broncos are playing at home, or when there is a Presidential visit to the area.

There was agreement information on the air space classifications and other informational material needs to be made more easily available to the public.

B. **INFORMATION SHARING** – Information about the FAA Part 150 and Part 161 had been provided. ACPAA is looking into doing another FAA Part 150 study. It is apparently too late to request funding to begin the study in 2022; a request for funding will need to be made in 2022, so it can be included in the 2023 budget.

10. **PUBLIC COMMENT:** None

11. **NEXT MEETINGS:**

A. **CACNR** – December 1, 2021 6:30 p.m. 7565 S Peoria Street, Unit 9D, Englewood, CO

B. **ACPAA** – Nov 12, 2021 3:00 p.m. 7565 S Peoria Street, Unit 9D, Englewood, CO (2nd Friday, not usual Thursday)
Dec 9, 2021 3:00 p.m. 7565 S Peoria Street, Unit 9D, Englewood, CO

12. **ADJOURNMENT:** The meeting was adjourned at 8:31 p.m.

Alison Biggs, Secretary

CENTENNIAL AIRPORT COMMUNITY NOISE ROUNDTABLE		2021 BUDGET AS OF NOVEMBER 24, 2021		
(Considered a place holder year until the pandemic circumstances have evolved)				
		CACNR 2021 BUDGET	ACTUAL TO DATE	NOTES
INCOME:				
CARRY OVER FROM 2020	\$	10,277.48	\$ 10,277.48	carry over from 2020
ACPAA	\$	-		
CACNR REGULAR MEMBERS	\$	-		
TOTAL INCOME:	\$	10,277.48	\$ 10,277.48	
EXPENDITURES:				
WORK PROGRAM:				
COMMUNITY OUTREACH				
Website	\$	700.00		Website updating and maintenance
	\$	500.00		Place holder for projects tbd
FLY QUIET	\$	500.00		Place holder for projects tbd
NOISE MONITOR	\$	500.00		Place holder for projects tbd
WORK PLAN	\$	500.00		Place holder for projects tbd
EDUCATION				
2 Reps to UC Davis Symposium**	\$	500.00	\$ 175.00	Conference registration fees for seven CACNR members to attend Virtual February 23rd-26th UC Davis Symposium at \$25 per person
2 Reps to 2 N.O.I.S.E. Conferences**	\$	-		**2021 conferences will be virtual; no registration fee
CONSULTATION/ TASK SUPPORT	\$	3,000.00	\$ 2,250.00	Pilot project with Jason Schwartz-invoice received 2/3/21 and submitted for payment 2/4/2, due 3/5/21
			\$ 1,200.00	Consulting Services from Jason Schwartz received 7/13/21 and submitted for payment 7/21/21, due 8/11/21
			\$ 337.50	Consulting Services from Jason Schwartz received 8/16/21 for work done 7/10/21
			\$ 750.00	Consulting Services from Jason Schwartz received 11/15/21 for work done October 2021
MEMBERSHIP DUES	\$	1,000.00	\$ 1,000.00	N.O.I.S.E. 2021 Membership Dues received 8/6/21 and submitted for payment 8/9/21
ADMINISTRATIVE		\$	\$	
		200.00	48.54	Zoom Pro Account expenses for December 2020 and January and February 2021
			32.36	Zoom Pro Account expenses for March and April 2021
			100.00	Donation to Lone Tree Arts Center in Memory of Harold Anderson
TOTAL EXPENDITURES AS OF 11-24-21:	\$	7,400.00	\$ 5,893.40	Actual to be determined at the end of 2021
CARRY OVER TO 2022 AS OF 11-24-21	\$	2,877.48	\$ 4,384.08	Actual to be determined at the end of 2021
** Usually includes registration, travel, ground transportation, lodging, meals. 2021 meetings will be held virtually				
FRAME OF REFERENCE: MOU Funding Structure adopted 12/13/2018 calls for initial funding to generate \$22,250, with \$10,000 from ACPAA and \$12,250 to come from CANR's Regular Members.				
"This funding would be in place for the next two years, subject to annual appropriations. Thereafter, CACNR will provide ACPAA and each Regular Member with a report on the previous year's expenditures, and an annual invoice accompanied by a proposed budget indicating how the requested funds would be utilized, so that funds could be appropriated for the coming year."				
PLEASE NOTE FUNDING FROM ACPAA AND REGULAR MEMBERS WAS NOT REQUESTED FOR 2020 and 2021 DUE TO THE ECONOMIC IMPACTS OF THE CORONAVIRUS PANDEMIC.				
IT IS ANTICIPATED THE SECOND YEAR OF THE FUNDING STRUCTURE OUTLINED ABOVE WILL BE RESUMED FOR 2022				



CENTENNIAL AIRPORT COMMUNITY NOISE ROUNDTABLE UPDATE
for
NOVEMBER 12, 2021 ACPAA MEETING
Alison Biggs, CACNR Secretary

- Apologies that no one from CACNR could be present to present this report. Please let us know if you have any questions.
- Three members of the public attended the meeting, two virtually and one in person. Comments related to unacceptable levels of noise in neighborhoods, concern about the length of time it was taking to achieve a meeting with the flight schools, and concern about the length of time needed so far to achieve placement of a second noise abatement sign.
- A revised approach will be taken to meeting with the flight schools, with the airport taking a more active role and individual meetings being conducted rather than one larger group gathering.
- Sign placement must wait until the airport finalizes development of a new area; one goal is to locate the sign where it will be seen by training traffic.
- A revised approach to the idea of incentivizing fly quiet behaviors by pilots is being explored.
- Bylaws amendments related to the determination of a quorum and who chairs a meeting if neither the Chair or Vice Chair can be present were adopted.
- Another educational session was held, with a focus on how the locations for the twelve noise monitors were determined, and the types of existing airspace classifications. The constraints of the classifications, given the airport's proximity to DIA, were explored. There was preliminary discussion of how to better provide this type of information to the public.
- Mike Fronapfel was congratulated on his new position.



Fly Quiet Committee - November 2021 Monthly Report

- Re-visiting several projects.

Discuss, develop and implement incentives for voluntary use of fly quiet procedures using noise sensors and ANOMS.

On October 28th, Bill Wasmund, Donna Johnston, Rachel Keller, Samuel Hostetler, Gina Conley, and Mike Fronapfel met and discussed various approaches in-order-to move forward with a program to incentivize pilots to fly quietly. After much discussion, it was determined that there were too many factors to implement a program designed around incentives consistently and fairly. These factors ranged from ATC requirements for spacing, noise monitors with varying sensitivity thresholds, current weather conditions, aircraft type, etc. As a result of the discussion, the Fly Quiet incentive program as it was presented, will require some additional thought. Several ideas were presented that may be used to modify the program.

It was suggested that the airport and cities consider a program that would help the flight schools pay for propeller conversions and engine mufflers that make their aircraft quieter and more efficient. Leaseback aircraft would not be eligible for the program. The airport is investigating funding for such a program with a portion of generated revenues or local fuel flowage fee tax dollars. The airport has investigated costs and will be developing a proposal to present to CACNR.

The group also discussed a modified incentive program that would encourage pilots to fly quietly built around positive reinforcement. When the airport receives positive comments about planes flying quietly over a neighborhood, Rachel said she can post them on the Centennial Airport website. She would also provide information showing airport process when pilots chronically do not meet noise guidelines.

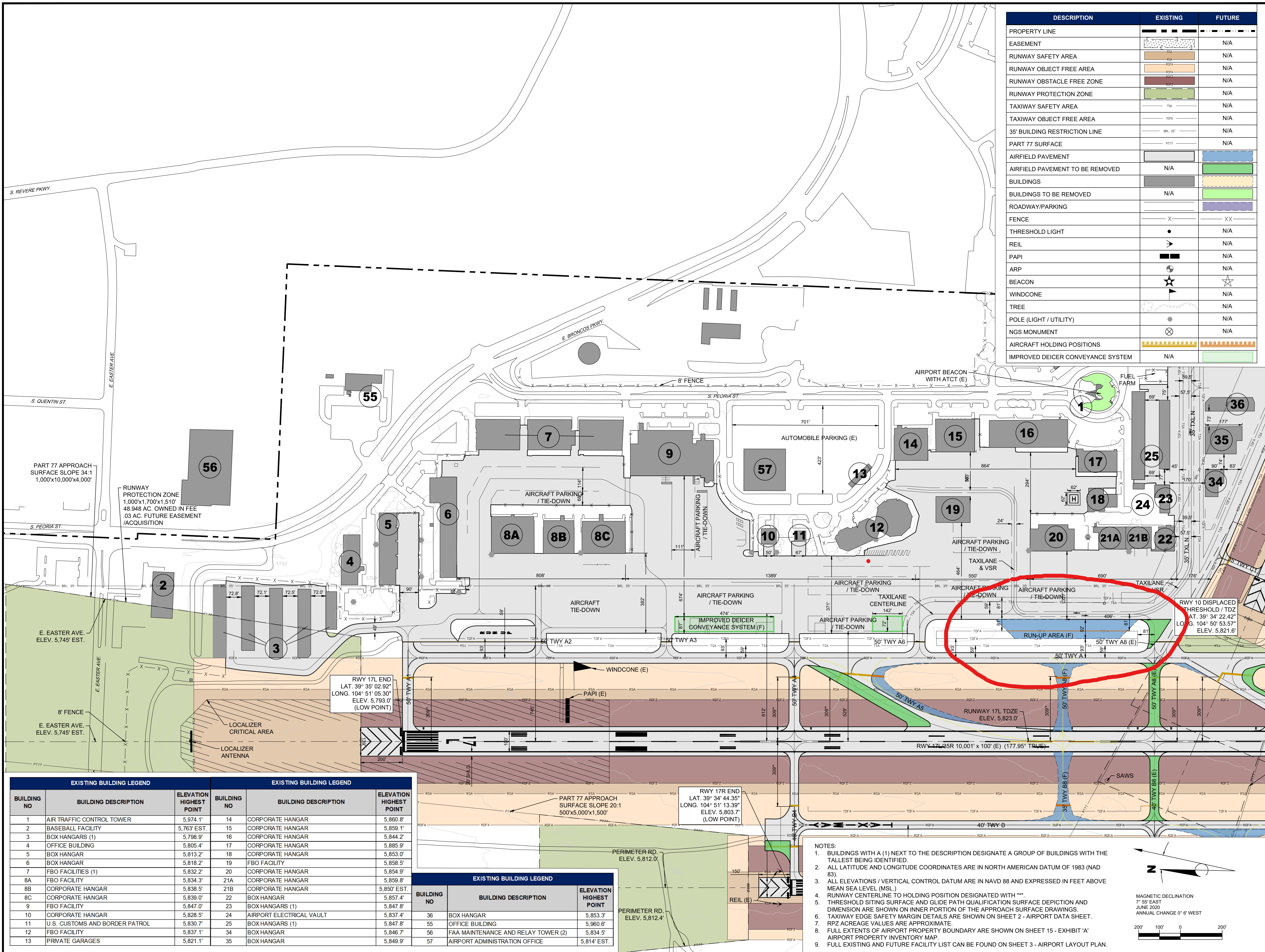
Second Location for Noise Abatement sign

Centennial Airport has released their master plan information on their web site. The attached Terminal Area drawing defines a confirmed location for a new runup area (circled in red) between taxiways A6 and A8. Within this area will be the location for Noise Abatement sign #3. The airport is expecting grant approval funding for the runup area construction and associated taxiway modifications in the near future.

Examine how committees, noise monitoring systems, and hotlines are structured and utilized at other airports.

Comparing the operations, procedures, equipment, and committee structure to KAPA. What information is being collected and how it is used. The following airport procedures have been reviewed.

Atlanta, GA	Dekalb-Peachtree	KPDK	Public	Reliever	National	Bob D.
Orlando, FL	Executive	KORL	Public	Reliever	National	Don K.
Tampa, FL	Peter O Knight	KTPF	Public	Reliever	Regional	Bob D.
Torrance, CA	Zamperini Field	KTOA	Public	Reliever	Regional	Don K.



DESCRIPTION	EXISTING	FUTURE
PROPERTY LINE		
EASEMENT		N/A
RUNWAY SAFETY AREA		N/A
RUNWAY OBJECT FREE AREA		N/A
RUNWAY OBSTACLE FREE ZONE		N/A
RUNWAY PROTECTION ZONE		N/A
TAXIWAY SAFETY AREA		N/A
TAXIWAY OBJECT FREE AREA		N/A
35' BUILDING RESTRICTION LINE		N/A
PART 77 SURFACE		N/A
AIRFIELD PAVEMENT		
AIRFIELD PAVEMENT TO BE REMOVED	N/A	
BUILDINGS		
BUILDINGS TO BE REMOVED	N/A	
ROADWAY/PARKING		
FENCE	X	XX
THRESHOLD LIGHT	•	N/A
REIL	➔	N/A
PAPI	■ ■ ■	N/A
ARP	⊙	N/A
BEACON	★	★
WINDCONE	⚓	N/A
TREE	🌳	N/A
POLE (LIGHT / UTILITY)	•	N/A
NGS MONUMENT	⊗	N/A
AIRCRAFT HOLDING POSITIONS		
IMPROVED DEICER CONVEYANCE SYSTEM	N/A	



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303-409-9700 FAX 303-409-9701
www.rsandh.com



**CENTENNIAL
AIRPORT**
ENGLEWOOD, CO

**AIRPORT
LAYOUT
PLAN**

CONSULTANTS

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: FEBRUARY 2021
REVIEWED BY: KR, MB, TM
DRAWN BY: SD
DESIGNED BY: SD

PROJECT NUMBER
224-0054-000

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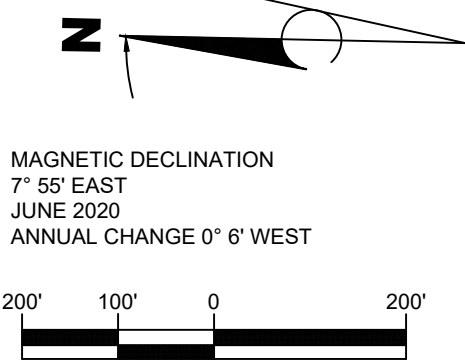
SHEET TITLE

**TERMINAL AREA
DRAWING -
NORTH SIDE**

SHEET NUMBER

4 OF 18

- NOTES:
- BUILDINGS WITH A (1) NEXT TO THE DESCRIPTION DESIGNATE A GROUP OF BUILDINGS WITH THE TALLEST BEING IDENTIFIED.
 - ALL LATITUDE AND LONGITUDE COORDINATES ARE IN NORTH AMERICAN DATUM OF 1983 (NAD 83).
 - ALL ELEVATIONS / VERTICAL CONTROL DATUM ARE IN NAVD 88 AND EXPRESSED IN FEET ABOVE MEAN SEA LEVEL (MSL).
 - RUNWAY CENTERLINE TO HOLDING POSITION DESIGNATED WITH "H".
 - DIMENSION ARE SHOWN ON INNER PORTION OF THE APPROACH SURFACE DRAWINGS.
 - TAXIWAY EDGE SAFETY MARGIN DETAILS ARE SHOWN ON SHEET 2 - AIRPORT DATA SHEET.
 - RPZ ACREAGE VALUES ARE APPROXIMATE.
 - FULL EXTENTS OF AIRPORT PROPERTY BOUNDARY ARE SHOWN ON SHEET 15 - EXHIBIT 'A' AIRPORT PROPERTY INVENTORY MAP.
 - FULL EXISTING AND FUTURE FACILITY LIST CAN BE FOUND ON SHEET 3 - AIRPORT LAYOUT PLAN.



NOISE ABATEMENT

**Please Follow Centennial Airport
Noise Abatement Guidelines**

**Be Aware of Surrounding
Noise Sensitive Areas**

**For Information or Questions
(303) 790-0598**

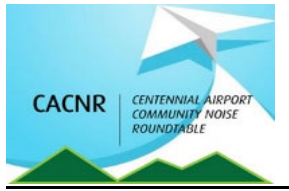
DRAFT

CACNR/ACPAA 2022 MEETING SCHEDULES

CACNR REPRESENTATIVES TO 2022 MEETINGS OF THE ARAPAHOE COUNTY PUBLIC AIRPORT AUTHORITY

ACPAA meets at 3:00 p.m., 7565 South Peoria Street, Englewood, CO 80112

CACNR MEETINGS	ACPAA MEETINGS	CACNR REPRESENTATIVE	REPORT DUE DATE
	Not finalized by ACPAA yet		(To rkeller@centennialairport.com)
January 05	ACPAA not likely to meet		include with Feb CACNR report
February 02	February 10		February 04 (see above)
March 02	March 10		March 04
April 06	April 14		April 08
May 04	May 12		May 06
June 01	June 16 (note 3 rd Thursday)		June 10
July 06	usually do not meet		include with Aug CACNR report
August 03	August 11		August 05 (see above)
September 07	September 08		May Not Be Time To Write
October 05	October 13		October 07
November 02	November 10		November 04
December 07	December 08		May Not Be Time to Write



ITEMS FOR FOLLOW-UP

For Review on December 1, 2021

- Request was made for a completion date to be added for each item, so CACNR needs to identify its expectations in that regard. Dates need to be established at the time needed action is identified. **ALL**
- Consider what amount of detail is needed; can it be assumed some things will be done without being listed here? **ALL**
- At all meetings, various ideas seem to be discussed/suggested regarding work of the committees, and on other topics as well. Do such discussions need to be listed, or will each committee make note of the ideas, determine follow-up and report back to the larger group? **ALL**

01/06/21

1. Request was made for CACNR to receive a summary or informational report about results from portable noise monitors when they were utilized. **Rachel Keller or airport staff**

02/03/21

1. Explore holding some type of meeting between CACNR and flight school operators; see if Noise Abatement Guidelines (NAG) should be updated; could NAG be formally incorporated into flight school best practices **Brad Pierce and Fly Quiet Committee**
2. Consider rolling #2 into the Work Program; possibly link with good neighbor incentives; Brad Pierce would coordinate such efforts, perhaps starting with consideration of updating the NAG. **Brad Pierce**

03/03/2021

1. Follow up to be done with Jason Crow re Congressional Quiet Skies Caucus. **EC or ?**

04/07/2021

1. Robert Olislagers to work with Dave Adams from Inspiration area about the turning route of southbound flights. **RO**
2. Had John Kocon from northwest of Castle Pines provided more information to airport staff for further exploration of dramatic change in flight paths affecting his area? **Rachel Keller**
3. Jason Schwartz to be asked to provide a cost estimate for two portions of Phase Two. **EC**
4. Reiteration of #2 & #3 from 02/03/21 **Fly Quiet Committee and Brad Pierce**
5. Forward agenda for meeting noted in #7 to Mike Fronapfel and Rachel Keller. **Bill Wasmund.**
6. Send CACNR information about numbers and types of complaints or requests for information received from the public, and the information provided accordingly. **Airport Staff**

7. CACNR to determine what, if any, additional information about noise and its effect on the public it and the public would like to regularly receive, and how that would be used; explore capabilities of current noise monitor system to generate that information; explore capabilities and costs of other systems if appropriate. **No champion identified – could become a major project for a future Work Program?**
8. More attention to be given to the training boxes in the practice areas southeast and southwest of the airport. **Robert Olislagers & airport staff**
9. Ask control tower to attend the meeting under development and referenced in #7 above. Also include the impacts of flight noise in immediate proximity to the airport. **Brad Pierce and Fly Quiet Committee.**
10. Provide information to the public about the anticipated demand for more flight training as the need for new pilots is increasing./**No champion identified – do we pursue at this time or in the future?**

05/05/21

1. Continue working with Jason Schwartz re Phase II of Work Program Project. **EC**
2. Develop spreadsheet with nighttime data – 10:00 p.m. -6:00 a.m. **Airport Staff**
3. Follow-up possibly making the Good Neighbor Procedure an official procedure. **Liam Clark**
4. More meetings to be held with flight schools (one held). Information being gathered from flight schools to see if there is any consistency. **EC with JS/Fly Quiet/Airport Staff**
5. Still need representative to represent CACNR at June and August-December ACPAA meetings. **All**
6. Communicate with Colorado members of Congressional Quiet Skies Caucus, including link to report from the U.S. Department of Transportation, Office of Inspector General. **Brad Pierce**

06/02/21

1. Staff updates awaited for adding Noise Abatement Guidelines to Whispertrack's electronic tablet application. **Rachel Keller**
2. Continue work on CACNR Orientation materials for placement on CACNR website. **Work Plan and Community Outreach Committees**

08/04/21

1. Clarify the number of flight schools operating at Centennial – one report indicates there are 7, but another indicates only 4. **EC and Airport Staff**
2. Hold education session about capabilities of the noise monitoring system, to include ambient thresholds which are adjusted annually, additional types of data available which CACNR would find useful, information of how locations of current monitors were selected, etc. **Noise Monitor Committee/EC**
3. Continue work to identify location of 2nd noise abatement sign. **Fly Quiet Committee**

09/01/21

1. Continue working to find date for meeting with flight schools, CACNR, ACPAA, Counties **EC with JS/Fly Quiet/Airport Staff**

2. Provide information about FAA Part 150 and Part 161 **EC**
3. Continue exploring incentives for voluntary use of fly quiet procedures; exploring how hotline information is collected and used at other airports; possibly pursue inviting those high on the complaint list to learn more about how their actions affect the communities. **Fly Quiet Committee**

10/06/21

1. Send out invoices for 2022 Regular Members. **Treasurer/EC**
2. Schedule Emily Tranter of N.O.I.S.E. to virtually attend a future CACNR meetings. **Brad Pierce**
3. Efforts continued to be made to find an acceptable date for the meeting with the flight schools and the CACNR Executive Committee, the CACNR Fly Quiet Committee members, airport staff and County Commissioners from both Arapahoe and Douglas Counties. **EC with JS/Fly Quiet/Airport Staff**
4. Explore ways to utilize social media to reach the public. **Community Outreach Committee**
5. Looking at incentives for use of the fly quiet procedures; examine how hotlines are handled at other airports; and establish a location for a second noise abatement sign. **Fly Quiet Committee**
6. If appropriate, share information about carbon fiber composite materials and how propeller upgrades might take advantage of reduced power settings, resulting in less noise, weight reduction, longer service life, and possibly increased cruise speed with pilots and with flight schools.
7. Determine feasibility and cost of adding a permanent monitor to the system. **??**
8. Have someone such as Eugene Reindel of Harris Miller Miller & Hanson, Inc. (HMMH) who was instrumental in the placement and workings of the monitors) available for a future meeting. **EC**

11/03/21

1. Review maps to be used in Orientation materials, to provide more detail as appropriate **WP/Staff**
2. Add CACNR email address and website to the airport's website home page under the listing for the Roundtable. **Rachel Keller**
3. Reconsider the approach to the flight schools due to the difficulty in getting them together. **EC/Staff**
4. Fly Quiet reconsidering approach to recognizing pilots who fly quiet. **Fly Quiet Committee**
5. Consider possible need for 'outside' assistance in getting the orientation material on the website **WP and Community Outreach Committees**
6. Staff analysis of recent flight tracks and updated heat maps to be shared with CACNR **Rachel Keller**
7. CACNR to be provided with current ambient noise levels for each noise monitor. **Rachel Keller**
8. Make information about air space classifications and their effects easily available to the public. **??**